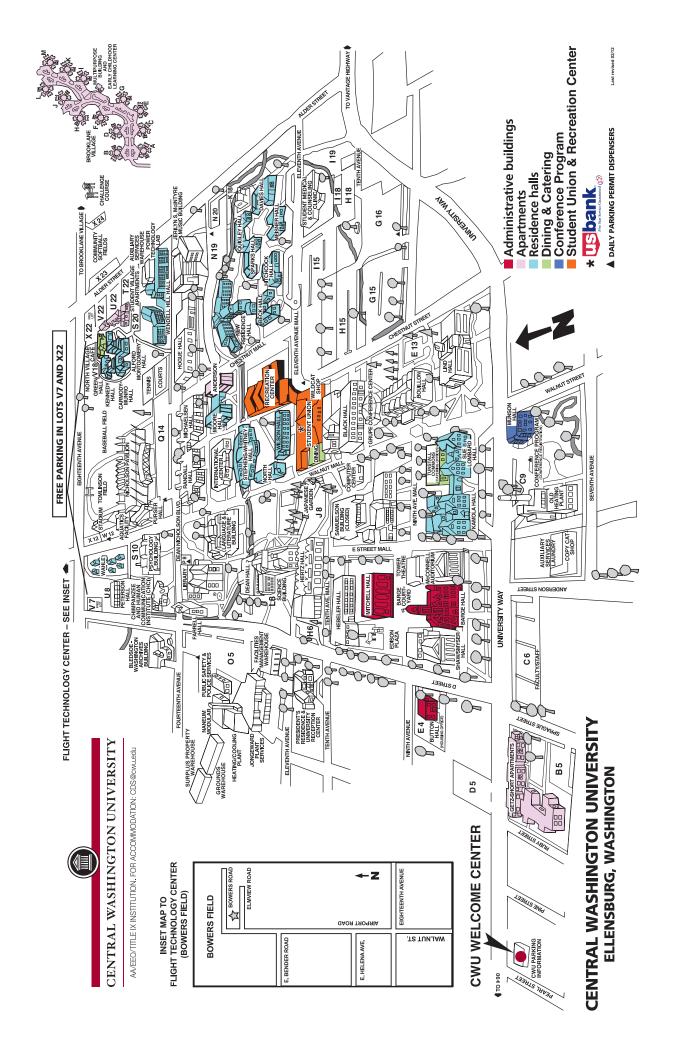


2012-2013 ACADEMIC YEAR CATALOG



# Letter of Greeting from the President of CWU



Greetings,

As the university's 14th president it is my pleasure to extend warm greetings to new, transferring and returning students.

Central Washington University is two universities in one—a residential campus in Ellensburg and a state-wide university that serves students in eight locations in western and central Washington. Close partnerships with community colleges make degree programs readily available for students whose work or family commitments make enrolling full-time at a traditional residential campus difficult. State-of-the-art facilities and our new on-line campus are bringing outstanding programs to students throughout the state.

Students learn in small classes from professors for whom teaching is the highest priority. Our commitment to leaving the classroom and giving students the chance to do what they're learning makes education exciting and relevant.

At Central Washington University, student success is our highest priority and we work to provide students with exciting, diverse, personalized, and distinctive opportunities for learning and recreation. I encourage you to join a club, participate in student government, volunteer in the community, become a member of a research team, or engage in similar opportunities that will enrich your educational experience.

Central Washington University is also committed to providing students a learning environment built on principles of respect, support and encouragement. We believe those values are essential to achieving individual excellence. During your time here, I encourage you to take advantage of the performances, exhibitions, sporting, and other events we provide especially for students. I hope you will also explore the mountains, rivers, and historic communities in the Kittitas Valley.

I look forward to meeting you. Please introduce yourself when you see me around campus, at an event or even in the grocery store!

Welcome to CWU. I am glad you have chosen to attend this remarkable university.

Sincerely,

James L. Gaudino President

# **Catalog Guidelines**

The university catalog is prepared by Registrar Services and the Public Affairs teams. Copies of the catalog may be obtained from the Wildcat Shop, Central Washington University, 400 East University Way, Ellensburg, WA 98926-7449. It is also available online at www.cwu.edu/~catalogs.

This catalog and its contents shall not constitute a contract between Central Washington University and prospective or enrolled students.

The information contained in this catalog reflects the current policies and regulations of the university. However, the university reserves the right to make changes in its policies and regulations at any time. Accordingly, if policies or regulations of the university at any time conflict with information contained in the catalog, the policies and regulations will govern, unless expressly determined otherwise by the CWU Board of Trustees.

A file containing documents describing the university's accreditation and approval by accrediting agencies is maintained in the Office of the Provost and Vice President for Undergraduate Studies and may be viewed by any current or prospective student upon request.

Central Washington University is an AA/ EEO/ Title IX Institution.

Central Washington University's policies and practices affirm and actively promote the rights of all individuals to equal opportunity in education and employment without regard to their race, color, religion, creed, national origin, sex, sexual orientation, gender identity and gender expression, age, marital status, disability, or status as protected veterans. CWU complies with all applicable federal, state, and local laws, regulations, and executive orders. Address inquires to the Director, Equal Opportunity and Title IX Coordinator, Bouillon 205, Ellensburg, WA 98926-7425, 509-963-2205; oeo@cwu.edu, www.cwu.edu/~oeo. Persons with disabilities may request reasonable accommodation by contacting the Center for Disability Services: 509-963-2171; CDS@cwu.edu, www.cwu.edu/ disability-support.

Central Washington University

June, 2012

Registrar Services Mitchell Hall Central Washington University 400 East University Way Ellensburg, Washington 98926-7465 509-963-3001

www.cwu.edu/registrar

# **Table of Contents**

Letter of Greeting from the President of CWU	
Catalog Guidelines	
Information Directory	
Quarterly Calendar	
History, Mission, Vision, Core Values, and Core Themes	
Student Success	
CWU Life	
University Services	
University Centers	
Undergraduate Admissions	
Transfer Credit	
Advanced Placement Credit	
College Level Examination Program	
Tuition and Fees	
Financial Aid and Scholarships	
Graduation Requirements	
2012-2013 General Education Program	
General Education Course Descriptions	
College of Arts and Humanities	
College of Business	
College of Education and Professional Studies	
College of the Sciences	
Office of Continuing Education	
Office of Online Learning	
Undergraduate Programs Offered	
Accounting Department	
Advanced Programs Department	
Aerospace Studies Program	79
Africana and Black Studies Program	
American Indian Studies Program	
Anthropology & Museum Studies Department	85
Art Department	93
Asia/ Pacific Studies Program	101
Aviation Department	105
Biological Sciences Department	114
Business and Marketing Education	
Center for Teaching and Learning	
Chemistry Department	
Communication Department	
Computer Science Department	
Douglas Honors College	
Economics Department	
Educational Foundations and Curriculum Department	
Engineering Technologies, Safety, and Construction Department	171
English Department	
Environmental Studies Program	
Ethnic Studies Program	
Family and Consumer Sciences Department	
Film and Video Studies Program	
Finance and Supply Chain Management Department	
Geography DepartmentGeography Department	
Geological Sciences Department	
History Department	
Humanities Program	
Individual Studies Program	
Information Technology and Administrative Management Department	
Interdisciplinary Studies Program	
International Programs & Studies	
Latino & Latin American Studies Program	
Language, Literacy, and Special Education Department	
Law and Justice Department	
Library Science Program	
Management Department	

Mathematics Department	332
McNair Scholars Program	343
Military Science Department	344
Music Department	348
Nutrition Exercise and Health Sciences Department	373
Occupational Education Program	389
Philosophy and Religious Studies Department	391
Physical Education, School and Public Health Department	399
Physics Department	413
Political Science Department	420
Pre-Professional Programs	424
Primate Behavior and Ecology Program	432
Psychology Department	435
Science Education Department	441
Science Honors Research	447
Sociology Department	449
STEP Program	456
Teaching Elementary Adolescent and Young Children Department	457
Theatre Arts Department	
University and Enrichment Program	478
Women's and Gender Studies Program	479
Family Educational Rights	481
Academic Appeal Procedures CWUP 5-90-010(3)	481
Alcohol and Drug Policy CWUP 2-40-030	481
Cooperative Education Procedures	
Discrimination Complaint and Resolution Policy CWUP 2-35-070	486
Reasonable Accommodation of Persons with Disabilities - Students CWUP 2-35-040(2)	487
Student Rights and Responsibilities Policy	489
Student Sexual Assault Response Policy CWUP 8-40-050	501
University Personnel	502
Faculty	504
Distinguished Professor Awards	520
Emeritus Faculty	523

# **Information Directory**

# ONLINE ELECTRONIC CATALOG

#### www.cwu.edu/~catalogs

The Online Electronic Catalog (OEC) is the university's official compilation for all curriculum. The OEC serves as the basis for major, minor, and program requirements for the academic year. For current policy and curriculum requirements, refer to the CWU online catalog.

This catalog provides a general guideline of courses offered by the university. The classes and programs described herein are implemented at the sole discretion of the college and are subject to change at any time without notice. Information contained on classes and programs are illustrative only and are not intended to create any contractual obligation or covenant with the university.

#### LIMITATION OF LIABILITY

The university's total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the university for those classes or programs. In no event shall the university be liable for any special, indirect, incidental, or consequential damages, including but not limited to, loss of earnings or profits.

# INFORMATION DIRECTORY

INFORMATION DIRECTORY	
Academic Advising Center, Bouillon Hall, room 203F	(509) 963-3523
Associated Students (ASCWU), Student Union and Recreation Center, 2nd Floor	963-1693
Career Services, Bouillon Hall, room 206	963-1921
Cashiers Office, Barge Hall, room 104	963-2224
Center for Disability Services, Bouillon Hall, room 205	963-2171
Central Switchboard	963-1111
Conference and Catering Services, Munson Hall, Vantage room	963-1141
Continuing Education Office, Barge Hall, room 204	963-1504
Financial Aid, Barge Hall, room 115	963-1611
Graduate Studies and Research, Barge Hall, room 305	963-3103
International Studies and Programs, International Center	963-3612
James E. Brooks Library	963-1901
Office of Admissions, Mitchell Hall, first floor	963-1211
President's Office, Barge Hall, room 314	963-2111
Provost, Barge Hall, room 302	963-1401
Public Safety & Police Services, Public Safety Building, 1211 N. D Street	963-2959
Registrar Services, Mitchell Hall, first floor	963-3001
Student Employment	
• I-9 and W'4, Bouillon 140	963-1202
<ul> <li>Regular Student Employment (non-work study), Bouillon Hall, 205K</li> </ul>	963-3053
• Work Study	963-3008
Student Financial Services, Barge Hall, room 104	963-3546
Student Life, Bouillon Hall, room 204	963-1515
Student Medical Clinic, corner of 11th and Poplar, near Meisner Hall	963-1881
Student Counseling Clinic, corner of 11th and Poplar, near Meisner Hall	963-1391
Transcript Line	963-1227
University Housing and New Student Programs, Button, 2nd Floor	963-1831
Veterans Center, Bouillon Hall, room 206	963-3028

# AVAILABILITY OF SAFETY AWARENESS INFORMATION

The Department of Public Safety and Police Services is responsible for reporting crime statistics in compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act. Central's annual security report is available at www.cwu.edu/~police. It contains information regarding crime prevention programs, the law enforcement authority of the University police, policies concerning the reporting of crime, crime statistics for the most recent three-year period and other information about security that is required by law. A paper copy of the information is also available upon request by writing to: Central Washington University, Department of Public Safety and Police Services, 400 East University Way, Ellensburg, WA 98926-7527.

# **Quarterly Calendar**

Independence Day holiday

Six-week session closes

Full term closes

FALL QUARTER 2012 2013 Open registration for fall September 17-18 September 23-24 September 19 September 25 Classes begin Change of class schedule September 19-25 September 25-October 1 Deadline to apply for baccalaureate degree for winter September 28 October 4 October 29-November 2 October 28-November 1 Advising week Uncontested withdrawal deadline for fall November 2 November 1 Registration for winter November 5-21 November 4-27 Veterans Day holiday (observed) November 12 November 11 Thanksgiving recess November 21-23 November 27-29 Faculty development/ study day December 3 October 16 December 9-12 Final exam week December 4-7 End of quarter December 7 December 13 Days of instruction (54)(53)2013 2014 WINTER QUARTER New Year holiday (observed) January 1 January 1 Open registration for winter January 2 January 2-3 Classes begin January 3 January 6 Change of class schedule January 3-9 January 6-10 Deadline to apply for baccalaureate degree for spring January 11 January 17 Martin Luther King Jr. holiday January 21 January 20 Advising week February 4-8 February 3-7 Registration for spring February 11-March 1 February 10-28 Uncontested withdrawal deadline for winter February 15 February 14 Presidents' Day holiday February 18 February 17 Faculty development/ study day March 11 January 29 Final exam week March 12-15 March 17-20 March 15 March 21 End of quarter Days of instruction (51)(52)SPRING QUARTER 2013 2014 Open registration for spring March 25 March 31-April 1 Classes begin March 26 April 2 March 26-April 1 Change of class schedule April 2-8 Deadline to apply for baccalaureate degree for summer April 5 April 11 Registration for summer (all students) May 6-June 17 May 5-June 22 May 6-10 May 12-16 Advising week Uncontested withdrawal deadline for spring May 10 May 16 Registration for fall (continuing students) May 13-May 31 May 19-June 6 May 15 Source-instructional day May 16 Memorial Day holiday May 27 May 26 Faculty development/ study day June 3 none June 4-7 June 9-12 Final exam week June 13 End of quarter June 7 Commencement (Ellensburg) June 8 June 14 Commencement (Kent) June 9 June 15 Days of instruction (53)(51)NOTE: Days of instruction (includes finals week) SUMMER SESSION 2013 2014 Open registration (all sessions) May 6-June 16 May 5-June 22 Classes begin (six week - full) June 17 June 23 Change of schedule (six week - full) June 17-19 June 23-25 Deadline to apply for baccalaureate degree for fall June 28 July 3

July 4

July 26

August 16

July 4

August 1

August 22

# History, Mission, Vision, Core Values, and Core Themes

#### History

Central Washington University is one of six state-supported institutions offering baccalaureate and graduate degrees. The board of trustees is the university's governing board, seven of the board's eight members appointed for six-year terms by Washington's governor with consent of the state Senate. The governor appoints one student trustee annually. Central was established in 1890 as Washington State Normal School by the first legislature to fulfill the intent of the 1889 Enabling Act for Statehood. In 1891, doors opened for classes. Ellensburg Normal School became Central Washington College of Education in 1937, Central Washington State College in 1961, and Central Washington University in 1977.

#### Mission

The mission of Central Washington University is to prepare students for enlightened, responsible, and productive lives; to produce research, scholarship, and creative expression in the public interest; and to serve as a resource to the region and the state through effective stewardship of university resources.

#### Vision

Central Washington University (CWU) is a dynamic, creative, and inclusive environment that promotes engaged learning and scholarship. It is distinguished regionally for the rigor of its curriculum and scholarship, for the excellence of its pedagogy, for the vibrancy of its co-curricular and residential experiences, for its commitment to providing access to higher education, and for its efforts to advance the social and economic health of the region. It is typified by an entrepreneurial spirit that establishes it as a national leader in higher education. It has a strong commitment to engaged learning and scholarship, internationalism, sustainability, inclusiveness, and life-long learning.

#### **Core Values**

Central Washington University exists to advance society through the essential activities of teaching, discovery, and service. While no one of these core elements is meaningful in isolation from the others, CWU finds it necessary to prioritize its efforts in relation to its mission, vision, values, goals, and resources. In order to maximize the value of each of the elements of its mission, CWU emphasizes the integration of scholarship, teaching, and public service. As a public comprehensive university, CWU strives to create an engaging learning environment and therefore places its highest priority on teaching, learning, and student success. The faculty is comprised of scholar-teachers working in the interests of their disciplines, and the region. CWU encourages individualized programs of student success and promotes undergraduate and graduate student-faculty partnerships that are actively engaged in discovery, creative expression, and engaged learning.

As a community dedicated to the principles of academic freedom, CWU must be an environment that

promotes reasoned, civil, and lightened discourse and creative expression without fear of reprisal, ridicule, or exclusion. CWU's educational environment must empower each person with the freedom to explore, to evaluate, and to learn.

CWU must also strive to serve its region by addressing pressing economic and social issues. As a comprehensive university, CWU must use its intellectual capacity not only to contribute to disciplinary literatures, but also to assist area business, social, and government leaders in strengthening and diversifying the area's economic base, to help create a sustainable natural environment, and to address critical social issues.

CWU is also a place where people gather to live and to work. It must therefore be a place that enables people to grow and to prosper. In keeping with the academic values of shared governance and reasoned dialogue, the university must be open, transparent, and empowering. It follows, then, that CWU is committed to the following shared values:

Student success: CWU believes that student success is best achieved by providing supportive learning and living environments that encourage intellectual inquiry, exploration, and application. CWU believes that learning is best achieved in small classroom or group settings with ample opportunities for individualized instruction, mentoring, advising, and programming.

Access: CWU believes in providing educational opportunities to as many qualified students as possible. CWU believes that restrictions of place, time, and finances can be overcome through the effective use of partnership with community colleges and by effective and efficient use of learning, communication, and social technologies.

**Engagement:** CWU believes that learning, research, and creative expression are enhanced by engagement with external partners. CWU believes that as a publicly-funded institution, it has a responsibility to help address the social and economic challenges faced by our communities.

Inclusiveness: CWU believes that diversity of peoples, cultures, and ideas is essential to learning, discovery, and creative expression. CWU believes that all faculty, staff, and students must be and must feel physically, professionally, and emotionally safe in order to fully engage in and benefit the university experience.

Shared governance: CWU believes that shared governance is most effective when information systems and decision-making processes are both robust and transparent. CWU believes that communication channels should be open and two-way and that faculty, staff, and students should be empowered to participate in the governance systems.

Facilities: CWU believes that state-of-the-art, safe, and attractive facilities enhance the working and learning environments of faculty, staff, and students. CWU also

believes that state-of-the-art technologies provide leverage for the efforts of faculty, staff, and students.

**Safety**: CWU believes it has a responsibility to providing a working and learning environment that is both physically and emotionally safe. CWU believes this responsibility extends to the off-campus environment of its full-time, residential students.

#### **Core Themes**

Teaching and Learning: Student success is the highest priority of the university, and achievement of programmatic student learning outcomes is the prime measure of that priority. CWU therefore works to provide its students with accessible, diverse, personalized, distinctive, and rigorous curricular, co-curricular, and extra-curricular programs. These programs are offered in small group settings typified by close working relationships between students, faculty, and staff. This commitment extends to all students, irrespective of location and modality of instruction. Instructional allocation of resources and organization of curricular, co-curricular, extracurricular opportunities must reflect this commitment to student success.

Teaching and Learning objectives:

Enhance student success by continually improving the curricular, co-curricular, and extracurricular programs.

Enhance the effectiveness of student support services.

Inclusiveness and Diversity: CWU is committed to providing all faculty, staff, and students a diverse working and learning environment built on principles of respect, support and encouragement as a way to achieve individual and collaborative excellence. Changing demographic trends in the United States and the increasing globalization of economic, political, and social systems demand that students be prepared for working in a world in which diversity is the norm. Research clearly indicates that learning is enhanced when students experience a diverse learning and living environment. It also suggests that faculty and staff are more innovative, entrepreneurial, and successful in an inclusive and diverse environment. Inclusiveness is achieved by providing a welcoming, supportive, and empowering environment that encourages individuals to express ideas and identities. A diversely rich community affords depth and dimension in personal and collective outcomes. Diversity is multi-faceted. CWU's physical structure is diverse in location, providing rural, suburban, and urban settings. CWU's educational diversity is represented by the colleges; curricular, co-curricular, and extra-curricular programs available. Diversity in personal identity, culture, experience, and talent is of critical importance as evident in recruitment and retention efforts of students, faculty, and staff, as well as the contribution from special programs, speakers, and scholars that offer voice and representation to interests of race, ethnicity, sexual orientation, gender, ability, age, and political ideas.

Inclusiveness and Diversity objectives:

Enhance the environment of inclusiveness for faculty, staff, and students.

Increase faculty, staff, and student diversity by active programs of recruitment and retention for members of underrepresented groups.

Increase the participation in international educational experiences for faculty and students.

Scholarship and Creative Expression: CWU is committed to the creation, dissemination, and preservation of knowledge through research, scholarship, and creative expression. Engagement in scholarly and creative expression activities adds benefit for students, the university, and local, regional, and global communities. These activities engage students, faculty, and staff in activities that expand knowledge of the natural and physical world, explore human behavior and culture in the past and present, develop organizational practices and technological innovations that support human and economic development, and improve that quality of life through cultural enrichment. CWU places a high value on the full spectrum of scholarship and creative expression, including but not limited to basic and applied research, creative expression in all its forms, and the scholarship of teaching and learning.

Scholarship and Creative Expression objectives:

Increase the emphasis on and the opportunities for students, faculty and staff to participate in research, scholarship, and creative expression activities.

Increase the external funding received for research, scholarship, and creative expression by faculty, staff, and students.

Public Service and Community Engagement: As a publicly funded institution, CWU is committed to serve external communities for the mutually beneficial exchange of service, knowledge, and resources. Such engagement includes the appropriate use of university resources to support existing partnerships and engage new partners to contribute to the educational, social, and economic progress of external communities, especially those in Washington. Such activities, in addition to providing benefit to external communities, provide a rich array of opportunities for engaged learning and research.

Public Service and Community Engagement objectives:

Enhance the commitment and the level of cooperation between the university and external communities.

Increase participation in university sponsored life-long learning opportunities.

Enhance the efforts of members of the university community to strengthen the economic base of the region and state.

Resource Development and Stewardship: CWU will sustain an environment that supports the mission of the university. Like the other four-year public universities in Washington, CWU must rely less on state financial support and more on revenues generated through its core

operations and its auxiliary functions. In order to provide for the human resources, technological tools, and facilities needed to accomplish its mission, CWU must embrace entrepreneurial attitudes and systems. Given the mission, vision, and values embraced by CWU, it is clear that enrollment will play a major role in the financial health of the institution. Additionally, CWU must continue to develop comprehensive unit budgets that forecast revenues and expenses on a four to six year cycles.

Resource Development and Stewardship objectives:

Develop a budget planning system capable of identifying the revenues needed to meet current and projected objectives and workloads at the division and unit levels.

Develop and implement an enrollment management and marketing plan that maximizes revenues while achieving the diversity and instructional goals and unit levels.

Increase the amount of scholarship, operational and endowment gifts from alumni and friends.

Develop a staff planning system capable of identifying the human resources needed currently and project objectives and workloads at the division and unit levels.

Facilities master plan and capital priorities are relevant and sufficient for the curricular, co-curricular and extracurricular needs of the university.

Technology master plan and project priorities are relevant and sufficient for the curricular, co-curricular and extracurricular needs of the university.

# EQUAL OPPORTUNITY POLICIES

CWU's policies and practices affirm and actively promote the rights of all individuals to equal opportunity in education and employment without regard to their race, color, creed, religion, national origin, sex, sexual orientation, gender identity and gender expression, age, marital status, disability, genetic information, or status as protected veterans. The university administers an affirmative action program for employment purposes and complies with applicable federal, state, and local laws, regulations, and executive orders. Policy statements on affirmative action, gender equity, and sexual harassment,

as well as discrimination complaint and resolution policy and procedures located in Appendix A or at www.cwu.edu/~oeo. The person responsible for institutional compliance with most federal and state laws and institutional policies dealing with discrimination is Staci Sleigh-Layman, Office for Equal Opportunity, Bouillon Hall, room 205, 509-963-2205 or oeo@cwu.edu. She also serves as the university's Title IX coordinator. Robert Harden, Center for Disability Services Director and ADA compliance officer, is responsible for compliance with state and federal disability-related laws and institutional policies. He is located in Bouillon Hall, room 205, and can be contacted at 509-963-2171.

# ACCREDITATION AND MEMBERSHIP

The university is accredited by the Northwest Commission on Colleges and Universities (NWCCU). Some programs have been accredited by specialized accrediting associations, including the: The American Chemical Society Committee on Professional Training

The American Council for Construction Education

The American Dietetic Association Commission on Accreditation for Dietetics Education

The Committee on Accreditation of Educational Programs or the EMS-Professions

The National Association of School Psychologists

The National Association of Schools of Music

The National Collegiate Athletic Association

The National Council for Accreditation of Teacher Education

The Technology Accreditation Commission of the Accreditation Board of Engineering and Technology

The US Government Printing Office Federal Depository Library Program

The university holds membership in all of the major international, national, regional, and state academic associations. Contact the Office of the Provost/ Vice President for Academic and Student Life for a complete list call 509-963-1400.

# **Student Success**

The Office of the Dean for Student Success oversees the areas of Student Achievement, Student Development and Student Living as well as serves in an advising capacity to the Associated Students of Central Washington University. The Dean and staff coordinate the work of committees dealing with student personnel policies, student discipline, and student academic grievances.

#### STUDENT ACHIEVEMENT

#### **Academic Achievement Programs**

# **Student Support Services**

Student Support Services (SSS) is a federally funded TRIO program under the auspices of the U.S. Department of Education, as defined by the U.S. Department of Education. SSS provides opportunities for academic development, assists students with basic college requirements, and serves to motivate students toward the successful completion of their post-secondary education. Students who are first generation, low income, or who have a disability are eligible for the program on a spaceavailable basis. The program may also provide grant aid to current, active, SSS participants who are receiving Federal Pell Grants and are of freshman or sophomore status. The goal of SSS is to increase the college retention and graduation rates of its participants and facilitate the process of transition from one level of higher education to the next. SSS is funded 80 percent by a federal grant from the U.S. Department of Education and 20 percent by CWU.

**Bridges:** The mission of the Bridges Project is to encourage middle and high school students, especially those from underrepresented populations, to see college as a real and viable possibility for themselves; to provide co-curricular and enrichment activities for these students; to develop the opportunities for CWU college mentors to give back to the university and greater community through their work in the schools and gain experiences by being a part of a multicultural community.

#### **Academic Advising Center**

The University's Academic Advising Center is located in Bouillon Hall, room 203. The Academic Advising Center staff provides new and continuing students with pre-major and general education advising. This includes information on the general education program, graduation requirements, and transferability of credits, interpreting Central Academic Progress System (CAPS) reports, and assisting students who are in academic difficulty. The center also offers special program advisors, advising seminars, college success classes, and advising publications.

The Academic Advising Center manages UNIV 101, a required course for entering freshmen that assists students with learning about the university's policies and procedures, selecting a major, advising for general education, and other forms of support. For more

information visit the Academic Advising website at www.cwu.edu/~acadadv/.

The Academic Advising Center also provides services for the Westside centers, with staff located at the Des Moines and Lynnwood campuses. Advisors at these locations provide general advising for all students. Services include general education evaluation, transferability of previous course work, and CAPS interpretation. Westside advisors also offer pre-major and major advising for students in the College of Business.

#### **Career Services**

Career Services is a comprehensive career counseling and resource center designed to engage students as active participants in their career development from freshman year through alumni status. The central purpose of Career Services is to help students prepare for academic and career success. The office strives to serve the needs of individuals through these career-related classes, programs and events.

UNIV 103: For those who are not certain which major or career path is right for them, Career Services offers a two-credit course, Career Exploration, on the Ellensburg campus. It is taught each quarter. One-on-one counseling can achieve similar results over time if a student cannot take the class.

**UNIV 301:** This two-credit Career Management class helps students prepare for the transition from the classroom to the workplace. The focus of the course is on job search skills in pursuit of fulfilling employment.

Job Search Preparation: Career events are offered throughout the year to bring together CWU students and organizations that are seeking well-trained interns and graduates. On-campus interviews take place in Bouillon Hall, room 206, between students and a variety of businesses, government agencies, non-profit organizations, school districts, and the military.

Career Counseling: Career counselors help students make major and career decisions through online assessments and determining skills, strengths, values, and interests. To prepare for selecting a major, internship and career opportunities in the US and abroad, career counselors provide information on careers developing strong resumes CV's and cover letters, practicing effective interviewing skills, learning successful internship and career job search strategies, including how to negotiate salary. Focus is on designing your future and becoming a professional. Alumni experiencing career transitions are also welcome to meet with a career counselor.

Wildcat Career Network's: Students and alumni seeking assistance with Career Services are strongly encouraged to open an account on the job search engine at www.cwu.edu/career. Registration opens up the database of job and internship opportunities, and enables students to sign up for on-campus interviews and career events. There is no fee for this service. Counselors are available

from 8 a.m. to 5 p.m. in 206 Bouillon Hall in Ellensburg, and at CWU-Lynnwood and CWU-Des Moines Centers.

Cooperative Education/Internships: Cooperative Education offers assistance to students wanting to earn credits for professional work experience while they are in school. Many departments require an internship as part of the major; others accept a limited number of hours toward graduation. An internship is an opportunity to combine career, social, and personal growth with the educational process. The student works with their department advisor and the Career Services Co-op office in 206 Bouillon Hall to prepare for the process that leads to a successful, credit-bearing academic/ work experience.

Career Fairs and Events: The department organizes career fairs throughout the year as an opportunity to network with employers, learn dining etiquette, interview with businesses, meet with faculty for major selection, review graduate school opportunities, and more. Check information on career fairs, workshops and events on www.cwu.edu/~career.

Educational Placement Files: Education majors are required to open a confidential or non-confidential file with our department to assist in the job-search process. Please come into the department or check www.cwu.edu/ career for placement file details.

Graduate School Preparation: Career Services assists students with the graduate school application process, including refining the CV or resume, providing feedback on the Statement of Purpose, taking the GRE, the graduate school interview, and seeking references.

### **Educational Outreach Services**

#### College Assistance Migrant Program (CAMP)

The College Assistance Migrant Program (CAMP) provides financial and academic support services to freshman students from migrant and seasonal farm-working backgrounds. It is funded by a grant from the Department of Education, Office of Migrant Education. CAMP is designed to help students succeed as they begin their college careers by recruiting and assisting them through the CWU admissions process, and by providing them support during their freshman year. Eligible students receive a variety of services including scholarships, stipends, tutoring, study skills training, mentoring, career planning services, and cultural enrichment opportunities.

To qualify for the CAMP program the student must meet the following requirements:

Be a U.S. citizen, permanent resident, or eligible noncitizen

Have freshman standing (fewer than 44 quarter credits)

Meet criteria to determine migrant or seasonal farmworker status:

Parent (or student, if independent) has worked for at least 75 days in the last 24 months in farm-work such as production of crops, dairy products, poultry, livestock, tree harvesting, or fish farming. Farm-work must be

- primary form of employment and be performed on a temporary or seasonal basis
- OR student has participated in the Chapter 1 Migrant Education Program

OR student or parent qualifies for the WIA167 program

To apply for the CAMP Program call 509-963-1729 (toll free 866-298-4968 x1729) or download an application off the website at www.cwu.edu/~camp.

# **Educational Opportunity Center**

Deciding where to go to college, figuring out how to pay for it, and completing all the necessary forms is complicated. The Educational Opportunity Center (EOC) is set up to help students gather the necessary information to make good decisions about their future educational plans and think clearly through the available options. EOC is available, principally, to help low-income adults, who are the first in their family to attend college, work through the admission process. For further information, call 509-574-6895 or e-mail at eoc\_program @cwu.edu. The webpage is located at www.cwu.edu/~eoc.

#### High School Equivalency Program (HEP)

The High School Equivalency Program is a federally funded program that provides service to Migrant and Seasonal Farm working populations. The program conducts educational awareness, community outreach and recruitment throughout central Washington. The program recruits 125 program participants annually. All participants receive comprehensive GED preparation. This preparation consists of providing GED instruction, test preparation and tutoring services. In addition, students are provided with career development services and educational and or employment placement assistance.

#### **Learning Commons**

#### **University Math Center**

The University Math Center (UMC) provides academic support in quantitative skills for students in courses across the curriculum. There are two main avenues of support. The UMC staffs and operates three levels of developmental math courses to prepare students for college-level mathematics. Advising for appropriate placement is required through the Academic Advising Center. Individual tutoring is available for these courses.

The UMC's second avenue of support is through the Drop-in Help Lab located in Hertz Hall, room 104. Students are encouraged to use the lab for any course with a quantitative component. Trained peer tutors are on staff to guide students through the process of solving problems. No appointment is necessary—students may either stop by with a specific question or use the lab as a place to do homework alone or with classmates. However, if students would prefer to work one-on-one with a tutor, appointments are also available. Current lab hours, placement information, and answers to frequently asked questions about the UMC's services are available at www.cwu.edu/~mathcenter.

# **University Writing Center**

Trained peer consultants work with students of all levels and disciplines, guiding them toward written

communication that will be effective in a global and diverse environment, during and after their studies at CWU. Consultants meet one-on-one with students in the center and reach out throughout the university. Consultants lead interactive workshops with small and large groups of students, tailored to the needs of each course; for example, they may discuss thesis development, research, elements of argument, organization, punctuation, citation, or peer review. The center's services are free and available both in-person and on-line, at the main campus and the University Centers. In Ellensburg, one-on-one consultations are available six days a week, in Hertz Hall, room 103, and the library's Fishbowl. It is highly recommended that students schedule appointments. Live, interactive online consultations via Skype are available by appointment, for students of all campuses. For more information, go to the website, www.cwu.edu/~writingcenter, or call 509-963-1270.

#### **Tutoring and Supplemental Instruction**

Tutoring and Supplemental Instruction information can be accessed in Hertz 102. Supplemental Instruction options are available for a wide variety of classes.

#### Student Transitions and Academic Resources (STAR)

Student Transitions and Academic Resources is an intensive academic support program that assists academically-at-risk students in completing transitions into, through, and out of the university, developing academic study skills and responsibility for learning, and achieving their educational goals. Students served by STAR are conditionally-admitted to CWU, their admission contingent upon their participation in the program and compliance with program policies. To promote the academic success, retention, and graduation of its students, the STAR program provides intensive, individualized academic advising, personal, career, and financial aid counseling, tutoring, peer mentoring, advocacy, and conflict resolution coaching, as well as appropriate referrals for students needing further assistance in resolving concerns and achieving their academic goals.

# Washington Trio Expansion Program (WaTEP)

Washington TRIO Expansion program is funded by the state of Washington and is designed to serve 250 TRIO-eligible students each year. Students must be first generation, low income, and/or students with disabilities, who are not otherwise served in a regular Student Support Services program. Students will have access to services such as those found in the SSS program with the ultimate goal to help retain and graduate them from the university.

# **Testing Services**

CWU Testing Services provides support to CWU students, faculty, and staff, as well as the central Washington community. Information, including a list of exams and dates, is available from its offices in Bouillon Hall, room 125, at www.cwu.edu/~testing, or by phoning 509-963-1847. CWU Testing Services administers over 25 exams and is a ETS/ Prometric test center.

#### Exams offered include:

- Placement into CWU courses or programs (COMPASS and the Communication test)
- College Level Examination Program (CLEP) tests for challenging certain courses
- English proficiency tests for non-native speakers, e.g., Test of English as a Foreign Language (TOEFL), and Test of English for International Communication (TOEIC)
- Various certification and professional development exams including CASTLE, KRYTERION, Pan and Microsoft.
- Tests for other topics including the General Education Development (GED), Graduate Record Examination (GRE), Medical College Admissions Test (MCAT), Law School Admission Test (LSAT), etc.

# STUDENT DEVELOPMENT

#### Campus Life

The Department of Campus Life is dedicated to enriching students' experiences outside the classroom by providing social, cultural, recreational, and educational programs, services, and apprenticeships. Campus Life is comprised of the functional areas including Campus Activities, Campus Life Administration, and Campus Life Publicity Center, KCWU 88.1 the 'Burg Radio Station, SURC Custodial & Maintenance, Student Union Operations & Scheduling, and University Recreation. Campus Life representatives serve on organizing committees for campus events such as Discover! New Student Orientation, Wildcat Welcome Weekend, and Homecoming. Campus Life employs 200-plus students each year in paraprofessional positions, offers internships and practicum experiences, and provides a range of services for university departments, student organizations, and the community.

Campus Activities offers a variety of events including music, comedy, speakers, concerts, performances, and special events such as Homecoming, Family Weekend, Boo Central, Ware Fair, and Student Appreciation Day. They also offer a variety of development opportunities through the university's clubs and organizations.

KCWU 88.1 the 'Burg Radio Station seeks to educate, inform, and entertain the public while teaching students lifelong communication, public speaking, accountability, teamwork, and leadership skills. We seek to develop and present programming that represents a full spectrum of world culture, ethnicity, art, and expression.

The Publicity Center provides comprehensive design, marketing/ media, and web service to the Department of Campus Life and the division of Student Affairs, with particular emphasis on Services & Activities fee-funded areas.

**Student Union Operations** provides seamless, quality services through centralized scheduling, event coordination, and technical support of university facilities or all university and non-university events.

University Recreation is committed to offering recreation programs that provide personal and professional development for a diverse university

community. Our nationally recognized facilities and services support the university mission by promoting an inclusive campus environment. Our programs contribute to the wholeness and wellness of our patrons while providing co-curricular activities that complement other avenues of learning and aid individuals in achieving balance and well roundedness. Through excellent customer service and care for the individual, University Recreation seeks to provide a sense of belonging that enhances retention for students, faculty, and staff.

Westside Student Activities & Programs supports student activities and programs which include leadership training and staff development, clubs and organization advisement, special programs implementation for events such as parents' weekend, homecoming, wildcat (new student) week, multicultural and nontraditional student programs and advertising, promotion and publications of student activities events and programs. They also offer a variety of development opportunities through the university's clubs and organizations.

# Associated Students of CWU (ASCWU)

The Associated Students of Central Washington University (ASCWU) board of directors (BOD) is the student government board elected by the CWU student body to serve as policy-development officers. Executive responsibility is vested in the seven-member ASCWU-BOD with the senior director of Campus Life serving as the primary advisor. As a vehicle from which students may share different views, the ASCWU is an integral part of the shared governance of CWU. The ASCWU-BOD recognizes and approves student clubs, student organizations, and student appointments to committees in order to serve and represent a variety of student needs and interest areas.

# Student Union and Recreation Center (SURC)

The SURC is the community center of the university, providing services, conveniences, and amenities for all members of the CWU community and their guests. The Student Union portion of the SURC houses the following offices and departments: ASCWU-BOD student government, Campus Life administration and Club Accounting, Campus Activities, David Wain Coon Center for Excellence in Leadership, Center for Student Empowerment, Don & Verna Duncan Civic Engagement Center, Connection Card, Dining Services Marketplace, Holmes Dining Room, Diversity Education Center, Information Center, KCWU 88.1 the 'burg radio station, Publicity Center, SURC Operations and Scheduling Services, SURC Box Office, Wildcat Shop, Wildcat Wellness Center, and a U.S. Bank branch. Facilities available for reserved use include a variety of meeting rooms, the SURC pit, a 345-seat theater, a ballroom which can accommodate up to 1,000 people, and all the necessary equipment and technology to support a quality program or meeting.

The Recreation Center portion of the SURC houses University Recreation which includes administrative support for intramural sports, collegiate sport clubs, personal training, group fitness, Outdoor Pursuits & Rentals, climbing wall, challenge course, and summer kids camp. Use of the Recreation Center requires the payment of a quarterly membership fee. Students enrolled in six or more credits on the Ellensburg campus are automatically assessed the quarterly Recreation Center membership fee. Students taking fewer than six credits, or CWU staff and faculty members have the opportunity to purchase a membership in person at the Recreation Center.

#### **University Recreation**

University Recreation is committed to offering recreation programs that provide personal and professional development for a diverse university community. Our nationally recognized facilities and services support the university mission by promoting an inclusive campus environment. Our programs contribute to the wholeness and wellness of our patrons while providing co-curricular activities that complement other avenues of learning and aid individuals in achieving balance and well roundedness. Through excellent customer service and care for the individual, University Recreation seeks to provide a sense of belonging that enhances retention for students, faculty, and staff. Programs include intramural sports, collegiate sport clubs, personal training, group fitness, outdoor pursuits and rentals, climbing wall, challenge course, summer kids camp, recreation center operations, and a myriad of special events including films, lectures, interactive programs, and instructional courses.

Intramural Sports (IM Sports) offers more than 20 different leagues per quarter ranging from the traditional, such as basketball, flag football, softball, and soccer to the non-traditional such as dodge ball, indoor Nerf football, and table tennis. Sports are offered in different ability levels (competitive or recreational) as well as different gender divisions (coed or open), for participation by a range of players. Students, staff, and faculty are eligible to participate in intramural programs.

Collegiate Sport Clubs allow opportunities for students, with mutual interests in a sporting activity, to represent CWU in intercollegiate competitive activities that are not available through the Department of Athletics. Each sport club is initiated, maintained, and managed by student members. Although the program is partially funded by student activity fees, fund-raising is an essential element of every club.

**Personal training** packages are available to all recreation center members. For a nominal charge, a personal trainer will develop a challenging workout routine specifically designed to meet an individual's fitness goals.

**Group fitness** classes are available to all recreation center members for a very small fee. From spinning to ballet, intense abdominal workouts to yoga, there's something for everyone.

**Outdoor Pursuits and Rentals** provides both guided trips and equipment rentals to support students' outdoor recreation desires. The fully staffed, 50-foot climbing wall in the Recreation Center offers bouldering and roped climbing, and certification courses in top-rope belay and lead climbing.

Challenge Course programming offers the opportunity to participate in team building activities to accomplish individual and group goals on both low-ropes elements and a state-of-the-art high challenge course. Our staff will provide everything your group needs to successfully participate in the challenge course experience, including equipment and instruction, as well as a preevent meeting to determine your group's specific needs.

**Camp C-Woo** provides a quality day camp atmosphere for Ellensburg-area youth entering grades 1-5.

Students enrolled in 6 or more credits on the Ellensburg campus are automatically assessed the quarterly Recreation Center membership fee. Students taking fewer than 6 credits, and CWU staff and faculty members have the opportunity to purchase a membership in person at the Recreation Center.

## Center for Leadership and Community Engagement

#### David Wain Coon Center for Excellence in Leadership

The David Wain Coon Center for Excellence in Leadership (CEL) provides leadership learning opportunities to all CWU students. Training opportunities include leadership retreats, workshops, conferences, and a broad collection of resources.

Over 2,000 students participate in CEL programs each year. Current leadership programs include the Experience Leadership Project (a three-day retreat for first-year students), Cross-cultural Leadership Program, Leadership Quest (mini-retreats for all CWU students), the annual Leadership Conference, and the annual Winter Quarter Leadership Challenge. Students can also choose to live in the Kennedy Leadership House, join Omicron Delta Kappa (the national leadership honor society), and build their official CWU Leadership Transcript.

In addition to leadership programs and workshops, the CEL collaborates with faculty from multiple departments to offer leadership courses. Currently, the Emerging Leaders course and Cross-Cultural Leadership program are credit-bearing opportunities. Additional leadership courses are currently being developed and proposed. The David Wain Coon Center for Excellence in Leadership recognizes that every student has leadership capacity and will have ample opportunities to demonstrate leadership throughout their lifetime. Through CEL programs, workshops, and resources, CWU students are equipped to make a positive difference within their communities. For more information, please contact CEL by phone at 509-963-1524 or via e-mail at cel@cwu.edu.

# Don and Verna Duncan Civic Engagement Center

Taking action, it's how you improve the world and yourself at the same time. The Don and Verna Duncan Civic Engagement Center (CEC) provides professional, major-oriented experiences through community service initiatives. From short-term volunteering to intense capstone service programs, the CEC encourages individuals to use their discipline-specific knowledge in order to address community-based social, political, environmental, and economic justice issues. Join the CEC

in supporting important issues while building your resume and your competencies in the process. To discover what opportunities are currently available, visit www.takeactioncwu.com or stop by room 256B in the SURC.

#### **Student Medical and Counseling Clinic**

A staff of licensed and credentialed professionals provides medical and mental health counseling services for CWU students. The Clinic provides integrated health services and the staff of the Clinic collaborate in providing healthcare to the student. The Department of Student Health and Counseling Services strives to provide students with comprehensive out-patient ambulatory medical, counseling, and prevention services through a positive, proactive, cost-effective, accessible, and quality driven delivery system. Additionally, the two service area centers provide information and referral resources for students, faculty, staff, and parents. The Centers' staff is available for outreach programs, peer education, psychologist internship supervision, and other climate enhancing endeavors that promote the respective missions of the Division of Student Affairs and Enrollment Management and the University as a whole.

#### Veteran Services and Outreach

The Veterans Center is located in the Bouillon Hall, room 206N. Students wishing to receive education benefits from the Department of Veterans Affairs (DVA) must contact the Veterans Center office. Notification is NOT automatically sent to the DVA when a veteran or other eligible person enrolls. For more information, call 509-963-3028 or visit the website at www.cwu.edu/veterans. The Veterans Center provides information and guidance to veterans, dependents, and others regarding questions on Veterans GI Bill Education Benefits. It also provides information on veterans in foreign conflict grants and tuition waivers including police, firefighters, veteran survivors and dependents. Selected programs of study are approved by a Washington State Approving Agency for enrollment of those eligible for benefits under the Title 38 and Title 10 U.S. codes.

### STUDENT LIVING

#### **University Housing and New Student Programs**

University Housing provides well-maintained housing facilities, with an emphasis on student development, as part of the university's academic environment, and works to augment classroom instruction with a learning environment that is supportive of students' educational goals, personal and interpersonal growth, and cultural awareness. Programs such as Discover! New Student Orientation, Wildcat Welcome Weekend, and Wildcat Connections First Six Weeks are part of new student programs. In addition, First Year Experience (FYE) programs are coordinated and promoted through University Housing and New Student Programs.

CWU is a residential university with most students living on or near campus. The residence halls and apartments can house 3,300 students. CWU's residence halls offer students a variety of quality living experiences and options.

The residences are within a few minutes' walk of any classroom, library, or dining hall, which offers considerable convenience and flexibility to students. Residence hall staff provides crisis intervention and educational, cultural, social, and community services programs, as well as coordinating behavioral problem-solving interventions in cooperation with the Dean of Student Success.

The residence halls offer a diverse selection of communities and environments. The residence halls, which house between 35 and 476 occupants, offer programs and environments to enhance classroom experiences. Furniture, basic FM-TV cable service, Internet hookup, basic telephone service, utilities, and coinoperated laundry facilities are also provided. Many halls have their own pool table, piano, or ping-pong table. All residence halls are smoke-free.

Living and Learning Communities (LLCs) are available for students interested in the following areas: education, Science Talent Enhancement Program, aviation, music, Casa Latina, Asian Pacific Islander American House, Students for the Dream, International House, Leadership House, or for those participating in the Douglas Honors College. Students may request a residence hall offering a living-learning enrichment opportunity. Hall staff and faculty from these areas of interest collaborate to provide residents with educational and social activities that integrate their field of study, enhancing their residence hall experience.

Since college is a total learning experience, Central requires all freshmen who are single and under 20 years-of-age to live in the residence halls for one academic year. Running Start students under 20 years-of-age, regardless of class standing, must also fulfill the live-in requirement. Students requesting an exception to the policy must apply through University Housing and New Student Programs.

CWU also maintains 398 apartments (studio, one, two or three bedrooms) designed for single students and those with families. The apartment complexes offer activities for residents that focus on their needs and priorities. Single student complexes feature programs and facilities that assist students in developing healthy, independent lifestyles. These programs might include wellness, self-defense, cultural awareness, lifestyle planning, career planning, and recreation. The communities in the family student complexes enjoy programming and activities tailored for the needs and interest of families and older students. Many activities for children and families are presented, such as holiday events, child safety awareness programs, domestic violence programs, and career planning.

At different times of the year, demands for apartments may exceed availability. For this reason, waiting lists are provided. Applications are accepted from students who have not been officially accepted for admission to CWU, but who plan to attend classes during the dates listed on their application forms. To be eligible for apartment housing, a student must be currently enrolled in and must maintain at least 12 credit hours of coursework.

Students who are required to live in residence halls are not eligible to live in the apartments. Each tenant is required to sign a lease, which provides for renting an apartment on a month-to-month basis. Written notice must be given at least 30 days prior to vacating an apartment. Pets are not allowed in any area of CWU housing. Central Washington University does abide by all state and federal laws pertaining to service animals in on campus housing.

Discover! New Student Orientation: New students with less than 45 credits, and all students who participated in Running Start, are required to attend an on-campus orientation and registration program. For students starting fall quarter, this program takes place on a variety of dates in July. For winter quarter students it is held in December and for spring quarter students it is scheduled in March. New Ellensburg campus students with 45 or more credits are urged to attend the transfer orientation. Orientation for transfer students coming fall quarter are held in July or August. For those students coming for winter or spring quarter, the orientations are held in December and March, respectively. Students attending a campus other than Ellensburg need to contact the appropriate university center for information about their orientation and registration programs.

Central changed its procedure for student alcohol violations involving underage drinking, which is a violation of Washington State law as well as the CWU Student Conduct Code governing the conduct of students. The university has a comprehensive alcohol education and prevention program. Parental notification is one part of CWU's comprehensive sanctioning procedure for underage alcohol use. CWU supports all local, state and federal laws pertaining to controlled substances and as such, cannabis is not allowed on any CWU premise.

#### **Wildcat Wellness Center**

The Wildcat Wellness Center is located in SURC 139. Services and programs delivered through the center include: alcohol/drug education, prevention and referrals for assessment and treatment, Prime for Life classes, webbased alcohol and drug curriculum, peer education programs, sexual assault prevention and response coordination, and programs that promote positive health behavior and risk reduction behaviors.

# **Sexual Assault Response Coordinator**

Students may call 509-963-3233 and leave a confidential message and/ or drop by the Wellness Center at SURC 139. Services include confidential, referral, advocacy, information and crisis response for victims, survivors, and significant others.

There is also a peer education program sponsored by the Wellness Center and advised by the Wellness Center's health educator. It can be reached by phoning 509-963-3213. For additional information please visit www.cwu.edu/~wellness.

# **Student Medical and Counseling Clinic**

Students registered for 6 or more credits pay a mandatory health and counseling fee (5 or more credits for summer session) and are thereby eligible for services.

There are ancillary charges for some medical services (e.g., labs, x-rays, etc.). All students are encouraged to check with the clinic business office regarding ancillary fees and charges for medical services. There are no added charges for counseling services.

Services are offered at the Medical and Counseling Clinic building (southeast corner of the campus). The clinic hours are 8 a.m. to 5 p.m. Monday through Friday. Summer hours are 8 a.m. to noon and 1 p.m. to 3 p.m. when classes are in session. The Clinic is closed on weekends, holidays and during academic breaks. When the Clinic is not open, emergency medical services are available at Kittitas Valley Community Hospital. The cost of hospital care is at the student's expense. A student accident and health insurance plan is available (through an independent vendor) and is recommended to help defray medical costs.

Appointments are taken by phone from Monday through Friday 7:30 a.m. to 5:00 p.m. Students are encouraged to call for appointments as early in the day as possible in order to accommodate their schedules.

The Student Medical Clinic (509-963-1881) is a complete out-patient/ primary-care, on-campus facility available to registered students that have paid the medical and counseling fee. The medical clinic is accredited by the Accreditation Association for Ambulatory Health Care.

The medical staff provides routine and urgent-care services, including care for medical problems such as illnesses, injuries, and infections (e.g., colds, flu, and sexually transmitted diseases). It offers customary primary care services including routine physical examinations, sports physicals, travel exams and counseling, women's health services (e.g., pap smears, pregnancy testing, reproductive counseling), and diagnostic laboratory tests/ X-rays. In keeping with the educational mission of the university, emphasis is placed on education regarding the prevention and treatment of illnesses.

The Counseling Clinic (509-963-1391) operates on the basis of a brief treatment model. Counseling services include individual, couple, and group counseling. Common student issues include transitional/ adjustment strain, relationship difficulties, eating disorders, stress, anxiety, and/ or depression. Group counseling opportunities routinely include coping with anxiety, therapeutic lifestyle change for depression, bipolar support, personal growth, and relationship difficulties. Special programs for campus groups are available upon request (e.g., education and outreach). Counseling services are private and confidential.

# Early Childhood Learning Center

The Early Childhood Learning Center (ECLC) provides early learning to the campus community serving children aged one-month to eight-years of age. There are two sites; 1900 Brook Lane Village, Suite 100, serves children aged two years to eight years of age; Michaelsen Hall, room 109, serves children aged one month to 28 months. The program consists of early learning activities especially designed for young children; including music, language, physical activities, stories, science and math

experiences, games, puzzles, blocks, and dramatic play. Nutritious meals and snacks are served throughout the day. Operating hours during the academic year are 7:15 a.m. to 5:30 p.m., Monday through Friday. Summer hours vary slightly according to need. Call 509-963-1744 or email at eclc@cwu.edu for more information.

# Office of Student Rights and Responsibilities

The Office of Student Rights and Responsibilities has responsibility for assisting students understanding university policies and procedures that support them. In addition, the Office of Student Rights and Responsibilities is responsible for holding students accountable to the student conduct code and taking reports that include behaviors of concerns by other members of the University Community. This office is located in Bouillon 204.

# **CWU Life**

#### **Dining Services**

All students living in CWU residence halls are required to select a meal plan. There are five to choose from, and all are set up as a prepaid dining debit account, which allows for purchase of meals or snacks at any campus dining location. Students living off-campus may also purchase a meal plan for the convenience of dining and buying beverages and snacks on campus.

Dining Services' staff is dedicated to your dining satisfaction. Its mission is to provide exceptional food service and customer service to the campus community. This is evident in fresh, appetizing, and nutritionally balanced menus along with the hospitality offered at each of its distinctly different dining locations on campus. These include:

- Central Market Place, located in the SURC, offers a la carte service in six restaurants: Taglianno's Pizza and Pasta, Totally Tossed Salads, Lion's Rock Broiler, El Gato Loco, Pan Asia, and Wrap and Roll Deli Bar
- Holmes Dining Room, located in the SURC, offers an all-you-can-eat service for brunch/lunch and dinner
- North Village Café, located in Green Hall on the north side of campus, offers a la carte service for meals and snacks throughout the day
- Wellington's, a casual waited service open for lunch on the south side of campus in Tunstall Hall. It offers organic options and supports local growers.

You may also use your meal plan at any of CWU Dining Services' espresso bars or convenience stores:

- Backstage Coffee House located on the second floor of the Milo Smith Tower Theatre
- Cat Trax East Espresso and Smoothie Bar, Cat Trax West Espresso, and Cat's Convenience Store in the SURC
- Coach's Coffee House in the Wendel Hill Hall

NVC Espresso Bar and NVC Store in the North Village Café and Store

Dining services are available on campus for breakfast, lunch, dinner, late-night meal service on weekdays, and for brunch and dinner on weekends.

If you have questions about the dining options available at CWU Dining Services, call 509-963-1591, or contact us via its web page at www.cwu.edu/~dining. Dining also has a Facebook page and can be found on Twitter.

#### **Nutritious Foundations**

Dining Services offers nutritious menu selections, based on the U.S. Department of Agriculture's food pyramid, to support your healthy lifestyle. You're encouraged to adopt a diet rich in balance, variety, and moderation by exploring the nutrition foundation that Dining Services provides in all dining arenas.

#### **Special Events**

Several special dining events are offered quarterly to enrich your dining experience. Some of these events include the Octoberfest, a holiday season buffet, a seafood buffet extravaganza, theme and ethnic dinners, Cinco De Mayo, the Student Appreciation BBQ, and the commencement luncheon.

#### **Employment Opportunities**

Dining Services is the largest employer on campus, hiring between 250-350 students annually for part-time work. Consider joining the team where you will meet new friends and earn money.

Dining Services is a member of the National Association of College and University Food Services, and an active supporter of the academic mission of the university through participation in many out-of-classroom events and activities held throughout campus.

### **Honor Societies**

Central Washington University maintains memberships in several national honor society chapters. Here is a list of those memberships.

Alpha Epsilon Rho: This is the national honor society for broadcasting. Founded in 1943 for the purpose of emphasizing superior scholarship and creative participation in telecommunication production and activity, it prepares its members for roles as responsible telecommunicators. Membership in Alpha Epsilon Rho is open to undergraduate and graduate students who are making electronic media studies one of their major academic interests and who meet high standards of scholarship.

Alpha Eta Rho: (AHP) This International Professional Collegiate Aviation fraternity acts as a bridge between aviation colleges and the aviation industry. AHP was established in 1929 by Earl W. Hill, an aviation instructor at the University of Southern California and, with help from students and faculty, was founded on April 10, 1929. It is the oldest professional aviation fraternity in history. AHP members serve the aviation industry in fields such as: Aviation Captains, NASA Engineers, Flight

Attendants, Aircraft Mechanics, Aerospace Engineers, Corporate Pilots, and many more.

Alpha Kappa Delta: This is an international sociology honor society. Founded in 1920 and an accredited member of the Association of College Honor Societies, Alpha Kappa Delta is a non-secret, democratic, international society of scholars dedicated to the philosophy of Athropon Katamanthanein Diakonesein or "to investigate humanity for the purpose of service." AKD seeks to acknowledge and promote excellence in scholarship in the study of sociology, the research of social problems, and such other social and intellectual activities that will lead to the improvement of the human condition.

Alpha Phi Sigma: This is the nationally recognized honor society for students in the criminal justice sciences. The society recognizes academic excellence by undergraduates as well as graduate students of criminal justice. The honor society is open to students who have a declared law and justice major or minor, who maintain a minimum of 3.0 overall GPA on a 4.0 scale, and a 3.2 GPA, on a 4.0 scale, in law and justice courses. The student must also rank in the top 35 percent of their classes and have completed a minimum of four courses within the law and justice curriculum.

Alpha Sigma Lambda: This national honor society, established in 1946, provides the opportunity to recognize the special achievements of adult students. Alpha Sigma Lambda acknowledges adult students who accomplish academic excellence while facing competing interests of family, work, and community. Members must have earned a minimum GPA of 3.5 on a 4.0 scale. The CWU chapter of ASL is Psi Delta Omega and is advised by the Center for Student Empowerment. Invitations to join Psi Delta Omega are sent out at the beginning of each academic year, and induction ceremonies are held both at the Ellensburg campus and at one of the Puget Soundarea centers.

Delta Pi Epsilon: This is a post-baccalaureate honor society for business educators. Its objectives are to improve business education through research, recognize exceptional research achievements, and publicize research in business education. Membership is open to business educators who meet scholastic criteria and exhibit a commitment to research in business education.

Eta Sigma Gamma: Since its inception in 1967, Eta Sigma Gamma, the National Health Education Honorary, has had a rich history of contributions to the profession of health education and health promotion. It was through the commitment of a group of dedicated professors and students at Ball State University that the first chapter of the honorary was established. Today, there are over 80 chapters representing thousands of students in colleges and universities around the United States.

Eta Zeta: This is the Department of Geological Science's chapter in the Earth Sciences national honor society, Sigma Gamma Epsilon. The purpose of the honor society is to recognize exceptional scholarship and professionalism among our geological science majors, and to foster student scholastic, scientific, and professional advancement. To become a member, a student must have

completed at least 15 quarter hours in Earth Sciences courses, have a minimum 3.0 GPA in Earth Sciences courses, and have a minimum GPA of 2.67 in all university courses.

Kappa Delta Pi: The honor society in education, Kappa Delta Pi, encourages high professional, intellectual, and personal standards, and recognizes and honors outstanding achievement in the study of education. Membership is open to undergraduate students, graduate students, and faculty by invitation. New members are inducted quarterly.

Lambda Alpha: The Lambda Alpha National Collegiate Honors Society for Anthropology was founded on March 15, 1968 at Wichita State University in Kansas. To date there are over 170 chapters nationwide. Lambda Alpha (derived from the Greek Logos Anthropou, meaning "the Study of Man") was established for the purpose of encouraging and stimulating scholarship and research among students, faculty and others engaged in the study of anthropology. Lambda Alpha provides scholarships opportunities to student members (undergraduate and graduate).

Lambda Pi Eta: This is the national honorary society for undergraduates in communication. As an accredited member of the Association of College Honor Societies (ACHS), Lambda Pi Eta (LPH) has an active chapter at CWU's Department of Communication. LPH represents what Aristotle described in The Rhetoric as three ingredients of persuasion: logos (lambda) meaning logic, pathos (pi) relating to emotion and ethos (eta) defined as character credibility and ethics. Lambda Pi Eta recognizes, fosters, and rewards outstanding scholastic achievement while stimulating interest in the communication discipline.

Omicron Delta Kappa: The only National Leadership Honor Society was founded in 1914. Membership is based on exemplary character, responsible leadership and service in campus or community life, superior scholarship, genuine fellowship, and consecration to democratic ideals. Membership in Omicron Delta Kappa is awarded to undergraduate junior and senior students, to students of graduate and professional schools and colleges of the institution, to members of the faculty and administration, and to alumni. Election to membership is on the basis of merit, is irrespective of a person's affiliation with other organizations, and is without solicitation or propaganda, such as rushing or social pressure, to insure acceptance of the invitation to membership. Membership is as much an obligation and responsibility in citizenship as it is a mark of highest distinction and honor.

Omicron Gamma: This is the CWU chapter of Beta Beta Beta (TriBeta). The TriBeta is a society for students, particularly undergraduates, dedicated to improving the understanding and appreciation of biological study and extending boundaries of human knowledge through scientific research. Since its founding in 1922, more than 200,000 persons have been accepted into lifetime membership, and more than 553 chapters have been established throughout the United States and Puerto Rico.

Pi Sigma Alpha: (Mu Lambda chapter) This is CWU's honor society for students of political science. This is a national honorary, first organized in 1920, with more than 300 chapters throughout the country. Membership is based upon scholastic achievement and a genuine interest in the understanding of politics and political issues.

Phi Kappa Phi: The national honor society of Phi Kappa Phi recognizes and encourages superior scholarship in all academic disciplines. Membership is open to undergraduate students, graduate students, and faculty members by invitation, with election based on superior scholarship. New members are inducted each spring.

Phi Sigma Tau: This is the international honor society in philosophy. Its purpose is to recognize and encourage excellence in philosophic scholarship among students and faculty. Central's local chapter (Washington Alpha) meets periodically to discuss philosophic issues. Membership is based on scholastic attainments.

Psi Chi: This is the national honor society in psychology, founded in 1929 for the purpose of encouraging, stimulating, and maintaining scholarship in, and advancing the science of, psychology. Membership is open to graduates and undergraduates who are making the study of psychology one of their major interests and who meet the minimum qualifications. Psi Chi is an affiliate of the American Psychological Association and a member of the Association of College Honor Societies.

Sigma Lambda Chi: The fundamental purpose of Sigma Lambda Chi is to provide recognition to outstanding students in construction curricula. Sigma Lambda Chi is the society that offers students the opportunity to be recognized locally and internationally for their academic accomplishments as a construction major.

Sigma Pi Sigma: This is the national physics honor society. It was founded in 1921 and now has over 400 chapters nationwide. It is a member of the Association of College Honor Societies and is affiliated with the American Institute of Physics and with the American Association for the Advancement of Science. Membership is open to undergraduate and graduate students and faculty members. Students elected to membership must maintain high standards of general scholarship and outstanding achievement in physics. Besides providing an incentive for all physics students to rise to excellence, the society also encourages physics interest and science literacy in the general public.

Tau Iota: This is Central's chapter of Phi Alpha Theta, the international honor society in history. Membership is composed of students and professors who have been elected upon the basis of excellence in the study and writing of history. The society's objective is the promotion of the study of history by the encouragement of research, good teaching, publication, and the exchange of learning and thought among historians.

Theta Alpha Kappa: This is the national honor society for religious studies. Central Washington University was granted a Theta Alpha Kappa charter in 2007. Its overall purpose is to provide local and national recognition to students with high scholarship and an academic interest

in the field of religious studies. It also, promotes student interest in research and advanced study in the field, provides opportunities for the publication of student research papers of merit through the Journal of Theta Alpha Kappa, encourages a professional spirit and friendship among those who have demonstrated an aptitude for excellence within the field, and popularizes interest in religious studies among the general collegiate and local community.

# Wildcat Shop

The Wildcat Shop has everything you need right here on campus and its selling prices on textbooks are lower than 96 percent of all college stores in the country. It carries:

- Textbooks
- General reading and reference books
- Magazines
- Computer software
- Computer hardware
- Electronics
- Clothing and gifts
- School and art supplies
- Greeting cards
- Novelty gifts
- Health and beauty aids
- Stamps
- Snack foods and more

It also provides laminating, binding, copying (color or black and white), mat board cutting, DVD and CD recording, Apple computer repair, and fax services.

Special order any book, computer, or electronic product, or supply, at no additional cost. For your convenience the Wildcat Shop buys back textbooks throughout the quarter. Contact the Wildcat Shop at 509-963-1311, 800-280-1186, or at cwubookstore.collegestoreonline.com.

# **University Services**

### **Archival Services**

The Archives at Central Washington University was established in 2004 to act as the repository for official and unofficial records that document the history of the university. The Archives also serve as a regional repository to house, preserve, and promote the history of Central Washington. It is located on the fourth floor of the James Brooks Library on the Ellensburg campus.

The primary objectives of the archives is to appraise, collect, organize, describe, preserve, and make available university records and regional collections of permanent historical value. It also aims to support research, teaching, and public awareness of the rich heritage of central Washington and the university.

The Archives contain records, photographs, and artifacts produced by CWU or its predecessors: Washington State Normal School at Ellensburg (1891-1937); Central Washington College of Education (1937-1961); and Central Washington State College (1961-1977).

The collection contains documents published by the university as well as materials produced by university administrators, faculty, staff, students, and alumni. The collection includes administrative reports, department and committee records, student publications, photographs, printed records, and the correspondence of former presidents, deans, and other university officials.

The regional manuscript collection, which is part of the Archives, consists of historically significant 19th- and 20th- century personal papers, business and organizational records, photograph collections, and other materials produced in central Washington by individuals, businesses, and organizations that reside, or have resided, in the region. One-of-kind unpublished works from the counties of Benton, Chelan, Douglas, Grant, Kittitas, Klickitat, Okanogan, and Yakima are represented in the collection. The collection includes materials relevant to the history and cultural development of central Washington.

# **Center for Disability Services**

The Center for Disability Services (CDS) facilitates access to university programs, activities and services for students, faculty, staff and visitors with disabilities. Utilizing documentation of disability and information obtained in consultation with the student or employee, CDS staff assesses the effects of a student's disability on his/ her ability to access the educational process and the effects an employee's disability has on his/her ability to perform the essential functions of his/ her job. Based on this assessment, CDS staff identifies academic adjustments and reasonable accommodations designed to ensure these individuals "equal access" to all facets of the University. In addition, CDS works to sensitize the University community to the needs of individuals with disabilities. Reasonable accommodations and academic adjustments are determined for each student or employee on an individual basis. Students or employees wishing to request disability accommodations are responsible for contacting CDS.

Examples of accommodations/ academic adjustments available to CWU students with disabilities include, but are not limited to, textbooks and academic materials in accessible formats (large print, Braille, electronic text), alternative examination procedures, sign language interpreters, speech-to-text transcription, permission to audio-record lectures, note-taking assistance, early registration, priority snow removal routes, special classroom furniture, access technology and temporary disability parking permits.

#### **Center for Spatial Information**

The Center for Spatial Information (CSI) encourages, supports, and coordinates research projects for students and faculty using hardware and software technologies that gather and analyze "spatial" information to solve problems in the social sciences, natural sciences, and business. Geographic Information Systems (GIS), high-precision Global Positioning System (GPS), ground-penetrating radar, precision conventional laser surveying, and satellite image processing are some of the spatial technologies used by CWU faculty and students. Typical GIS applications include projects in resource geography,

archaeology, field biology, geology, and planning. CSI also relies on the Department of Geography's GIS laboratory, where a variety of undergraduate and graduate GIS courses are taught, and numerous large and small research projects are conducted using state-of-theart computing systems.

CSI is also part of the National Consortium for Geospatial Innovations in America (RGIS) program, which is funded by the USDA's National Institute of Food and Agriculture. As part of eight national RGIS centers, the goal of RGIS-PN is to evaluate emerging geospatial technologies and to develop methods to use geospatial data to solve real problems on the ground. These pilot projects are then used as a foundation on which to build educational materials for training appropriate personnel in rural agencies and communities around the Pacific Northwest, and to disseminate information to a broader rural audience via collaborations with other western universities, journal articles, bulletins, conference presentations, and web-based outreach. Where possible, RGIS-PN attempts to incorporate stakeholders and interest groups in GIS-based community and watershed modeling, and subsequent decision-making processes.

CSI encourages creative, interdisciplinary uses of spatial technology, and actively works with the private and government sectors to identify problems to which CWU personnel and equipment can provide effective solutions. CSI's home page is at www.cwu.edu/~csi.

#### **Center for Student Empowerment**

The Center for Student Empowerment, located on the second floor, of the SURC in room 250, offers programs and services that support the overall development of students. It strives to empower students to reach their full potential, both academically and personally, by facilitating various types of learning opportunities that focus on gender, violence prevention, nontraditional students and veterans.

Some examples of educational programs are: Women's History Month, Manuary (men's activities and discussion groups), Women's Achievement Celebration, National Women and Girls Sports Day, Operation E.L.F. (nontraditional student holiday event), and the Nontraditional Student Welcome Back Events.

The Center of Student Empowerment team includes the Early Childhood Learning Center, Family Resource Center, and Student Affairs (Westside Centers). It can be reached at 509-963-2127 or ecenter @cwu.edu. Find us online at www.cwu.edu/diversity.

#### **Central Transit**

A student transportation system in its seventh year of operation, Central Transit has been extremely popular. Highly visible mini-busses operate year round, connecting students with the Ellensburg business community. Central Transit boasts 25 signed pick-up and drop-off locations both on and off campus. Central Transit experienced significant growth with more than 35,000 student rides annually. Students have enjoyed the convenient stops at shopping areas, restaurants, and movie theaters.

Central Transit operates two routes during the academic school year. Summer hours vary, for additional information; hours and a map of the routes please visit the website at www.hopesource.us/routeMap.html.

#### Central Washington Archaeological Survey

The Central Washington Archaeological Survey (CWAS) is a research and public service office that is part of the Department of Anthropology. CWAS conducts archaeological investigations in the central counties of the state and promotes public involvement in the identification and protection of regional archaeological resources. CWAS involves faculty and students in research projects funded through external grants and contracts. CWAS cooperates with state and federal agencies, Native American tribes and nations, professional archaeologists throughout the state, and state and local archaeological societies in the study and preservation of central Washington's archaeological resources.

# **Diversity Education Center**

The CWU Diversity Education Center (DEC) takes pride in its diverse student body and offers events, programs, and space that foster greater cross-cultural understanding, that celebrate diversity and inclusion, and honor individual perspectives. Our signature, thematic, and outreach programs include heritage months, Bias Incident response, Safe Space workshops, and much more. We provide resources to students on a variety of topics including diverse populations, LGBT issues, and social justice issues. All students are invited to participate in the center's activities.

# **Educational Technology Center**

The Educational Technology Center (ETC), located in Black Hall, provides instructional technology services, support, training and curriculum resources to all faculty, staff, and students in the Center for Teaching and Learning (CTL). The ETC library houses various library collections, computers, and a Multimedia Production Lab. The ETC is intended to serve as an exemplary model of educational technology resources and educational curriculum materials for K-12 pre-service and in-service teachers in the state of Washington. Wireless Internet access and computer workstations with printing capabilities are available. For more information call 509-963-3293 or visit the website at www.cwu.edu/~etc.

# Family Resource Center

The Family Resource Center (FRC) serves CWU, Ellensburg, and Kittitas County by utilizing a family perspective to enrich and improve the quality of individual and family life. The FRC offers educational programming to support families throughout their lives, coordinates family related research and civic engagement opportunities, and serves as a clearinghouse of information for resources of interest to families in the region. The FRC can assist students or other members of the community to identify services that can help to meet their family related needs and advocate for the needs of families on campus. The FRC works in close collaboration with the Center for Student Empowerment and the Early Childhood Learning Center, and seeks to partner with academic departments and community agencies to

improve the access to information and knowledge that can strengthen families at CWU and the surrounding community. It is located in Michaelsen Hall, room 328, and can be reached at 509-963-2785. It's also online at www.cwu.edu/~frc.

#### Geographic Information Systems Laboratory

The GIS laboratory supports computer hardware/ software systems for analysis of spatial data (maps, aerial photos, satellite imagery, digital terrain data, etc.). The laboratory provides an excellent teaching and research facility for faculty and students from a variety of fields, including anthropology, archaeology, biology, geography, geology, land-use planning, resource management, and sociology. In addition, the laboratory offers contract and consultation services to public and private agencies for GIS applications. Additional information can be found at www.cwu.edu/ geography.

#### **Information Technology Services**

The Department of Information Technology Services (ITS) provides student computer lab management services, telephone services to the Ellensburg campus and university centers, networking and computer operations and services, maintenance and repair of university-owned computers, coordination of new purchases, desktop support, help desk services, applications development and maintenance, university website maintenance, and media services support in DE classrooms at the Ellensburg campus and at the 6 university centers. ITS staff members work closely with all segments of the university to ensure that information technology is broadly developed, acquired, used, and available to all students, faculty, and staff. ITS information is available on the web at www.cwu.edu/~its and ITS can be contacted at 509-963-2924. The ITS Help Desk can be contacted at 509-963-2001.

Faculty and students have easy access to computers and software in 23 general-purpose and discipline-specific computer labs spread throughout major academic buildings on campus. Every residence hall room is equipped with an Ethernet connection providing Internet services for those students that bring computers to campus. Students, faculty, and staff who reside off campus can access CWU technology resources (i.e. e-mail, file services, etc.) via the Internet.

Wireless access to the CWU network and the Internet is available across the campus and via laptop checkout in the SURC and library. Information on wireless at CWU is online at www.cwu.edu/~wireless.

# James E. Brooks Library

The Brooks Library provides resources and services to stimulate intellectual curiosity and facilitate learning and research within the academic community. The library's personnel are engaged in the creation of materials collections that support the curriculum and the provision of access to those materials. More specifically, these activities include the collection and preservation of materials, user instruction and guidance, information retrieval, analysis and organization, global access to library and information resources, and collaboration with instructional faculty in developing programs, collections, and research.

Students and other library users have 24/7 Web-based access to over 1.3 million books, films, government documents, maps, audio recordings, videos, and DVDs on site in the Brooks Library. Additionally, the library provides similar access to more than 28 million information items from the academic libraries of the Northwest that belong to the Orbis Cascade Alliance. Full-text electronic and/or paper subscriptions to over 15,000 periodicals and academic journals are available electronically or on site.

Library staff is available to provide personal service to students 98.5 hours per week. Group study areas and an open computer lab are available to those who visit the main library in Ellensburg. Students at the Centers have access through a toll-free phone number or e-mail and chat access to reference librarians. Internet connectivity for personal laptops is available on each floor of the library and 55 laptops are available for checkout by students. The libraries staff, services, and collections support the educational efforts of students, foster intellectual, social and ethical development, and assist students in locating, using, and evaluating information to equip them for independent, lifelong learning.

# **Public Safety and Police Services**

Central's Police Agency operates 24 hours University Police and Parking Services (UPPS) provides police service to the Ellensburg, WA campus of CWU. UPPS operates 24 hours per day, 7 days a week, providing commissioned and state certified officers with complete arrest and investigatory authority. The department employs 12 fully commissioned police officers by the state of Washington, two parking enforcement officers, and various clerical support personnel.

UPPS works closely with neighboring law enforcement agencies. "Blue-light" emergency telephones are installed in or adjacent to many parking lots and walking paths throughout the campus. Each phone has an emergency button and a two-way speaker that directly connects to KITTCOM.

UPPS employs students in a program called Courtesy Assistance Team or CAT. CAT provides walking companions from campus buildings to parking lots or residence halls. CAT employees also check doors to buildings and walk through buildings that are open.

Throughout the school year we give 60-75 crime prevention programs and have been invited to present "active shooter response" to numerous classes. We routinely work with the student newspaper and radio station, as well as other media, to provide safety tips and timely warnings of criminal activity.

Central Transit provides transportation from campus to various locations in the city of Ellensburg and other points of interest. For more information regarding this program please visit

http://www.hopesource.us/routeMap.html.

Our mission is to provide a safe and secure environment for our community through education and enforcement. "Educate, Prevent, Protect"

Emergency Phone: 911

Non-emergency: 509-925-8534 Business Phone: 509-963-2959

Fax: 509-963-2750

Monday through Friday, 8 a.m.-5 p.m.

Courtesy Assistance Team (CAT) 509-963-2950

Central Transit: 509-933-2287

#### **Student Employment**

CWU hires more than 3,300 students to work on campus each year. Working allows students to meet a portion of their college expenses and gain valuable work experience. Career-related employment is strongly encouraged. Student Employment posts notices for onand off-campus job openings on the Student Employment website and on the bulletin board on the first floor of Barge Hall, including summer job opportunities. Visit the Student Employment office home page at www.cwu.edu/student-employment for additional information, and to view the online job board. Please see the Student Employment website regarding Work Study opportunities. Students must be eligible for need-based financial aid to be considered for Work Study. See the CWU Financial Aid home page for details on types of aid available at www.cwu.edu/financial-aid.

#### Veteran Services and Outreach

The Veterans Center is located in the Bouillon Hall, room 206N. Students wishing to receive education benefits from the Department of Veterans Affairs (DVA) must contact the Veterans Center office. Notification is NOT automatically sent to the DVA when a veteran or other eligible person enrolls. For more information, call 509-963-3028 or visit the website at www.cwu.edu/veterans. The Veterans Center provides information and guidance to veterans, dependents, and others regarding questions on Veterans GI Bill Education Benefits. It also provides information on veterans in foreign conflict grants and tuition waivers including police, firefighters, veteran survivors and dependents. Selected programs of study are approved by a Washington State Approving Agency for enrollment of those eligible for benefits under the Title 38 and Title 10 U.S. codes.

# **University Centers**

Central Washington University has eight campus locations in addition to the residential campus in Ellensburg. The University Centers offer upper division (300- and 400-level) and graduate-level coursework leading to baccalaureate and master's degrees. The University Centers are designed for students who have completed their Direct Transfer Agreement (DTA) associate degree or most of their general education requirements. Day and evening classes are offered to accommodate the needs of time- and place-bound students. Visit the University Centers website at cwu.edu/admissions/cwu-center-locations. For more information about the University Centers, contact Margaret Badgley, Assistant Vice President University

Centers and Community College Relations. Phone: 509-963-3958 E-mail: badgleym@cwu.edu.

#### **CWU-Des Moines**

At Highline Community College Higher Education Center, Building 29 2400 South 240th Street P. O. Box 13490 Des Moines, WA 98198 206-439-3800

### **Degree Programs:**

- BS Accounting
- BS Business Administration
- BAEd Early Childhood Education/ Elementary Education
- BS Electronics Engineering Technology
- BAS Industrial Technology
- BS Industrial Technology
- BAS Information Technology and Administrative Management
- BS Interdisciplinary Studies Social Sciences
- · BA Law and Justice
- · BA Psychology
- MS Engineering Technology
- MEd Master Teacher
- · MEd School Administration
- MPA Professional Accountancy

#### Minors:

- · Business Administration
- · Economics
- Industrial Technology
- · Law and Justice
- Psychology
- Sociology

#### Other:

- · Principal Certification
- Professional Certificate in Teaching
- Supply Chain Management Certificate

#### **CWU-Everett**

At Everett Community College Gray Wolf Hall 2000 Tower Street Everett, WA 98201 425-259-8900

#### **Degree Programs:**

- BAS Information Technology and Administrative Management
- BS Interdisciplinary Studies Social Sciences
- BA Psychology (online only)
- BA Sociology (online only)

#### CWU-Kent

At Green River Community College-Kent Campus I 417 Ramsay Way, Suite 112 Kent, WA 98032 253-856-9595 x5350

# Degree Programs:

• BAEd Elementary Education/ Middle-level Science and Middle-level Math

- · MS Law and Justice
- BA Psychology (online only)
- BA Sociology (online only)

#### CWU-Lvnnwood

At Edmonds Community College Snoqualmie Hall 20000 68th Avenue West Lynnwood, WA 98036 425-640-1574

#### **Degree Programs:**

- BS Accounting
- · BS Business Administration
- BAEd Elementary Education/ Science Ed. Minor
- BAS Information Technology and Administrative Management
- BS Interdisciplinary Studies Social Sciences
- · BA Law and Justice
- BA Mathematics: Teaching Secondary
- MPA Professional Accountancy

#### Minors:

- · Business Administration
- Economics
- · Law and Justice
- · Psychology
- Sociology

#### Other:

- · Certification for Teaching Secondary Mathematics
- Supply Chain Management Certificate

#### CWU-Moses Lake

At Big Bend Community College Advanced Technology and Education Center 7662 Chanute Street, Room 1843 Moses Lake, WA 98837 509-793-2384

# **Degree Programs:**

- BS Aviation Management
- · BS Professional Pilot
- BS Interdisciplinary Studies-Social Sciences
- BA Psychology (online only)
- BA Sociology (online only)
- BAS Information Technology and Admin. Management (online only)
- · MEd Master Teacher

# Minors:

- Sociology
- Administrative Management (summer online only)
- Retail Management and Technology (summer online only)

#### Courses in:

- · Accounting
- · Business Administration
- Teaching Certification

#### Other:

• PRO-Teach (online only)

#### **CWU-Pierce County**

At Pierce College, Ft. Steilacoom

Olympic Building, Third Floor 9401 Farwest Dr. Lakewood, WA 98498 253-964-6636

# Degree Programs:

- BAEd Elementary Education/ Literacy Minor
- BS Interdisciplinary Studies-Social Sciences
- BAS Information Technology and Admin. Management (online only)
- · BA Law and Justice
- · BS Social Services

#### Minors:

- · Law and Justice
- · Psychology
- · Social Services
- Sociology
- Administrative Management (summer online only)
- Retail Management and Technology (summer online only)

# CWU-Wenatchee

At Wenatchee Valley College Higher Education Center 1300 Fifth Street Wenatchee, WA 98801 509-665-2600

#### **Degree Programs:**

- BAEd Elementary Education/ Literacy Minor
- BS Interdisciplinary Studies-Social Sciences
- BAS Information Technology and Admin. Management (online only)
- BA Psychology (online only)
- BA Sociology (online only)
- · MEd Master Teacher

# Minors:

Sociology

#### Courses in:

- · Accounting
- Business Administration
- · Teaching Certificate

#### Other:

• Professional Certificate in Teaching

#### CWU-Yakima

At Yakima Valley Community College Deccio Higher Education Center 1000 South 12th Avenue, Room 107 P.O. Box 22520 Yakima, WA 98907 509-574-6894

#### **Degree Programs:**

- BAEd Early Childhood Education-non certification
- BAEd Elementary Education/ TESL Minor
- BS Interdisciplinary Studies Social Sciences
- BAS Information Technology and Admin. Management (online only)
- BA Psychology (online only)
- BA Sociology (online only)

· BA Law and Justice

#### Minors:

- · Law and Justice
- · Psychology
- · Social Services
- Sociology

#### Courses in:

- · Accounting
- · Business Administration
- Reading Specialist
- · Master Teacher

#### Other:

· Professional Certificate in Teaching

# **Undergraduate Admissions**

#### **General Information**

Central offers admission to qualified students as they apply. All applicants must submit a completed CWU online or paper admissions application (the online application is preferred) along with a non-refundable application processing fee of \$50. To apply online visit www.cwu.edu and click on *Apply*.

Freshmen applicants that apply for fall quarter will be notified of an admissions decision within four to six weeks. The priority application date for fall quarter application for freshmen and transfer students is April 1. Applications received after April 1 will be processed on a space-available basis. For the most current information and admissions deadlines for other academic quarters, please visit www.cwu.edu/admissions.

#### Freshmen Applicants

Freshmen applicants (students currently enrolled in high school or high school graduates who have earned fewer than 40 college credits after high school graduation, including Running Start credits) must send official copies of all high school and college transcripts, as well as ACT or SAT scores, to the Office of Admissions.

Applicants with a 3.4 cumulative GPA or higher and have satisfied the CADR requirements (see below) will be automatically admitted regardless of ACT or SAT score\*. Admission Essay is not required.

\*Applicants must still submit an ACT or SAT test scores as they are used for placement in English and Math course at CWU.

Applicants with a 3.39-3.00 cumulative GPA who have satisfied the CADR requirements will be considered for admission based on grades AND test scores.

For applicants with CADR deficiencies, Admissions will take into account, grade trends, course rigor, senior year course schedule, and ACT/ SAT scores. Admissions Essay recommended (essay questions).

Applicants with a cumulative GPA of 2.99-2.00 and/or CADR deficiencies will be considered through CWU's holistic Comprehensive Review Process. In this process we consider your responses to essay questions, grade

trends, course rigor, senior year course schedule, and ACT/ SAT scores. Admissions Essay is required.

To be considered for admissions, students must have at least a 2.00 cumulative GPA in high school and any applicable college work.

# CADR REQUIREMENTS

CADR refers to college admission criteria established by the Higher Education Coordinating Board (HECB). Each school district determines which of its courses meet CADR guidelines. Students are encouraged to take additional courses above and beyond the minimum CADR requirements listed below.

English: 4 credits (including 3 credits of literature and composition)

Math: 4 credits (including algebra I, algebra II and geometry, the fourth credit needs to be quantitative mathbased course taken in the senior year of high school). Social Science: 2 credits

Lab Science: 2 credits (one credit required in an algebra based lab science)

World Language: 2 credits of the same world language, Native American language or American Sign Language 1 credit of fine, visual, or performing arts, or electives from any of the other required CADR areas

Central Washington University recommends that students take additional courses beyond the minimum to prepare them for university-level work.

#### College Credit Earned while in High School

Regardless of the number of college credits completed or if an associate Degree is earned, students earning college credit while in high school, including coursework taken during summer after graduation, will be considered freshmen for admissions purposes. Running Start students and others with college credit are eligible for all freshmen scholarships and must live on campus for their first year. CWU accepts most college credit earned while in high school, including programs such as:

- Advanced Placement (AP)
- College in the High School
- College Level Examination Program (CLEP)
- CWU Cornerstone
- International Baccalaureate (IB)
- Running Start

# **Home-school Applicants**

A home-schooled student is any applicant who will complete their high school coursework at home and will not receive a diploma from an accredited high school. An applicant is qualified for freshman admission if they:

Present evidence of their completion of the academic CADR courses by submitting an official home-school transcript. Transcripts must be signed by a parent or guardian in order to be official.

#### Submit ACT or SAT scores

Provide the GED as proof of high school completion. A GED is not required but may be submitted for eligibility for Federal Financial Aid and to participate in varsity athletics.

Submit any official college transcripts (if applicable).

Regardless of the number of college credits completed, students earning college credit in high school will be considered freshmen for admissions purposes as long as they do not take coursework after graduation from high school (excluding summer).

All home-schooled students will be reviewed by the Comprehensive Review Process on an individual basis.

# **Transfer Applicants**

Transfer students who have earned 40 or more college-level credits (27 semester credits) must send official copies of all college transcripts to the Office of Admissions. Generally, transfer students who have completed at least 40 college-level transferable credits with at least a 2.5 cumulative GPA will be admissible. Students who have completed college-level math and English and those who have completed a Direct Transfer Associated degree (DTA) will do better in the comprehensive review process. A current list of DTA degrees is available online at www.cwu.edu/registrar. For current information and application deadlines, visit www.cwu.edu/admissions.

If your GPA is below 2.5 from any previous college attended, you are required to answer the application essay questions, and your application will go through the comprehensive review process. The admissions review committee takes into account your grade trend, the number of transferable credits you have completed, and type of coursework completed, including college-level English and math completion.

#### **Comprehensive Admissions Review Process**

Central recognizes that many factors affect grades and test scores, so the university utilizes a comprehensive admissions review process. Freshmen applicants whose cumulative GPA is 2.99 or below and/or who are missing any of the high school CADR requirements, or transfer applicants whose GPA is below 2.5 from any previous college attended, will need to complete the essay portion of the admissions application. The application will go through the comprehensive review process.

The essay questions, included on both the online and printed version of the application, are:

- ➤ How have your past experiences influenced your academic record?
- What are you presently doing to ensure your academic success?
- What are your academic goals and how will CWU help you accomplish these goals?

You are encouraged to include your involvement and leadership contributions in your home, school, or community in your essay.

Other students who may be reviewed through the comprehensive review process include those who have not completed high school, earned a General Education Development (GED) certificate, as well as students 25 or older who have poor academic histories and have not attended school recently. Applicants may be required to complete supplemental application forms and/or submit additional information or essays.

#### **International Students**

Central welcomes qualified students from other countries. Students demonstrating the greatest potential for success at the university level may be admitted after a thorough review and evaluation of their entire academic background.

Because educational systems vary widely around the world, there is no single, uniform admission requirement for international students. However, they must meet the following minimum requirements for admission purposes:

Completion of the academic coursework and national examinations necessary to satisfy admission requirements to colleges and universities in their native country.

Competency in English is required before an I-20 can be issued. If English is not their first language, competency in English must be demonstrated through one of the following:

• English Composition Courses

Receive a 3.0 (B grade) in each of two college-level English composition courses from an accredited United States college or university. Contact the Office of Admissions at international@cwu.edu to find out what courses are acceptable.

• Undergraduate English as a Second Language (UESL) Program Recommendation

Receive a recommendation from CWU's UESL Program after successful completion of their highest level. CWU also offers Conditional Admissions to students who meet all of the requirements other than English proficiency. For more information and application materials visit www.cwu.edu/~esl.

Test of English as a Foreign Language (TOEFL)

Receive a TOEFL score meeting the following criteria:

A score of 525 or above-Paper-based TOEFL A score of 195 or above-Computer-based TOEFL A score of 71 or above-Internet-board TOEFL

Test of International English Language Testing System (IELTS)

Receive a IELTS score of 6.0

Students who originate from one of the following countries are considered to have met English Proficiency Standards: Australia, Ireland, New Zealand, United Kingdom, and English-speaking provinces of Canada. These students are exempt from furnishing proof of English proficiency documents.

International students transferring from U.S. institutions must have a minimum grade point average of 2.5 in transferable college level courses and meet the academic requirements for college entrance in their native country.

Please Note: Though not required for admission purposes, adequate financial support, verified by the Confidential Financial Statement form and a current bank letter or scholarship award, is required of all international applicants. There are three ways of applying to Central Washington University:

- Apply online. With this option you will submit your application electronically with the online application form and pay your \$50 application fee electronically using a credit card.
- Download and print copies of required application forms. Links to down-loadable forms in PDF (Portable Document File) format are found online on the CWU Web site. Once completed, your forms and supporting documents should be returned to the CWU Office of Admissions in person or through the mail. Request needed forms be sent to your address.
- Contact the CWU Office of Admissions at admissions@cwu.edu with your request. Once completed, your forms and supporting documents should be returned to the CWU Office of Admissions in person or through the mail

All supporting documents should be sent a minimum of 90 days in advance of the quarter for which the applicant seeks admission.

Students who submit international college or university transcripts must have an official course-bycourse translation and evaluation done by one of the following foreign credential evaluation companies:

- Foundation for International Services (FIS) Inc. at www.fis-web.com/ cwu.
- World Education Services (WES)
- www.wes.org/ students/ index.asp.

# Re-admission of Former Students

Students who interrupt their CWU studies for one or more quarters (excluding summer) must re-apply for admission to the university and pay the application fee. For more information, check the admissions Web site at www.cwu.edu/~admissions. If the student has attended any institution during his or her absence from CWU, the student must send official transcripts of all post-CWU coursework to the Office of Admissions at the time they re-apply. Eligibility for re-admission will be based on prior academic performance at the university and any courses completed since last attending CWU. If a student left on academic or disciplinary suspension, they should contact the Dean of Student Success for reapplication instructions 30 days prior to the start of the quarter for which the student is applying.

# **Confirmation of Admission**

Students who are offered admission to the university must confirm their intention to enroll by paying a non-refundable \$100 confirmation deposit before they can begin the orientation, registration, and advising process. The confirmation deposit is credited towards the student's first quarter's tuition. If the student does not enroll, the deposit is forfeited. The university will not withdraw an offer of admission for fall quarter until after May 1. Students who have not confirmed may be denied admission after that time if enrollment limits have been

reached. Students who choose not to accept offers of admission must notify the Office of Admissions in writing. An offer of admission is only valid for the academic quarter indicated in the acceptance letter. A student who chooses not to accept an offer of admission may reapply for a subsequent quarter.

#### Withdrawal of Offer of Admission

Offers of admission may be withdrawn by the Office of Admissions if a student's academic work between the time of application and the quarter for which the student has applied results in the student not meeting the admissions criteria.

# Non-matriculated Student Application

Students who are not seeking degrees or certificates may be allowed to enroll in courses as non-matriculated students. These students do not need to go through the regular admissions process, but should apply through Registrar Services and may be allowed to register on a space-available basis. Credits earned as a non-matriculated student may not be used to satisfy degree or certificate requirements unless the student applies and is accepted as a matriculated student, in which case a maximum of 45 credits may be applied. Exceptions may be made for non-matriculates in collaborative certificate programs.

Students who have previously attended Central as matriculated students and have not obtained a degree, and students who have applied and been rejected for undergraduate matriculated status will not be allowed to enroll as non-matriculated students. Non-matriculated students are not eligible for most financial aid, veteran's benefits, or other services regularly provided for matriculated students.

#### **High School Enrichment Program**

Students who have not yet graduated from high school may be allowed to enroll as non-matriculated students for courses that they need to advance academically, provided that such academic opportunities are not readily available to them elsewhere.

To be eligible for the High School Enrichment Program, students must have demonstrated superior academic performance or preparation in the area of study for which they are applying. High School Enrichment Program applicants must submit official copies of their high school transcript. Some courses may require that the student submit ACT, SAT, or COMPASS scores in order to qualify for placement into those courses. In addition, they must complete the High School Enrichment application that is available from Registrar Services, and obtain the approval of their high school principal, and the course instructor. For further information, please call 509-963-3001 or email reg@cwu.edu.

#### **Central Visitation Program**

The Central Visitation program is a student-run program designed to give prospective students an insight into campus life from a student's perspective. Our staff is trained to know all aspects of CWU. The staff understands that visiting campus is one of the most important steps in the college decision-making process.

The Central Visitation program offers a variety of programs to help you explore CWU:

Campus Tour: Campus walking tours are offered Monday through Friday at 10 a.m. and 2 p.m. Weekend tours are offered Saturday at 11 a.m. by appointment only. Check the Web site for a list of available dates. Tours check in at the CWU Welcome Center and will be shown where to park and where the full tour of campus begins. Tours are expected to last at least one hour and 15 minutes depending on the size of the group. Please remember to wear appropriate shoes and clothing for the time of year.

Cat Tracks: Cat Tracks is a day-long, comprehensive visit to CWU. This student-run program is a great way to experience campus life firsthand while learning about a specific program. Space is limited so be sure to sign up early.

For the most current information, dates, and times, visit www.cwu.edu/admissions or call 509-963-1262.

# **Transfer Credit**

# **Equivalency Guides and Policies**

Central Washington University accepts a maximum of 135 total transfer credits from regionally accredited four-year schools, including a maximum of 105 total credits from regionally accredited community colleges. Credits are evaluated by Registrar Services based on official transcripts. Credits earned in courses numbered 100 and above are generally accepted toward total transfer credits provided the courses require university-level study.

Transfer courses equivalent to CWU courses will apply toward the baccalaureate degree exactly as do the CWU courses for which they are being substituted. Equivalency is established by a course review from the appropriate academic department. Other transfer courses that have not been established as exact equivalents may transfer as general electives and may also be allowed in the degree program with approval from the appropriate academic department chair and, as appropriate, college dean.

Credits earned at institutions which are not fully accredited by a regional accrediting association are not accepted. Consideration for exception to this policy may be made by written petition to the dean of the appropriate college after earning a minimum of 45 credits at Central with a cumulative GPA of at least 2.5.

The university recognizes college credit from a number of sources, including Advanced Placement (AP),

College Level Examination Program (CLEP), International Baccalaureate (IB), and military educational experience or correspondence credit. Up to 45 quarter credits from these programs may be counted toward graduation.

The university endorses the Policy on Inter-College Transfer and Articulation among Washington public colleges and universities published by the Higher Education Coordinating Board. The policy deals with the rights and responsibilities of transfer students, and the review and appeal process in transfer credit disputes. Contact Registrar Services for more detailed information.

Academic associate degrees which are part of the Direct Transfer Agreements (DTA) between the university and Washington community colleges will meet the general education requirement of a bachelor's degree. Community colleges offer several kinds of associate degrees, therefore, students who plan to transfer to the university should check with their counselors to make sure they are enrolled in the appropriate direct transfer degree program. Students who earned the AA degree prior to the date of the DTA between the university and individual community colleges may petition the provost or his designee for acceptance of their degree to meet general education requirements.

Associate of science degrees with transfer agreements between the university and Washington community colleges will meet the general education requirements of a bachelor's degree when students complete additional courses at CWU. Transfer students without a transferable associate degree from a Washington community college wishing to complete such a degree must complete it by the time they have completed 45 credits or within one calendar year, whichever comes later, after initial enrollment at Central in order for the AA degree to satisfy the general education requirements at Central. A student cannot earn an associate degree and bachelor's degree in the same quarter.

Academic associate of art degrees from a public community college outside of Washington State, accredited by the Northwest Commission on Colleges and Universities (NWCCU), will meet the general education requirements of a bachelor's degree.

Students transferring to CWU from another Washington State public baccalaureate institution, whose General University Requirements or General Education Requirements were complete at the sending institution, will also satisfy all of the CWU General Education Requirements, provided official documentation is received from the sending institute and certified by CWU.

# **Advanced Placement Credit**

Students may receive credit for advanced placement, depending upon the scores achieved on the College Entrance Examination Board Advanced Placement Test (AP). Students must request that their AP test scores be sent to the Registrar Services at Central. Scores of 3 or better on Advanced Placement Examination will be awarded as free electives for departments without specific policy.

departments without specific	e policy.	
Department	AP Scor	e CWU Credit
Art 2D	3, 4, 5	Department Electives.
Art 3D	3, 4, 5	
Art History	3, 4, 5	Credit for Aesthetic Experience.
Biology	3	Credit for BIOL 101.
-	4, 5	Credit for any two of BIOL 101, 181, 182, 183.
Chemistry	3	Exempt from CHEM 181, 181LAB; credit awarded upon successful completion of
CHEM 182.		
	4	Exempt from CHEM 181, 181LAB, 182, 182LAB credit for both courses awarded upon
successful completion of CHE	M 183 an	· · · · · · · · · · · · · · · · · · ·
•	5	Credit for CHEM 181, 181LAB, 182, 182LAB, 183, 183LAB.
Computer Science A	3, 4	Credit for CS 110.
Computer Science A	5	Credit for CS 110, 111.
Computer Science AB	3, 4	Credit for CS 110, 111.
Computer Science AB	5	Credit for CS 110, 111, 301.
Economics		0.000.000 0.000.000.000.000.000.000.000
Micro Economics	3	Credit for ECON 201.
Macro Economics	3	Credit for ECON 202.
English		0.000.00.200.00.2020
Lang and Comp	3, 4, 5	Credit for ENG 101.
Lit and Comp	3, 4, 5	Credit for ENG 105.
Environmental Science	3, 4	Credit for ENST 201.
Environmental Science	5	Credit for both ENST 201 and ENST 202.
Foreign	3	Credit for 251.
Languages (all)	4	Credit for 251, 252.
Maximum 15 total cr.	5	Credit for 251, 252.  Credit for 251, 252, 253.
Human Geography	3, 4, 5	Credit for GENS B - GEOG
U.S. History	3, 4, 3	Credit for either HIST 143 or 144.
C.S. History	4	Credit for either HIST 143 or HIST 144, with exemption for majors in the other.
(Majors will be required to tak	-	itional 5 credits of upper-division U.S. History.)
(Majors will be required to tak	5	Credit for HIST 143 and HIST 144.
World History	3	Credit for either HIST 102 or 103.
World History	3 4, 5	Credit for either HIST 102 of 103.  Credit for either HIST 102 or HIST 103 with exemption for majors in the other.
Majors will be required to tel	· ·	ional credits in upper division non-Western history.)
European History		Credit for Perspectives on World Cultures.
Calculus AB	3, 4, 5	•
	3, 4, 5	Credit for MATH 172.
Calculus BC	3, 4, 5	Credit for MATH 172 and 173.
Math Statistics	3, 4, 5	Credit for MATH 311.
Music Theory	3, 4, 5	Department Electives.
Physics B	4, 5	Exemption from PHYS 111, 111LAB, 112, 112LAB, 113, 113LAB.
Physics C	4.5	E C DIIVO 101 1011 AD OD CELC
Mechanics	4, 5	Exemption from PHYS 181, 181LAB, 3 Dept. Electives.
Electricity and	4, 5	Exemption from PHYS.
Magnetism		182, 182LAB.
Political Science	2	D. P. C. 10 C. 10 C.
	3	Political Science elective.

American Govt or		
Comparative Politics	4	Credit for POSC 101.
American Govt	5	Credit for POSC 210.
Comparative Politics	5	Credit for POSC 260.
Psychology	4	Credit for PSY 101.

# **College Level Examination Program**

Students will be awarded college-level quarter credits for each score at the 50th percentile on the College Level Examination Program (CLEP) humanities, social science/ history and natural sciences examinations. These credits will meet the general education requirements in the appropriate areas. Students may also be awarded credit for subject examinations as determined by appropriate academic departments at the time of application for credit.

No more than 45 total quarter credits through CLEP or other sources of nontraditional credit may apply to graduation requirements. CLEP credit is not awarded for English.

# College Level Examination Program

CLEP Test Scores for Central Washington University at the 50th Percentile or Above.

	Percentile	Score	CWU	J Area of Credits Awarded
Calculus w/ Elem. Funct.	50th	50	Math 172 and Math 173	
Chemistry	80th	63	Chemistry 181, 181LAB	
College Mathematics	50th	50	Basic Skills Math	
Economics	50th	50	Economics Lower Division	
or Macroeconomics				
or Microeconomics				
Human Growth and Development	50th	50	Psychology 314	
Humanities	50th	50	Literature and the Humanities	
Info Systems and Computer Applications	50th	54	Computer Science 101	
Intro to Psychology	50th	50	Psychology 101	
Intro Ed. Psychology	50th	50	Psychology 315	
Intro to Sociology	50th	50	Sociology 107	
Natural Sciences	50th	50	Fundamental Disciplines of Physical and Biological	
Sciences				
Social Science and History	50th	50	Perspectives on the Cultures and Experiences of the	
US				
Western Civilization I	50th	50	History 101	
Western Civilization II	50th	50	History 102 or 103	
US History I	50th	57	History 143	
US History II	50th	54	History 144	
Foreign Languages		Level I	Level II	
French Language		50 151, 152 & 153	62	French 251, 252 & 253
German Language		50 151, 152 & 153	63	German 251, 252 & 253
Spanish Language		50 151, 152 & 153	63	Spanish 251, 252, & 253

#### **International Baccalaureate**

Central recognizes the International Baccalaureate (IB) program as a coherent, challenging course of study and responds individually to each participant's IB transcript for award of college credit. Students may be awarded credit for completing individual areas of study within the program. IB students should submit official transcripts to Registrar Services, which will review the program of study and examination scores with the appropriate department chair.

#### **Credit for Military Service**

Upon submission of the DD214 or DD295, matriculated students may receive up to 30 lower division elective credits for completion of military educational experience as recommended by the American Council on Education.

#### Non-U.S. College/University Credit

Credit will be accepted from non-U.S. institutions of higher education when (1) it has been earned at an institution linked to CWU either by a bilateral or consortial (e.g., International Student Exchange Program (ISEP) agreement, or when an institution has been certified by the CWU Office of International Studies and Programs as a legitimate, recognized institution of higher education (tertiary level) within a particular country; (2) the student has received a passing grade recognized by the institution; and (3) an official record or transcript has been received by the university.

#### **Degrees Offered**

Central Washington University offers the following undergraduate degrees:

Bachelor of Arts
Bachelor of Arts in Education
Bachelor of Fine Arts
Bachelor of Music
Bachelor of Science
Bachelor of Applied Science

Students wishing to earn a BA, BAS, BEd, BFA, BM, or BS degree must complete (1) the general education program; (2) a concentration of at least 60 credits which may be satisfied by a specified major, or a specified major and minor, or a specified major and courses in other fields as prescribed by the major department; (3) electives in sufficient quantity to bring the total quarter credits to 180; and (4) other degree requirements as specified. Department fields of study are listed by major, minor, or specialization by college on the undergraduate programs offered. Minor concentrations are offered in many fields.

Students wishing to earn a BAEd degree must complete (1) the general education program; (2) a major in Early Childhood Education, Elementary Education or Special Education and minors, when appropriate; (3) the professional education foundation courses; (4) 180 total quarter credits; and (5) other general degree requirements as listed under the College of Education and Professional Studies section in this catalog. Students may select any university minor; however, students are strongly encouraged to select an endorsable teaching minor.

# **Tuition and Fees**

# **General Tuition and Fees**

General tuition and fee rates are established by the state Legislature and miscellaneous fees are set by the CWU Board of Trustees. Tuition for 2012-2013 is not available at this time. The tuition rates shown below are an estimate. Refer to the online version of the catalog for updates. All tuition and fees are subject to change without notice.

# Undergraduate and post-baccalaureate students registering for 10-18 credits:

Quarterly tuition fees for residents of the state of Washington \$2,679

Quarterly tuition fees for nonresidents of the state of Washington \$6,734

# Undergraduate and post-baccalaureate students registering for nine credits or less:

Resident: Each credit, \$267.90

Minimum of \$535.80

Nonresident: Each credit, \$673.40

Minimum of \$1,346.80

# Graduate (Master's Degree) students registering for 10-18 credits:

Resident graduate: \$3,082.60 Nonresident graduate: \$6,866.20

# Graduate (Master's Degree) students registering for nine credits or less:

Resident graduate: Each credit, \$308.26

Minimum of \$616.52

Nonresident graduate: Each credit, \$686.62

Minimum of \$1,373.24

# Students registering for more than 18 credits:

Undergraduate and post-baccalaureate, Resident: Each credit over 18, \$267.90 Nonresident: Each credit over 18, \$673.40 Resident graduate: Each credit over 18, \$308.26

Resident graduate: Each credit over 18, \$308.26 Nonresident graduate: Each credit over 18, \$686.62

# **Continuing Education Tuition and Fees**

All courses taught through the Office of Continuing Education are self-supporting. The waiver for veterans, university staff and senior citizens does not apply. Full fee-paying students must make additional payments at the rate established for each continuing education course in which they enroll.

### Resident and Nonresident Status

Washington State law concerning resident classification for tuition and fee purposes, RCW 28B.15.012 et seq., requires that a student "(a)(i) have established a bona fide domicile in the state of Washington, primarily for purposes other than educational, for at least one year immediately prior to the beginning of the quarter for which he or she registers at the university, and (ii) be financially independent, or (b) be a dependent student, one or both of whose parents or legal guardians have maintained a bona fide domicile in the state of Washington for at least one year prior to the beginning of the quarter for which the student registers at the

university." The term "domicile" denotes a person's true, fixed, and permanent home and place of habitation. It is the place where he or she intends to remain, and to which he or she expects to return when he or she leaves without intending to establish a new domicile elsewhere.

Any change of residency status for a given quarter must be based on written evidence provided by the student on a residency classification questionnaire on or before the first class day of the quarter for which a change of residency is sought. Questionnaires are available through the Office of Admissions. The burden of proof in all cases rests with the student.

In accordance with RCW 28B.15.014, certain nonresidents are exempted from paying nonresident tuition and fees. To be eligible for such an exemption, a nonresident student must provide documented evidence that he or she resides in the state of Washington, and (a) holds a graduate service appointment, designated as such by the university, involving not less than 20 hours per week; (b) is employed for an academic department in support of the instructional or research programs involving not less than 20 hours per week; or (c) is a faculty member, classified staff member, administratively exempt employee holding not less than a half-time appointment, or dependent child of such a person.

#### **Out-of-state Applicants**

To qualify as a Washington State resident, a student must be a U.S. citizen or have permanent resident (resident alien) status. A student must also be either independent and have established a permanent home in the state of Washington for purposes other than education at least 12 months prior to enrollment. Verification will be requested.

The spouse or dependent of a person who is on active military duty, stationed in Washington, can be classified as a resident by submitting proof of military assignment. A student cannot qualify as a Washington resident if s/ he (or parent, in the case of a dependent) has attended college as a resident of another state within a year prior to enrollment; has received financial assistance from another state, including reciprocity awards, within a year prior to enrollment; or possesses a current out-of-state driver's license, vehicle registration or other document which gives evidence of being domiciled in another state. For further information, contact the Office of Admissions at 509-963-1211.

Residency questions should be directed to the Office of Admissions. Residency requirements are subject to legislative change.

#### **Senior Citizens**

Senior citizens are encouraged to take advantage of the large variety of courses offered at the university. Persons 60 years of age or older may register as an auditor the first day of class on a space-available basis with permission of instructor. The fee is \$5 for a maximum of two courses, not to exceed six credits. Any person utilizing this provision taking more than six credits must pay an additional \$25 tuition charge. Credits may not be applied toward meeting requirements for any degree or for increments on

any wage or salary scale. Waivers are not available during summer quarter.

#### **Veterans Conflict Grant**

An eligible veteran means an active duty or reAn eligible veteran means an active duty or reserve military member or a National Guard member called to active duty, whose permanent home state is Washington, and who served in active federal service in a war or conflict fought on foreign soil, or in international waters, or who served in support of those serving on foreign soil or in international waters. This grant replaces all other military conflict waivers awarded in the past by CWU and is not available in summer. For further information, contact the Veterans Center at 509-963-3028 or e-mail va@cwu.edu..

# Children and Spouse of Totally (100%) Disabled or POW/MIA or Deceased Eligible Veterans or National Guard Members

**Tuition Waiver:** The legislature established this waiver to honor active and reserve veterans, National Guard members and their dependents. This is a mandatory tuition waiver for the children and spouse of totally disabled or POW/ MIA or deceased eligible veterans or National Guard Members.

- Child and spouse of an eligible veteran or National Guard member who became totally disabled;
- Child and spouse of an eligible veteran or National Guard member determined to be a prisoner of war or missing in action;
- Child and spouse of an eligible veteran or National Guard member who lost his or her life;
- Child is defined as a biological child, adopted child, or stepchild.

#### **Tuition Waiver**

Educating the citizens of Washington State is integral to Central Washington University's mission. CWU encourages and supports its employees, as well as non-CWU state employees and others as allowed by law, to continue their education as prescribed through this educational benefits policy. Central Washington University provides educational benefits for Central Washington University faculty, exempt, and classified staff, non-CWU state employees, members of the Washington National Guard, and veterans (as defined by 41.04.005 RCW) who are not eligible for educational benefits from the Veteran's Administration. Eligible employees (CWU and state) must hold appointment to a half-time or more position. In addition, civil service employees must have permanent status (i.e., passed their probationary period). Faculty and exempt employees who are employed half time or more and are expected to be employed for more than six months are eligible on the first day of employment. Eligible CWU employees may take up to eight (8) credit hours of course work per quarter. Washington National Guard, veterans, and non-CWU state employees may take up to six (6) credit hours of course work per quarter. Faculty who are hired on a quarter-to-quarter basis will become eligible beginning with the second consecutive quarter of half-time or more employment. For the purposes of this section,

employment of faculty in spring quarter and the following fall quarter may constitute consecutive employment.

Employees who are not eligible for the tuition and fee waiver are: faculty on courtesy appointments; retired faculty, staff, and exempt personnel; and undergraduate and graduate assistants, associates, or others holding positions with student status. An employee who has met university admission requirements and filed proof of eligibility with the Office of the Registrar no less than 15 working days prior to the beginning of each academic term may take up to eight credit hours of coursework for a nominal fee each quarter (summer excluded). Enrollment is subject to space availability only. Enrollment in a closed or wait-listed course under this waiver is prohibited. Refer to CWU academic policy 2-2.15 for further information.

# **Tuition Refund Schedule**

A continuing student will receive a 100 percent refund of tuition and fees if a complete withdrawal from the university occurs prior to the sixth day of the quarter.

A student will receive a 50 percent refund of tuition and fees if a complete withdrawal from the university occurs on or after the sixth day of the quarter and within 30 calendar days of the beginning of the quarter.

There is no refund of tuition and fees if withdrawal from the university occurs after the 30th calendar day of the quarter.

There is no refund for individual class withdrawals after the change of schedule period.

Tuition and fees may be refunded to students unable to complete coursework as a result of being called to active duty in the Armed Forces of the United States.

#### Miscellaneous Fee Schedule

Fees are subject to change for the 2012-2013 academic year.

- **Application For Admission Fee:** \$50, plus a \$100 non-refundable confirmation fee will be assessed and applied toward your tuition.
- **Athletic Fee:** \$42 mandatory fee per quarter for all students. Students with less than 10 credits will be assessed \$4.20 per credit.
- **Audit Fee (without credit):** A student enrolling in a course as an auditor is charged regular fees.
- Background Check Fee: In order to participate in certain programs/ majors a student must arrange for and obtain a criminal background check from the appropriate law enforcement agency. Information regarding the process, requirements, and costs can be obtained through the department offering the program/ major.
- **Breakage Fee:** Students enrolled in certain courses are required to pay for any equipment they break. Fees are variable according to the item broken.
- **Credit by Examination Fee:** Students applying to challenge a course will be assessed a nonrefundable fee of \$15 per credit, with a minimum of \$30 per course challenge.
- **Graduation Fees:** The fee for a non-teaching baccalaureate degree is \$30. The fee for a teaching baccalaureate

- degree is \$72. An additional \$12 will be assessed for concurrent degrees. The fee for degree reapplication is \$20. No degree will be posted when a balance remains unpaid. Cost for regalia is updated each year on the Wildcat Shop website located at cwubookstore.collegestoreonline.com/.
- Health and Accident Insurance: Group insurance is optional. An additional premium will allow student dependents to be covered by medical facilities other than the student health center, which is reserved for student use only. For further information, inquire at the Cashier's Office.
- Health and Counseling Fee: \$72 per quarter for all campus-based students enrolled for six or more credit hours. Fees will vary during summer session; review the Summer Session handbook for current fee.
- International Studies Application Fee: A fee of \$50 per student per quarter for students participating in study abroad or exchange programs.
- **Late Fee:** Students failing to pay their tuition in full by the published deadline are assessed a \$50 late fee.
- Late Registration Fee: Students will be charged a \$25 per course fee for registration from the sixth through the 10th day of instruction; a \$50 fee per course for the 11th day through the 30th day of instruction; and \$75 per course after the 30th day. Permission to add courses will still require signature of the instructor or the department chair and the college dean after the 10th day of classes.
- Master's Thesis Binding Fee: Students submitting a thesis as part of the requirements for the Master's degree pay a fee of \$75 for binding of three copies of their thesis. Two copies are deposited in the library and one copy is given to the student. Students not wishing a copy for themselves will be assessed \$50. Any students wanting more than one copy for themselves must make their own binding arrangements for the extra copies.
- **Parking:** Students using the university's parking facilities must purchase a campus parking permit.
- **Recreation Center Fee:** \$102 per quarter for all Ellensburg campus-based students enrolled for six credits or more.
- **Registration Cancellation Fee:** \$50. Students who register and do not drop their classes prior to the change of schedule period, and have extenuating circumstances that result in a refund of tuition will be assessed a \$50 cancellation fee.
- Safe Ride Fee: \$3 per quarter. No fee for Summer Session.
- Student-in-Training (Liability) Insurance: In order to register for certain courses, a student must arrange for individual student-in-training (liability) insurance purchased either through the CWU business office or through some other agency. Information regarding types of coverage available may be obtained from the department chair or program director.
- **Student Health and Counseling Center:** \$77 per quarter for all Ellensburg campus-based students enrolled for six credits or more.
- **Student Lobby Fee:** \$2 annual fee, assessed fall quarter only.

**Supply and Equipment Fees:** Students enrolling in certain courses are charged for supplies and equipment not furnished as part of the course.

**SURC Building Fee:** \$64 per quarter for all Ellensburg campus-based students enrolled for 10 credits or more. Students with less than 10 credits will be assessed \$6.40 per credit. Students with one credit will be assessed the same as the two credit fee, \$12.80.

**Technology Fee:** \$25 mandatory fee for all students. Students with less than 10 credits will be assessed \$2.50 per credit.

**Transcript Fee:** \$7 for each copy. \$15 for on demand, express mail or FAX copies. All fees are due in advance. A \$2.25 credit card fee may apply if ordering through the clearinghouse.

**Tuition Nonpayment Fee:** Students who have not paid full tuition by the 30th calendar day of the quarter will be assessed a \$75 tuition nonpayment fee. A hold will be placed on their student record and they will be liable for 100 percent of tuition and fees. Students will receive notification to their CWU email account. Students must have their student account cleared prior to registering for future quarters.

**Web-based Course Fee:** \$40 per class will be assessed for all Web-centric (WC) and Web (WW) courses.

#### **Financial Obligation**

Admission to or registration with the university, conferring of degrees and issuance of academic transcripts may be withheld for failure to meet financial obligations to the university. Payment received from students will be applied in the following priority: 1) oldest charge; 2) tuition and course fees; 3) housing and dining charges; 4) other charges.

Registration, online, by telephone or in-person, obligates students for payment of all tuition and fees. If tuition is not paid by the due date, students will be assessed a \$50 late fee and be liable for any other reasonable collection costs and charges.

# Financial Aid and Scholarships

#### Financial Aid

Each year approximately 80 percent of CWU students receive financial aid. To be eligible for federal aid a student must be a U.S. citizen, a permanent resident, or eligible non-citizen.

Financial aid is available to matriculated students seeking a degree or certification in an eligible program. Most financial aid programs require a minimum of half-time enrollment, which is 6 credits at the undergraduate level and 5 credits at the graduate level. Students who have a first baccalaureate degree and are not admitted to a master's program will be classified as a post-baccalaureate student. Post-baccalaureate students are eligible for federal loans.

Students must apply and be accepted for admission to the university (matriculated) to receive financial aid. Students and their families must complete a Free Application for Federal Financial Aid (FAFSA). Paper copies are available in the Financial Aid Office and at most high schools or libraries. The web version is available at www.fafsa.ed.gov.

The application should be submitted to the federal processor as soon as possible after January 1. March 1 is the cutoff date for priority consideration for limited gift aid. Accurate preparation of the FAFSA and timely response to all requests for additional information or documentation are critical.

Students who have been admitted to the university and have listed Central Washington University Title IV code #003771 on the FAFSA will have a student financial aid file delivered to the university electronically. Once that file has been reviewed and verified, the student will receive an award letter.

The award letter will indicate the estimated student budget, the federally determined expected family contribution, and an offer of aid including the type and amount. You must accept or cancel your aid on Safari. Loans are disbursed quarterly in equal amounts. If you have not already signed a master promissory note, you may sign electronically at www.studentloans.gov.

Students are expected to maintain "good academic standing" while receiving financial aid. A minimum CWU cumulative GPA of 2.0 is required for undergraduates after two years of attendance; post-baccalaureates are required to maintain a 2.0 cumulative GPA; and a minimum cumulative GPA of 3.0 is required for graduate students. Financial aid recipients are required to make reasonable progress toward a degree.

Additional financial aid information is available in the Financial Aid Office, Barge Hall, room 115; the Student Employment Office, Barge Hall, room 103; the Financial Aid Resource room, Barge Hall, room 102; and through the Financial Aid Offices at each University Center, at 509-963-1611, finaid @cwu.edu, or on the CWU Financial Aid home page at www.cwu.edu/financial-aid.

# Scholarships

Scholarships are gifts of money which do not have to be repaid. Central Washington University's Scholarship Office (Ellensburg Campus, Barge Hall, room 103) makes available the most recent scholarship application information at the website www.cwu.edu/scholarships. Scholarship eligibility is based on a variety of criteria including, but not limited to, academic proficiency, specialized talent, community service, leadership, and financial need. College and departmental selection committees as well as the Financial Aid Office select scholarship recipients. To be fully considered for all scholarship opportunities students should complete the FAFSA (Free Application for Federal Student Aid, www.fafsa.ed.gov, and any college or departmental scholarship applications for which the student is eligible that are available in the Scholarship Office. In addition, students with talent in athletics, art, music, and/or theatre should contact the department(s) directly for specific audition or exhibition opportunities. Most institutional

merit aid is awarded to meritorious students who submit a FAFSA. Need is not always a criteria.

Community-sponsored scholarships include awards for which the recipients are chosen by organizations outside the university. Each organization establishes its own eligibility criteria and application process. More information can be found at the scholarship website www.cwu.edu/scholarships or by contacting the organizations directly. Recipients are to inform the CWU Financial Aid Office if they are receiving an award from a community organization. Checks should be made payable to "Central Washington University." Include student's name and identification number. Send to the CWU Financial Aid Office, 400 East University Way, Ellensburg, WA 98926-7495.

Scholarships are considered an educational funding source and may change a student's eligibility in other institutional, state or federal aid programs.

# **Academic and General Regulations**

#### **Academic Advising**

All students are expected to seek, and the university is expected to provide, appropriate advising resources. These resources may include (but are not limited to) general university advisors, specific faculty advisors, special program advisors, career development counselors, advising seminars, advising workshops, and advising publications. General advising is available at the Academic Advising Center located in Bouillon Hall Room 203. Faculty advisors are responsible for providing general education, as well as major program advising. Students are also encouraged to seek advice from various faculty concerning specific areas of interest or from faculty who serve as general advisors.

Continuing freshmen are required to meet with their general academic advisor located in Bouillon Hall or departmental advisor during Advising Week, which takes place the week prior to early registration. During this meeting the student and advisor will discuss the appropriateness of the student's schedule in obtaining their career and academic goals. Students are required to meet with their advisor the quarters after they have obtained their 75th and 115th credits. During this meeting the student and advisor will discuss the students' academic plan for either being admitted into the major or for completing the major and university requirements needed to graduate. It is strongly suggested that all other continuing students also meet with their advisors during Advising Week.

# Admission to Major

As a student progresses, identification with a major or pre-major program of study becomes necessary for effective advising. Students are required to apply for admission to the program in which they want to major. Application forms are available in department offices. After completing the form, students should submit it to the department office which administers the major. A major or pre-major advisor will be assigned by the major

department at the time a student is admitted into a major or pre-major program.

Students who have earned 100 or more credits and who have not applied and been admitted to a major or pre-major will not be permitted to register for classes until their advisor has removed their advising hold. Students who have not been admitted to a major or pre-major prior to 100 credits will be given last priority during early registration.

Students are bound by the major requirements which became effective with the fall quarter Online Electronic Catalog (OEC) for the academic year in which they are accepted into their major.

If a student does not enroll for two or more consecutive quarters at Central (excluding summer), he or she will be required to reactivate his or her major status. Unless a student applies for an official leave of absence from the school. Reactivation must be done with the concurrence of the department and in accordance with department and the OEC requirements current at the time of readmission. A leave of absence should be requested, if a student is going to opt-out for a quarter (excluding summer) at Central. Leave of absence forms are due by the end of the quarter prior to the quarter they are requesting their leave. A leave of absence can be granted for up to two quarters at a time. This will allow the student to be eligible for registration, maintain status in their major, and the student will not have to re-apply for admissions.

#### Registration

Currently enrolled students may register for courses by using Safari, the web registration system. Registration for new and readmitted students will take place during new student orientation.

Registration for new or readmitted students that did not register during the new student orientation or continuing students that did not register during their designated enrollment appointment, can register during the open enrollment period designated in the annual registration handbook.

Students may change their schedule during the designated change of schedule period. Students are encouraged to use the Safari web registration system to complete all registration transactions.

Registration, in-person, by telephone, or web, obligates students for payment of all tuition and fees. If tuition is not paid by the due date, students will be liable for a late fee and for any other reasonable collection costs and charges.

Consult the annual registration handbook that is available at Registrar Services or the university center administration office to determine exact dates for early registration, open enrollment, tuition deadlines, and the change-of-schedule period. The registration handbook is also available on the web at www.cwu.edu/registrar/.

# Academic Credit

The rule for determining academic credit is: one credit represents a total time commitment of three hours each

week of the quarter. A regular load of 15 credits requires 45 hours of work per week. The total time includes class time, studying, conferring with the instructor, writing, performing laboratory work, exercising, or performing any other activity required of students. A minimum of 180 credits is required for a degree.

CWU operates on a quarter system and grants quarter credit. Other colleges operate on a semester basis (i.e., divide the academic year into two parts, exclusive of summer) and give semester credits. Quarter credits can be multiplied by two-thirds to determine equivalent semester credits. Semester credits can be multiplied by one-and-one-half to determine equivalent quarter credits. The rule for determining academic credit is: one credit represents a total time commitment of three hours each week of the quarter. A regular load of 15 credits requires 45 hours of work per week. The total time includes class time, studying, conferring with the instructor, writing, performing laboratory work, exercising, or performing any other activity required of students. A minimum of 180 credits is required for a degree.

#### **Course Numbering and Class Standing**

Courses are numbered sequentially from 100 through 700. Those numbered 100 are pre-collegiate and credits earned in such courses are not accepted toward meeting degree requirements. Undergraduate courses are numbered 101 through 499 and graduate courses are numbered 501 and above. Courses numbered 500 are professional development courses and are not accepted toward meeting degree requirements.

#### Lower Division

Freshman 101 through 199 Sophomore 200 through 299

**Upper Division** 

Junior 300 through 399 Senior 400 through 499

Students may enroll in courses one year ahead of their present status except when otherwise specified in the course description. A student's class standing is determined by the number of credits earned and/or accepted upon transfer. The following table lists the credits required for each class:

Freshman 0-44.9 Sophomore 45-89.9 Junior 90-134.9 Senior 135 or more

Students holding bachelor's degrees are considered post-baccalaureate, if the student is pursuing a second degree or CWU certification program. Students that are admitted to a master's degree program are considered graduate students. Satisfying graduation requirements depends not only on the number of credits completed (a minimum of 180), but also on completion of all other degree requirements.

#### **Student Study Load**

Full-time and part-time students are determined by the number of credits for which they register. Full-time undergraduate is 12 credits or more. Three-quarter time undergraduate is 9-11 credits. One-half time undergraduate is 6-8 credits. Full-time graduate is 10 or more credits. One-half time graduate is 5-6 credits.

#### Undergraduate:

15 credits - Standard undergraduate load
18 credits or fewer - No permission required
19-20 credits - Major advisor and major department chair approval required, or Advising Center for undeclared majors.

Over 21 credits - Major advisor and major department chair approval as well as the appropriate college dean.

A 2.8 or higher cumulative GPA is recommended for students seeking an overload.

#### Graduate:

15 credits - Normal graduate load 16 credits or less - No permission required 17-19 credits - Major department chair or dean approval required

20 or more credits - Dean of Graduate Studies and Research approval required

#### **Proficiency Requirements**

Students will be assessed for placement into ENG 101 and MATH 101 and above upon entering CWU. Students with deficiencies in English usage/ reading or mathematical computation must correct them prior to enrolling in ENG 101 or MATH 101 and above. Students should review requisites for courses listed in the catalog. Not having the appropriate pre- or corequisite may result in being disenrolled.

#### **Seniors in Graduate Courses**

Seniors may enroll in graduate-level courses (501 and above) with the approval of both the instructor of the course and the department chair. Credit earned in these courses may meet undergraduate or graduate program requirements, but not both. Students wishing to designate the course for graduate credit must obtain approval from the dean of Graduate Studies and Research.

#### **Auditing a Course**

Students eligible to enroll in a course for credit may enroll as an auditor provided space is available and permission is secured from the instructor prior to registration. To receive credit for an audited class, students must enroll for credit in and repeat the same course in a subsequent quarter. Students are assessed full tuition for audited courses. Instructors may not compel auditors to write papers or take examinations, but may insist upon other course requirements. Instructors may request that the college dean withdraw the auditor from the course if these requirements are not met. Students receive neither credit nor grades for audited courses. Course participation requirements are set by the faculty member responsible for the course.

#### **Concurrent Enrollment**

Credit for work taken while simultaneously enrolled at CWU and other educational institutions may be transferred to Central. Any student who has obtained an F-1 visa from CWU must obtain permission from the executive director of the Office of International Studies

and Programs (or designee) prior to enrolling in any other institution.

#### **University Catalog Choices and Limitations**

The official Online Electronic Catalog (OEC) is the university's compilation for all curriculum. Undergraduate catalogs are valid for five years, and may be found at www.cwu.edu. A student should expect to complete general education requirements as listed in the OEC current at the time of first enrollment at either Central or a community college in the state of Washington (provided he or she transfers directly to CWU from the community college and has not attended another four-year institution). The student should also expect to meet the specific requirements of the departments for majors and minors in the OEC current at the time he or she is accepted by the department into the major or minor program.

Graduate students admitted to the master's degree program may use the catalog they are admitted under or the current one.

#### Leave of Absence

Undergraduate and post-baccalaureate students who do not enroll for consecutive academic quarters (exclusive of summer), and are planning to take a quarter off, must reapply for admission. However, if students meet the criteria below, they may be granted a leave of absence, which means that they do not have to reapply for readmission the following quarter and that they may register early for classes as continuing students at the designated time.

The application for leave of absence must be submitted to Registrar Services at least two weeks prior to the term for which the student is seeking leave.

Leaves will be approved only if attending consecutive quarters would present an exceptional hardship or loss of opportunity.

Students may be granted for up to two quarters at a time. Additional consecutive quarters must be petitioned separately.

# Graduate students need to contact the graduate office at 509-963-3103 for leave of absence information.

#### Withdrawal from a Course

Peremptory (uncontested) withdrawals will not be permitted after the first six weeks of instruction. Students who withdraw after the change of schedule period from 25 percent or more of the coursework for which they have registered for two or more quarters each academic year are subject to dismissal. Students who have been dismissed under this policy may not enroll for courses without submitting an approved plan of study signed by an academic advisor to the Office of the Provost/ Senior Vice President for Academic Affairs. To continue enrollment, the student must satisfactorily complete all credits enrolled during the first quarter of readmission. Students who do not meet this requirement will not be allowed to register for one calendar year.

Peremptory withdrawals will be noted on the student's transcript with "+W." Class rosters will reflect

the +W for students who have used their peremptory withdrawal.

Withdrawals after the sixth week of instruction will be granted only for reasons of hardship and then only upon written petition to and written approval by the registrar. The student must contact the course instructor and obtain the faculty member's signature on the hardship withdrawal petition. The signature serves merely to acknowledge the petition and implies neither support nor rejection of the request. The registrar may consult with affected faculty when evaluating a petition and will notify the instructor if the hardship withdrawal has been approved. Hardship withdrawals will be noted on the student's transcript with an "HW" (hardship withdrawal). Hardship withdrawals from individual courses will not be permitted during or after the final examination period.

Conversions of incompletes to withdrawals must be petitioned as if they were hardship withdrawals. They may be changed only upon petition to the registrar. Withdrawals will not be included in calculating grade point averages. There are no tuition refunds in cases of withdrawal from individual courses.

#### Withdrawal from the University

A student may withdraw from the university for reasons of illness or other extenuating circumstances at any time prior to finals week. An official withdrawal form is available at Registrar Services or university center offices. A student may not withdraw from the university during finals week except with approval of the registrar. A complete withdrawal from the university will be noted on the student's transcript with a "W." The registrar will notify affected faculty members when a student has withdrawn from the university. Students who plan to leave the university must complete the official withdrawal form, and may need to have an exit interview. Failure to do so may result in failing grades. There is no refund of tuition and fees if total withdrawal occurs after the 30th calendar day of the beginning of the quarter. See refund policy for specific details.

#### Military Exigency Withdrawal

Students who have been called into military service of the United States due to a national emergency will be eligible for withdrawal from the university or the granting of credit. The policy does not apply to regular National Guard or Reserve duty or to annual active-duty requirements.

Students who must withdraw from the university during the first third of the quarter will be granted a total university withdrawal (W).

Students who must withdraw from the university during the second third of the quarter may request either an uncontested withdrawal (+W) or an incomplete (I) in each course with specified deadline for completion to be determined by the dean in consultation with the instructor or a total university withdrawal from all courses (W).

Students who must withdraw from the university during the last third of the quarter may request an uncontested withdrawal (+W) or an incomplete (I) or credit if the coursework is satisfactory, to be determined by the dean in consultation with the instructor or a total university withdrawal from all courses (W). If credit is awarded, the instructors must report either a letter grade or a satisfactory (S) for each course depending upon the quality of the student's work. If credit is received and the course(s) complete(s) all requirements for the baccalaureate degree, the degree will be awarded.

Students being called to active duty will be placed on a leave of absence until their return, at which time they will be reactivated, so they will not need to re-apply to the university. Students should contact Registrar Services when they are ready to return to Central to ensure a smooth transition.

In all circumstances, students will be expected to attend classes up to fifteen (15) calendar days prior to induction.

Students need to contact Registrar Services or their university center office as soon as possible to complete the appropriate paperwork, and to submit a copy of the Federal Activation Orders

#### **Grading Policies and Regulations**

"Grade Points" are assigned to each grade as follows:

Grade	Grade Points per Credit
A	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

The following symbols are also used. No "grade points" are assigned.

CR	Credit
NC	No Credit
S	Satisfactory
U	Unsatisfactory
AU	Audit
W	Complete withdrawal from
	the university
$+\mathbf{W}$	Uncontested withdrawal from
	a course
HW	Hardship withdrawal from
	a course
I	Incomplete
IP	In Progress
NR	No grade reported
NS	No show

#### All grades are frozen upon award of degree.

Financial aid may be affected by certain grades and/or grading symbols. It is incumbent upon students to be aware of the impact of all grades on their financial aid.

Financial aid information policies are available from the Financial Aid Office.

#### **Incomplete Grade**

The "I" grade is used when the student was not able to complete the course by the end of the term, but has satisfactorily completed a sufficient portion of it and can be expected to finish without having to re-enroll in it. The instructor will designate what a student must do to complete the course and set a specific date up to one calendar year for the completion of the coursework.

Registrar Services will send notification of the incomplete grade to the student based on the information provided by the instructor. If the work is not completed within one (1) calendar year from the last day of the quarter in which the "I" was received, the registrar will automatically convert the "I" to an "F." However, instructors may require the work to be completed prior to the end of the calendar year. In these cases the registrar will convert the grade according to the date indicated by the instructor. It is the student's responsibility to contact the professor and make arrangements to complete the course.

To earn a grade, a student must complete the work for the course as prescribed by the instructor by the indicated date on the incomplete. Students may not re-register for a course in which they receive a grade of incomplete.

All incomplete changes exceeding the one calendar year limit, including extensions, must be submitted by the instructor to Registrar Services for approval.

#### In-progress Grade

For undergraduate students, the "IP" grade is used when the student was not able to be evaluated by the end of the term, usually because instruction is not yet completed. "IP" is used for special circumstances within programs such as flight technology, international studies, and cooperative education.

For graduate students, "IP" is used for thesis, and project study, that normally extend beyond a single term.

All uses of the "IP" grade must be submitted to and approved by the registrar. A letter grade is issued when the course is completed and recorded by the registrar, upon receipt of the Change of Grade form submitted by the instructor. If a grade is not submitted to the registrar within one calendar year, the "IP" will automatically be changed to "F" by the registrar.

#### **Grade Point Average**

Grade point averages will be calculated by dividing grade points earned by the credit hours attempted. Here is a typical example:

Course	Credit	Grade	<b>Grade Points</b>
	Hours		Earned
MUS 104	3	C+	(2.3 x 3) 6.9
HIST 143	5	B-	(2.7 x 5) 13.5
PSY 300	5	C	(2.0 x 5) 10.0
COM 207	4	В	(3.0 x 4) 12.0
Totals	17		42.4

Dividing 42.4 by 17 gives a grade point average of 2.49. In computing cumulative grade point averages, only work

attempted at Central will be included in the computation, with the following exception: cumulative grade point average for students in the Teacher Preparation Program will include all coursework from all colleges attended. Within the major, minor, and professional education option, grades earned in all allowed courses are used. Credits earned at other institutions are accepted in meeting degree requirements according to the limits described under bachelor's degree requirements.

#### Credit/No Credit Option

Students are urged to use the credit/ no credit option as a way to explore academic areas of interest. All students except first-quarter freshmen and students on academic probation may select one class per quarter under this option. A maximum of 15 credits earned in credit/ no credit courses may be allowed toward the 180 required for the bachelor's degree.

The courses must be selected from free electives; they must not be courses in general education, major or minor concentrations, or the professional education sequence. Students may designate the course as credit/ no credit until the end of the change of schedule period. Courses may not be repeated on a credit/ no credit option.

Credits earned under the credit/ no credit option are not included in computing the grade point average. The grade recorded on the student's transcript will be "CR" if the course grade is C- or above; if below C-, the entry will be "NC."

#### Statute of Limitation on Grade Changes

Grade changes may be filed until the end of the quarter following the one in which they were recorded. Spring quarter grades may be changed until the end of the fall quarter.

#### **Grade Reports**

A report of the final grades assigned in courses will be available on Safari at the end of each quarter. Students may request a hard copy be mailed by contacting Registrar Services or their university center office.

#### Honor Roll

Undergraduates who achieve a grade point average of 3.5 or higher will be named to the honor roll. To be eligible, a student must complete a minimum of 12 graded credits in the quarter earned. Central will provide honor roll recipient names to student's hometown based on the student's permanent address listed on Safari at the end of the quarter. If a student has placed a directory restriction on their record through Safari, the hometown new spaper will not be notified of his/ her honor roll status. Postbaccalaureate and master students are not eligible for the honor roll. The honor roll status is listed on your unofficial transcript and is posted two to three weeks after grades on the web located at www.cwu.edu/registrar/honor-roll.

#### **Grade Appeal Procedure**

Students who believe they have been improperly graded should first attempt to resolve the matter with the instructor. If resolution is not achieved, the student may appeal the grievance to the department chair. Failing resolution at that level, the grievance may be submitted to

the college dean. Finally, if the grievance is not resolved at the dean level, the student may petition for a hearing with the board of academic appeals. For details, contact the Office of Student Success in Bouillon Hall, room 204 or by calling 509-963-1515.

#### **Repetition of Courses**

Some CWU courses are approved for repetition with credit awarded each time the course is taken and passed. Such approval is indicated in the course description in the university catalog. Full tuition is assessed for all repeated courses. Other courses may be repeated under the following conditions:

Students are allowed to take a course a second time.

Students attempting to take the same course a third time may do so only with permission of the course instructor and the department chair. Unless otherwise designated as repeatable, courses may not be taken more than three times without permission of the dean of the college and department chair.

Credit will be awarded only once, including credit for transfer courses that are repeated at Central.

When a course is repeated, only the last grade earned will be used in the computation of the cumulative and major grade point averages. All grades will remain in the student's official record.

Any CWU course repeated at another institution is subject to the following requirements:

May be transferred in for CWU credit

Will be used in calculating both the CWU and the transfer GPA

#### Scholastic Standards

Academic standards are established by the faculty. The dean of student successs has responsibility for implementing these standards. A student's academic standing appears on the quarterly grade report or unofficial transcript located on Safari. Questions about academic standing should be directed to the Office of Student Success (Bouillon Hall, room 204).

Good Standing: A student is in good standing when both the quarterly and cumulative grade point averages (GPA) are 2.0 or higher.

**Academic Warning:** A student who has been in good standing will be placed on academic warning when the GPA for the previous quarter is below 2.0.

**Academic Probation**: A student who has been on academic warning will be placed on academic probation if either the quarterly or cumulative GPA is below 2.0.

Academic Suspension: A student who has been on academic probation will be placed on academic suspension if the GPA for the previous quarter is below 2.0. If the GPA for the previous quarter is 2.0 or above, but the cumulative GPA remains below 2.0, the student will remain on academic probation.

Immediately after grades are submitted, the dean of student success or designee(s) reviews the academic files of all suspended students and makes one of three decisions:

The student may be allowed to register for one more quarter with an academic standing of probation.

The student may be allowed to submit a petition presenting evidence of circumstances beyond the student's control which adversely affected the student's performance during the preceding quarter(s). If the petition presents convincing evidence of such extenuating circumstances, the student may be referred to the academic standing committee. The committee will hear the student's case and may decide to allow the student to enroll for one more quarter on academic probation.

The student may be denied enrollment for one year, following which a written petition for readmission must be presented to the dean of student success; however, readmission is not guaranteed.

A letter will be sent to the student informing him or her of the dean's decision.

#### **Academic Forgiveness**

An undergraduate student may petition the registrar in writing for academic forgiveness if all of the following criteria are met:

- 1. The student returned to CWU after an absence of at least five years;
- 2. The student's CWU cumulative GPA at the time of leaving was below 2.0; and
- 3. The student has earned at least a 3.0 GPA in at least 45 credits since returning to CWU.

If academic forgiveness is granted, the previous credits and grades at CWU will remain on the student's transcript but will not be used in the calculation of the cumulative GPA, and the student will be in good standing. Only the grades earned since returning to CWU will be used in computing the CWU cumulative GPA.

The student may request a review of the registrar's decision by the board of academic appeals and academic standing. A petition for academic forgiveness may be granted only once. Unless academic forgiveness is granted, the GPA at CWU will include all CWU grades for all courses. The forgiveness policy does not extend to calculating GPA of major or to honors.

#### **Class Attendance and Participation**

Instructors may require regular class attendance. The first day of the quarter is the first day of instruction listed in the university calendar. An instructor may drop a student from the class by notifying the registrar if the student has failed to attend the class by the end of the third day of the quarter or the first class meeting if the class does not meet during the first three days of the quarter. Students enrolled in web courses should make a post on blackboard within the first three days of classes to endure they are not dropped for non-attendance. Students are responsible for checking their schedules by the fifth day of class to ensure their class schedule is correct.

A student who does not meet course prerequisites may be required to drop the course. Instructors are not required to offer makeup work for missed classes, including those missed during the change of class schedule period, regardless of student course enrollment

Sponsors of university-approved activities requiring absence from campus will prepare and sign an official list of the names of those students who plan to be absent. It is each student's responsibility to present a copy of the official list to the appropriate instructors and make arrangements prior to the absence(s). Instructors are encouraged to make accommodations.

Members of the university community directing or arranging such activities must adhere to the following guidelines:

- 1. Scheduling of such activities shall not overlap with official final examination periods.
- 2. Scheduling of such activities shall not require an absence of more than three consecutive class days.
- Scheduling of such activities shall be announced to the students far enough in advance for them to plan to fulfill course requirements.
- 4. Seeking permission for an exception lies with the sponsor and not with the student(s).

#### Athletic Participation

Central Washington University athletics is governed by the rules of the NCAA Division II and the Great Northwest Athletic Conference. Further information on those rules is available through the Athletic Office, or the office of the faculty athletic representative. University academic requirements for participation require the student athlete to meet the requirements of those athletics organizations as well as:

Maintain a 2.0 accumulative grade point average at all times

Not be in probation status

All incoming freshmen and transfer students must complete HED 205 - Drugs and Sport by the end of their third year (or junior status) in order to remain eligible for participation in varsity sports.

#### Course Challenge (Credit by Examination)

Under certain circumstances, the university may award credit or waive requirements based on course challenges or prior learning experience. Matriculated students enrolled on a full-time basis may challenge any course which appears on the current course challenge list. The following rules apply:

- A course challenge application form, available in Registrar Services, must be completed.
- A fee of \$15 per credit, with a minimum of \$30 per course, must be paid.
- The challenge is conducted according to procedures established by the appropriate department.
- The result of the course challenge is recorded as "S" or "U" on the transcript and is not used in computing GPA.
- The application to challenge a course will be denied if credit for the course has been received previously at this or another college, the course was previously failed, the student previously withdrew from the

course, the course was previously unsatisfactorily challenged, audited, or if registration was canceled.

Credit by examination will not be allowed toward meeting the residence study requirements by the university (see Graduation Requirements section).

Graduate students who have been admitted to a graduate program must obtain permission from the dean of Graduate Studies and Research, their advisor, and the course instructor to challenge it.

#### **Course Challenge List**

Special courses such as Individual Study, Special Topics, Cooperative Education, Workshops, and Seminars may not be challenged for credit.

Accounting: no courses are offered for challenge Aerospace Studies: no courses are offered for challenge Administrative Management: 201 and 271 Anthropology: all undergraduate courses with chair's

approval

Art: all undergraduate courses with chair's approval, except 101

Biological Sciences: no courses are offered for challenge Chemistry: all undergraduate courses, except laboratory courses

Communication: 101, 250, 252, 340, 350, and 445 Computer Sciences: all undergraduate courses with chair's approval

Early Childhood Education: no courses are offered for challenge

Economics: no courses are offered for challenge Education: all undergraduate courses with chair's approval

English: no courses are offered for challenge Environmental Studies: no courses are offered for challenge

Ethnic Studies: all 100 and 200 level courses with the director's approval

Family and Consumer Sciences: FCSA 150 Finance: no courses are offered for challenge

Flight Technology: all courses with departmental approval Foreign Languages: all undergraduate courses with chair's approval

Geography: no courses are offered for challenge Geology: no courses are offered for challenge

Health Education: HED 101 History: 101, 102, 103, 143, and 144 Humanities: 101, 102, and 103

Industrial and Engineering Technology: all undergraduate courses with chair's approval

Information Technology: 101, 204, 228, 248, 258, 268, and

Law and Justice: no undergraduate courses
Management: no courses are offered for challenge
Mathematics: all undergraduate courses numbered above
170

Military Science: all 100 and 200 level courses. Music: all undergraduate courses except applied lessons, class lessons, and performing groups

Nutrition: NUTR 101, 240, 240LAB, 340, 340LAB, 341, 345, 348, 440, 440LAB, 441, 442, 443, 444, 445, 446, 447, and 448

Paramedics: EMS 245, 319, and 345
Philosophy: all undergraduate courses
Physics: no courses are offered for challenge
Political Science: no courses are offered for challenge
Psychology: all undergraduate courses with the chair's approval

Recreation and Tourism: no courses are offered for challenge

Religious Studies: all undergraduate courses Safety Education: no courses are offered for challenge Social Science: no courses are offered for challenge Sociology: all 100 and 200 level courses with the chair's approval

Theatre Arts: 107, 166, 363, 364, 365, 371, 373, 381, and 383

#### **Course Substitutions**

Students may petition the appropriate department chair if they wish to substitute courses within degree requirements. The course used for substitution must be similar in content to the required course. The substituted course(s) credits may not reduce the total required credits. Permit to Substitute form can be obtained from the Registrar Services.

#### Academic Appeal

The student should be aware that procedures have been established to hear complaints regarding academic matters. The board of academic appeals exists to guarantee due process for academic grievances involving students, faculty, staff, and administrators. The academic appeals policy is established by the faculty senate and is administered by the associate vice president for student affairs.

#### **Required Participation in Assessment Activities**

Students are required to participate in assessment activities at several points during their academic careers. They will be assessed for placement into English 101, Math 101, and above upon entering CWU as freshmen. Students with deficiencies in English usage/reading or computation must correct them prior to enrolling in ENG 101 or MATH 101 and above, respectively.

Unless otherwise stated, all courses at CWU are taught in English.

Once accepted, international students may be evaluated by the ESL staff to determine whether additional English-as-a-Second-Language coursework will be required during attendance at CWU.

Students will be tested for proficiency in English usage, reading, and computation after the student has completed 90 credits but prior to accumulating 110 credits. Departments may establish their own requirements as long as they meet or exceed university standards. Departments may also require students with deficiencies to correct them before being accepted into their major.

Students will participate in an assessment of intended student outcomes of the general education program. Endof-major assessments are required prior to graduation.

### **Graduation Requirements**

Students are eligible for awarding of a bachelor's degree when they fulfill the following requirements.

#### Credits

- A minimum of 180 quarter credits is required for a baccalaureate degree; students should note, however, that some bachelor's degrees have requirements in excess of 180 credits. Central allows a maximum of 135 quarter (90 semester) credits to transfer from regionally accredited four-year institutions, including no more than 105 quarter (70 semester) credits of lower division (100-200 level) coursework from a regionally accredited community college. Additional coursework that exceeds this amount may be used to meet specific requirements, but additional credits will not be allowed to count toward the 180 credit requirement for graduation.
- A minimum of 60 credits of upper-division study is required. Upper-division courses are numbered 300 and 400. Credits earned in study at the lower division (courses numbered 100-299) will not be allowed toward meeting this requirement.
- Students must study on the university campus or at an established university center at least three quarters and earn a minimum of 45 credits. Credits earned through industrial experience, military experience, or through credit by examination may not be used to meet residency requirements.
- No more that 45 total quarter credits through CLEP or other sources of non-traditional credit may apply to graduation.
- Transfer students must earn from CWU a minimum of 10 credits in the major and, if a minor is declared, 10 credits in the minor.
- Cooperative education courses will apply toward graduation requirements, but in no case will a student be allowed to count more than 10 credits at the 290 level nor more than 20 total credits toward graduation requirements. No more than 10 credits are accepted in transfer. No more than eight credits may be applied to a graduate degree. Cooperative education courses may be repeated if field experience learning objectives and activities are distinctly different from previous work or field experience.

#### **Degree Components**

- The general education program must be completed as defined in the university catalog.
- Students transferring from Washington State community colleges holding the appropriate academic direct transfer associate degree will have met the general education program requirements.
- Completion of all requirements for a major as specified by the appropriate department, as defined in the university catalog, is required.

- Completion of a minor is required when the major is less than 60 credits. In that case the total credits of the major and minor must total a minimum of 60 credits.
- Foreign language requirement: students seeking the Bachelor of Arts (BA) degree must complete one year college/university study of a single foreign language or have completed two years high school study of a single foreign language.
- All professional education programs require completion of professional education courses in addition to completion of the major requirements.
- A student may be awarded more than one baccalaureate degree (BA, BAEd, BFA, BMUS, BS) at the same time provided that requirements of both the degree programs have been completed. Double majors within the same baccalaureate program do not constitute separate baccalaureate degrees. In disciplines offering multiple baccalaureate degrees with identical or similar names, e.g., BA or BS in Biology, only one degree will be awarded. Exceptions to this policy require approval by the department chair and the appropriate dean.

#### Scholastic Requirements

Graduation and graduation with honors are based on credits and grade point averages (GPA) earned at the time the degree is awarded. When a degree is awarded the academic record is frozen. Changes in grades made after the award of the degree have no effect on the degree. Final responsibility for meeting graduation requirements resides with the student.

- In order to graduate, students must have achieved a cumulative grade-point average of at least 2.0 (C) in courses taken at CWU.
- Students must also have achieved a cumulative grade point average of at least 2.25 in the major and 2.0 in the minor field of study. All courses fulfilling the major and minor requirements, including courses accepted in transfer, are used in computing the major and minor GPA.
- Before a degree is awarded students must be in good academic standing and cannot be on academic suspension.
- Specific degree and professional certification programs may have more stringent degree requirements than those specified above.

#### **Teacher Preparation Program**

- Cumulative grade point average of at least 3.0 for the last 45 graded credits, OR an overall (all colleges attended) cumulative grade point average of 3.0.
- Grade point average of at least 2.5 for major, minor, and professional education sequence.

#### **Application for Degree**

Degrees are not automatically awarded when requirements are completed. It is the responsibility of the student to apply for the degree in Registrar Services.

Application for the bachelor's degree must be submitted by the second Friday of the quarter preceding the quarter in which the degree is to be completed. Complete instructions and deadlines are available in Registrar Services and through university center offices. Step-bystep instructions may be found at www.cwu.edu/registrar/degree-checkout.

Final responsibility for meeting graduation requirements and deadline dates resides with the student. Exceptions to university graduation requirements must be petitioned to the registrar. An exception approval may be obtained from the general education committee, department, or program chair and college dean where appropriate. Exceptions to majors or minors and Teacher Certification Programs must be approved by the appropriate department chair and college dean or designee.

#### **Commencement Participation**

Students who have met graduation requirements during the current academic year, summer through winter quarters, and those expecting to meet the requirements during the current spring quarter or upcoming summer session, may participate in the spring graduation ceremony.

Application for graduation or receipt of a degree does not automatically qualify a student for commencement participation. Students must complete the online commencement registration form located on the Wildcat Shop's home page at cwubookstore.collegestoreonline.com prior to the published commencement participation deadline. Students should also review the information on the commencement website located at www.cwu.edu/registrar/commencement for the most current information on the commencement activities and procedures.

Students participating in commencement exercises must wear commencement regalia approved by the registrar. Exceptions to commencement procedures are approved by the registrar.

Students anticipating graduation the summer quarter following commencement exercises may participate in the graduation ceremony on a space-available basis.

Candidates for summer graduation who wish to participate in the spring commencement ceremony prior to issuance of a degree must submit an application for graduation prior to the spring quarter deadline and complete degree requirements by the end of summer quarter. Candidates who have applied for their degree the summer following the June commencement ceremony are not eligible for honors distinction nor will their degree be published in the commencement book until the following academic year.

#### **Graduation with Distinction**

The following conditions must be met in order to be considered for graduation with distinction:

At least 75 of the credits required for the degree must be earned at Central with a minimum of 60 credits in courses taken on the A-F grading scale.

Credits earned by course challenge, CLEP, and other national examinations, military experiences or courses, non-college courses, and industrial experience will not be allowed toward the 75-credit eligibility requirement.

Honors shall be based on the GPA of all credits earned at Central and all transfer credits accepted by CWU.

Baccalaureate honors are awarded to recipients of a first bachelor's degree according to the following standards:

3.5 to 3.69 - cum laude 3.7 to 3.89 - magna cum laude

3.9 to 4.00 - summa cum laude

Cum laude, magna cum laude, and summa cum laude will be noted on the recipient's diploma and university transcript.

For spring quarter degree candidates, the registrar will calculate the top percentage for the declared spring degree candidates based on the end of winter quarter data. Final determination of honors will be made after the spring quarter graduation ceremony when all grades are recorded.

Students completing degree requirements during the summer will not be eligible for honors recognition until the following spring commencement ceremony.

#### Other Distinctions

At least 75 of the credits required for the degree must be earned at Central with a minimum of 60 credits in courses taken on the A-F grading scale.

President's Scholars are those students who have cumulative GPAs in the top

1 percent of their respective college class. That GPA is calculated by existing university policy.

Dean's Scholars are those students who, in the current academic year, have cumulative GPAs in the top 5 percent of their respective college class (but not including the top 1 percent). GPA is calculated by existing university policy.

NOTE: Individual study majors will be computed with the College of Arts and Humanities majors.

#### **Concurrent Baccalaureate Degrees**

A student may be awarded more than one baccalaureate degree (BA, BFA, BAEd, BAS, BM, BS) at the same time provided that requirements of both degree programs have been completed. Double majors within the same baccalaureate program do not constitute separate baccalaureate degrees.

In disciplines offering multiple baccalaureate degrees with identical or similar names, such as BA and BS in biology, only one degree will be awarded. Exceptions to this policy require approval by the department chair and appropriate dean.

#### **Second Baccalaureate Degree**

Qualified students seeking second baccalaureate degrees are admitted to graduate status; this does not mean, however, that they are enrolled in an "advanced degree program." To receive a second baccalaureate degree, students must complete: (1) all degree

requirements not satisfied by the previous degree, and (2) a minimum of 45 quarter credits from Central.

Second baccalaureate students must be accepted into a degree or certificate program by the time they have earned 25 credits beyond their last degree. Once a degree objective has been declared, second baccalaureate students must develop graduation plans with academic advisors. Academic department chairs may grant extensions beyond the 25-credit limit. Second baccalaureate degree students follow regulations applicable to undergraduates.

Second baccalaureate degree students may request from the department that any requirement of a minor be satisfied by the initial bachelor's degree earned provided that the requirements of the minor were completed in prior course work.

CWU reserves the right to review a post-baccalaureate student's transfer work to determine fulfillment of requirements.

#### 2012-2013 General Education Program

#### MISSION, RATIONALE, AND STUDENT OUTCOMES

The general education program offers undergraduate students a liberal arts education in order to cultivate thoughtful and responsible persons and citizens, to prepare them for the world of work, and to teach them to pursue knowledge for its own sake. In order to accomplish those broad goals, the general education program seeks to promote effective reasoning, broad and deep learning, and the inclination to inquire.

#### **Effective Reasoning**

A comprehensive liberal education helps students to develop their abilities to recognize and to think clearly about important issues and questions. The ability to think clearly involves fluency in reading, writing, and oral communication, as well as mastery of the basic principles of logical, mathematical, and scientific reasoning.

#### **Broad and Deep Learning**

A liberally educated person should possess a rich and broad fund of meaningful knowledge as well as the ability to compare and integrate new or different areas of knowledge in fruitful ways. To that end, the general education curriculum imparts a broad understanding of the various liberal arts and sciences and the ways that those arts and sciences evolve. In much the same way, the curriculum aims to foster an appreciation of diversity as a rich source of new ideas and opportunities for learning. Through such studies, students may comprehend the inter-connectedness of knowledge and the importance of integrating knowledge gained from disparate parts of the curriculum.

#### The Inclination to Inquire

An education in the liberal arts fosters a student's commitment to seek out and acquire important knowledge and skills, both for their intrinsic value and for the good they contribute to our common and individual lives. For this reason, a disposition to ask incisive and insightful questions is perhaps the surest sign of a liberally educated mind.

The general education requirement offers a basic knowledge of mathematics and the natural sciences, including laboratory experience, intermediate knowledge of at least one foreign language, the study of the humanities, the political, philosophical and cultural history of world civilizations, and the foundations and principles of American society.

This mission statement reflects the standards promulgated by the American Academy for Liberal Education and CWU's Mission Statement.

#### **General Education Program Goals**

- 1. Students will become thoughtful and responsible members of society and stewards of the Earth.
- Students will respect diversity of background, experience and belief, and will value the different perspectives that this diversity brings.

- 3. Students will achieve fluency in reading, writing, oral communication, and information technology.
- 4. Students will master the basic principles of logical, mathematical, and scientific reasoning.
- 5. Students will develop an appreciation of the breadth and depth of scientific and humanistic knowledge.
- 6. Students will develop a sense of the interconnectedness of knowledge.
- 7. Students will integrate knowledge from diverse fields of study in order to solve real-world problems.
- 8. Students will become aware of the manifold ways that knowledge evolves.
- 9. Students will develop a disposition to ask incisive and insightful questions.

#### **Assessment of the General Education Program**

- 1. Students will be surveyed as to how well they think their courses addressed the mission of the general education program.
- 2. Instructors will be surveyed as to how well they think the course addressed the mission of general education.
- 3. Student achievement in general education classes will be evaluated regularly by means of examinations.

All courses taken to satisfy general education requirements must be taken for a letter grade.

#### BASIC SKILLS REQUIREMENT

All students must satisfy the following requirements in basic academic and intellectual skills:

- 1. UNIV 101, General Education Colloquium (1), or MUS 104, Introduction to Musical Studies (3). Only required of students who enter Central with fewer than 45 credits
- 2. ENG 101 (4) and ENG 102 (4). A grade of C- or better is required in ENG 101 before ENG 102 may be taken
- 3. Either MATH 101 (5), MATH 153 (5), MATH 154 (5), MATH 164 (5), MATH 170 (5), or MATH 172 (5);
- 4. Either MATH 102 (5), MATH 130 (5), PHIL 201 (5), or CS 105 (4);
- 5. One year of college or university study of a single foreign language or two years of high school study of a single foreign language. Courses used to satisfy this foreign language basic skills requirement may not be used to satisfy the Philosophies and Cultures of the World breadth requirement;
- 6. Either CS 101 Computer Basics (4) or IT 101 Computer Applications (3).

All students must have met these basic education requirements by the end of the quarter in which they complete 75 credits. (This does not include the foreign language basic skills requirement, which may require more time to complete.) Students who do not meet this standard will have a hold placed on further course registration. To remove the hold, the student must meet with an advisor and submit a program of study to plan successful completion of this requirement. The student's progress will then be monitored by an assigned academic advisor.

#### WRITING REQUIREMENT

Four of the courses taken to fulfill the breadth requirement must have the writing designation in the list below. These are courses which include at least seven pages of assigned writing that is assessed for content and mechanics (grammar, spelling, punctuation, and organization).

#### WILLIAM O. DOUGLAS HONORS

Students in the William O. Douglas Honors program should check with their advisor regarding the General Education requirements.

#### BREADTH REQUIREMENT

#### I. ARTS AND HUMANITIES

Students must take at least one course from each of the three groups. No more than one class from a single department may be counted toward this requirement.

#### Literature and Humanities

A grade of C- or better is required in ENG 101 before taking any of the courses in this category.

ABS 110 Expressive African American Culture (5)

ENG 105(W) The Literary Imagination: An Introduction to Literature (5)

ENG 247(W) Multicultural Literature (5)

ENG 347(W) Global Perspectives in Literature (5)

HUM 101(W) Exploring Cultures in the Ancient World (5)

HUM 102(W) Exploring Cultures from 16th Through 19th Centuries (5)

HUM 103(W) Exploring Cultures in Modern and Contemporary Societies (5)

#### The Aesthetic Experience

ART 101 Introduction to Western Art (5)

ART 102 Introduction to Non-Western Art (5)

FVS 250 (W) Introduction to Film and Video Studies (5)

MUS 101 History of Jazz (5)

MUS 102 Introduction to Music (5)

PED 161 Cultural History of Dance (4)

TH 101 Appreciation of Theatre and Film (4)

TH 107(W) Introduction to Theatre (4)

TH 375(W) Asian Drama (4)

TH 382(W) Ethnic Drama (4)

#### Philosophies and Cultures of the World

Foreign Languages 251 or 252 or 253. Second-year foreign language (same as studied in high school) (5), or

Foreign Languages 151 or 152 or 153, or CHIN 141 or 142 or 143. First-year foreign language (different than the one used to meet basic skills requirement) (5)

PHIL 101(W) Introduction to Philosophy (5)

PHIL 115(W) The Meaning of Life (5)

PHIL 202(W) Introduction to Ethics (5)

PHIL 209(W) Asian Philosophy (5)

PHIL 210(W) Current Ethical Issues (5)

PHIL 306(W) Environmental Ethics (5)

PHIL 378(W) The Philosophy of Love (5)

RELS 101(W) World Religions (5)

RELS 201(W) Sacred Books of the World (5)

#### II. SOCIAL AND BEHAVIORAL SCIENCES

Students must take at least one course from each of the three groups. No more than one class from a single department may be counted toward this requirement.

#### Perspectives on the Cultures and Experiences of the **United States**

An introduction to the institutions, cultures, and traditions of the United States intended to encourage a critical and analytical understanding of how the past affects the present and the future. An introduction to the complexities of social, economic, and political processes, issues, and events in the United States intended to provide a context for informed decision-making and citizenship.

AIS 101(W) Pre-contact Period of American Indians (5)

AIS 102(W) Contact Period of American Indians (5)

AIS 103(W) Emergence of Contemporary American Indians (5)

ECON 101 Economic Issues (5)

ECON 201 Principles of Economics Micro (5)

ETS 101(W) Ethnic Awareness (4)

HIST 143(W) US History to 1865 (5)

HIST 144(W) US History Since 1865 (5)

LAJ 102 Introduction to Law and Justice (5)

POSC 210 American Politics (5)

SOC 101(W) Social Problems (5)

SOC 305(W) American Society (5)

WS 201(W) Introduction to Women's Studies (5)

#### Perspectives on World Cultures

An introduction to institutions, cultures, and traditions of nations, groups, and societies outside the United States intended to encourage an understanding and appreciation of the dimensions of human diversity as well as similarities. An introduction to contemporary international and transnational issues intended to provide a broader perspective of the individual's relationship to other cultures and to common human concerns.

ANTH 130 Introduction to Cultural Anthropology (5)

AST 102(W) Introduction to Asian Studies (3)

COM 302(W) Intercultural Communication (4)

ECON 102(W) World Economic Issues (5)

GEOG 101 World Regional Geography (5)

HIST 101(W) World Civilization to 1500 (5) HIST 102(W) World Civilization: 1500-1815 (5)

HIST 103(W) World Civilization Since 1815 (5)

LLAS 102(W) Introduction to Latino and Latin American Studies (5)

POSC 270(W) International Politics (5)

#### Foundations of Human Adaptations and Behavior

An introduction to and analysis of the fundamental principles underlying human interaction intended to foster a better understanding of the human condition. An introduction to the fundamental patterns and understandings of human interaction with natural and man-made environments is intended to help students make informed judgments concerning broad environmental issues.

ANTH 107 General Anthropology (5)

ANTH 120 (W) Introduction to Archaeology (5)

FS 310 (W) Contemporary Family Issues (4)

FS 337 Human Sexuality (4)

GEOG 108 Introduction to Human Geography (5)

HED 101 Health Essentials (4)

POSC 101(W) Introduction to Politics (5)

PSY 101 General Psychology (5)

PSY 205(W) Psychology of Adjustment (5)

SOC 107(W) Principles of Sociology (5)

#### III. THE NATURAL SCIENCES

The natural sciences provide basic methods for rigorously describing and comprehending the natural world. Inquiry-driven laboratory and field observations are an essential mode of teaching, learning, and practicing natural science. Students must take at least one course from each of the three groups. No more than one class from a single department may be counted toward this requirement. It may be advantageous for students to take courses from groups in the order they appear below.

# Fundamental Disciplines of Physical and Biological Sciences

An introduction to those sciences that study the fundamentals of physical and life systems.

BIOL 101 Fundamentals of Biology and Lab (5)

CHEM 111/111LAB Introduction to Chemistry and Introductory Chemistry Laboratory (5)

CHEM 181/181LAB General Chemistry I and General Chemistry Laboratory I (5)

GEOL 101/101LAB Physical Geology and Lab (5)

PHYS 106 Physics by Inquiry/ Lab (5)

PHYS 111/111LAB Introductory Physics and Lab (5)

PHYS 181/181LAB General Physics and Lab (5)

#### Patterns and Connections in the Natural World

Those sciences that use a knowledge of basic scientific disciplines to examine large and complex physical and life systems.

ANTH 110 Introduction to Biological Anthropology (5) (ANTH 110LAB is optional)

BIOL 200(W) Plants in the Modern World and Lab (5)

BIOL 201 Human Physiology (5)

BIOL 300 Introduction to Evolution (5)

ENST 201 Earth as an Ecosystem (5)

GEOG 107 Introduction to Physical Geography (5)

GEOL 103/101LAB Geology of Washington and Lab (5)

GEOL 107 Earthquakes, Volcanoes, and Civilization (5)

GEOL 302 Oceans and Atmosphere (4)

PHYS 101 Introductory Astronomy I/

Lab (5)

PHYS 102 Introductory Astronomy II/

Lab (4)

#### **Applications of Natural Science**

These courses explicitly treat social, economic, technological, ethical, or other implications of natural phenomena, of human influence on natural systems, or of responsive scientific inquiry.

ANTH 314 Human Variation and Adaptation in Living Populations (4)

BIOL 302 Human Ecology (5)

CHEM 101 Contemporary Chemistry and Lab (5)

ENST 202 Ecosystems, Resources, Population, and Culture (5)

ENST 310(W) Energy and Society (5)

GEOG 273 Geography of Rivers (5)

GEOL 108 Introduction to Environmental Geology (5)

IET 101 Modern Technology and Energy (5)

NUTR 101 Introduction to Human Nutrition (5)

PHYS 103/ 103LAB(W) Physics of Musical Sound and Lab (5)

PHYS 108 Light and Color/ Lab (4)

STEP 101(W) Science Seminar I: Research Experience (2)\*

STEP 102(W) Science Seminar II: Interdisciplinary

Research Theme (2)\*

STEP 103(W) Science Seminar III: Current Topics (1)\*
\*Only open to freshmen students enrolled in the STEP program, and all three courses must be completed with a passing grade to receive credit for Applications of Natural Science breadth area.

#### **General Education Course Descriptions**

# ABS 110. Expressive African American Culture (5). An

American Culture (5). An interdisciplinary exploration of a variety of perspectives in African American folk culture, from oral expressions developed during slavery to contemporary rap and stand-up comedy. The course includes an overview of the worldwide contribution of black oral performative art.

Prerequisite: ENG 101 with a grade of C- or better. AH-Literature and Humanities.

#### AIS 101. Pre-contact Period of American Indians, Pre-AD 1492

(5). An interdisciplinary approach explores the lifeways and environments of American Indians prior to European contact and settlement. Sources of precontact information consist of the archaeological, oral history, and paleoenvironmental records. SB-Perspectives on U.S. (W).

# AIS 102. Contact Period of American Indians (5). An interdisciplinary study of the life ways and environments of American Indians during the period of European contact. Sources of contact period information come from the archaeological, American Indian and European written and oral

history records. SB-Perspectives

on U.S. (W).

AIS 103. Emergence of

Contemporary American Indians (5). An interdisciplinary approach explores the emergence of contemporary American Indians after AD 1890 with an emphasis on social, political, and cultural aspects. Sources of information about this period come from written and oral history. SB-Perspectives on U.S. (W).

#### ANTH 107. General Anthropology

(5). Human biological and cultural adaptations: survey of concepts, methods, and perspectives on past and present. SB-Found Human Adaptations.

ANTH 110. Introduction to Biological Anthropology (5). A survey of the history, philosophy and theory of biological anthropology including biological relationships to other primate forms, the fossil record, and evolutionary adaptations. Corequisite: ANTH 110LAB. NS-Patterns and Connection Natural.

#### ANTH 120. Introduction to

Archaeology (5). Introduction to the concepts, methods, and development of archaeology. SB-Found Human Adaptations (W).

# ANTH 130. Introduction to Cultural Anthropology (5).

Understanding human cultures: concepts, methods, and basic data involved in the comparative study of human cultural adaptations. SB-Perspective World Culture.

# ANTH 314. Human Variation and Adaptation in Living

Populations (4). Survey of genetic, morphological and physiological variability of living human populations and their biological source mechanisms. Current population dynamics are used to project future alternatives for change. Prerequisite: sophomore standing or above. NS-Application Natural Science.

#### **ART 101. Introduction to Western**

Art (5). The visual arts as an expression of the human experience. Does not apply to the art major. AH-Aesthetic Experience.

#### ART 102. Introduction to Non-

Western Art (5). A survey of non-western painting, sculpture, and architecture. This course does not apply to the art major. AH-Aesthetic Experience.

#### AST 102. Introduction to Asian

Studies (3). An interdisciplinary introduction to the study of Asia; emphasizing geography, history, culture, and economics. SB-Perspective World Culture (W).

#### BIOL 101. Fundamentals of

**Biology** (5). Biology in the modern world. NS-Fund Disc Phys and Biological (L). Four hours lecture and one two-hour laboratory per week. May not be

counted toward a major or minor in the department of biological sciences.

#### BIOL 200. Plants in the Modern

World (5). Plants and their significance in the world today. NS-Patterns and Connection Natural (W), (L). Three hours lecture and three hours laboratory per week. (Not open to majors in the biological sciences.) May not be counted toward a major or minor in the department of biological sciences.

#### BIOL 201. Human Physiology (5).

Organ systems of humans. NS-Patterns and Connection Natural. Not open to students with credit in BIOL 455; may not be counted toward a major or minor in the department of biological sciences.

#### BIOL 300. Introduction to

Evolution (5). The evidence, theories, and mechanisms of the evolution of life, including man. Prerequisite: sophomore standing or above. NS-Patterns and Connection Natural. May not be counted toward a major in the department of biological sciences.

#### **BIOL 302. Human Ecology** (5).

Basic concepts of ecology with emphasis on ecosystems and populations and how human activities and attitudes relate to these basic concepts. Prerequisite: sophomore standing or above. NS-Application Natural Science. May not be counted toward a major in the department of biological sciences.

#### CHEM 101. Contemporary

Chemistry (5). Chemical principles and their application to contemporary problems of human beings and their environment. NS-Application Natural Science (L). Four lectures and one laboratory session weekly.

#### CHEM 111. Introduction to

Chemistry (4). Chemical principles of the compositions, structure, properties, and changes of matter. Designed for students in certain health science programs. Four lectures weekly.

NS-Fund Disc Phys and Biological.

# CHEM 111LAB. Introductory Chemistry Laboratory (1). Introduction to basic chemistry techniques. One two-hour laboratory session weekly. Co- or prerequisite: CHEM 111. NSFund Disc Phys and Biological

#### CHEM 181. General Chemistry I

(4). This course introduces chemistry concepts such as atoms and molecules, stoichiometry, solution chemistry, thermochemistry, electronic structure of the atom and periodicity, and chemical bonding. Prerequisites: qualification for MATH 153 or math placement exam. High school chemistry is also a strongly recommended prerequisite. NS-Fund Disc Phys and Biological (L).

# CHEM 181LAB. General Chemistry Laboratory I (1). This laboratory supports hands-on, inquiry-based approaches to exploring topics presented in CHEM 181. Co- or prerequisite:

CHEM 181. Co- or prerequisite: CHEM 181. NS-Fund Disc Phys and Biological (L). One threehour lab session weekly.

#### COM 302. Intercultural

Communication (4). The objective of this course is to give the participants the skills and understanding necessary to improve communication with peoples of other nations and cultures. Prerequisite: sophomore standing or above. SB-Perspective World Culture (W).

#### CS 101. Computer Basics (4).

Integrated, project-based course using student-produced working materials in the form of a mini thesis. Microsoft Office tools are learned in a web-based practical application environment. Basic Skills 6 – Computing.

#### CS 105. The Logical Basis of Computing (4). Problem solving, algorithm development, complexity, computability.

complexity, computability.
Representation of algorithms as computer programs, data, ecision and control inherent sources of error. Basic Skills 5 – Logic.

**ECON 101. Economic Issues** (5). For the student who desires a

general knowledge of economics. Applications of economic principles to current social and political problems. SB-Perspectives. on U.S. ECON 101 cannot be substituted for either ECON 201 or 202.

#### ECON 102. World Economic Issues

(5). An introduction to current international issues related to international trade and finance, economic development, and comparative economic systems. SB-Perspective World Culture (W)

#### ECON 201. Principles of

Economics Micro (5). The function of the market system in the allocation of scarce resources, determination of prices and output in competitive and monopolistic markets, and distribution of income. The role of government in the market economy. SB-Perspectives on U.S.

# ENG 101. Composition I: Critical Reading and Responding (4).

Develops skills necessary for academic writing, including summarizing, reading sources critically and responding to them, synthesizing multiple perspectives, and using academic writing conventions. Prerequisite: appropriate test scores or have satisfactorily completed Transitional English. Basic Skills 2 - English Comp I. Required of all students except those who have passed an exemption examination. Students must earn a minimum grade of C- or above to enroll in ENG 102.

#### ENG 102. Composition II: Reasoning and Research (4).

Develops skills in research-based academic argument through assignments involving evaluation, analysis, and synthesis of multiple sources. Prerequisite: ENG 101 with a grade of C- or better. Basic Skills 3 – English Comp II.

#### ENG 105. The Literary

Imagination: An Introduction to Literature (5). Human experience as it is imagined, interpreted, and made significant in the poetry, prose, fiction, and drama of the major writers of the world. Prerequisite: ENG 101 with a

grade of C- or better. AH-Literature and Humanities (W).

#### ENG 247. Multicultural Literature

(5). Literary themes examined through the comparison of works from various cultures.

Prerequisite: ENG 101 with a grade of C- or better. AH-Literature and Humanities (W).

#### ENG 347. Global Perspectives in

Literature (5). An introduction to contemporary non-western and third world literature.

Prerequisites: ENG 101 with a grade of C- or better and sophomore standing or above.

AH-Literature and Humanities (W).

#### ENST 201. Earth as an Ecosystem

(5). Introduction to the concept of our planet as a finite environment with certain properties essential for life. The dynamic nature of the earth's physical, chemical, geological, and biological processes and their interrelated "systems" aspects furnishes the thrust of this treatment. NS-Patterns and Connection Natural.

#### ENST 202. Ecosystems, Resources,

Population, and Culture (5). The physical and cultural dimensions of environmental problems with particular emphasis given to the interaction between ecosystems, basic resources, population dynamics, and culture. NS-Application Natural Science.

#### ENST 310. Energy and Society (5).

Through classroom and field experience, students will examine society's use of, and dependence upon, energy. Students will become more discerning citizens, able to take part in local, national, and global energy discussions. Prerequisite: sophomore standing or above. NS-Application Natural Science (W).

#### ETS 101. Ethnic Awareness (5).

Awareness and understanding of the problems facing the American people in the area of race and ethnic relations, primarily focusing on ethnic minorities. The nature and scope of relationships between minority groups and the majority in the United States. SB-Perspectives on U.S. (W).

#### FS 310. Contemporary Family

Issues (4). An introduction to social issues that impact family life. Current issues pertaining to individual and family relationships are assessed from an interdisciplinary perspective. SB-Found Human Adaptations (W). Meets the General Education writing requirement.

FS 337. Human Sexuality (4). The biophysical, psychosocial, and behavioral aspects of sexuality with emphasis on making responsible sexual decisions and promoting healthy relationships. Prerequisite: sophomore standing or above. SB-Found Human Adaptations.

FVS 250. Introduction to Film and Video Studies (5). Overview of film and video studies, including film viewing and analysis, motion picture language, film genres, and production aspects. Emphasis on the social context, cultural influences, and aesthetic qualities of film. Prerequisite: ENG 101 with a grade of C- or better. AH-Aesthetic Experience (W).

GEOG 101. World Regional
Geography (5). Regions and
nations of the world together
with the changing elements of the
physical and human environment
that support them. SBPerspective World Culture.

GEOG 107. Introduction to
Physical Geography (5). The
complex weather, climate, water,
landforms, soils, and biota of
Earth's physical environments
over space and time. Four hours
of lecture and two hours of
laboratory each week. NSPatterns and Connection Natural.

GEOG 108. Introduction to Human Geography (5). Distribution and spatial variation of population, settlement patterns, cultural elements of language, religion, and lifeways, and the economic and political organization of the planet. SB-Found Human Adaptations.

GEOG 273. Geography of Rivers
(5). Global, regional, and local physical and cultural patterns and processes within river basins. NS-Application Natural Science.

GEOL 101. Physical Geology (4).

An introduction emphasizing the origin and nature of the common rocks and the continually changing features of the earth's crust. Four lectures per week. Coor prerequisite: GEOL 101LAB. NS-Fund Disc Phys and Biological.

GEOL 101LAB. Physical Geology Laboratory (1). Application of map study to geological processes and land forms, identification of rocks and minerals, and local field trips. Two hours laboratory per week. Corequisite: GEOL 101 or GEOL 102 or GEOL 103. NS-Fund Disc Phys and Biological (L).

GEOL 103. Geology of
Washington (4). Fundamentals of
geology applied to the state of
Washington. Topics include
Washington's volcanic,
earthquake, tectonic, and glacial
activity. Four lectures per week.
Corequisite: GEOL 101LAB. NSPatterns and Connection Natural.

GEOL 107. Volcanoes,

Earthquakes, and Civilization (5). The role of natural geologic processes such as volcanoes, earthquakes, and climate change in shaping the earth, the environment and human civilization. NS-Patterns and Connection Natural Four hour lecture per week plus required field trips.

GEOL 108. Introduction to
Environmental Geology (5).
Interaction between human
activity and geological processes.
Scientific discussion of global
environmental issues such as
ozone depletion, climate change,
geologic hazards, natural
resources, and water use. NSApplication Natural Science.

GEOL 302. Oceans and

Atmosphere (4). Introduction to Earth's climate and the hydrologic cycle through study of the ocean-atmosphere system. Chemical and physical changes will be studied over time scales ranging from millions of years to days. Will include a field trip. Prerequisite: sophomore standing or above. NS-Patterns and Connection Natural.

**HED 101. Health Essentials** (4).

Fundamental patterns and understanding of human interaction with natural and man made environments intended to help students make informed judgments. SB-Found Human Adaptations.

HIST 101. World Civilization to
1500 (5). Origins and
development of the major world
civilizations to the 15th century.
A comparative study of their
political, social, and economic
institutions, and their religious
and intellectual backgrounds. SBPerspective World Culture (W).
Meets the General Education
writing requirement.

HIST 102. World Civilization:
1500-1815 (5). A comparative survey of political, social, economic, and cultural developments. SB-Perspective World Culture (W). For general education (breadth) credit, it is preferred that a student be enrolled in or have completed ENG 101. Meets the General Education writing requirement.

HIST 103. World Civilization
Since 1815 (5). A comparative survey of political, social, economic, and cultural developments. SB-Perspective World Culture (W). For general education (breadth) credit, it is preferred that a student be enrolled in or have completed ENG 101. Meets the General Education writing requirement.

HIST 143. United States History to 1865 (5). The Colonial,
Revolutionary, and National periods. SB-Perspectives on U.S.
(W). Meets the General Education writing requirement.

HIST 144. United States History
Since 1865 (5). Reconstruction,
Industrial America, and 20thcentury urban America. SBPerspectives on U.S. (W). For
general education (breadth)
credit, it is preferred that a
student be enrolled in or have
completed ENG 101.

HUM 101. Exploring Cultures in the Ancient World (5). An interdisciplinary exploration from literature, history, philosophy, and the arts of selected major ancient civilizations in Asia, Africa, Europe, and the Americas from their beginnings through the 15th century. Prerequisites: ENG 101 with a grade of C- or better. AH-Literature and Humanities.

#### HUM 102. Exploring Cultures From 16th through 19th Centuries (5). An interdisciplinary exploration of

interdisciplinary exploration of selected literature, history, philosophy, and the arts in Asia, Africa, Europe, and the Americas from the 16th through the 19th centuries. Prerequisites: ENG 101 with a grade of C- or better. AH-Literature and Humanities.

# HUM 103. Exploring Cultures in Modern and Contemporary Societies (5). An interdisciplinary exploration of literature, history, philosophy, and the arts of selected world civilizations of the 20th century. Prerequisites: ENG 101 with a grade of C- or better. AH-Literature and Humanities.

IET 101. Modern Technology and Energy (5). A study of how basic scientific principles are applied daily in industrial societies through a survey of transportation, energy and power, construction, and consumer product technologies. NS-Application Natural Science.

# IT 101. Computer Applications (3). Basic skills in Windows, word processing, spreadsheets, databases, and presentations. Basic Skills 6 – Computing.

LAJ 102 - Introduction to Law and Justice (5). This course will focus on the role of law in society and will examine both the criminal and civil law system, as well as, the function of law in social change and social control. SB-Perspectives on Cultures and Experiences of U.S.

LLAS 102. An Introduction to
Latino and Latin American
Studies (5). A multi-disciplinary
introduction of Latino and Latin
American studies, presented in
three main components: People
and the Land, The Environment
and the Human Condition, and
Socio-Political Spectrum. SBPerspective World Culture (W).

MATH 101. Mathematics in the Modern World (5). Selected topics from the historical development and applications of mathematics together with their relationship to the development of our present society.

Prerequisites: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class. Basic Skills 4 – Math.

MATH 102. Mathematical
Decision Making (5). Selected
topics from probability, statistics
and mathematical decision
making with real-world
application. Prerequisites: either
at least 500 on the SAT, 19 on the
ACT, a Compass test score of
either 50-Pre-Algebra, 26Algebra, 31-College Algebra, or
31-Trigonometry, or completed
MATH 100B or a higher level
math class. Basic Skills 5 – Logic.

#### MATH 130. Finite Mathematics (5).

The language of sets, counting procedures, introductory probability, and decision making, introductory descriptive statistics. Meets General Education "reasoning" requirement and prepares student for introductory statistics courses in various departments. Prerequisites: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class. Basic Skills 5 - Logic.

#### MATH 153. Pre-calculus

Mathematics I (5). A foundation course which stresses those algebraic and elementary function concepts together with the manipulative skills essential to the study of calculus. Prerequisites: either MATH 100C with a grade of C or better; or a score of 18 or better on the Intermediate Math Placement Test, or a score of 66 or better on the Compass Algebra test. Basic Skills 4 – Math.

MATH 154. Pre-calculus
Mathematics II (5). A
continuation of MATH 153 with
emphasis on trigonometric
functions, vectors, systems of

equations, the complex numbers, and an introduction to analytic geometry. Prerequisites: either MATH 153 with a grade of C or better, a score of 17 or better on the Advanced Math Placement Test, or a score of 46 or better on the Compass College Algebra Test. Basic Skills 4 – Math.

MATH 164. Foundations of
Arithmetic (5). Structure of the real number system. Properties of and operations on integers, rationals, decimal representation, percentages, proportion, graphing, and elementary problem solving. Recommended for the prospective elementary school teacher. Prerequisites: 45 earned credits, and either at least a 500 on the SAT, a 19 on the ACT, or a score of 50 on the Compass test. Basic Skills 4 – Math.

#### MATH 170. Intuitive Calculus (5).

An intuitive approach to the differential and integral calculus specifically designed for students in the behavioral, managerial, and social sciences. Prerequisites: either MATH 153 with a grade of C or better or a score of 19 or better on the Advanced Placement Test. Basic Skills 4 – Math. Not open to students with credit for MATH 172 or higher.

MATH 172. Calculus I (5). Theory, techniques, and applications of differentiation and integration of the elementary functions.

Prerequisites: either MATH 154 with a grade of C or better, a score of 19 on the Advanced Math Placement Test, or a score of 46 or better on the Compass Trigonometry test. Basic Skills 4 – Math.

#### MUS 101. History of Jazz (5).

America's only indigenous art form, late 1800s to present.
Emphasis on artists and cultural/ societal forces shaping music's evolution. Extensive listening, reading; required attendance of performances. AH-Aesthetic Experience.

#### MUS 102. Introduction to Music

(5). Fundamental musical concepts (melody, harmony, rhythm, form, etc.) through illustrations of the instrumental and vocal music of major

composers from the earliest period through the present day. AH-Aesthetic Experience.

# MUS 104. Introduction to Musical Studies (3). Attitudes and concepts relevant to the music profession. Listening repertoire and reference materials. Designed for entering music majors. Basic Skills 1 - GenEd Colloq.

NUTR 101. Introduction to Human Nutrition (5). Fundamental nutritional concepts as related to health. Four hours lecture and one hour discussion per week. NS-Application Natural Science.

PED 161. Cultural History of Dance (4). A survey course in the evolution of dance through the ages with emphasis on the major forces that have influenced dance in the 20th century. AH-Aesthetic Experience.

PHIL 101. Introduction to
Philosophy (5). Introduction to
the basic themes, thinkers, and
topics of philosophy. The mindbody problem, good versus evil,
knowledge, truth, goodness, and
beauty. AH-Philosophies &
Culture World (W).

PHIL 115. The Meaning of Life (5). Original sources from diverse philosophical traditions explore various responses to the question of the meaning of life, considering the most significant human aspirations and values. AH-Philosophies & Culture World (W).

#### PHIL 201. Introduction to Logic

(5). Formal principles, methods and techniques for analyzing, constructing, and evaluating arguments. Topics include validity, soundness, truth tables, Venn diagrams, syllogisms, and logical symbolism. Basic Skills 5 – Logic.

#### PHIL 202. Introduction to Ethics

(5). Examine some main traditions of ethics, such as Christian ethics, Buddhist ethics, Confucian ethics, ethical absolutism and relativism, utilitarianism, deontology, and feminist ethics. AH-Philosophies & Culture World (W).

**PHIL 209. Asian Philosophy** (5). Examination of selected classical

and/or contemporary issues and questions in Chinese, Japanese and Indian philosophy. AH-Philosophies & Culture World (W).

#### PHIL 210. Current Ethical Issues

(5). Contemporary ethical theories from diverse traditions applied to current ethical problems. Recent ethical approaches to euthanasia, abortion, capital punishment, affirmative action, and environmental concerns. AH-Philosophies & Culture World (W).

#### PHIL 306. Environmental Ethics

(5). An examination of various positions on the human relationship with the natural environment, from ancient and contemporary, western and non-western, as well as interdisciplinary perspectives. Prerequisite: sophomore standing or above. AH-Philosophies & Culture World (W).

#### PHIL 378. Philosophy of Love (5).

A study of various concepts of love as they occur in philosophy, literature, and other cultural expressions. The nature of romantic love, eros, agape, friendship, and fellow feeling will be discussed. Prerequisite: sophomore standing or above. AH-Philosophies & Culture World (W).

#### PHYS 101. Introductory

Astronomy I (5). An inquiry-based introduction to celestial motions, celestial objects, observational astronomy and the physics associated with each. Emphasis on stars and planets. NS-Patterns and Connection Natural (L). This is an activity-based lecture/ lab course.

#### PHYS 102. Introductory

Astronomy II (4). An inquiry-based introduction to celestial motions, celestial objects, observational astronomy and the physics associated with each. Emphasis on stars and planets. This is a single activity-based course combined with lecture and lab. NS-Patterns and Connection Natural (L).

PHYS 103. Physics of Musical Sound (4). Basic physical principles of sound and vibration; how and why musical instruments produce their sounds. Topics include sound analysis techniques, room acoustics, musical scales, and the perception of sound. Corequisite: PHYS 103LAB. NS-Application Natural Science (L) (W).

PHYS 103LAB. Physics of Musical Sound Laboratory (1). Corequisite: PHYS 103. NS-Application Natural Science (L).

PHYS 106. Physics Inquiry (5). An introduction to fundamental physics topics in matter, motion, electricity, and magnetism. NS-Fund Disc Phys and Biological (L).

PHYS 108. Light and Color (4). An introduction to topics in light and color with applications to technology in the arts. NS-Application Natural Science (L).

PHYS 111. Introductory Physics
(4). Topics in physics including kinematics and dynamics.
Analyzing physical systems using algebra and trigonometry. Not open to students with credit in PHYS 181. Co-requisite: PHYS 111LAB. Prerequisites: either eligibility for MATH 154 based on the Math Placement Test, or MATH 153 with a grade of C or better. NS-Fund Disc Phys and Biological.

# PHYS 111LAB. Introductory Physics Laboratory (1). Investigation of topics in physics including kinematics and dynamics. Co-requisite: PHYS 111. NS-Fund Disc Phys and Biological (L).

PHYS 181. General Physics (4).
Topics in physics including kinematics and dynamics.
Analyzing physical systems using algebra, trigonometry, and calculus. Co-requisite: PHYS 181LAB. Co- or prerequisite: MATH 172. NS-Fund Disc Phys and Biological.

PHYS 181LAB. General Physics Laboratory (1). Investigation of topics in physics including kinematics and dynamics. Corequisite: PHYS 181. NS-Fund Disc Phys and Biological (L).

POSC 101. Introduction to Politics (5). The basic ideas around which political debate revolves and

from which political institutions evolve. SB-Found Human Adaptations (W).

POSC 210. American Politics (5).

Origin and development of the United States government; structure, political behavior, organizations, and processes; rights and duties of citizens. For general education (breadth) credit, a student must be enrolled in or have completed ENG 101.

SB-Perspectives on U.S.

# POSC 270. International Politics (5). Conditions and principles governing the contemporary nation-state system. SB-Perspective World Culture (W).

PSY 101. General Psychology (5).

An introduction to the science of behavior. SB-Found Human Adaptations.

PSY 205. Psychology of
Adjustment (5). The nature of the
adaptive process and the means
by which people adjust to their
environment. SB-Found Human
Adaptations (W).

RELS 101. World Religions (5).
Survey of the major world
religions (Judaism, Christianity,
Islam, Hinduism, Buddhism,
Confucianism, Daoism),
including their tenets, practices,
and evaluation of the human
condition. AH-Philosophies and
Culture World (W).

RELS 201. Sacred Books of the World (5). Comparative study of religious thought and literature from eastern and western classics: Upanishads, Bhagavad-Gita, Dhammapada, Tao Te Ching, Hebrew Bible, New Testament, Koran. AH-Philosophies and Culture World (W).

soc 101. Social Problems (5). An introduction to the study of contemporary issues such as poverty, military policies, families, crime, aging, racial, ethnic conflict, and the environment. SB-Perspectives on U.S. (W)

**SOC 107. Principles of Sociology** (5). An introduction to the basic

concepts and theories of sociology with an emphasis on the group aspects of human behavior. SB-Found Human Adaptations (W).

SOC 305. American Society (5).

Introduction to the social structure and processes of American society; emphasis on institutions such as government, family, schools, and religion, and processes such as conflict, change, stratification, mobility, and communication. Prerequisite: sophomore standing or above. SB-Perspectives on U.S. (W).

STEP 101. Science Seminar I:

Research Experience (2). First
course in three-quarter freshman
science series. Students gain
practical introduction to the
scientific process through
designing and conducting
experimental, laboratory and
field investigations. Students
must take STEP 101, 102, and 103
to receive credit for Applications
of Natural Science breadth area.
Prerequisite: enrollment in STEP
Program. NS-Application
Natural Science (W).

STEP 102. Science Seminar II:
Interdisciplinary Research
Theme (3). Second course in
three-quarter freshman science
series. Students will take an
interdisciplinary approach
toward a class research project
centered on a single theme.
Students must take STEP 101,
102, and 103 to receive credit for
Applications of Natural Science
breadth area. Prerequisites: STEP
101 and enrollment in STEP
Program. NS-Application
Natural Science (W).

STEP 103. Science Seminar III:
Current Topics (1). Third course in three-quarter freshman science series. Topical survey of active research efforts by faculty and students in science, technology and mathematics fields at CWU. Students must take STEP 101, 102, and 103 to receive credit for Applications of Natural Science breadth area. Prerequisites: STEP

102 and enrollment in STEP Program. NS-Application Natural Science (W).

TH 101. Appreciation of Theatre and Film (4). Viewing, discussing, and comparing film and live theatre performance. AH-Aesthetic Experience.

TH 107. Introduction to Theatre (4). Overview of the basic elements of the theatre arts and dramatic structure, and the environment for production of plays. Attendance at assigned outside events is required. AHAesthetic Experience (W).

TH 375. Asian Drama (4). Survey of the traditional theatre, puppetry, and dance-drama forms of Asia. Historical development. Cultural and aesthetic aspects of the text in performance. Influence on contemporary world theatre. Prerequisite: sophomore standing or above. AH-Aesthetic Experience (W).

TH 382. Ethnic Drama (4). Study of contemporary American multicultural plays by people of color and other ethnic groups.

Prerequisite: sophomore standing or above. AH-Aesthetic Experience (W).

UNIV 101. Academic Advising
Seminar (1). This course is
designed for students to learn
about the mission of the general
education program and majors in
order to make informed academic
decisions and discover
opportunities for personal
growth. Basic Skills 1 - GenEd
Colloq.

WS 201. Introduction to Women Studies (5). A survey of women studies from an interdisciplinary perspective. Basic terms, concepts, theories, and research methodologies will be introduced. Gender-related issues will be examined from the historical, cross-cultural, and cross-national perspectives. SB-Perspectives on U.S. (W).

#### **College of Arts and Humanities**

#### Administration and Organization

#### Dear

Marji Morgan, PhD (Hebeler Hall, room 202)

#### Associate Dean

Michael Chinn, MFA (Hebeler Hall, room 202)

509-963-1858 Fax: 509-963-1851 www.cwu.edu/ arts/

#### Overview

The College of Arts and Humanities (CAH) is comprised of 12 departments and programs, which represent the disciplines of the arts and humanities. All of the departments and some of the programs of CAH offer undergraduate degrees as well as minors which supplement other degree programs. Five departments offer Master's degrees. In addition to its role in providing degree programs, CAH is responsible for many of the course offerings of the general education programs as well as extensive service coursework for the entire university. The college also plays a major role in Central's teacher education programs, offering bachelor's and master's degrees for students preparing to be secondary teachers and providing coursework in educational foundations and discipline-specific methods for teacher education majors. Building on a legacy of teaching excellence, college faculty are engaged in research, creative activities and service, involving students in the scholarship and practical applications of their various academic specializations, while making important contributions to the intellectual tradition and to society at large. There are no special requirements for admission to the college, but some departments have requirements that are described under the respective department and program headings in the catalog.

#### Mission

The College of Arts and Humanities advances knowledge, promotes intellectual inquiry, and cultivates creative endeavor among students and faculty through teaching informed by scholarship, creative activity, and public and professional involvement. We are committed to helping students develop intellectual and practical skills for responsible citizenship and the challenges of contemporary life in a global society. The college offers disciplinary and interdisciplinary programs of the highest quality, acts as a steward of the foundational disciplines upon which all inquiry is based, and serves as a cultural

center for arts and humanities for the university and the region.

#### Vision

The College of Arts and Humanities will be recognized as a distinguished learning community known regionally for scholarly and creative excellence, innovative, and rigorous foundational liberal arts education, and undergraduate and graduate programs that are outstanding and unique in the state.

#### **Departments and Programs**

Africana and Black Studies: Bobby Cummings, PhD (Michaelsen Hall, room 104)

Art: Gregg Schlanger, MFA (Randall Hall, room 100) Asia/ Pacific Studies Program: Jeffrey Dippman, PhD (Language and Literature Bldg., room 337C) and Yukari Amos (Black 214-5)

Communication: Phil Backlund, PhD (Bouillon Hall, room 232A)

English: George Drake, PhD (Language and Literature Bldg., room 423)

Film and Video Studies Program: Michael Ogden, PhD (Bouillon Hall, room 225)

Foreign Languages: Joshua Nelson, PhD (Language and Literature Bldg.,

room 102)

History: Karen Blair, PhD (Language and Literature Bldg., room 100)

Latino and Latin American Studies Program: Stella Moreno, PhD (Language and Literature Bldg., room 102J) and Christopher Schedler, PhD (Language and Literature Bldg., room 416E)

Music: Todd Shiver, DMA (Jerilyn S. McIntyre Music Building, room 144)

Philosophy and Religious Studies: Heidi Szpek, PhD (Language and Literature Bldg., room 337)

Theatre Arts: Scott Robinson, MFA (McConnell Hall, room 106)

#### **Affiliated Programs**

American Indian Studies
Toni Culjak, PhD
Language and Literature Building

Language and Literature Building, room 408A

Environmental Studies Anne Johansen, PhD Science, room 207A

Ethnic Studies Nelson Pichardo, PhD Farrell, room 440

Women's and Gender Studies Cynthia Coe, PhD Language and Literature Building, room 318

#### **College of Business**

#### Administration and Organization

#### Dear

Roy Savoian, PhD (Shaw-Smyser Hall, room 129)

#### Associate Dean

Laura Milner, PhD (Shaw-Smyser Hall, room 126)

509-963-1955 Fax: 509-963-3042 www.cwu.edu/business

#### Vision

CWU's College of Business will be recognized as a premier learning community creating an environment in which students, faculty, and staff reach their full potential.

#### Mission

CWU's College of Business faculty and staff create value and opportunity for our students by focusing on quality in undergraduate education at the Ellensburg campus and university centers in the Puget Sound and central regions of Washington State. We accomplish this through emphasis on excellence in teaching, strengthened by faculty research and supported by professional service.

#### **Our Shared Values**

The faculty and staff of the CB share a set of core beliefs and commitments.

#### We believe in:

- Student success
- Lifelong learning
- Integrity and ethical behavior
- Excellence

#### We commit ourselves to:

- Prepare students for the future
- Impart knowledge on which students can build
- Treat everyone with respect and fairness
- Exemplify our values by serving as teachers and role models
- Maintain currency in our academic disciplines and professional fields
- Engage in scholarly activities that contribute to the body of knowledge in our disciplines

#### Statement of Conduct

The College of Business is a learning community committed to a set of core values based on integrity, respect, and responsibility that guide our interactions.

- Integrity: The quality of possessing and steadfastly adhering to high moral principles or professional standards.
- **Respect:** To show consideration or thoughtfulness in relation to others.
- Responsibility: The state, fact, or position of being accountable and responsible.

#### **Code of Honor**

As College of Business students we pledge to uphold these standards of professionalism and conduct ourselves in accordance with them. We will not lie, cheat, or steal, and will not tolerate those who do. Our behavior defines who we are and what we will become.

#### **Programs**

The College of Business offers programs leading to the bachelor of science degree in the following areas:

- · Bachelor of Science, Accounting
- Bachelor of Science, Business Administration with specializations in:

Finance

General Business

Human Resource Management

Management and Organization

Marketing Management

Supply Chain Management

 Bachelor of Science, Economics with specializations in: Economic and Business Forecasting General Economics

Managerial Economics

The college also offers a Master of Professional Accountancy degree through the graduate school. Students may take their junior and senior years of the accounting and business administration programs at two Puget sound-area centers: Lynnwood and Des Moines. In addition, upper-division coursework in support of major programs is offered at three Eastern Washington centers: Wenatchee, Moses Lake, and Yakima. Please refer to departmental listings in this catalog for more information about each major.

#### **Admission Requirements**

Admission requirements to major programs within the College of Business are identical regardless of the location of the program. Students must first be accepted by the university and, if applicable, the university center which they plan to attend. Then, students must formally apply to the College of Business and be admitted to a major program prior to enrolling in 300- and 400-level courses within the college. Application forms are available on-line as well as at CWU Centers and at the Ellensburg main campus department offices. The application form must be completed and returned to the appropriate office along with copies of current transcripts. Applications are accepted at new student orientations. The applicant must be in good academic standing.

If a student has met the requirements of admission but has struggled to do so, the College of Business reserves the right to offer conditional admission status for up to 2 quarters and/ or 30 credits in order for the student to demonstrate she/ he will be successful. Final admission to the College of Business under these circumstances is not guaranteed. Business courses taken to fulfill the requirements for an undergraduate or graduate degree from the CWU College of Business must have been taken within the last 10 years at the time of graduation. Exceptions may be made, but must be approved prior to acceptance into the College of Business by the department chair and dean or designee. Students wishing to have credits from non-United States institutions considered for transfer into the College of Business for any major or minor must have their transcripts evaluated through

outside credential evaluators who are members of the National Association of Credential Evaluation Services (NACES), such as the Foundation for International Services (FIS), the World Education Service (WES), or Educational Perspectives with those endorsed by the Washington Society of CPAs preferred. Credits for current students participating in a CWU study abroad program will be evaluated by the Study Abroad office.

#### **Transfer Credits**

Equivalent lower-division (100-200 level) courses may be transferred toward meeting the pre-admission requirements for any BS degree in the college. Upper-division (300-400 level) courses may be transferred toward meeting the major requirements only with the approval of the department chair and the college dean (or designee).

#### **Separation Policy**

If a student that has been admitted to the College of Business is placed on academic probation, suspension, received multiple academic warnings, or has repeat academic course withdrawals, then the student's admission into the College of Business may be rescinded. Once rescinded, the student will be denied readmission to the College of Business for one year following which a written petition for readmission must be presented. The

decision to readmit will be based on meeting current admission standards, analysis of the entire academic record, as well as any other sources of information deemed appropriate. Readmission is not guaranteed.

#### Service to Other Majors

Students majoring in programs outside CB who are required to take courses in this college for either their major or minor will be eligible to enroll on a space-available basis. These students will be given priority over other non-college majors wishing to enroll in courses. All students must have taken prerequisites for courses prior to enrollment.

#### **Departments and Programs**

Accounting: Marvin Bouillon (Shaw-Smyser Hall, room 340)

Economics: Robert Carbaugh and Koushik Ghosh (Shaw-Smyser Hall, room 428)

Finance and SCM: Eldon Johnson (Lynnwood Center,

Snoqualmie Hall, room 302S)

Management: Mark Pritchard (Shaw-Smyser Hall, room 333)

#### **College of Education and Professional Studies**

#### Administration and Organization

#### Dean

Connie Lambert, PhD (Black Hall, room 228)

#### Interim Associate Dean

Bill Bender, PhD (Black Hall, room 228) 509-963-1411

Fax: 509-963-1049

www.cwu.edu/ education-professional-studies
The primary role of the College of Education and
Professional Studies (CEPS) is to support the mission of
the university by offering and supporting educational
opportunities of the highest quality for students. The
mission of the college is to prepare enlightened leaders for
the professions and for society-leaders who will commit
themselves to socially responsible citizenship in a global
society. From the college's perspective, its role is fulfilled
by creating and nurturing an academic environment
where quality and excellence are synonymous with
achievement. Each academic unit of the college has
developed specific goals and objectives to complement
this mission.

#### Departments

Advanced Programs: Henry Williams, EdD (Black Hall, room 241-25)

Aerospace Studies (AFROTC): Jason Densley, Lt. Colonel, USAF (Peterson Hall,

room 203)

Aviation: Amy Hoover, PhD (Black Hall, room 225-1) Education Foundations & Curriculum: Barry Donahue, EdD (Black Hall, room 101)

Family and Consumer Sciences: Rob Perkins, PhD and Dorothy Chase, PhD (Michaelsen Hall, room 100)

Industrial and Engineering Technology: Michael Whelan, PhD (Hogue Hall,

room 107)

Information Technology and Administrative Management: Robert Lupton, PhD (Shaw-Smyser Hall, room 203)

Language, Literacy, and Special Education: Carol Butterfield, PhD and Dan Fennerty, PhD (Black Hall, room 205)

Military Science (ROTC): Jay Cook, Major (Peterson Hall, room 202G)

Physical Education, School and Public Health: Kenneth Briggs, EdD (Physical Education Bldg., room 114)

Nutrition, Exercise and Health Sciences: Vincent Nethery, PhD (Physical Education Bldg., room 114)

Teaching Elementary, Adolescent and Young Children: Virginia Erion, PhD (Black Hall, room 101)

#### **Center for Teaching and Learning**

The Center for Teaching and Learning (CTL) is the National Council for Accreditation of Teacher Education (NCATE) accredited unit that provides oversight for all CWU school personnel preparation programs. The CTL is intended to facilitate communication between and among the respective disciplines that contribute to the preparation of educators. CTL programs include the preparation of teachers, school administrators, school counselors, and school psychologists.

The mission of the center is played out through its theme: Preparing Facilitators of Learning in a Diverse World. To accomplish this mission, private and public school teachers, administrators, counselors, and psychologists from around the state join university faculty who represent the three colleges mentioned above, to establish a professional community. This professional community reaches all corners of CWU and extends to the world of schooling.

Representatives of this professional education community merge under the aegis of the CTL to: (1) design, deliver, and renew candidate recruitment, admission, and retention policies, and procedures; (2) to assess, as an aggregate, candidate knowledge, skills, and dispositions; and (3) to evaluate the efficacy of the CTL for the purpose of maintaining a state approval and national accreditation status.

#### Conceptual Framework

Supporting the mission, purpose, and governance structure of the CTL is the constructivist philosophy. This philosophy asserts that:

- Knowledge is actively created by the learner
- Knowledge is constructed or made meaningful when learners relate new information to prior knowledge or existing structures of knowledge
- Knowledge constructs are shaped by experience and social interaction
- Members of a culture collaboratively establish knowledge.

The CTL director is Connie Lambert. For information about the School Administrator program, contact the Department of Advanced Programs. For information about the school counselor and school psychologist programs, contact the Department of Psychology.

#### **Teacher Certification Program General Information**

The Teacher Certification Program is administered through CEPS and the CTL executive board. The provost/ vice president for academic and student life in collaboration with the CEPS dean appoints faculty to serve on the advisory council, which advises the CTL executive board on program policies.

#### **Admission Requirements**

Admission to the university does not guarantee a student admission into the Teacher Certification Program. Students must be at least conditionally admitted to the Teacher Certification Program prior to enrolling in any courses required in an Education-related amjor and/or minor. Students must be fully admitted to the Teacher Certification Program prior to enrolling in any of the Professional Education Program courses housed within the Educational Foundations and Curriculum Department (Black Hall, room 101).

The processing of applications takes time. To insure the thorough review of transcripts, recommendation forms, etc., it is required that all application materials for admission to the Teacher Certification Program be submitted by the following dates: For Ellensburg campus programs-winter, October 1; spring, January 1; summer, April 1; fall, April 1; for university center programs-fall, April 1; for university center programs-fall April 1. For

university center programs-please contact the university center.

(All application forms are available online at www.cwu.edu/ teacher-certification)

A 3.0 grade point average (GPA) for at least the last 45 graded quarter credits (the total may exceed 45 if an entire quarter is needed to achieve the minimum 45) is required for full admittance into the Teacher Certification Program. A 2.8 GPA for at least the last 45 graded quarter credits will be considered for conditional admittance into the Teacher Certification Program. A 3.0 GPA for at least the last 45 graded quarter credits is required prior to making application to student teaching.

Official or unofficial transcripts for all college/university coursework must be submitted directly to the Teacher Certification office. These transcripts are in addition to transcripts submitted to Registrar Services.

# Completed APPLICATION FOR ADMISSION TO TEACHER EDUCATION.

Completed Character and Fitness supplement.

Answering "YES" to any question on the form will require that you meet with the Certification Officer prior to a decision regarding admission. All court documents should be submitted prior to that meeting. False answers to the questions on the form may result in denial of program admission and/or certification.

Minimum score of 24 on each of two RECOMMENDATION FORMS completed by teachers, employers, or professors (one must be from a professor or teacher). Forms may not be completed by a relative.

Signed FINGERPRINTING/ CERTIFICATION REQUIREMENT form.

Pass the WEST-B examination.

#### Completion of one of the following:

Prerequisite Courses: ENG 101 and 102, and MATH 101, 153, 154, 164, 170, or 172 (with a grade of C or higher in each of the three prerequisite courses): or

Bachelor's degree from an accredited institution: or

A Direct Transfer Agreement (DTA) associate degree;

Proof of purchase of the College Live Text Edu Solutions software program (i.e., copy of receipt). Software can be purchased directly from livetext.com or from the Wildcat Shop. For those students applying to one of the University Centers, you will not be required to purchase the LiveText software until you have been accepted into the cohort program.

Current WSP and FBI fingerprint clearance is required for at least conditional admittance to the program. Please call 509-963-2662 to schedule an appointment. You may also contact your local Educational Service District (ESD) to schedule an appointment.

Submission of the Dispositional Survey. Once you activate your LiveText account, you are automatically sent the Dispositional Survey. It is located in your Forms box in LiveText. Once you complete the survey,

click the submit button. Please call 509-963-2660 if you have any questions.

Successful completion of EFC 210, EFC 310, and PSY 314.

#### WEST-B Test

All individuals applying for admission to CWU's Teacher Certification Program are required to meet the minimum passing score on the WEST-B (Washington Educator Skill Test - Basic). This exam is administered statewide seven times each year. Registration information and test dates can be found online at www.west.nesinc.com.

Note: Failure to begin the program within one year from date of acceptance may result in cancellation of admission.

The completed application packet needs to be submitted to the following address by the appropriate deadline date: Teacher Certification Office, College of Education and Professional Studies, Central Washington University, 400 East University Way, Ellensburg, WA 98926-7414.

#### Please be aware that:

No grade lower than a C in major or minor, required English composition courses, and foundation coursework, and no grade lower than a C- in basic and breadth coursework will be accepted for certification.

To remain in the program, students must maintain a 3.0 GPA for the last 45 graded credits earned.

Each applicant for admission to the Teacher Certification Program will be notified in writing of the status of his or her application.

Completion of the Teacher Certification Program does not guarantee certification by the state of Washington. In order to be certified, the candidate must demonstrate good moral character and personal fitness as defined by WAC 180-79A-155. Fingerprint clearance from the Washington State Patrol and FBI will be required prior to application for the Teacher Certification Program, practicum, pre-autumn, and/ or student teaching. If you have anything from your past that you think may compromise your certification, please seek advisement from the Certification Officer at 509-963-2660 prior to submitting your application.

Teacher Certification Program admission regulations are administered by the CTL. Personal folders are maintained in the Teacher Certification office for each student enrolled in a teaching program at Central.

#### **Transfer Students**

Students entering the university with a transferable associate of arts (AA) degree from an accredited Washington community college will need to meet the admission requirements for the Teacher Certification Program prior to enrolling in any education courses. These students are frequently surprised to find that, after finishing two years of community college, they have more than two years left to complete an education degree. This is because the AA degree required 90 credits and, when transferred to CWU, satisfies only the Basic and Breadth requirements, which can generally be completed in 60

credits at CWU. Community college students can make good use of the additional 30 credits required by the AA by selecting courses at the community college which may meet major, minor, or, in some cases, courses in teacher preparation. Check your community college's equivalency sheet to make certain your courses are equivalent to CWU's courses for these particular requirements.

#### **WEST-E Test**

All teachers wishing to obtain certification must take the WEST-E test in each content area for which they seek endorsement prior to student teaching. Documentation (i.e., registration confirmation, test scores) that the student has registered for a test date that occurs prior to student teaching must be submitted to the Teacher Certification Office prior to applying for student teaching. Final certification will not be awarded until successful completion of the WEST-E is earned. Test information and registration is online at www.west.nesinc.com.

#### Alternative Admissions Procedures to Teacher Certification

Students who do not have the required grade point average, or who do not pass portions of the WEST-B test may apply for provisional admission to the Teacher Certification Program by alternative means.

#### **PROCEDURE**

- 1. Applications will be made in writing to the candidate admissions, recruitment, and retention committee in care of the Certification Officer. The deadline for application will be the first Friday of the quarter preceding the quarter admission is desired (fall quarter applicants deadline will be the first Friday of spring quarter.) The written application will include the following:
- a. A letter from the applicant's major advisor that supports the following:
  - Applicant's academic ability, service experience, growth, commitment, and motivation
  - Potential for graduate study (following graduation from the undergraduate program)
  - Potential for success in working with diverse groups
  - Other criteria appropriate to the applicant's potential as a teacher
  - Other extenuating circumstances that may have affected the applicant's grades and test scores
- b. One supporting letter from a former employer, supervisor, or other individual knowledgeable of the applicant's experiences in working with young people
- c. A personal essay by the applicant that describes his or her educational goals and objectives
- An interview with the Candidate Admissions, Recruitment, and Retention committee (CARR) may be required.
- Those admitted will be monitored on a quarterly basis by the CARR committee, and will meet all admission requirements prior to student teaching.

- 4. Students who have been admitted to the Teacher Certification Program via the CARR committee will receive personal guidance to facilitate completion of their undergraduate degrees and receipt of their certificates.
- 5. For further information, contact the Certification Officer at 509-963-2660.

#### Graduation/Certification Requirements for the Teacher Certification Program

- No grade lower than a C in major, minor, composition courses, and professional education foundation courses
- Minimum GPA of 2.5 in major, minor, and professional education foundation courses
- Minimum GPA of 3.0 for last 45 graded quarter credits (the total may exceed 45 if an entire quarter is needed to achieve the minimum 45)

#### **Major and Minor Concentrations**

To achieve certification, students must select a major, which leads to a university endorsement for teaching in schools in Washington. The following majors are endorsements offered at CWU. Students should contact the departments to request information about major requirements.

#### **Endorsable Majors**

- Biology: Teaching Major
- Chemistry: Teaching Major
- Early Childhood Education Major
- Earth Science Teaching Major
- Elementary Education Major
- English/ Language Arts: Teaching Major
- Family and Consumer Sciences Career and Technical Education Teaching Major
- Foreign Languages: Teaching Foreign Languages: Teaching Broad Area: Chinese, French, German, Japanese, and Russian Major
- General Science Teaching Major
- History: Social Studies Teaching Major
- Mathematics: Teaching Secondary Major
- Middle Level Math and Science Teaching Major
- Music: Broad Area Specialization
- Music: Choral Music Specialization
- Music: Instrumental Music Specialization
- Physical Education and School Health
- Physics Major (BA)
- Spanish Teaching Major
- Spanish Teaching Broad Area Major
- Special Education P-12 Major
- Special Education P-12 Broad Area Major
- Theatre Arts: Teaching K-12 Major
- Visual Art: Teaching Major

A major endorsement will be required to obtain a teaching certificate. Minor endorsements are optional. The following minors are endorsements offered at CWU. Students should contact the departments to request information about requirements.

#### **Endorsable Minors**

- Bilingual Education/ Teaching English as a Second Language Minor
- Biology Teaching Secondary Minor
- Chemistry Teaching Minor
- Dance Teaching Minor
- Early Childhood Education Minor
- Literacy Minor
- Mathematics: Teaching Secondary Minor

- \*(Math minor will not be endorsed if combined with Elementary Education major, unless student teaching is also done in the math area.)
- Middle Level Mathematics Minor
- Middle Level Science Teaching Minor
- Physics Minor
- Science Education: Broad Area Science Teaching Minor
- Teaching English as a Second Language Minor

#### Certification

Central is in compliance with the No Child Left Behind federal legislation. It is a public institution that is accredited both regionally and nationally.

CWU is accredited by the Northwest Commission on Colleges and Universities (NWCCU). NWCCU is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation (CHEA) as the regional authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region of Alaska, Idaho, Montana, Nevada, Oregon, Utah, and Washington.

Additionally, CTL, the unit that oversees all CWU Teacher Certification Programs, is accredited by the National Council for the Accreditation of Teacher Education (NCATE). NCATE accreditation recognizes CTL as meeting national standards for the content and operation of the unit and ensures performance of a teacher candidate in the program has been thoroughly assessed before he or she is recommended for licensure. It also ensures that programs meet standards set by the teaching profession at large.

CWU's Teacher Certification Program is approved by the Washington State Board of Education to offer programs, which lead to teacher certification. To be awarded Washington certificates, candidates must be at least 18 years of age.

Graduates of the Teacher Certification Program are legally qualified for certification in states, which are party to the interstate certification compact.

#### **Residency Certificate**

The residency-teaching certificate is normally awarded simultaneously with the bachelor's degree. Individuals who hold, or have held a residency-teaching certificate and are enrolled in a professional certificate program, may have the certificate renewed for an additional two years upon verification the individual is enrolled in a professional certificate program.

#### **Professional Certificate (Pro Teach Program)**

The Pro Teach Portfolio is an evidence-based assessment designed for teachers seeking the Washington professional certificate. Teachers who hold a residency certificate must meet the apssing score set on the Pro Teach Portfolio evaluates teachers on their ability to impact student learning as stated in the 3 standards-effective teaching, professional development and professional contributions-- and 12 criteria for the professional certificate approved by the Professional Educator Standards Board (PESB). Visit www.waproteach.org/index.html for more information.

To maintain the continuing (professional) certificate, each person must complete 150 clock hours of approved in-service education and/ or 15 college or university credits every five years.

Information regarding CWU's Pro Teach Support Program can be found online at www.cwu.edu/teachercertification/preparing-pro-teach or you may contact the Director of the Professional Certificate Program at 509-963-1425.

#### **Endorsement-only Program**

CWU's endorsement-only program is available to certified teachers who hold the Washington State initial, residency, or continuing teaching certificate and who wish to add a teaching endorsement to their certificate.

Teachers interested in obtaining an endorsement from CWU should obtain an application online at www.cwu.edu/teacher-certification/endorsement-programs. Once an application and transcripts are submitted, a credit evaluation will be completed.

To qualify for an endorsement to teach in more than one specialization, students must meet the requirements for each specialization.

#### **Certification Only**

Candidates with a bachelor's degree who desire certification must follow the guidelines for admission to Teacher Certification. Certification-only students may earn the residency-teaching certificate by satisfactorily completing the professional foundation courses and at least one college endorsement program. Final approval of the college endorsement program lies with the individual's content area.

## Alternative Pathway to Teaching Regional Consortia Program

#### **General Information**

CWU is the lead/recommending institution for this program, which includes Pacific Lutheran University, Heritage University, and Western Washington University as partners. The goal of the consortia program is to prepare teachers in state-identified shortage areas for jobs in communities where they currently live. The minimum number of interns accepted into the program shall be 10; the maximum to be accepted shall be 25.

All courses, regardless of offering institution, will be completed, in-person, at CWU-Yakima, which is located at Yakima Valley Community College, Deccio Higher Education Building, 1000 S. 12th Avenue, Yakima, WA 98902. Distance education, K-20, or internet/ hybrid classes will not be available for this program. Please go to www.cwu.edu/ teacher-certification for more information.

#### **Admission Requirements**

Students with a baccalaureate degree from an accredited institution in subject matter shortage areas (special education, mathematics, general science, middle school mathematics and science, chemistry, physics, biology, English as a Second Language, bilingual, Mandarin and/ or Japanese) and/ or areas of shortage due to geographic location as documented by the partnership districts; and

District validation of qualifications, including one year of successful student interaction and leadership as classified staff; and

Who meet the age, good moral character, and personal fitness requirements for teachers (all candidates must have fingerprint clearance prior to assignment to a classroom); and

Who have a minimum GPA of 2.5 on the most recent degree conferred; and

Who have successfully passed the statewide basic skills exam (WEST-B\*) and content area test (WEST-E\*) for the endorsement area(s) for which certification is sought. Information about the tests and testing schedules may be accessed at www.pesb.wa.gov.

Mid-career professionals with a baccalaureate degree or higher from a regionally accredited institution who are not employed in the district, or who hold an emergency substitute certificate. Priority shall be given to individuals with degrees that qualify them for endorsements in the subject matter shortage areas noted above or identified by partnership districts within the consortia programs; and

Who have, at a minimum, one-year career work experience; and

Who provide external validation of qualifications, including demonstrated successful experience with students or children, such as reference letters and letters of support from previous employers; and

Who meet the age, good moral character, and personal fitness requirements for all teachers (all candidates must have fingerprint clearance prior to assignment to a classroom); and

Who have a minimum GPA of 2.5 on the most recent degree conferred; and

Who have successfully passed the statewide basic skills exam (WEST-B) and content area test (WEST-E\*) for the endorsement area(s) for which certification is sought. Information about the tests and testing schedules can be accessed at www.pesb.wa.gov; or

Mid-career professionals with a baccalaureate degree or higher from a regionally accredited institution who are employed in a school district under an emergency substitute certificate in a content shortage area and who meet the qualifications listed immediately above.

For additional admission requirements, please contact program director.

#### **Program Requirements:**

The total number of credits for successful completion of the program is 24.5, with 8 of these being completed through CWU. The courses to be completed at CWU are:

ECTL 470 - Alternative Pathways to Teaching: Seminar Series (2)

ECTL 480 - Alternative Pathways to Teaching: Curriculum Planning (3)

ECTL 490 - Alternative Pathways to Teaching: Internship (3)

The remaining 16.5 credits will be completed through the three partner universities.

Full descriptions can be reviewed in the Undergraduate course section under Center for Teaching and Learning.

#### Recency of Coursework

Education courses may not be older than 10 years at the time of graduation/ certification.

#### **College of the Sciences**

**Administration and Organization** 

Dean

Kirk A. Johnson, PhD (Dean Hall, room 130)

Associate Dean

David M. Darda, PhD (Dean Hall, room 130)

Staff

Velma Henry, administrative assistant Brian Jacobson, development officer Cindy Klein, secretary 509-963-1866

Fax: 509-963-1977

www.cwu.edu/sciences

The College of the Sciences (COTS) is comprised of 13 departments and 12 interdisciplinary programs representing disciplines in the behavioral, natural, and social sciences, and mathematics. The departments and programs of the college offer undergraduate baccalaureate degrees, master's degrees, minors that supplement other degree programs, and a comprehensive range of service coursework. As an essential part of its mission, the college offers an extensive general education curriculum. The departments play a major role in Central's Teacher Certification Programs, offering bachelor's and master's degrees for students preparing to be secondary teachers and providing coursework in educational foundations and discipline-specific content and methods.

Departments within the college are committed to teaching excellence, active engagement by faculty in research, scholarship and professional service activities, student involvement in research, community service, and employing practical applications of academic specializations.

#### **Departments**

All departments offer baccalaureate degree programs and, in some cases, minors and master's degrees. In addition to consulting department/ program headings in this catalog, students are encouraged to contact individual departments and program offices directly.

Anthropology and Museum Studies:

Kathleen Barlow, PhD Dean Hall, room 356 509-963-3201

Biological Sciences:

Todd Cottrell, PhD

Science Building, room 338

509-963-2731

Chemistry:

Levente Fabry, PhD

Science Building, room 302

509-963-2811

Computer Science:

James Schwing, PhD

Hebeler Hall, room 219

509-963-1495

Geography:

James Huckabay, PhD Dean Hall, room 303 509-963-1188

Geological Sciences:

Lisa Ely, PhD

Lind Hall, room 108B

509-963-2701

Law and Justice:

Charles Reasons, LLB

Farrell Hall, room 309

509-963-3208

Mathematics:

Timothy Englund, PhD

Bouillon Hall, room 108

509-963-2103

Physics:

Michael Jackson, PhD

Lind Hall, room 201A

509-963-2727

Political Science:

Todd Schaefer, PhD

Psychology Building, room 414

509-963-2408

Psychology:

Stephanie Stein, PhD

Psychology Building, room 421

509-963-2381

Science Education:

Martha Kurtz, PhD

Science Building, room 107

509-963-2929

Sociology:

Delores Cleary, PhD

Farrell Hall, room 409

509-963-1305

#### **Interdisciplinary Programs**

These programs offer specialized coursework, interdisciplinary baccalaureate majors or minors, master's degrees or research, and public service functions.

American Indian Studies:

Toni Culjak, PhD

Language and Literature, room 408D

509-963-1531

Center for Excellence in Science and

Mathematics Education:

Martha Kurtz, PhD

Science Building, room 107

509-963-2929

Environmental Studies:

Anne Johansen, PhD

Science, room 207D

509-963-2164

Ethnic Studies:

Nelson Pichardo, PhD

Farrell Hall, room 440

509-963-1348

Museum of Culture and Environment:

Mark Auslander, PhD

Dean Hall, room 334

509-963-3209

Primate Behavior and Ecology Program:

Lori Sheeran, PhD

Dean Hall, room 335

509-963-1434

Public Policy:

Rex Wirth, PhD

Psychology Building, room 482

509-963-2353

Resource Management Program:

Karl Lillquist, PhD Dean Hall, room 319

509-963-1184

Steve Hackenberger, PhD

Dean Hall, room 349

509-963-3224

Science Honors:

Audrey Huerta, PhD

Lind Hall, room 118-A

509-963-2718

Science Talent Expansion Program (STEP):

Wendy Bohrson, PhD Lind Hall, room 101 509-963-2835

509-963-2835 Women's Studies:

Cynthia Coe, PhD

Language and Literature Bldg., room 318

509-963-2008

#### **Affiliated Centers and Institutes**

Center for Spatial Information:

Anthony Gabriel, PhD

Dean Hall, room 320

509-963-1166

Center for the Environment

Anne Johnasen, PhD

Science, room 207D

509-963-2164

Central Washington Archaeological Survey,

Anthropology:

Patrick McCutcheon, PhD

Dean Hall, room 340

509-963-2075

Steve Hackenberger, PhD

Dean Hall, room 349

509-963-3224

Chimpanzee and Human Communication

Institute (CHCI):

Mary Lee Jensvold, PhD

CHCI Building

509-963-2215

Community Counseling and Psychological

Assessment Center:

Jeffrey Penick, PhD

Psychology Building, room 461

509-963-3669

Cultural Resources:

Pat Lubinski, PhD

Dean Hall, room 338

509-963-3601

Geodesy Laboratory and Pacific

Northwest Geodetic Array (PANGA)

Data Analysis Facility:

Tim Melbourne, PhD

Hebeler Hall, room 110A

509-963-2799

Health Career Resources:

Tracy Andrews, PhD

Dean Hall, room 351

509-963-3220

School Psychology Services:

Eugene Johnson, EdD

Psychology Building, room 121

509-963-2501

#### Office of Continuing Education

The Office of Continuing Education (CE) provides lifelong learning opportunities in support of the university mission. The unit offers a variety of credit, non-credit, training, and enrichment courses and programs.

#### Please Note:

- All Continuing Education courses, certificates, degrees, and services are offered on a self-support basis, and may be canceled if adequate enrollment is not reached.
- Tuition for some Continuing Education courses is higher than regular CWU tuition. Additional course fees may also apply.
- Credit courses are eligible for financial aid, but no tuition-waiver programs can be applied.

Please visit us on the Web at www.cwuce.org or call 509-963-1504 for complete information on the following programs:

#### ACADEMIC DEGREES AND CERTIFICATES

#### **Craft Beer Trade Certificate**

Program Advisor: Steve Wagner, PhD Program Assistant: Frank Pangrazi Department of Biological Sciences

The Craft Beer Trade Certificate is an in-depth, academic course of study on the science, technology, and business aspects of the craft beer brewing industry. It is for students with an interest in pursuing a career in the beer brewing industry. This four course sequence covers the principles of malting and brewing, brew process technology, brewing microbiology, and principles of merchandising management for the micro brewing industry. Students learn about the trade using a variety of approaches including lab work, hands-on experiences, lectures, field trips, and industry speakers. The program prepares graduates for careers in a wide range of areas in the brewing and business sides of the industry. Students must be 21 years of age or older and must apply for acceptance into the program.

For more information, including course descriptions, admission requirements, and how to apply, see the Biological Sciences section of the undergraduate catalog, visit www.cwuce.org/beer\_education, or call 509-963-1504.

#### Global Wine Studies Bachelor of Science Degree

Advisor: Amy Mumma, MBA Program Assistant: Frank Pangrazi Office of Continuing Education

Global Wine Studies is a bachelor of science degree for anyone who is interested in pursuing a career in the wine industry. This interdisciplinary program provides students with a broad understanding of the global wine industry. The program prepares graduates for careers in winery and vineyard management, wine merchandising, wholesale, retail, e-commerce, distribution, marketing,

import/ export, hospitality, entrepreneurship, consulting, and more.

In the major, students acquire a broad base of knowledge and skills related to wine, wine business issues, and the global wine industry. Students also complete a minor in a complementary academic area (selected with advisement). Students gain valuable experience by participating in a required international field experience and an internship with a wine-related business, either in the U.S. or abroad. Students must be 21 years of age or older and must apply for acceptance into the program.

For more information, including course descriptions, admission requirements, and how to apply, see the Family and Consumer Sciences section of the undergraduate catalog, visit www.worldwineprogram.org, or call 509-963-1754.

#### **Professional Sommelier Certificate**

Program Director: Amy Mumma, MBA Program Assistant: Frank Pangrazi Office of Continuing Education

This intensive certificate program focuses on learning the techniques involved in becoming a sommelier. A sommelier works in the dining and hospitality industry pairing food with wine, beer, spirits and other beverages along with managing the beverage components of a dining establishment. This certificate covers beverage and food pairing, wine service techniques, beverage management, cost and pricing structures, developing beverage lists, and includes a professional tasting component to cover wine, beer, spirits and other beverages. Graduates are prepared for food and beverage related careers in the dining and hospitality industry. Students must be 21 years of age or older and must apply for acceptance into the program. Permission of the certificate advisor is required.

For more information, including course descriptions, admission requirements, and how to apply, see the Family and Consumer Sciences section of the undergraduate catalog, or visit www.worldwineprogram.org, or call (509) 963-1754.

#### Wine Trade Professional Certificate

Advisor: Amy Mumma, MBA Program Assistant: Frank Pangrazi Office of Continuing Education

The Wine Trade Professional Certificate is a comprehensive educational program that focuses on the business and trade aspects of the wine industry. Topics covered include viticulture, wine making, world wine regions, styles and trade structures, the business of wine, wine marketing, merchandising, and professional evaluation techniques. Graduates will be prepared for careers in wine sales and merchandising, wholesale, retail, distribution, marketing, import/ export, consulting, hospitality, and more. The certificate is intended for

individuals currently in the wine and associated industries or for those who would like to gain the skills and knowledge necessary to enter the wine industry. Students must be 21 years of age or older and must apply for acceptance into the program.

For more information, including course descriptions, admission requirements, and how to apply, see the Family and Consumer Sciences section of the undergraduate catalog, visit www.worldwineprogram.org, or call 509-963-1754.

#### Wine Trade and Tourism Minor

Program Director: Dorothy Chase, PhD Department of Family and Consumer Sciences

This cross-disciplinary program prepares individuals for employment in many areas of the wine industry including tourism, hospitality services, retailing, wine sales and marketing, and tasting-room and event management. Admission to the minor requires admission to the Wine Trade Professional Certificate program. Students must be 21 years of age or older and must apply for acceptance into the program. Permission of the certificate program advisor is required.

For more information, including course descriptions, admission requirements, and how to apply, see the Family and Consumer Sciences section of the undergraduate catalog, or visit www.worldwineprogram.org.

#### MS Biology Master of Science Degree

Program Coordinator: Ian Quitadamo, PhD Department of Biological Sciences

The Master of Science in Biology (for teachers) program offers science teachers the advanced content knowledge and skills they need to enhance their performance, improve student learning, and advance their careers. The program is designed to be completed over 15 weeks (five weeks each for three summers). Courses are taught by faculty members from a variety of life science fields that are committed to working with K-12 teachers to provide experiences that address teacher needs. Hands-on research, field trips, and practical application are highlights.

Participants will engage in immersive experiences in a variety of life science fields (e.g. genomics, environmental physiology, using insects in the classroom, cell biology, genetics, infectious diseases, parasitism, and immunological response, and others); participate in hands-on investigation of integrated life, physical, and Earth science concepts applicable to K-12 classrooms; learn how to integrate knowledge across science disciplines; and learn how to analyze, integrate, and apply topics learned in graduate courses using a collaborative, best-practices framework. Participants will also discuss current topics in biological research; investigate methods, techniques, and procedures used in biological research; generate ideas for how to design and conduct their own research; develop a research proposal; conduct a laboratory and/ or field research project under the supervision of a CWU faculty member; and present their research results. Elective courses allow teachers to have

some flexibility in the content they choose for their program.

For more information, admission requirements, and how to apply, visit www.cwuce.org/msbt, or call 509-963-2731.

#### MS Biology – Specialization in Biomedical Sciences Master of Science Degree

Program Coordinator: James E. Johnson, PhD Department of Biological Sciences

The MS Biology with specialization in Biomedical Sciences degree is designed for students seeking careers in biomedical research or to help students become stronger applicants to medical school or other professional programs. Students who have already completed their course requirements or admission to medical school can strengthen their candidacy by demonstrating their performance in some of the same courses taken by first-year medical students at the Pacific Northwest University of Health Sciences (PNWU) Doctor of Osteopathic Medicine Program and broadening their background as scientists by conducting an original research project with faculty at CWU while earning a master of science degree in biology.

For more information, including course descriptions, admission requirements, and how to apply, see the Biological Sciences section of the graduate catalog, visit www.cwuce.org/msbiomed, or call 509-963-2731.

#### MS Computational Science Master of Science Degree

Program Advisor: Razvan Andonie, PhD Computer Science Department

Computational Science is a field of study that involves the modeling, simulation, and analysis of world phenomena through computation. Using computers, computational scientists construct mathematical models and use quantitative analyses to analyze and solve scientific problems. Computational scientists possess a broad grounding in computing related areas, mathematics, and sophistication in their area of concentration. Computational Science has become critical to scientific leadership, economic competitiveness, and national security. This masters program serves to prepare students for professional computational science careers or to pursue a doctoral degree.

For more information, including course descriptions, admission requirements, and how to apply, see the Computer Science section of the graduate catalog, visit www.cwu.edu/~cs\_dept/ masters, call 509-963-1495, or email andonie@cwu.edu.

#### MS Law and Justice Master of Science Degree

Program Director: Chuck Reasons, PhD/ JD Program Assistant: George Kuniyoshi Department of Law and Justice

The MS degree in law and justice is designed to serve two distinct groups. The Advanced Professional Specialization is aimed at those already in law and justice careers who want to do hands-on research, possibly with their own agency data. The Basic Career Specialization is aimed at those not currently in law and justice careers who want to gain valuable learning experience and preparation for a career. To meet the needs of these divergent groups, a core set of classes is required, focusing upon theory, research methods, and legal liability, followed by courses tailored to the needs of these two distinct groups. This program is offered at CWU - Kent at Kent Station.

For more information, including course descriptions, admission requirements, and how to apply, see Law and Justice in the graduate catalog, visit www.cwuce.org/mslaj, call 253-856-9595, ext. 5047, or email kuniyosh@cwu.edu.

#### CAREER DEVELOPMENT

#### Career Training Programs (Online) Non-credit

Program Assistant: Rachel Gordon Office of Continuing Education

Are you looking to start a new career or gain skills to advance in your current one? The Office of Continuing Education, in partnership with ed2go (formerly Gatlin Education Services), offers online, open enrollment courses and programs designed to provide the skills necessary to acquire professional level positions for many in-demand occupations. Choose from over 100 programs in Healthcare and Fitness, Sustainable Energy and Going Green, Media and Design, IT and Software Development, Skilled Trades and Industrial Studies, Business and Professional Studies, Management and Corporate Studies, and Hospitality and Service Industries.

You can start these career training programs anytime and work at a pace that suits your individual style. You will have access to all the lessons and assignments from day one, and many of these programs can be completed in less than six months. Instructors are actively involved in your online learning experience. They respond to questions and concerns, as well as encourage and motivate you to succeed. Upon completing your program with a passing score, you will get a certificate of completion.

High school diploma: ed2go also offers a fully-accredited online career high school. This program offers adult learners a chance to obtain their high school diploma along with valuable career preparation. Choose from credentialed certificate programs in Early Childhood Education, Transportation Services, Criminal Justice, Office Management, and Homeland Security.

For more information, visit www.gatlineducation.com/cwu.

Please note: Many of these programs are approved by the Workforce Training Board for the Eligible Training Provider List. For a list of approved courses, visit the Washington Career Bridge website at www.careerbridge.wa.gov and search the Eligible Training Provider List for online programs at Central Washington University, Ellensburg, or call us directly at 509-963-1749.

#### Online Instructor-Led (6-week) Courses Non-credit

Program Assistant: Rachel Gordon Office of Continuing Education

Looking to get ahead in your career? These six-week, online, professional development courses are the perfect way to learn a new skill or enhance your existing ones. Courses are available in hundreds of areas, including accounting, art, business, computer, digital photography, graphic design, health care, language, law, music, teaching, technology, web design, writing, and many more. You will spend roughly two to four hours each week completing two engaging lessons in an enjoyable, interactive learning environment. Expert instructors develop and lead every course, and you will be able to interact with them and with fellow students in lively online discussion areas. New sessions start every month, so you can sign up anytime. Upon completing a course with a passing score, you will receive a certificate of completion.

For current offerings, see our online catalog at www.ed2go.com/cwu.

#### COLLEGE IN THE HIGH SCHOOL

#### Cornerstone

Program Coordinator: Sandra Bach Office of Continuing Education

The Cornerstone Program is designed to offer highly capable students the opportunity to take rigorous college courses while still in high school. The courses are taught by qualified high school instructors who have been approved as CWU lecturers. All Cornerstone classes are the same challenging courses offered at the university. The credits earned, if applied at CWU or transferred to another institution, can strengthen students' chances of being accepted to their colleges of choice, help them get a head start on their degree, and reduce the cost of college. Course offerings vary by location.

For more information, visit www.cwuce.org/ cornerstone or call 509-963-1526.

#### **EDUCATION PROGRAMS**

# Administrator Professional Certification

Program Director: Henry Williams, PhD Department of Advanced Programs

The Administrator Professional Certificate Program (APCP) represents the next stage of the state's move toward performance-based educator preparation programs. Program requirements, which center on completion of a Professional Growth Plan (PGP), are aligned with state and national standards for administrators. The APCP offers the opportunity for individualized, job-embedded professional development for those who currently hold a Principal Residency Certificate and wish to advance to the Administrator Professional Certificate. This program is offered by the Department of Advanced Programs and the Office of Continuing Education.

For more information and application details visit www.cwu.edu/~ap/adminCert.html or call 509-963-1415.

#### Career and Technical Education (CTE) Teacher Certification

Program Director: Kim Bartel, PhD Program Coordinator: Sheri Hubbard Department of Family and Consumer Sciences

Business and industry professionals who desire to turn their professional experience into a teaching career at a high school or skill center can use the CWU CTE Teacher Certification program to build a strong foundation in teaching methods, classroom management, curriculum development, assessment, leadership, and technology. The two-year graduate program offers classes one Saturday per month and meets throughout the academic year.

This is a variable-credit program, meaning that participants complete only the courses they need to fulfill individual certification requirements. Applicants' employment and education histories are reviewed, and in some cases previous coursework may be used to fulfill certification requirements. The CTE Teacher Certification program uses a combined course/ field-based teacher preparation approach that includes administrators, cohort groups, regional course delivery sites, online support, and district partnerships. Applicants who currently hold an education degree and a Washington state teaching certificate may be able to participate in a modified Block 2 only program.

Successful program completers earn a teaching certificate in CTE. Students may also apply the credits earned in CTE certificate courses toward a master's degree at Central.

For more information visit www.cwuce.org/careertech or call 509-963-2776.

#### MS Biology (for Teachers) Master of Science Degree

Program Coordinator: Ian Quitadamo, PhD Department of Biological Sciences

See MS Biology (for Teachers) listed in the Academic Degrees and Certificates section above.

#### **National Board Certification**

Program Coordinator: Andrea Sledge, PhD College of Education and Professional Studies

The Office of Continuing Education, in collaboration with the College of Education and Professional Studies, offers a National Board Certification Mentoring Program. The Mentoring Program is designed to prepare teachers for National Board portfolio preparation and assessment. Candidates attend a summer orientation session with the CWU National Board for Professional Teaching Standards (NBPTS) facilitator group at CWU, Ellensburg. The candidates then meet with their NBPTS facilitator numerous times during the months between the summer orientation session and the spring deadline for submission of the National Board Certification Portfolio.

For more information on CWU's National Board Certification Mentoring Program, please visit www.cwuce.org/nbcert or call 509-963-1504.

#### ProTeach: Portfolio Preparation Program

Program Coordinator: Andrea Sledge, PhD College of Education and Professional Studies

The Office of Continuing Education and the Center for Teaching and Learning offer a unique program for teachers to work toward their professional certification. The ProTeach Portfolio Preparation Program provides the Teacher ProCert candidate with maximum flexibility. You enroll in one to four courses, depending on the level of support you desire, from learning the standards, to guidance in evidence gathering and evaluation, to preparation of the portfolio for submission for external assessment. NBCT facilitators and ETS-trained facilitators are available for mentorship. Courses are offered at all CWU campuses and online. The coursework is also applicable to CWU's Master Teacher degree.

For more information visit www.cwuce.org/proteach, e-mail sledgea@cwu.edu, or call 509-963-1425.

#### **Professional Development for Educators**

Program Coordinator: Darlene Sirrine Office of Continuing Education

Numerous classes are available each quarter through in-service and distance learning. Course topics are timely, taught by experienced instructors, and offer PK-12 teachers convenient, affordable options for professional development (500) credit or clock hours. Course topics include classroom management, special education, bilingual education, health and safety management, teaching strategies, technology in schools, and more.

Please visit www.cwuce.org or call 509-963-1504 for more information about current offerings.

#### Reading Endorsement

Program Coordinator: Sharryn Larsen Walker, PhD Language, Literacy, and Special Education

The Literacy Program within the College of Education and Professional Studies offers this reading endorsement option for certified teachers. Because assignments in every course are tailored to each certified teacher's current position, the program is appropriate for those who work with students in any grade level. Supported through the Office of Continuing Education, the program is delivered completely online. With continuous enrollment, a certified teacher can earn the Washington State P-12 Reading Endorsement from Washington's Office of Superintendent of Public Instruction in only five quarters. Teachers from outside the state of Washington will need to verify with their state's department of education if this program meets the guidelines for endorsement in that state.

For more information, please contact Sharryn Larsen Walker at swalker@cwu.edu or 509-963-2133.

#### PERSONAL ENRICHMENT

#### Online Instructor-Led (6-week) Courses Non-credit

Program Coordinator: Rachel Gordon Office of Continuing Education

These six-week, online courses are an ideal path to personal enrichment. Courses are available in hundreds of areas, including accounting, art, computer, digital

photography, graphic design, health, language, music, teaching, technology, web design, writing, and many more. You will spend roughly two to four hours each week completing two engaging lessons in an enjoyable, interactive learning environment. Expert instructors develop and lead every course, and you will be able to interact with them and with fellow students in lively online discussion areas. New sessions start every month, so you can sign up anytime. Upon completing a course with a passing score, you will receive a certificate of completion.

For current offerings please see our online catalog at www.ed2go.com/cwu.

#### **Preparatory Strings Program**

Program Director: Bret P. Smith, PhD Program Assistant: Rachel Gordon

Department of Music

The Preparatory Strings Program serves the youth of Kittitas Valley by providing string instruction in group classes and conducted ensembles, from beginning to advanced. It consists of six string ensembles and one full symphony orchestra made up of students from six years old through college. The majority of students start out in either Early Beginners or Beginning Strings and then progress up through the levels to the Kittitas Valley Youth Orchestra. However students may join the beginning groups or audition for the intermediate and advanced groups during any quarter. With the exception of Early Beginners 1 and 2, the ensembles meet for two hours a week and are taught by Central Washington University students. The program provides a great opportunity for Ellensburg youth not only to improve their technical and musical skills, but also to meet other youth involved with music. The Prep Strings program is offered by the Department of Music and the Office of Continuing Education.

To learn more about the Prep Strings Program, visit www.cwu.edu/~music/prep\_strings, contact the program director at prepstrings@cwu.edu, or call 509-963-1749.

#### Wine Tasting Series Instructor: Amy Mumma, MBA Office of Continuing Education

Our wine tasting and lecture series offers classes that teach individuals about wine in a fun and non-intimidating way. Courses are social and interactive learning experiences that include tastings. These non-credit, consumer-oriented, short courses cover topics such as wine regions of the world, wine and food pairing, wine faults, and more. Our wine education DVD series, A Wine Odyssey, allows wine lovers to learn more about wine in the comfort and convenience of their homes.

For more information visit www.worldwineprogram.org or call 509-963-1504.

#### Yoga

Instructor: Lori Chandler Office of Continuing Education

Yoga is great for stress reduction, weight loss, toning and firming the body, and achieving inner peace. Special sections are available for beginners, advanced, seniors, and those with other special needs. Open to everyone.

Call 509-963-1504 for more information.

#### SUMMER SESSION

#### **Summer Session**

Program Assistant: Rachel Gordon Office of Continuing Education

Summer at Central is a great place to spend your time—both inside and outside of the classroom. Enjoy learning in a relaxed atmosphere. Choose from more than 500 courses and workshops taught by experienced and engaging faculty and lecturers. Over 150 courses are taught online, so even students who are away from campus can take classes. Summer session at Central provides excellent course choices for degree-seeking students as well as professional development for K-12 educators, classroom teachers, paraprofessionals, and administrators.

Campus housing and dining are available and affordable as are many other service areas including our health center, world-class library, the student union, and the recreation center.

Formal admission to Central as a degree-seeking student is not required for summer study. Enrollment is open to all students, including non-residents (i.e. out-of-state students). Summer tuition rates for non-resident students are the same as those rates charged to residents, so non-residents save money during summer.

Courses are available in many subject areas, covering general education, lower, and upper division. You will find courses in administrative management, anthropology, communications, education, English, family and consumer sciences, film and video studies, history, industrial and engineering technology, information technology, law and justice, Latin American studies, music, physical education, philosophy, psychology, sociology, theatre, and more.

A complete list of summer session courses and workshops is available each year in March on Safari for currently enrolled students and as a PDF at www.cwu.edu/ summer. The schedule is updated weekly thereafter.

For more information about summer session at Central, see www.cwu.edu/summer or call 509-963-1749.

#### APPLIED RESEARCH

#### Central Washington Anthropological Survey (CWAS) Department of Anthropology Office of Continuing Education

The Central Washington Anthropological Survey (CWAS) conducts archaeological investigations in the central counties of Washington and promotes public involvement in the identification and protection of regional archaeological resources. CWAS cooperates with state and federal agencies, Native American tribes and nations, professional archaeologists throughout the state, and state and local archaeological societies to study and preserve Central Washington's archaeological resources.

Not only does CWAS perform a valuable service for Central Washington, but in the process, it provides "real world" archaeological work experiences for CWU students who have demonstrated willingness and an ability to perform cultural resource management activities.

CWAS has the tools, equipment, and staff to equip and manage large crews of up to 25 people. It has lab space to

process artifacts as well as geologic and sediment samples. And it has both temporary and permanent storage facilities for the care of artifacts collected in the field. CWAS is capable of performing and subsequently reporting on systematic pedestrian surveys, test/ full-scale excavations, detailed GIS applications including mapping, database management, lithic analysis, lab-processing and curation of artifacts, national register nominations, monitoring, literature reviews, remote sensing, and development of archaeological resource management plans.

CWAS offices are centrally located on the Central Washington University campus in Ellensburg. Knowledgeable staff, faculty members, and graduate students are available to discuss archeology, GIS applications, paleontology, excavation, and other customer needs.

For more information, visit www.cwuce.org/ cwas or call 509-963-1835.

### Office of Online Learning

The Office of Online Learning seeks to assure that Central Washington University maintains the highest standards of excellence in online learning and is recognized regionally and nationally for offering outstanding online programs that provide increased access of educational opportunities to diverse, place-bound, traditional, and non-traditional students.

Online offerings at CWU are meant to:

- provide more flexible access to content and instruction for learners who are unable to attend traditional face-to-face offerings
- provide greater educational course and program selection for students
- improve time-to-degree completion by offering students greater course scheduling flexibility

#### **Online Graduate Degree Programs**

- MEd Higher Education
- MEd Instructional Leadership
- MEd Literacy
- MEd School Administration
- MEd Special Education
- MS Health and Physical Education
  - · Athletic Administration Specialization

#### Online Undergraduate Degree Programs

- BA Psychology
- BA Sociology
- BA Law and Justice
- BAS Information Technology and Administrative Management
  - o Information Technology Specialization
  - o Administrative Management Specialization
- BS Information Technology and Administrative Management
- BS Interdisciplinary Studies: Social Sciences
- BS Paramedicine

#### **Online Minors**

- Administrative Management Minor
- Family Studies Minor
- Latino and Latin American Studies (LLAS) Minor
- Law and Justice Minor
- Psychology Minor
- Retail Management and Technology Minor
- Sociology Minor

#### Online Certificates/Endorsements

- Global Literacy Development
- Library Media Endorsement
- Reading Endorsement

More information about online learning at CWU is available on the web at: www.cwu.edu/~avpugrad/OnlineLearning.

#### **Undergraduate Programs Offered**

Departments and majors, specializations, and minors are listed by college in alphabetical order in this section. Courses numbered from 101–299 are lower-division courses, primarily for freshmen and sophomores; those numbered from 300–499 are upper-division courses, primarily for juniors and seniors. The numbers 296, 396, 496, and 596 designate individual study courses and are available for registration by prior arrangement with the course instructor and approval of the department chair.

The number in parentheses following the course title indicates the amount of credit each course carries. Variable credit courses include the minimum and maximum number of the credits within parentheses.

Not all of the courses are offered every quarter. Final confirmation of courses to be offered, information on new courses and programs, as well as a list of hours, instructor, titles of courses and places of class meetings, is available online in Safari which can be accessed through the CWU home page at www.cwu.edu. A registration handbook is available at Registrar Services or your university center office. This book will assist you in navigating through Safari.

#### **Accounting Department**

Accounting Major, BS Accounting Minor

#### **Advanced Programs**

Library Media Endorsement

## **Aerospace Studies Department (Air Force ROTC)**

Aerospace Studies Minor

#### fricana and Black Studies Program

Africana and Black Studies Minor

#### **American Indian Studies Program**

American Indian Studies Minor

## Anthropology and Museum Studies Department

Anthropology 45 credit Major, BA Anthropology Major, BA Anthropology Major, BS Anthropology Minor Museum Studies Minor

#### Art Department

Art Major, BA
Art Major, BFA
Studio Art Specialization
Graphic Design Specialization
Visual Art: Teaching Major, BA
Art History Minor
Art Studio Minor

#### Asia/Pacific Studies Programs

Asia/ Pacific Studies Major, BA Asia/ Pacific Studies Minor

#### **Aviation Department**

Aviation Management Major, BS
Aviation Management
Specialization
Aviation Maintenance
Management Specialization
Professional Pilot Major, BS

Flight Officer Specialization Commercial Pilot Specialization Aviation Management Minor Professional Pilot Minor

#### **Biological Sciences Department**

Biology Major, BA
Biology Major, BS
General Biology
Cell and Molecular Biology
Specialization
Ecology Specialization
Organismal Biology Specialization
Biology Teaching Major, BS
Biology Minor
Biology Secondary Teaching Minor

#### **Business Administration Department**

Business Administration Department
Business Administration Major, BS
Finance Specialization
General Business Specialization
Human Resource Management
Specialization
Management and Organizational
Specialization
Marketing Management
Specialization
Supply Chain Management

Specialization Business Minor

#### **Chemistry Department**

Chemistry Major, BS
Biochemistry Specialization
Chemistry Teaching Major, BA
Chemistry Minor
Chemistry Teaching Minor

#### **Communication Department**

Communication Studies Major, BA
Journalism Major, BA
Print Specialization
Broadcast Specialization
Convergent Media Specialization
Public Relations Major, BA
Advertising Minor
Organizational Communication

#### Minor

Communication Minor Non-profit Organization Administration inor

#### **Computer Science Department**

Computer Science Major, BS Computer Science Minor Applied Computer Science Minor

#### **Douglas Honors College Program**

Douglas Honors College Interdisciplinary Honors Minor

#### **Economics Department**

Economics Major, BS
Economic and Business Forecasting
Specialization
General Economics Specialization
Managerial Economics
Specialization
Economics Minor I
Economics Minor II

### Education Foundations and Curriculum Department

Profession Education Program

#### **English Department**

English Language and Literature Major, BA
English: Writing Specialization

English: Writing Specialization English/ Language Arts Teaching Major,

BA

Creative Writing Minor
English Language and Literature

4inor
Linguistics Minor

#### **Environmental Studies Programs**

Environmental Studies Major, BS Environmental Studies Minor Energy Studies Minor

#### **Ethnic Studies Program**

Ethnic Studies Minor

### Family and Consumer Sciences Department

Apparel, Textiles, and Merchandising Major, BS Family and Consumer Sciences

Career and
Technical Education Teaching Major,

BS

Family and Consumer Sciences Major, BA

Family Studies Major, BS
Global Wine Studies Major, BS
Recreation and Tourism Major, BS
Event Planning Specialization
Recreation Management
Specialization

Specialization
Tourism Management

Specialization

Apparel Design Minor

Apparel, Textiles, and Merchandising Minor

**Event Planning Minor** 

Family and Consumer Sciences Education Minor

Family and Consumer Sciences Minor

Family Studies Minor Fashion Merchandising Minor Program Development Minor Recreation Management Minor Tourism Management Minor Wine Trade and Tourism Minor

#### Film and Video Studies Programs

Film and Video Studies Major, BA Critical Studies Specialization Production Specialization Screenwriting Specialization Critical Studies Minor Screenwriting Minor

#### Finance and Supply Chain Management Department

Business Administration Major, BS Finance Specialization General Business Specialization Supply Chain Management Specialization **Business Minor** 

#### Foreign Languages Department

Foreign Language Majors with Specializations (Chinese, French, German, Japanese, Russian), BA Foreign Language Broad Area Major,

Foreign Language: Teaching Major,

Spanish Major, BA Spanish Broad Area Major, BA Spanish Teaching Major, BA American Sign Language Minor Foreign Language Minors (Chinese, French, German, Japanese, Russian) Spanish Minor

#### **Geography Department**

Geography Major, BA Geography Minor

#### **Geological Sciences Department**

Earth Science Teaching Major, BA **Environmental Geological Sciences** Major, BS

Geology Major, BA Geology Major, BS Geology Minor

#### **History Department**

History Major, BA History: Social Studies Teaching Major, BA History Minor

#### **Individual Studies Program**

Individual Studies

#### Engineering, Technologies, Safety, and **Construction Department**

Electronics Engineering Technology Major, BS Computer Engineering Technology Specialization

Electronic Systems Specialization Construction Management Major, BS Industrial Technology Major, BAS Industrial Technology Major, BS Mechanical Engineering Technology Major, BS

> Manufacturing Technology Specialization

Mechanical Technology Specialization

Occupational Safety and Health Major, BAS

Safety and Health Management Major, BS

Technology Education Broad Area Major, BS

Technology Education Major, BS Construction Safety Minor Industrial Technology Minor Occupational Safety Technology Minor Safety and Health Management Minor Traffic Safety Education Minor

#### Information Technology and Administrative Management Department

Information Technology and Administrative Management Major,

Information Technology Specialization

> Administrative Management Specialization

Information Technology and Administration Management Major,

BS

Administrative Management Specialization Retail Management and

Technology

Specialization Network Administration and Management Specialization Web and Database Admin. and Management Specialization Administrative Management Minor

or

Certificate

Computer Applications Minor or Certificate

Information Technology Minor or Certificate

Retail Management and Technology Minor

or Certificate

Web Design and Management Minor or Certificate

#### Interdisciplinary Studies Program

Interdisciplinary Studies-Social Sciences Major, BS

#### **International Studies and Programs**

Asia University America Program Study Abroad and Exchange

Program

International Studies Minor

#### Language, Literacy, and Special **Education Department**

Special Education (P-12) Broad Area

Special Education (P-12) Major, BAEd Bilingual Education/ Teaching

as a Second Language Minor Literacy Minor Special Education Minor Teaching English as a Second

Language (TESL) Minor

#### Latino and Latin American Studies Program

Latino and Latin American Studies

#### Law and Justice Department

Law and Justice Major, BA Law and Justice Minor

#### Management Department

Business Administration Major, BS General Business Specialization Human Resource Management Specialization Management and Organizational Specialization Marketing Management Specialization **Business Minor** 

#### **Mathematics Department**

Mathematics Actuarial Science Major,

Mathematics Major, BS Mathematics: Teaching Secondary Major, BA

Middle-level Mathematics and Science Teaching Major, BA Mathematics Minor Middle-level Mathematics Teaching Minor

#### Military Science Department

Military Science Minor

#### **Music Department** Composition Major, BM

Keyboard Performance Major, BM Music Education Major, BM Broad Area Specialization Choral Music Specialization Instrumental Music Specialization Music Major, BA Music Jazz Specialization Music Vocal Performance Major, BM Percussion/Wind/String

Performance Major, BM Music Minor Non-profit Organization Administration Minor

### Nutrition, Exercise, and Health Sciences Department

Clinical Physiology Major, BS Exercise Science Major, BS

Food Science and Nutrition Major, BS Foods and Nutrition Specialization Dietetics Specialization

Food Service Management, BAS

Paramedicine Major, BS

Athletic Training Minor

Exercise Science Minor

Food Service Management Minor

Nutrition Minor

#### Philosophy and Religious Studies Department

#### Philosophy Major, BA

Religious Studies Specialization

Ethics Minor

Philosophy Minor

Religious Studies Minor

### Physical Education, School, and Public Health Department

Physical Education and School

Health Major, BS

Public Health Major, BS

Community Health Education

Specialization

Pre-Nursing in Public Health

Specialization

Community Health Education Minor Physical Education Coaching Minor Physical Education Dance Minor

Physical Education Dance: Teaching

Minor

#### **Physics Department**

Physics Major, BA

Physics Major, BS

Astronomy Minor

Physics Minor

Dual-degree Physics/ Engineering

Program

#### **Political Science Department**

Political Science Major, BA

Political Science Minor

#### **Pre-Professional Programs**

Pre-Dentistry

Pre-Dietetics

Pre-Engineering

Pre-Law

Pre-Medicine

Pre-Nursing in Public Health

Pre-Occupational Therapy

Pre-Optometry

Pre-Pharmacy

Pre-Physical Therapy

Pre-Veterinary

#### Primate Behavior and Ecology Program

Primate Behavior and Ecology Major,

BS

#### **Psychology Department**

Psychology Major, BA Psychology Minor

#### **Science Education Department**

General Science Teaching Major, BS Middle-level Math and Science

Teaching Major, BA

Broad Area Science Teaching Minor

Elementary Education Minor Middle-level Science Teaching Minor

#### **Sociology Department**

Social Services Major, BS Sociology Major BA Sociology Minor Social Services Minor

## STEP (Science Talent Expansion Program)

## Teaching Elementary, Adolescent and Young Children Department

Early Childhood Education Major, BAEd

Elementary Education Major, BAEd Early Childhood Education Minor

#### Theatre Arts Department

Theater Arts-General Studies Major,

Theatre Arts Major, BFA

Design and Production

Specialization

Performance Specialization

Musical Theatre Specialization

Theatre Arts Minor

Non-profit Organization

Administration

Minor

#### University English as a Second Language

Program (UESL)

#### Women's and Gender Studies Program

Women's and Gender Studies Minor

#### **Accounting Department**

College of Business Ellensburg (E) Shaw-Smyser Hall, room 327 CWU-Des Moines (D) CWU-Lynnwood (L) 509-963-3340 Fax: 509-963-2875

www.cwu.edu/ accounting
See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Marvin L. Bouillon, PhD, (E) Shaw-Smyser Hall, room 340

#### Director, MPA Program

Ronald R. Tidd, PhD, CPA (E)

#### **Professors**

Marvin L. Bouillon, PhD, (E) Norman J. Gierlasinski, DBA, CPA, CFE, CIA (D) Robert E. Holtfreter, PhD (E) Karen D. Martinis, MBA, CPA (E) Ronald R. Tidd, PhD, CPA (E)

#### **Associate Professors**

MaryAnne Atkinson, PhD (L) Linda Larson, PhD, DBA, CPA, CIA, CISA, CFE (L) Michael Ruble, PhD, CPA (L) James H. Thompson, PhD, (D)

#### **Assistant Professors**

William Bailey, JD, LLM (L) Scott Leong, PhD (D) Ke Zhong, PhD (D)

#### Staff

Sharon Damm, secretary

#### **Department Information**

We help our students learn foundation knowledge and skills in accounting and business that will aid them in private, government, or non-profit careers or prepare them for additional education for public accounting careers.

#### **Accounting Major, BS**

#### **Admission Requirements**

Students must apply and be admitted to the major before enrolling in 300- and 400-level courses in the College of Business (CB). However, students may enroll in ACCT 305, ACCT 346, and/ or ACCT 350 before being admitted to the major if they have completed ACCT 252. At the time of application, all 200-level, pre-admission requirements should be substantially completed. Equivalent lower-division (100- and 200-level) courses may be transferred toward meeting the pre-admission requirements. Application forms are available in the department offices. Applicants must participate in a mandatory orientation activity as part of the application process. The completed application must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the pre-admission requirements.

Business courses taken to fulfill the requirements for an undergraduate or graduate degree from the CWU College of Business must have been taken within the last 10 years at the time of graduation. Exceptions may be made, but must be approved prior to acceptance into the College of Business by the department chair and dean or designee.

International students whose native language is not English must meet one of the following English proficiency requirements:

- A score of 71 or above on the Internet-based TOEFL or 525 or above on the paper-based TOEFL, OR
- A score of 6.0 or above on the International English Language Testing System (IELTS) exam, OR
- A 3.0 (B grade) or above in each of two college-level English composition courses from an accredited United States college or university. Contact the Office of Admissions to find out what courses are acceptable.

Students wishing to have credits from non-United States institutions considered for transfer into the College of Business for any major or minor must have their transcripts evaluated through outside credential evaluators who are members of the National Association of Credential Evaluation Services (NACES), such as the Foundation for International Services (FIS), the World Education Services (WES), or Educational Perspectives. Those endorsed by the Washington Society of CPAs are preferred.

A cumulative grade point average of 2.5 in the pre-admission requirements courses must be achieved with a minimum grade of C- (1.7) in each course. The credit/ no credit option will not be accepted for any of these courses and the department will strictly enforce the CWU policy on repeating classes. The applicant also must have completed all university general education requirements. The applicant must have earned a minimum cumulative GPA of 2.50 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Post-baccalaureate CWU accounting graduates and accounting graduates from AACSB International-accredited schools may take upper-division accounting courses on a space-available basis.

Students majoring outside CB, who are required to take courses in this college for either their major or minor, will be eligible to enroll on a space-available basis. These students will be given priority over other non-college majors wishing to enroll in courses.

If a student that has been admitted to the College of Business is placed on academic probation, suspension, had repeated academic warnings, or has repeat academic course withdrawals, and then the student's admission into the College of Business may be rescinded. Once rescinded, the student will be denied readmission to the College of Business for one year following which a written petition for readmission must be presented. The decision to readmit will be based on meeting current admission standards, analysis of the entire academic record, as well as any other sources of information deemed appropriate. Readmission is not guaranteed.

#### **Graduation Requirements**

To graduate with an accounting degree, the department requires a cumulative grade-point average of at least 2.0 in in-the-major upper-division accounting courses completed at CWU, in addition to the university grade-point average requirements that apply to all CWU major programs. Accounting majors cannot earn a business minor.

NOTE: A student with a GPA less than 2.0 in their upper-level accounting classes will only be allowed to take one upper-level accounting class per quarter. This is also the case for students on academic warning, probation, or suspension.

Upper-division (300-400 level) courses may be transferred toward meeting the major requirements only with the approval of the department chair and the college dean (or designee). Transfer students must earn at least 45 credits at CWU. Transfer students and post-baccalaureate students must complete at least 20 CWU in-the-major upper-division accounting credits to be eligible for the accounting degree. In addition to the 20 CWU in-the-major upper-division credits, transfer students and post-baccalaureate students must complete an additional 17 CWU in-the-major accounting major required course or elective credits to be eligible for the accounting degree. Lower-division (100-200 level) accounting or business courses cannot be transferred to meet upper-division (300-400 level) course requirements. No accounting courses are offered for challenge by examination. CWU students who desire to study abroad must have the department chair and dean pre-approve credits transferred back to the College of Business using the Credit Transfer Agreement.

Central accounting students who are up to 180 days prior to obtaining a degree and at least 225 quarter credits, or who are completing the Master of Professional Accountancy Program, are qualified to sit for the Uniform Certified Public Accountant (CPA) examination. Washington law requires individuals wishing to sit for the CPA examination to have completed a minimum of 36 quarter credits of study in accounting and a minimum of 36 quarter credits in related business courses. See WAC4-25-710 for educational requirements). Registration for the examination is made through the State Board of Accountancy, Olympia, Washington www.cpaboard.wa.gov/. Graduates are also prepared to sit for the Certified Management Accounting examination and the Certified Internal Auditor examination. Students should consult with their major advisor for details.

#### Pre-admission Requirements

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting Credits: (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)

- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)

#### Select one of the following: 5 credits

- MATH 153 Pre-calculus Mathematics I Credits: (5)
- MATH 154 Pre-calculus Mathematics II Credits: (5)
- MATH 170 Intuitive Calculus Credits: (5)
- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)

#### Pre-admission Total Credits: 40

#### Required Courses

- ACCT 305 Cost Accounting Credits: (5)
- ACCT 346 Income Tax Accounting I Credits: (5)
- ACCT 350 Intermediate Accounting I Credits: (5)
- ACCT 351 Intermediate Accounting II Credits: (5)
- ACCT 352 Intermediate Accounting III Credits: (5)
- ACCT 460 Auditing Credits: (5)
- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MKT 362 Essential Marketing Concepts Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Select either: 5 credits

- ACCT 455 Accounting Information Systems Credits: (5)OR
- MIS 386 Management Information Systems Credits: (5)

#### Select one of the following: 4-5 credits

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Select from the following electives: 10 Credits

- ACCT 405 Advanced Cost Accounting Credits: (5)
- ACCT 430 Accounting for Non-profit Organizations **Credits:** (5)
- ACCT 446 Income Tax Accounting II Credits: (5)
- ACCT 450 Advanced Accounting Credits: (5)
- ACCT 455 Accounting Information Systems Credits: (5)
   May not be used as an elective if taken in place of MIS 386.
- ACCT 461 Fraud Examination Credits: (5)
- ACCT 484 Professional Writing and Speaking for the Accountant Credits: (5)
   ACCT 484, if taken, should be completed no later than fall of senior year.
- BUS 341 Advanced Business Law Credits: (5)

Total Credits: 114-115

#### **Accounting Minor**

The accounting minor provides students with an introduction to three key areas of accounting. Accounting minors are only available to students with declared majors in the College of Business. Declaration forms with instructions are available online, in department and center offices. The accounting minor requires that the student take the following five required courses. Additionally, they must earn a degree in another specialty from the College of Business and earn a cumulative grade point average of 2.00 in ACCT 305, ACCT 346, and ACCT 350.

#### Required Courses

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- ACCT 305 Cost Accounting Credits: (5)
- ACCT 346 Income Tax Accounting I **Credits:** (5)
- ACCT 350 Intermediate Accounting I Credits: (5)

Total Credits: 25

#### **Accounting Courses**

#### **ACCT 251. Financial Accounting**

(5). An introduction to the theory and practice of accounting and financial reporting. Topics include the accounting cycle, financial statements, and corporate accounting for assets, liabilities, equities, revenues and expenses.

#### ACCT 252. Managerial Accounting

(5). An introduction to the use of accounting information by managers. Topics included the use of accounting information for planning and control, performance evaluation, decision making, and the statement of cash flows, along with financial statement analysis. Prerequisite: ACCT 251.

# ACCT 296. Individual Study (1-6). ACCT 301. Financial Accounting

Analysis (5). Underlying concepts, preparation, and use of financial statements from the user's viewpoint. This course is not open to accounting or business adminsitration majors. Recommended for individuals not majoring in accounting or business. Not open to accounting and business administration majors.

#### ACCT 305. Cost Accounting (5).

Economics of cost accounting; industrial analysis, production control through costs, types of cost systems, and burden application. Prerequisites: a grade of C- or higher in ACCT 251 and ACCT 252.

#### ACCT 346. Income Tax Accounting

I (5). Accounting theory and

practices of federal income taxation based on a study of governmental publications—the laws, regulations, and digest of official income tax decisions. Prerequisite: C- or better in ACCT 251 and ACCT 252.

#### **ACCT 350. Intermediate**

Accounting I (5). An in-depth study of financial accounting theory and practice. The first of a three-course intermediate sequence, this course is intended for the student who requires more than principles level accounting coverage.

Prerequisite: C- or higher in ACCT 251 and ACCT 252.

#### **ACCT 351. Intermediate**

Accounting II (5). The second of a three-course intermediate sequence, this course continues ACCT 350, covering complex topics in accounting and financial reporting. Prerequisite: ACCT 350 with a C- or higher, and admission to the accounting or business administration major.

#### **ACCT 352. Intermediate**

Accounting III (5). The third of a three-course intermediate sequence, this course continues ACCT 351, covering complex topics in accounting and financial reporting. Also included are special topics and existing/ emerging issues. Prerequisite: C- or higher in ACCT 351, and admission to the accounting or business administration major.

#### ACCT 405. Advanced Cost

Accounting (5). Computation of

mix, yield, and variances; value of information theory systems design; and decision models relating to control of costs.

Prerequisites: ACCT 305 and admission to the accounting major.

# ACCT 430. Accounting for Non-profit Organizations (5).

Accounting and budgetary controls for governmental units and non-profit service organizations, including educational institutions (from school districts to universities) and hospitals. Emphasis is on the advantages, uses, disadvantages, and differences in fund accounting. Prerequisites: ACCT 350 and admission to the accounting major.

#### **ACCT 446. Income Tax Accounting**

II (5). Tax accounting practice, including gross income deductions, depreciation, capital gains and losses, estates and trusts, corporate problems, and administrative procedures. Prerequisites: ACCT 346 and admission to the accounting major.

#### ACCT 450. Advanced Accounting

(5). Accounting theory and practice for business, combinations and consolidated financial statements, foreign currency transactions and translation, partnerships, and advanced special topics.

Prerequisites: ACCT 351 and admission to the accounting major.

# ACCT 455. Accounting Information Systems (5).

Accounting information system development process and related information systems technologies. Includes the application, control, and audit of accounting information systems. Prerequisites: ACCT 350 and admission to either the accounting or business administration major.

ACCT 460. Auditing (5). Auditor's functions and responsibilities. Evaluation of the system of internal control, the determination of appropriate auditing procedures, and the extent of their application. Prerequisites: ACCT 351 and admission to the accounting major.

#### ACCT 461. Fraud Examination (5).

Detection and prevention of financial statement fraud and other forms of business fraud. ACCT 461 and ACCT 561 are layered courses; students may not receive credit for both. Prerequisites: ACCT 351 and admission to the accounting major.

ACCT 484. Professional Writing and Speaking for the Accountant (5). Develop written

and verbal communications skills for practical application in public, private, and governmental accounting fields. Includes interviewing techniques, preparation and presentation of group and individual reports, and preparation of resumes, letters, memos, and work papers. Prerequisites: ACCT 351 and admission to the accounting major. ACCT 460 is also a recommended prerequisite.

ACCT 490. Cooperative Education (1-12). An individualized. contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. (Student should have an overall GPA greater than a cumulative 2.0 in order to get internship credit.) Note: While ACCT 490 can no-longer be used as an accounting elective in the accounting major, it can still be used toward the 20 hours of internship credit allowed by the university and for the 225-hour requirement for the CPA examination. Prerequisites: prior

approval and admission to the

accounting major. May be repeated for credit. Grade will either be S or U.

ACCT 492. Volunteer Income Tax Assistance (2). Preparation of tax returns of low income taxpayers, including tax return preparation training. Prerequisites: ACCT 346 and admission to the accounting major. Grade will either be S or U.

ACCT 493. Applied Accounting Techniques (3). Under direct supervision of the instructor, assist in answering accounting students' questions and aid in completion of homework for a minimum of six hours weekly. Other tasks as assigned. Prerequisite: admission to the accounting major. Grade will either be S or U.

ACCT 496. Individual Study (1-6). Prerequisite: admission to the accounting major. May be repeated for credit.

ACCT 498. Special Topics (1-6).
Prerequisite: admission to the accounting major. Repeatable for credit under different subtitle.

ACCT 499. Seminar (1-5).

Prerequisite: admission to the accounting major. Repeatable for credit under different subtitle.

### **Advanced Programs Department**

College of Education and Professional Studies Ellensburg Black Hall, room 214-25 509-963-1751 Fax: 509-963-1424

www.cwu.edu/advanced-programs

See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff Chair

Henry Williams, EdD

#### Professors

Henry Williams, EdD James Pappas, EdD

#### **Associate Professors**

Marwin Britto, PhD Andrea Sledge, PhD

#### **Assistant Professor**

Dennis Szal, EdD

#### Lecturer

Leona Lindvig, MEd, library media

#### Staff

Stephanie Harris, secretary senior

For more information on the Library Media Endorsement Program please see Advanced Programs in the graduate studies section of the catalog.

#### **Education Library Media Courses**

# **EDLM 414. Technology Tools for the Library** (3). Provides an

introduction to design and production of various instructional materials from manual to more complex computer techniques. Technology tools for the library, and storage media will be explored. Projects will be developed to explore the various technologies. EDLM 414 and EDLM 514 are layered courses, students may not receive credit for both.

#### EDLM 416. Application of

Technology Resources (3). This course provides an introduction to technology tools, processes, and web applications that support information literacy. Web 2.0 and other collaboration tools will be explored. Projects will be developed to explore the application of these technologies. EDLM 416 and EDLM 516 are layered courses, students may not receive credit for both. Prerequisite: EDCS 316.

#### **EDLM 426. Instructional Methods in the Library** (3). Apply instructional strategies in teaching information literacy

skills and motivating students to read. Explore collaborative

learning techniques which will integrate information literacy skills into the standards based curriculum. EDLM 426 and EDLM 526 are layered courses, students may not receive credit for both.

# EDLM 436. Survey of Children's and Young Adult Literature (3).

Considers the field of children's and young adult literature; literary genres, major literary awards, leading representative authors, historical and recent trends. Includes topics of cultural diversity and reading promotion. EDLM 436 and EDLM 536 are layered courses, students may not receive credit for both.

#### EDLM 448. Collection

Development/Library Media (3). Explore the methods used and the issues and solutions involved in developing a collection in a school library media center. EDLM 448 and EDLM 548 are layered courses; students may

# EDLM 458. Cataloging and Classification for Library Media

not receive credit for both.

(3). Cataloging and classification of library media materials with an emphasis on MARC records. Includes Dewey Decimal classification system, authorized

subject headings, and assigning MARC tags using original and copy cataloging of book and non-print items. EDLM 458 and EDLM 558 are layered courses, students may not receive credit for both.

# EDLM 468. Research and Information Fluency (3).

Reference tools, information sources, search strategies, research models, and evaluative techniques will be explored as tools to enable students to be more information literate. EDLM 568 and EDLM 468 are layered courses, students may not receive credit for both.

# EDLM 478. Administration of Library Media Programs (3).

Develops competency in administering materials, equipment, and services of library media program as integral part of the school. Focus on leadership, personnel, budgets, facility planning, state and national standards in planning, evaluation and program development. EDLM 478 and EDLM 578 are layered courses, students may not receive credit for both.

#### **Aerospace Studies Program**

College of Education and Professional Studies Ellensburg Peterson Hall, room 203 509-963-2314 800-CWU-ROTC

Fax: 509-963-2235 www.cwu.edu/airforce

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Lieutenant Colonel Jason A. Densley, MS, in law; and MA, military operational art and science

#### **Assistant Professors**

Major Matthew G. Wilson, MA, instrumental conducting Captain Thomas T. vonAhlefeld, BS, criminology

#### Staff

Staff Sergeant Jeremy S. McLane, non-commissioned officer-in-charge, personnel Staff Sergeant Jerome A. Yates, non-commissioned officer-in-charge, knowledge operations management Kendra L. Sterkel, program coordinator

#### **Department Information**

The United States Air Force Reserve Officer Training Corps (AFROTC), represented at CWU by Detachment 895, develops leaders in preparation to be commissioned as second lieutenants in the U.S. Air Force. Upon completing a baccalaureate/ master's degree and all officer qualifications, graduates are commissioned and enter active duty. The program is designed to work with your other academic courses and is taught by active duty officer/ professors. The Air Force is seeking qualified candidates from under-represented groups including women, African Americans, Hispanics, Asian/ Pacific Islanders, and Native American/ Alaskan Natives.

The program is designed to educate students about aerospace studies, with a leadership lab to provide a unique opportunity to practice leadership skills. The Aerospace Studies courses cover an introduction to the Air Force, history, leadership, and regional studies/ preparation for active duty. Between sophomore and junior year, students attend a four-week field-training encampment, where they are introduced to an intensive training environment designed to teach critical teamwork, leadership, and fellowship skills. Each year there is also an opportunity to visit an Air Force base to see the environment and meet members of the Air Force. All textbooks, materials, and uniforms are provided.

#### **Admission Requirements**

Students from any academic major degree program with a minimum 2.0 cumulative GPA are eligible. Enrollment in the freshman and sophomore classes creates no obligation to the Air Force. A contractual agreement is required after the sophomore year to continue in the ROTC program. Students are eligible to compete for an enrollment allocation into the POC only after successfully passing a medical examination, physical fitness test and having an excellent SAT, ACT or AFOQT (Air Force Officer Qualifying Test) score.

#### Transfer Students

Students transferring from other institutions who are interested in pursuing a commission in the Air Force should contact the Unit Admissions Officer prior to their fall quarter, if possible.

#### Scholarships

AFROTC competitive merit scholarships are available and awarded to both non-technical and technical majors. A scholarship will normally cover tuition, fees, and books. Those who have never been a full-time college student may apply for a four-year AFROTC scholarship at www.afrotc.com by December 1 (the year prior to attending college). College freshmen and sophomores may compete for three-year and two-year scholarships. All contracted cadets in good standing receive a monthly stipend, separate from any scholarships.

#### **Special Training Opportunities**

There are a variety of summer programs available to enhance a student's knowledge of the Air Force. Opportunities such as base visits, flying, parachuting, Air Force Office of Special Investigations, engineering, space orientation, as well as trips to other countries to enhance cultural awareness or language immersion. All travel and meals are provided.

#### **Aerospace Studies Minor**

AFROTC courses are accredited and may be taken as an academic minor or as free electives. The aerospace studies minor is awarded upon successful completion of the required courses.

#### Required Courses

- AFRO 301 Air Force Leadership Studies Credits: (3)
- AFRO 302 Air Force Leadership Studies Credits: (3)
- AFRO 303 Air Force Leadership Studies Credits: (3)
- AFRO 401 National Security Affairs and Preparation for Active Duty Credits: (3)
- AFRO 402 National Security Affairs and Preparation for Active Duty Credits: (3)
- AFRO 403 National Security Affairs and Preparation for Active Duty Credits: (3)

Total Credits: 18

#### **Aerospace Studies Courses**

AFRO 101. Foundations of the USAF (1). A survey course briefly overviewing Air Force structure, missions, organizations, officership, professionalism, and an introduction to communicative skills.

AFRO 101LAB. GMC Leadership Laboratory (2). Practical experience in Air Force customs and courtesies, physical fitness, drills, ceremonies, and opportunities available to commissioned officers. Co-requisite: AFRO 101. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 102. Foundations of the USAF (1). A survey course briefly overviewing Air Force structure, missions, organizations, officership, professionalism, and an introduction to communicative skills.

AFRO 102LAB. GMC Leadership Laboratory (2). Practical experience in Air Force customs and courtesies, physical fitness, drills, ceremonies, and opportunities available to commissioned officers. Co-requisite: AFRO 102. Two hours weekly plus mandatory physical training. Grade will either be S or II.

AFRO 103. Foundations of the USAF (1). A survey course briefly overviewing Air Force structure, missions, organizations, officership, professionalism, and an introduction to communicative skills.

**AFRO 103LAB. GMC Leadership Laboratory** (2). Practical experience in Air Force customs and courtesies, physical fitness, drills,

ceremonies, and opportunities available to commissioned officers. Co-requisite: AFRO 103. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 201. The Evolution of USAF Air and Space Power (1). Through historical examples, we examine the development of Air Force capabilities and missions to demonstrate the evolution of today's USAF air and space power. AFRO 201LAB. GMC Leadership Laboratory (2). Practical experience in Air Force customs and courtesies, drills, ceremonies, giving military commands, and preparation for field training. Corequisite: AFRO 201. Two hours weekly plus mandatory physical training. Grade will either be S or

AFRO 202. The Evolution of USAF Air and Space Power (1). Through historical examples, we examine the development of Air Force capabilities and missions to demonstrate the evolution of today's USAF air and space power. AFRO 202LAB. GMC Leadership Laboratory (2). Practical experience in Air Force customs and courtesies, drills, ceremonies, giving military commands, and preparation for field training. Corequisite: AFRO 202. Two hours weekly plus mandatory physical training. Grade will either be S or U. AFRO 203. The Evolution of USAF Air and Space Power (1). Through historical examples, we examine the development of Air Force capabilities and missions to

demonstrate the evolution of today's USAF air and space power. **AFRO 203LAB. GMC Leadership Laboratory** (2). Practical experience in Air Force customs and courtesies, drill and ceremonies, giving military commands, and preparation for field training. Corequisite: AFRO 203. Two hours weekly plus mandatory physical training. Grade will either be S or

AFRO 296. Individual Study (1-3). May be repeated for credit. AFRO 298. Special Topics (1-6). May be repeated for credit under different subtitle.

AFRO 301. Air Force Leadership Studies (3). Provides leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer.

AFRO 301LAB. POC Leadership Laboratory (2). Students plan, organize, coordinate, and direct cadet corps activities, enhancing communication, management, and other leadership skills. Co-requisite: AFRO 301. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 302. Air Force Leadership Studies (3). Provides leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer.

**AFRO 302LAB. POC Leadership Laboratory** (2). Students plan, organize, coordinate, and direct

cadet corps activities, enhancing communication, management, and other leadership skills. Co-requisite: AFRO 302. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 303. Air Force Leadership Studies (3). Provides leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and the communication skills required of an Air Force junior officer.

AFRO 303LAB. POC Leadership Laboratory (2). Students plan, organize, coordinate, and direct cadet corps activities, enhancing communication, management, and other leadership skills. Co-requisite: AFRO 303. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 350. Four-week Summer Field Training (3). Organization, operation, and mission of an Air Force base; physical conditioning; applied leadership training and evaluation; marksmanship; survival orientation; and field exercises. May be repeated for credit. Grade will either be S or U.

**AFRO 398. Special Topics** (1-6). May be repeated for credit under different subtitle.

AFRO 401. National Security
Affairs and Preparation for Active
Duty (3). Examines national
security process, regional studies,
advanced leadership ethics, Air
Force Doctrine, officership, military
justice, and preparation for active
duty.

AFRO 401LAB. POC Leadership Laboratory (2). Advanced leadership experiences involving planning and conducting cadet training activities, oral and written communications, and developing human relations skills. Co-requisite: AFRO 401. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 402. National Security
Affairs and Preparation for Active
Duty (3). Examines national
security process, regional studies,
advanced leadership ethics, Air
Force Doctrine, officership, military
justice, and preparation for active
duty.

AFRO 402LAB. POC Leadership Laboratory (2). Advanced leadership experiences involving planning and conducting cadet training activities, oral and written communications, and developing human relations skills. Co-requisite: AFRO 402. Two hours weekly plus mandatory physical training. Grade will either be S or U.

AFRO 403. National Security
Affairs and Preparation for Active
Duty (3). Examines national
security process, regional studies,
advanced leadership ethics, Air
Force Doctrine, officership, military
justice, and preparation for active
duty.

AFRO 403LAB. POC Leadership Laboratory (2). Advanced leadership experiences involving planning and conducting cadet training activities, oral and written communications, and developing human relations skills. Co-requisite: AFRO 403. Two hours weekly plus mandatory physical training. Grade will be either S or U.

AFRO 496. Individual Study (1-3). May be repeated for credit. AFRO 498. Special Topics (1-6). May be repeated for credit under different subtitle.

### **Africana and Black Studies Program**

College of Arts and Humanities
Ellensburg
Language and Literature Bldg., room 423
509-963-1546
www.cwu.edu/~africana
See website for how this program may be used for educational and career purposes.

#### **Program Director**

Bobby Cummings, PhD, English, Michaelsen Hall, room 133

#### **Program Advisor**

Bobby Cummings, PhD

#### **Program Faculty**

#### **Professors**

Delores Cleary, PhD, sociology, ethnic studies, American Indian studies
Bobby Cummings, PhD, curriculum, rhetoric and composition, African American literature
Paulus Pimomo, PhD, English
Charles Reasons, LLB, criminology, criminal justice, law
Todd Schaefer, PhD, political science

#### **Associate Professors**

Lois Breedlove, MA, journalism Nelson Pichardo, PhD, sociology, ethnic studies

#### **Assistant Professors**

Teresa Francis, JD, LLM, criminal law, correctional law Raymond Hall, PhD, folklore

#### Lecturer

Karen Francis-McWhite, MA, English

#### **Africana and Black Studies Minor**

The Africana and black studies minor program offers interdisciplinary study of the history, culture, economics, and political institutions that have shaped the experiences of people of African ancestry throughout the world. The program serves as an interdisciplinary intellectual center for study and research in the many dimensions of African and black diasporic experiences, and for application of knowledge and scholarship to advance the common good. It provides access for students and scholars to a broad range of information and research by drawing upon the insights of English, geography, history, political science, music, and other disciplines at Central. The minor is designed for all highly motivated and adventurous students in all majors who have a serious interest in learning about the black diaspora and its impact on the individual countries and on the interdependent world in which we live.

Students in the minor are encouraged to take advantage of study-abroad programs to Africa and to countries of the black diaspora. Africana and Black Studies minors are expected to participate actively in co-curricular multicultural learning experiences offered by the following: student organizations, Students for the Dream Living Learning Community, Diversity Education Center, Campus Life activities, Center for the Dream, University Housing and New Student Programs, Center for Student Empowerment, Latino and Latin American Studies Program, and the David Waine Coon Center for Excellence in Leadership.

Required Courses: Credits: (10)

- ABS 110 Expressive African American Culture Credits: (5) OR
- ABS 201 Introduction to Africana Studies Before 1865 Credits: (5) OR
- ABS 202 Introduction to Africana Studies, 1865–Present Credits: (5)
- HIST 332 History of the Black Diaspora Credits: (5)

Africana Electives: Credits: (12-15)

- ABS 300 Black Diaspora Studies **Credits:** (5)
- ABS 302 Hip Hop as Global Culture **Credits:** (5)
- ABS 303 African and African American Fiction as History Credits: (5)
- ABS 305 20th Century Black Women's Literature Credits: (4)
- ABS 306 African Women: Models in Empowerment Credits: (5)
- ABS 310 Black Diaspora: France and French Caribbean Credits: (4)
- ABS 400 Race and Literature Credits: (4)
- ENG 330 African American Literature Credits: (5)
- HIST 331 Colonial Africa Credits: (5)

Social Sciences Electives: Credits: (4-5)

Take one of the following courses:

- POSC 365 African Politics Credits: (5)
- SOC 365 Minority Groups Credits: (5)
- ETS 354 Minority Experiences **Credits:** (5) **OR** SOC 354 Minority Experiences (5)
- LAJ 402 African Americans and the Constitution Credits: (4)

Special Topics: Credits: (3-6)

• ABS 398 - Special Topics **Credits:** (1-6) Credits (4-6)

Total Credits: 30-36

#### ABS 110. Expressive African

American Culture (5). An interdisciplinary exploration of a variety of perspectives in African American folk culture, from oral expressions developed during slavery to contemporary rap and stand-up comedy. The course includes an overview of the worldwide contribution of black oral performative art.

Prerequisite: ENG 101 with a grade of C- or higher. AH-Literature and Humanities

ABS 201. Introduction to Africana Studies Before 1865 (5). A survey of African American studies from 1400 to 1865 which traces the development of African Americans through the Middle passages into the antebellum Southern United States.

ABS 202. Introduction to Africana Studies, 1865–Present (5). Traces the development of the African Diaspora in the United States from reconstruction to the present.

#### ABS 300. Black Diaspora Studies

(5). Examines communities developing from displacement of Africans during colonization of

the New World and the impact of these communities on Latin America and the Caribbean.

#### ABS 302. Hip Hop as Global

Culture (5). This course examines Africana and black diasporic connections through popular culture using hip hop music. Hip hop allows us to study and understand contemporary history of black youth in Africa, Europe, and North America.

#### ABS 303. African and African American Fiction as History (5).

The course will use black fiction to study the history of black people, using works by writers such as Chinua Achebe, Richard Wright, James Baldwin, and Toni Morrison. It will also use films and poems.

ABS 305. 20th Century Black Women's Literature (4). This seminar reads poetry, fiction, memoir, and criticism by and about black American women from 1919 to the 1990s. Prerequisite: ENG 101.

ABS 306. African Women: Models in Empowerment (5). This online course introduces students to the role of women in Africa's

development. Using gender, feminist, and globalization perspectives, students will analyze women's roles in leadership, economics, education, and environmental issues in Africa.

#### ABS 308. African American

Folklore (5). This course focuses on various elements of African American Folklore; including, but not limited to folktales, folklife, music, dance, and material culture.

# ABS 310. Black Diaspora: France and French Caribbean (4).

Examines the arts and culture of historical and contemporary communities in France and the French Caribbean that developed in relation to historical events in France and the colonization of Africa and the New World. Prerequisite: ENG 101.

**ABS 398. Special Topics** (1-6). May be repeated for credit.

#### ABS 400. Race and Literature (4).

Course reviews theory and use of "race" in the construction of knowledge and in English canonical texts.

### **American Indian Studies Program**

College of the Sciences Ellensburg Language and Literature, room 422

509-963-1546

www.cwu.edu/native-american

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

#### **Program Director**

Toni Culjak, PhD, English, Language and Literature Building, room 408D

#### **Professors**

Tracy Andrews, PhD, anthropology
Kathleen Barlow, PhD, anthropology
Delores Cleary, PhD, sociology
Toni Culjak, PhD, English
Steven Hackenberger, PhD, anthropology
Patrick McCutcheon, PhD, anthropology
Micheal Ogden, PhD, communication
Morris Ubelacker, PhD, geography

#### **Associate Professors**

Daniel Herman, PhD, history Patrick Lubinski, PhD, anthropology

#### Christopher Schedler, PhD, English

#### Lecturers

Sharron Connor, MA, philosophy and religious studies Neal Endacott, PhD, anthropology Marla Carroll, PhD, anthropology

#### American Indian Studies Minor

The American Indian studies minor program goals are to provide an interdisciplinary opportunity to learn about American Indian peoples, to facilitate research and creative activities that concern American Indian peoples, and to recognize the diversity represented in the rich heritage of American Indians. Students with a minor in American Indian studies will use academic and experiential knowledge to appreciate the natural and cultural diversity of American Indian people.

#### Required Courses

- AIS 101 Pre-contact Period of American Indians, Pre-AD 1492 Credits: (5)
- AIS 102 Contact Period of American Indians Credits: (5)
- AIS 103 Emergence of Contemporary American Indians Credits: (5)

#### Humanities Electives: 9-10 Credits

Select at least two of the following courses:

- AIS 321 American Indian Spirituality Credits: (5)
- ENG 332 American Indian Literature Credits: (5)
- ENG 334 American Indian Oral and Nonfiction Literature Credits: (5)
- ENG 461 Studies in Film and Culture Credits: (5)
- HIST 438 Conquests and Compromises: American Indian History since 1492 Credits: (5)
- PHIL 320 American Indian Philosophy Credits: (5)
- RELS 320 American Indian Spirituality Credits: (5)

#### Science Electives - 8 Credits

Select at least two of the following courses:

- ANTH 324 North American Archaeology Credits: (4)
- ANTH 325 Prehistory of the Pacific Northwest Credits: (4)
- ANTH 341 Native American Cultures of the Pacific Northwest Credits: (4)
- ANTH 347 Native American Cultures of North America Credits: (4)
- POSC 411 American Indian Politics and Sovereignty Credits: (4)
- SOC 366 Sociology of American Indians Credits: (5)

#### Additional course opportunities in:

The below courses are offered throughout the academic year under different titles.

- AIS 296 Individual Study **Credits:** (1-6)
- AIS 490 Cooperative Education Credits: (1-12)
- AIS 491 Workshop Credits: (1-6)
- AIS 496 Individual Study **Credits:** (1-6)
- AIS 498 Special Topics Credits: (1-5)

Total Credits: 32-33

#### **American Indian Studies Courses**

#### AIS 101. Pre-contact Period of American Indians, Pre-AD 1492

(5). An interdisciplinary approach explores the lifeways and environments of American Indians prior to European contact and settlement. Sources of precontact information consist of the archaeological, oral history, and paleoenvironmental records. SB-

Perspectives on Cultures, Experiences of U.S. (W)

AIS 102. Contact Period of
American Indians (5). An
interdisciplinary study of the life
ways and environments of
American Indians during the
period of European contact.
Sources of contact period

information come from the

archaeological, American Indian and European written and oral history records. SB-Perspectives on Cultures, Experiences of U.S. (W)

AIS 103. Emergence of
Contemporary American
Indians (5). An interdisciplinary
approach explores the emergence
of contemporary American

Indians after AD 1890 with an emphasis on social, political, and cultural aspects. Sources of information about this period come from written and oral history. SB-Perspectives on Cultures, Experiences of U.S. (W)

AIS 296. Individual Study (1-6).

AIS 321. American Indian

Spirituality (5). Introduction to American Indian spirituality with emphasis on myths, rituals, and beliefs; including historical, economic, political and legal issues that influence the ways of American Indian spiritual practice; Ghost Dance, Native American Church, etc. AIS 321 and RELS 320 are cross-listed courses; students may not receive credit for both.

AIS 490. Cooperative Education (1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating

employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

AIS 491. Workshop (1-6).

Occasional workshops will be offered to provide a context for American Indian artists/ scholars to teach. May be repeated for credit. Grade will either be S or U.

AIS 496. Individual Study (1-6). AIS 498. Special Topics (1-5).

#### **Anthropology & Museum Studies Department**

College of the Sciences Ellensburg Dean Hall, room 357 509-963-3201 Fax: 509-963-3215

www.cwu.edu/anthropology

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

Chair

Kathleen Barlow, PhD

#### Professors

John A. Alsoszatai-Petheo, PhD, biological anthropology

Tracy J. Andrews, PhD, sociocultural anthropology, ethnicity, medical and ecological anthropology, gender, Native North America

Kathleen Barlow, PhD, psychological anthropology, learning and culture, museum anthropology, art and aesthetics, resource management

Anne S. Denman (emeritus), PhD, American culture, intercultural issues

Steven Hackenberger, PhD, archaeology, cultural resource management, North America and Caribbean

Patrick Lubinski, PhD, archaeology, zooarchaeology, cultural resource management, North America

Patrick McCutcheon, PhD, archaeology, evolutionary and environmental archaeology, cultural resource management

Lori K. Sheeran, PhD, biological anthropology, primate ecology, gibbons, China

William C. Smith (emeritus), PhD, archaeology, museum studies, comparative world prehistory

Penglin Wang, PhD, linguistic and cultural anthropology, East and Central/ Inner Asia, China

#### **Associate Professors**

Mark Auslander, PhD, director, museum of culture and environment, art, aesthetics, museums, religion, historical anthropology, race, development, slavery; Africa, US

Loran E. Cutsinger, PhD, cultural anthropology, informal economy, gender, globalization, transnationalism, British Caribbean Mary Lee Jensvold, PhD, primate behavior and ecology, communication, CHCI

Lene Pedersen, PhD, sociocultural anthropology, visual and environmental anthropology, postcolonialism, SE Asia (Indonesia), E. Africa, circumpolar North

#### **Assistant Professors**

Raymond Hall, PhD, African folk lore, Africana and Black Studies Program
Joseph Lorenz, PhD, biological anthropology, anthropologist genetics, DNA, ancient DNA, genetics of American Indians,
North America

#### Staff

Penelope Anderson, secretary senior

#### **Department Information**

Anthropology presents an integrated perspective on the cultural and biological nature of humans. Anthropologists study present and past human diversity through classroom, laboratory, and field studies in cultural and biological anthropology, including archaeology, linguistics, ethnology, and applied anthropology.

Students interested in major and minor programs should contact the department office as soon as possible for further information, application forms, and assignment of an advisor. Anthropology majors are expected to meet with their advisors at least once a quarter.

Students need a GPA of 2.5 or higher to be admitted to the department.

#### Special Programs

Reflecting the broad nature of anthropological study, the department directly sponsors or is affiliated with a wide range of onand off-campus options to broaden classroom experiences. Further information about the following programs is available through the anthropology department office:

- Museum Studies Program, offering coursework, field experiences, and projects with local and regional museums
- Central Washington Archaeological Survey (CWAS), a service, research, and public information facility with special
  emphasis in the Northwest
- Bachelor of science in primate behavior and ecology, an interdisciplinary program providing undergraduate training
  in method and theory of primatology as basis for research, laboratory, and field experience
- Master of science in resource management, offering an integrated program in natural and cultural resource management including anthropology classes in cultural resource management, and historic preservation
- Master of science in primate behavior, an interdisciplinary program in primatology, including courses in the history, field and lab methods, and current topics and issues in the discipline
- Center for Spatial Information, providing a range of Geographic Information System (GIS) tools for analysis of social and natural science data
- Summer workshops and field schools, including survey archaeology in eastern Washington, primate and biodiversity studies in China, and workshops in forensic anthropology
- Study abroad opportunities coordinated through the CWU Office of International Study and programs
- Departmental honors program encourages individualized research and study in a sub-area of anthropology. It is open to junior and senior students with an anthropology major GPA of 3.0 or better
- Anthropology Student Association, an active student group which sponsors academic and social events related to the discipline.

#### 

#### **Bachelor of Arts**

(NOTE: Students seeking a BA degree must complete one year college/university study or two years high school study of a single foreign language.)

Subfield identification key: A=Archaeology B=Biological Anthropology C=Cultural Anthropology L=Linguistics S=Seminars

#### Anthropology 45 Credit Major, BA

This 45-credit major must be accompanied by a major in a discipline related to anthropology. The program will consist of coursework focused on areas related to the dual major and must be designed in close consultation with an anthropology advisor. A program proposal must be approved prior to admission to this BA program.

#### Required Courses

- Introductory (100-level) Credits: (15)
- Intermediate (300-level) must include three subfields- Credits: (12-16)
- Advanced Courses (400-level) must include two subfields- Credits: (8-12)
- ANTH 301 Anthropology: Principles and Assessment Credits: (2)
- ANTH 458 Senior Comprehensive Survey Credits: (4)

Total Credits: 45

#### Anthropology Major, BA

This liberal arts and sciences major provides background to prepare students for any vocation, in that a measure of achievement in all careers is success in human relationships. The major is also consistent with employment in a variety of business, government and social service areas.

NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.

#### Required Courses

Anthropology Core Requirements

- ANTH 110 Introduction to Biological Anthropology Credits: (5)
- ANTH 110LAB Biological Anthropology Laboratory Credits: (1)
   OR ANTH 309LAB Skeletal Analysis and Comparison
- ANTH 120 Introduction to Archaeology Credits: (5)
- ANTH 130 Introduction to Cultural Anthropology **Credits:** (5)
- ANTH 180 Introduction to Linguistics Credits: (5)
- ANTH 301 Anthropology: Principles and Assessment Credits: (2)

Anthropology Core Total Credits: 23

Additional Required Courses

- Select 300-level courses from at least three subfields: Archaeology, Biological Anthropology, Cultural Anthropology, Linguistics-Credits: (16)
- Advanced (400-level) courses (must include a department-approved, 400-level seminar course) Credits: (16)
- Department-approved electives (4)
- ANTH 458 Senior Comprehensive Survey Credits: (4)

Total Credits: 63

#### Anthropology Major, BS

This major prepares students for graduate work in anthropology or for careers in anthropology and closely related fields. Electives are chosen in consultation with an advisor to lead into specialization in areas such as: ethnology, linguistics, archaeology, environmental studies, or biological anthropology. Students in this major must have course schedules approved quarterly by their departmental advisors.

Anthropology Core Requirements

- ANTH 110 Introduction to Biological Anthropology Credits: (5)
- ANTH 110LAB Biological Anthropology Laboratory Credits: (1)
   OR ANTH 309LAB Skeletal Analysis and Comparison
- ANTH 120 Introduction to Archaeology Credits: (5)
- ANTH 130 Introduction to Cultural Anthropology Credits: (5)
- ANTH 180 Introduction to Linguistics Credits: (5)
- ANTH 301 Anthropology: Principles and Assessment Credits: (2)

Anthropology Core Total Credits: 23

Required Courses

Intermediate: (300-level courses) Credits: 24

- Select one 300-level course from each subfield: Archaeology, Biological Anthropology, Cultural, Linguistics Credits (16)
- Select additional 8 credits from 300-level courses. Credits (8)

Advanced (400-level courses) Credits: 20

- Theory Course: ANTH 410 or ANTH 421 or ANTH 451 Credits: (4)
- ANTH 458 Senior Comprehensive Survey Credits: (4)
- Department-approved 400-level seminar Credits: (4)
- Select additional 8 credits of advanced (400-level) courses Credits: (8)

Electives in Anthropology and related fields (must include a course in statistics) Credits: 8

Total Credits: 75

Note: Students planning on graduate school in linguistics are strongly advised to select ANTH 382

#### **Anthropology Minor**

Required Courses

• Department-approved electives Credits: (10) (Students in teacher education must include ANTH 324 or 347, and ANTH 355 or 381 within the 10 credits of electives. ANTH 381 suggested for those enrolled in Teaching English as a Second Language.)

Select three from the following: Credits: 15-16

- ANTH 110 Introduction to Biological Anthropology **Credits:** (5)
- ANTH 110LAB Biological Anthropology Laboratory Credits: (1) **OR**
- ANTH 309LAB Skeletal Analysis and Comparison **Credits:** (2) \*If ANTH 309LAB is taken then one credit will be applied to program electives.
- ANTH 120 Introduction to Archaeology Credits: (5)
- ANTH 130 Introduction to Cultural Anthropology Credits: (5)
- ANTH 180 Introduction to Linguistics Credits: (5)

Total Credits: 25-26

#### **Museum Studies Minor**

The museum studies minor prepares students for entry-level, museum-related employment and/or for graduate work in museum studies. To be eligible for admission to this program, students should be enrolled in a related major (e.g., anthropology, art, biology, geology, geography, history, recreation and tourism, science education, etc.).

Approval by the anthropology department chair is also required.

#### Required Courses

- Department-approved electives Credits: (7)
- ANTH 360 Introduction to Museum Studies Credits: (4)
- ANTH 361 Museum Exhibit Design Credits: (4)
- ANTH 362 Museum Curation and Management Credits: (4)
- ANTH 490 Cooperative Education Credits: (1-12) (must be taken for 6 credits)

#### One of the following - Credits: 5

- ANTH 107 General Anthropology Credits: (5) OR
- ANTH 110 Introduction to Biological Anthropology Credits: (5) OR
- ANTH 120 Introduction to Archaeology Credits: (5) OR
- ANTH 130 Introduction to Cultural Anthropology **Credits:** (5)

Total Credits: 30

#### Non-profit Organization Administration Minor (ANTH)

(See catalog under communication department for details)

The minor in non-profit organization administration is an interdisciplinary minor designed to provide an understanding of the organization, financing and management issues in non-profit organizations. It is designed to complement majors in artistic, advocacy and educational endeavors. The minor provides practical, hands-on skills as well as discussion of the issues facing non-profit organizations.

Total Credits: 29-30

#### **Anthropology Courses**

#### ANTH 107. General Anthropology

(5). Human biological and cultural adaptations: survey of concepts, methods, and perspectives on past and present. SB-Foundations of Human Adaptation, Behavior.

# ANTH 110. Introduction to Biological Anthropology (5). A survey of the history, philosophy and theory of biological anthropology including biological relationships to other primate forms, the fossil record, and evolutionary adaptations. Corequisite: ANTH 110LAB. NSPatterns, Connections, Natural World

# ANTH 110LAB. Biological Anthropology Laboratory (1). Practical laboratory experience with data in human osteology, comparative primate anatomy and ethology, forensic anthropology, genetics, and the fossil record of human evolution. Two hours laboratory per week. ANTH 110LAB required for anthropology majors and minors; optional for students completing breadth requirements of General Education.

#### ANTH 120. Introduction to Archaeology (5). Introduction to the concepts, methods, and development of archaeology. SB-Foundations of Human Adaptation, Behavior (W)

# ANTH 130. Introduction to Cultural Anthropology (5). Understanding human cultures: concepts, methods, and basic data involved in the comparative study of human cultural adaptations. SB-Perspectives on World Cultures.

# ANTH 180. Introduction to Linguistics (5). Backgrounds, developments, and relation to other fields of study. ANTH 180 and ENG 180 are cross-listed

courses; students may not receive credit for both.

#### ANTH 296. Individual Study (1-6). May be repeated for credit. By permission.

ANTH 298. Special Topics (1-6).
ANTH 301. Anthropology:
Principles and Assessment (2).
Principles and assessment course for majors: current topics and careers, research, funding; development of assessment portfolios and individual program plans. Required for all BA and BS anthropology majors at admission.

# ANTH 309LAB. Skeletal Analysis and Comparison (2). Upperdivision introductory laboratory course which provides critical visual and hands-on exposure essential to students planning to continue with coursework in fossil primate studies, human evolution, and other applications, such as forensic anthropology. Meets anthropology subfield Biological Anthropology (B).

#### ANTH 310. Research/Laboratory in Biological Anthropology (1-2). Laboratory research analysis of biological anthropology materials. May be taken concurrently with and as a supplement to other 300-level courses in biological anthropology. Prerequisite: previous college work in biological anthropology or other natural sciences, and permission of instructor. No more than 10 credits of ANTH 310 and 485 are allowed to fulfill BA or BS requirements. Meets anthropology subfield Biological Anthropology (B). The course may be repeated for a cumulative maximum of 8 credits.

#### ANTH 311. Advanced Biological Anthropology: Principles of Human Evolution (4). Analysis and interpretation of major

principles of modern biological anthropology from an evolutionary perspective: genetics, population genetics, ecology, comparative anatomy and human paleontology. Prerequisites: ANTH 110 and 110LAB. Meets anthropology subfield Biological Anthropology (B).

# ANTH 312. Human Origins: The Fossil Evidence (4). The fossil record of human and protohuman forms. Basic data and interpretation. Three hours lecture and two hours laboratory per week. Meets anthropology subfield Biological Anthropology (B).

# ANTH 313. Primate Social Behavior (4). Survey of field studies of nonhuman primates relevant to the study of human social systems and adaptation. Prerequisites: ANTH 107 or 110 or 130 or BIO 183. Meets anthropology subfield Biological Anthropology (B).

# ANTH 314. Human Variation and Adaptation in Living Populations (4). Survey of genetic, morphological and physiological variability of living human populations and their biological source mechanisms. Current population dynamics are used to project future alternatives for change. Prerequisite: sophomore standing or above. NS-Applications Natural Science

# ANTH 315. Forensic Skeletal Analysis (4). A survey of the human skeleton and techniques of human skeletal analysis. Identification of age, sex, and other traits in modern and extinct populations. Meets anthropology subfield Biological Anthropology (B).

# ANTH 320. Research/Laboratory in Archaeology (2). Analysis of archaeological materials.

Prerequisite: ANTH 120. Minimum of 4 hours laboratory per week. No more than 10 credits of ANTH 320 and 486 allowed to fulfill BA or BS requirements. Meets anthropology subfield Archaeology (A).

ANTH 321. Archaeological
Methods (4). Introduction to
methods used by archaeologists,
with an emphasis on laboratory
methods for analysis of chipped
stone, ceramics, faunal remains,

stone, ceramics, faunal remains and other archaeological materials. Meets anthropology subfield Archaeology (A).

ANTH 321LAB. Archaeological
Methods Laboratory (2). Handson application of typical methods
used in archaeological
investigations, with an emphasis
on laboratory techniques for
studying chipped stone,
ceramics, faunal remains, and
other archaeological materials.
Co- or prerequisite: ANTH 321.
Meets anthropology subfield
Archaeology (A).

 $\textbf{ANTH 322. World Prehistory} \ (4). \\$ 

Old and New World prehistory from late Pliocene to the early historic period, including the ecology and development of hunting-gathering, agriculture and state-level societies. ANTH 322 and HIST 322 are cross-listed courses; students may not receive credit for both. Meets anthropology subfield Archaeology (A).

ANTH 323. Field Archaeology (3-6). Identification, mapping and recording of archaeological sites; techniques of excavation.

Prerequisite: ANTH 120. Meets anthropology subfield Archaeology (A). Grade will be either S or U.

ANTH 324. North American
Archaeology (4). Prehistoric
cultures of North America, with
emphasis on adaptation to
changing environments. Meets
anthropology subfield
Archaeology (A).

ANTH 325. Prehistory of the Pacific Northwest (4). Prehistoric cultures of Washington State and adjoining regions. Meets anthropology subfield Archaeology (A).

ANTH 333. Culture & Marriage

(4). The reciprocal relationships between the biophysical and cultural components in mating, nurturing and sexual access. Cross-cultural patterns in marriage. ANTH 333 and FS 333 are cross-listed courses; students may not receive credit for both. Meets anthropology subfield Cultural Anthropology (C).

ANTH 341. Native American
Cultures of the Pacific
Northwest (4). Ecological settings
and cultural adaptations of
Pacific Northwest Native
Americans in historical and
contemporary contexts. Culture
change and continuity, language,
religion, resource management,
and tribal sovereignty. Meets
anthropology subfield Cultural
Anthropology (C).

ANTH 342. Hispanic Cultures of the Western U.S. (4). This course provides an overview of Hispanic cultures in the American Southwest, California and the Pacific Northwest. Culture change and maintenance through language, religion and an economic resource base are highlighted. Meets anthropology subfield Cultural Anthropology (C).

ANTH 344. Cultures of Asia (4).
Setting and cultural adaptation of the peoples of Asia.
Representative groups from cultural regions of East Asia and Central/ Inner Asia. Meets anthropology subfield Cultural Anthropology (C).

ANTH 345. Cultures of Southeast Asia and Oceania (4). Setting and cultural adaptation of the peoples of Southeast Asia and Oceania. Meets anthropology subfield Cultural Anthropology (C).

ANTH 346. Cultures of Latin
America and the Caribbean (4).
Survey of anthropological
research on cultures of Latin
America and the Caribbean in
historical and contemporary
contexts. Meets anthropology
subfield Cultural Anthropology
(C).

ANTH 347. Native American
Cultures of North America (4).
Ecological settings and cultural
adaptations of North American

Native Americans in historical and contemporary contexts. Culture change and continuity, language, religion, resource management and tribal sovereignty. Meets anthropology subfield Cultural Anthropology (C).

ANTH 351. Visual Anthropology

(4). Provides methodological, theoretical and practical background to produce and evaluate imagery in films and video; guidelines and practice of image presentation/ manipulation in anthropological and social contexts. ANTH 351 and COM 351 are cross-listed courses; students may not receive credit for both. Prerequisites: ANTH 130 or ART 225 or COM 321 or

(C).
ANTH 352. Anthropology of Environmental Issues (4).

COM 330. Meets anthropology

subfield Cultural Anthropology

Anthropological approaches to environmental issues and debates, from climate change to the availability of clean water and beyond. Students use critical thinking in assessing the role of culture nationally and internationally in current environmental issues. Meets anthropology subfield Cultural Anthropology (C).

ANTH 354. Anthropology of Religion (4). A cross-cultural analysis of religion, cosmology and world view. Meets anthropology subfield Cultural Anthropology (C).

ANTH 355. Culture, Person, Self (4). A cross-cultural analysis of the relationship of individuals to cultural beliefs and practices.

Meets anthropology subfield Cultural Anthropology (C).

ANTH 356. Gender Roles in Crosscultural Perspective (4). Biocultural factors affecting human gender roles. Meets anthropology subfield Cultural Anthropology (C).

ANTH 357. Medical
Anthropology: Cross-cultural
Perspectives on Health and
Healing (4). Emphasizes cultural
and biological factors influencing
health maintenance in human

populations and cross-cultural perspectives on illness, healing and the provision of health care. Meets anthropology subfield Cultural Anthropology (C).

# ANTH 358. Culture and Politics in a Global Economy (4).

Comparative perspectives on cultural processes of change within the global economic system. Meets anthropology subfield Cultural Anthropology (C).

# ANTH 359. Survey of Music in Cross-cultural Perspectives (2).

An introduction to ethnomusicology: the cultural context of music with emphasis on Africa, Asia, Native North and South America, Oceania. ANTH 359 and MUS 359 are cross-listed courses; students may not receive credit for both.

ANTH 360. Introduction to Museum Studies (4). Concepts relating to museums in society: history, ethics, philosophy, administration, legislation and education. Meets anthropology subfield Cultural Anthropology (C).

#### ANTH 361. Museum Exhibit

**Design** (4). Principles of design applied to visual presentation of material culture, ideas and concepts through educational exhibits.

ANTH 362. Museum Curation and Management (4). Application of techniques of environmental security, restoration and preservation in the management of museum collections.

# ANTH 380. Non-verbal Communication (4).

Fundamentals of non-verbal communication including codes, relationship to biology and culture, usage, and interrelationships. COM 380 and ANTH 380 are cross-listed courses. Meets anthropology subfield Linguistics (L).

ANTH 381. Language in Culture

(4). Language as a culture trait. Influence of language on other human institutions. Includes psycholinguistics, sociolinguistics, ethnographic semantics, and multilingualism in its sociocultural setting. Meets

anthropology subfield Linguistics (L).

#### **ANTH 382. Descriptive Linguistics**

(4). Introduction to the basic concepts and mechanics of formal linguistic analysis. Meets anthropology subfield Linguistics (L).

#### ANTH 384. Language and Gender

(4). This course is designed to guide students to explore the active and rapidly expanding field of gender studies and language research dealing with how biological and cultural awareness of sexes are reflected in speech. ANTH 384 and WS 384 are cross-listed courses; students may not receive credit for both. Meets anthropology subfield Linguistics (L).

# ANTH 398. Special Topics (1-6). ANTH 404. Intermediate GIS (5).

Applied concepts, principles, and operation of fundamental GIS applications, including rastervector data models, topology, digitizing, and various analytical techniques such as overlay, buffers, and Boolean queries. Lecture and practical applications. ANTH 404, GEOG 404, and GEOL 404 are crosslisted courses; students may not receive credit for both. Prerequisites: students must have completed either GEOG 303, GEOL 303, or ANTH 303.

#### ANTH 410. Biological

Anthropology: Theoretical and Research Issues (4). Exploration of the theoretical underpinnings of biological anthropology, their expression in current research topics in the field, and the transition from earlier approaches to their current implementation. Seminar structure. Prerequisites: ANTH 110 and an additional 5 units of biological anthropology. Meets anthropology subfield Biologoical Anthropology (B) and Seminar (S). May be repeated for a total of 8 credits.

#### **ANTH 411. Primate Conservation**

(4). A seminar that focuses on conservation issues of particular relevance for non-human primates, including deforestation, bushmeat hunting, and pet trade; and on conservation strategies,

including reintroduction, captive management, and ecotourism.
ANTH 411 and PRIM 511 are cross-listed courses; students may not receive credit for both.
Prerequisites: ANTH 110 and ANTH 313. Meets anthropology subfield Biologoical
Anthropology (B) and Seminar (S).

#### **ANTH 412. Long-term Primate**

Studies (4). A survey of major long term field research projects including apes, monkeys, and lemurs; comparisons across sites and results of long term observation of non-human primates. Prerequisite: ANTH 313. Meets anthropology subfield Biologoical Anthropology (B) and Seminar (S).

#### **ANTH 414. Forensic**

Anthropology: Cold Case
Analysis (6). The course explores
the recovery and examination of
skeletal remains through
practical experience in the
recovery of buried remains.
Students will plan, manage, and
conduct a forensic skeletal
analysis of a cold case. Findings
will be presented. Prerequisites:
ANTH 110, 315, 310, and
permission of the instructor.
Meets anthropology subfield
Biologoical Anthropology (B).
May be repeated for credit.

#### **ANTH 415. Forensic**

Anthropology: Theoretical and Applied Issues (4). An in-depth and critical analysis of journal articles pertaining to forensic anthropology, osteology, and archaeology. An examination of archaeological techniques that can be adapted to forensic and medico-legal investigations. Prerequisites: ANTH 110, 315, 310, and permission of the instructor. Meets anthropology subfield Biologoical Anthropology (B).

#### ANTH 416. Pongid Behavior (4).

An overview of Pongid (chimpanzee, gorilla and orangutan) physiology, social and developmental behaviors in natural and laboratory conditions. ANTH 416 and PRIM 516 are cross-listed courses; students may not receive credit for both. Prerequisite: ANTH 313.

Meets anthropology subfield Biologoical Anthropology (B) and Seminar (S).

#### ANTH 417. Advanced GIS (4).

Advanced GIS principles, techniques, analysis, and application. Lecture and practical hands-on experience. Applied experience using GIS software. ANTH, GEOL, and GEOG 417 are cross-listed courses; students may not receive credit for more than one. Prerequisites: GEOG 404, GEOL 404, or ANTH 404.

#### ANTH 418. Primate Evolution (4).

An overview of primate evolution from the earliest forms to modern representatives. Fossils, paleoenvironments, adaptive radiations and evolutionary trends among the primates. Prerequisites: ANTH 110 and ANTH 313. Meets anthropology subfield Biologoical Anthropology (B).

#### ANTH 421. Archaeological Theory

(4). Discussion of research problems in data collection, analysis, and interpretation. Prerequisite: ANTH 120. Meets anthropology subfield Archaeology (A) and Seminar (S).

#### ANTH 425. Zooarchaeology (4).

Mammalian osteology and methods in the analysis of animal bones from archaeological sites. Prerequisites: ANTH 120 and either ANTH 110LAB or BIOL 183. Meets anthropology subfield Archaeology (A).

#### **ANTH 426. Stone Tool Analysis**

(4). The theory, method, and technique of stone tool analysis are presented so that students can undertake a research project analyzing a stone tool assemblage. Prerequisites: ANTH 120 or ANTH 323. Meets anthropology subfield Archaeology (A).

#### **ANTH 427. Environmental**

Archaeology (4). Analyses of sediments and plant and animal remains from archaeological sites are used to explore relationships between humans and their environments. Case studies combine natural and physical sciences to study long-term change in landscapes and ecosystems. ANTH 427/ 527 and GEOG 427/ 527 are cross-listed

courses; students may not receive credit for more than one.
Graduate credit requires an additional research paper to be specified in syllabus.
Prerequisites: ANTH 120 or GEOG 107. Meets anthropology subfield Archaeology (A).

#### ANTH 440. Ecology and Culture

(4). Investigation into interdependent environmental and human cultural systems. Traditional agroecologies and subsistence strategies; contemporary problems of resource management, social equity, political ecology, and sustainable development. ANTH 440 and GEOG 440 are crosslisted courses, students may not receive credit for both. Meets anthropology subfield Cultural Anthropology (C) and Seminar (S)

#### ANTH 444. Ethnographic Field Methods (4). Methods used in ethnographic field work. Meets anthropology subfield Cultural

anthropology subfield Cultural Anthropology (C) and Seminar (S).

#### ANTH 445LAB. Visual

Anthropology Lab (2). A laboriented course providing practical experience in basic ethnographic film approaches. Prerequisites: ANTH 351 or COM 351, and admission to either the anthropology, film and video studies, or resource management major or minor. Meets anthropology subfield Cultural Anthropology (C).

ANTH 446. Anthropology of Globalization (4). Critically examines current theories of globalization in anthropology. Course includes selected ethnographic research on topics including global flows of people, material, ideas, identities, global political structures, and local accommodation and resistance. Meets anthropology subfield Cultural Anthropology (C) and Seminar (S).

#### ANTH 449. Contemporary Native American Cultures and Issues

(4). Analysis of contemporary Native North American cultures and issues, including tribal sovereignty, resource management, education, religion, economic, and health status, cultural continuity, and adaptation. SOC 449 and ANTH 449 are cross-listed courses; students may not receive credit for both. Prerequisites: either ANTH 341, ANTH 347, SOC 366, AIS 103, or permission of instructor. Meets anthropology subfield Cultural Anthropology (C) and Seminar (S).

#### ANTH 451. History and Theory of Anthropology (4). Content and developmental history of

developmental history of anthropological theories and methods. Prerequisite: 20 units of anthropology courses. Meets anthropology subfield Cultural Anthropology (C) and Seminar (S).

#### ANTH 458. Senior Comprehensive

Survey (4). Advanced comprehensive survey of the field of anthropology as to its content and intent. Specifically designed for majors preparing for graduate work. Prerequisite: admission to an anthropology major plan.

#### ANTH 480. Survey of Linguistics

(4). Linguistic concepts and the relation between linguistics and other fields of study. Open to seniors and graduate students only. ANTH 480 and ENG 480 are cross-listed courses; students may not receive credit for both. Prerequisite: senior standing. Meets anthropology subfield Linguistics (L).

#### ANTH 483. Sociolinguistics (4).

Concepts and methods of sociolinguistic analysis in first and second languages. Will examine differences among cultures in the relationship between language usage and inequality. ANTH 483 and FNLA 483 are cross-listed courses; students may not receive credit for both. Prerequisites: either ANTH 180, ANTH 381, ENG 180, or FNLA 481. Meets anthropology subfield Linguistics (L).

# ANTH 485. Method and Theory in Biological Anthropology (1-8).

Methods and techniques, research problems, data collection, analysis, interpretation. Laboratory orientation. No more than 10 credits of ANTH 310 and ANTH 485 are allowed to fulfill BA or BS requirements. Prerequisite: introductory plus 5 upperdivision credits in biological anthropology or corresponding coursework in the biological sciences. Meets anthropology subfield Biological Anthropology (B). May be repeated up to 8 credits.

# ANTH 486. Advanced Methods in Archaeology (1-8).

Archaeological research design; planning and supervision of laboratory and field operation; preparation of reports for publication. Prerequisite: 5 upper-division credits in archaeology. No more than 10 credits of ANTH 320 and 486 allowed to fulfill BA or BS requirements. Meets anthropology subfield Archaeology (A). May be repeated up to 8 credits.

#### ANTH 487. Field Linguistics (1-8).

A laboratory oriented course providing both demonstration and practicum in recording, transcription, and structure of languages. Tapes and field derived data. Meets anthropology subfield Linguistics (L). May be repeated up to 8 credits.

# ANTH 488. Advanced Research in Cultural Anthropology (1-8).

Prerequisites: ANTH 130 and 5 upper-division credits in cultural anthropology. Meets anthropology subfield Cultural Anthropology (C). May be repeated up to 8 credits.

#### ANTH 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty

coordination. May be repeated for credit. Grade will either be S or U. By permission.

**ANTH 491. Workshop** (1-6). May be repeated for credit.

#### ANTH 492. Anthropological Teaching Experience (1-2). May be repeated for credit. Grade will either be S or U.

ANTH 493. Anthropological Field Experience (1-8). Individual or group off-campus experience in the field study of anthropological phenomena. May be repeated for credit.

#### ANTH 494. Applied GIS Project

(2-6). GIS projects in anthropology, biology, geography, geology, resource management. ANTH, GEOG, and GEOL 494 are cross-listed courses.

#### ANTH 496. Individual Study (1-6). May be repeated for credit. Grade will either be S or U. By permission.

**ANTH 498. Special Topics** (1-6). **ANTH 499. Seminar** (1-5).

#### **Art Department**

College of Arts and Humanities Ellensburg Randall Hall, room 100 509-963-2665 Fax: 509-963-1918 www.cwu.edu/ art

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Gregg Schlanger, MFA

#### **Professors**

Glen Bach, MFA, graphic design Michael Chinn, MFA, wood design, design Keith Lewis, MFA, jewelry and metalsmithing, design Gregg Schlanger, MFA, sculpture

#### **Associate Professors**

Maya Chachava, MFA, painting, drawing Shari Stoddard, PhD, art education

#### **Assistant Professors**

Paula Airth, MFA, graphic design Alex Emmons, MFA, photography and digital imaging Stephen Robison, MFA, ceramics

#### Staff

Jeff Cleveland, department maintenance

Heather Horn-Johnson, gallery manager Anne Layton, secretary senior

#### **Departmental Information**

The Department of Art is the primary agent for the study and practice of visual culture. Our faculty facilitates liberal learning and academic excellence to enable our students to assume their respective roles as practitioners, educators, and informed patrons of the visual arts. Degrees are offered in studio art, graphic design, and art education with allied course offerings in art history and criticism. We also offer minors in art studio and art history.

#### **Bachelor of Fine Arts Core Requirements**

ART 150 - Drawing I5
ART 170 - Basic Design I5
ART 171 - Basic Design II5
ART 235 - Ancient and Medieval Art4
ART 236 - Renaissance Through Mid-19th Century Art4
ART 237 - Impressionism Through Postmodernism4
ART 495 - Studio Project1
Select one course from the following4
ART 374 - History of Graphic Design (4)
ART 389 - Contemporary Concepts in Art (4)
ART 414 - Recent Art (4)
ART 456 - History of Eastern Art (4)
Total Core Credits: 32

#### Art Major, BA

(NOTE: Students seeking a BA degree must complete one year college/ University study or two years high school study of a single foreign language.)

Required Courses Credits: 32

- ART 150 Drawing I **Credits:** (5)
- ART 170 Basic Design I Credits: (5)
- ART 171 Basic Design II Credits: (5)
- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 414 Recent Art Credits: (4)
- ART 495 Studio Project Credits: (1)

Studio Arts Required Courses Credits: 25

Select five department-approved lower-division studio courses from the following:

- ART 225 Photography I Credits: (5)
- ART 241 Wood Design I Credits: (5)
- ART 246 Jewelry/ Metals I **Credits:** (5)
- ART 260 Painting I Credits: (5) OR
- ART 262 Watercolor I Credits: (5)
- ART 265 Ceramics I **Credits:** (5)
- ART 280 Sculpture I Credits: (5)
- ART 282 Computer Art I Credits: (5)

Department-approved, upper-division courses: Credits: 18

Total Credits: 75

#### **Visual Art: Teaching Major**

This major satisfies the endorsement for visual arts.

A comprehensive visual-art program that qualifies students to teach art at either the elementary or secondary levels in regular or self-contained classrooms. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

#### Required Courses

- ART 150 Drawing I Credits: (5)
- ART 170 Basic Design I Credits: (5)
- ART 171 Basic Design II Credits: (5)
- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 330 Art in the Elementary School **Credits:** (4)
- ART 332 Art Curriculum and Field Experience Credits: (4)
- ART 430 Components of Art Education Credits: (4)
- ART 432 Art in Secondary School Credits: (4)
- ART 495 Studio Project Credits: (1)

Select four courses from the following: Credits: 20

- ART 225 Photography I **Credits:** (5)
- ART 241 Wood Design I Credits: (5)
- ART 246 Jewelry/ Metals I **Credits:** (5)
- ART 250 Drawing II **Credits:** (5)
- ART 260 Painting I Credits: (5)
- ART 262 Watercolor I Credits: (5)
- ART 265 Ceramics I **Credits:** (5)
- ART 280 Sculpture I Credits: (5)
- ART 282 Computer Art I Credits: (5)
- ART 285 Printmaking I Credits: (5)

Total Credits: 64

#### Art Graphic Design Specialization, BFA

A comprehensive studio art degree for students desiring careers in graphic design/visual communications. Critical thinking through the exploration of digital and print media is emphasized. After completion of the art core and pre-graphic design prerequisites, students are required to complete the graphic design concentration requirements, including a contracted field experience. Transfer students are encouraged to complete as many of the transferable art requirements prior to enrolling at CWU.

An Apple laptop is required.

Bachelor of Fine Arts Requirements

- ART 150 Drawing I **Credits:** (5)
- ART 170 Basic Design I **Credits:** (5)
- ART 171 Basic Design II Credits: (5)
- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 495 Studio Project Credits: (1)

Select one course from the following: Credits (4)

- ART 374 History of Graphic Design Credits: (4)
- ART 389 Contemporary Concepts in Art Credits: (4)
- ART 414 Recent Art Credits: (4)

• ART 456 - History of Eastern Art Credits: (4)

Total Credits: 32

Pre-Graphic Design Requirements

- ART 225 Photography I Credits: (5) OR
- ART 226 Beginning Photography: Digital Credits: (5)
- ART 274 Typography Credits: (5)
- ART 282 Computer Art I **Credits:** (5)
- ART 283 Graphic Interface Design I Credits: (5)
- ART 351 Illustration I Credits: (5)

#### Graphic Design Requirements

- ART 370 Layout and Design I Credits: (5)
- ART 371 Layout and Design II Credits: (5)
- ART 372 Design and Production I Credits: (5)
- ART 383 Graphic Interface Design II Credits: (5)
- ART 451 Illustration II **Credits:** (5)
- ART 470 Advertising Graphic Design Credits: (5)
- ART 471 Corporate Graphic Design Credits: (5)
- ART 472 Design and Production II Credits: (5)
- ART 474 Typography II **Credits:** (5)
- ART 483 Graphic Interface Design III Credits: (5)
- ART 490 Cooperative Education Credits: (1-12) (Must be taken for 10 credits.)

Total Credits: 107

#### **Studio Art Specialization**

A comprehensive studio art degree for students desiring to pursue studio art-related careers or seeking artistic enrichment. The degree can be directed toward either a discipline-specific studio art practice or a cross-disciplinary and/or cross-media studio art practice.

#### Bachelor of Fine Arts Requirements

- ART 150 Drawing I **Credits:** (5)
- ART 170 Basic Design I Credits: (5)
- ART 171 Basic Design II Credits: (5)
- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 495 Studio Project Credits: (1)

Select one course from the following: Credits (4)

- ART 374 History of Graphic Design Credits: (4)
- ART 389 Contemporary Concepts in Art Credits: (4)
- ART 414 Recent Art Credits: (4)
- ART 456 History of Eastern Art Credits: (4)

Total Credits: 32

Select 69 credits from department-approved courses: Credits: 69

At least 48 credits mu be upper-division. The maximum number of credits in a specific media-area is 25.

Advisor approved upper-division electives: Credits: 4

Total Credits: 105

#### **Art History Minor**

#### Required Courses

Select 24 credits from the following - Credits: (24)

- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 410 Art of the Italian Renaissance Credits: (4)
- ART 414 Recent Art Credits: (4)
- ART 415 Painters and Printmakers of Northern Europe Credits: (4)
- ART 456 History of Eastern Art Credits: (4)

Total Credits: 24

#### **Art Studio Minor**

Required Courses

Select one course - Credits: 5

- ART 150 Drawing I **Credits:** (5)
- ART 170 Basic Design I Credits: (5)

Select one course - Credits: 4

- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ART 414 Recent Art Credits: (4)

Select 15 credits from department-approved studio courses - Credits: 15

Total Credits: 24

#### **Art Courses**

#### ART 101. Introduction to Western

Art (5). The visual arts as an expression of the human experience. Does not apply to the art major. AH-Aesthetic Experience.

ART 102. Introduction to Non-Western Art (5). A survey of nonwestern painting, sculpture, and architecture. This course does not

apply to the art major. AH-Aesthetic Experience.

ART 150. Drawing I (5). Studio experience emphasizing the understanding of form and composition through the use of various drawing materials and techniques. May include drawing from the nude figure. Six hours studio per week.

#### ART 170. Basic Design I (5).

Exploration of the elements and principles of design in twodimensional media. Emphasis on the development of design vocabulary, conceptual clarity,

visual analysis, and technical proficiency. Six hours studio per week.

#### ART 171. Basic Design II (5).

Exploration of the elements and principles of design in threedimensional media. Emphasis on the development of design vocabulary, conceptual clarity, visual analysis, and technical proficiency. Prerequisite: ART 170. Six hours studio per week.

#### ART 225. Photography I (5). A

basic course encompassing the conceptual concerns addressed within the technical framework of black-and-white photographic processes. Six hours studio per week.

#### ART 226. Beginning Photography:

**Digital** (5). This course surveys the beginning conceptual and technical tools required to navigate digital photography. Six hours of studio per week.

#### ART 235. Ancient and Medieval

Art (4). A historical survey of

Western Art from ancient times through the Gothic period.

#### ART 236. Renaissance through Mid-19th-century Art (4). A historical survey of Western Art from the Renaissance to Impressionism. Prerequisite: ART

ART 237. Impressionism through Postmodernism (4). Art in Europe and the United States from Impressionism through Postmodernism. Prerequisites: ART 235 and 236.

#### ART 241. Wood Design I (5).

Introduction to wood as an artistic and design medium. Emphasis on visual communication utilizing basic shaping and finishing process. Six hours studio per week.

#### ART 246. Jewelry/Metals I (5).

Design and construction of jewelry and small-scale metal objects. Emphasis on technical skill development, applied technique, conceptual problems, and introduction to

contemporary work. Six hours studio per week.

ART 250. Drawing II (5). A continuation of ART 150 with an emphasis on technique, composition, and interpretation of ideas. Includes drawing from the figure. Prerequisite: ART 150. Six hours studio per week.

ART 260. Painting I (5). An introduction to the techniques of painting for expressive purposes. Prerequisites: ART 150 and ART 170. Six hours studio per week.

ART 262. Watercolor I (5). An introduction to the techniques of transparent watercolor and the visual problems of painting. Prerequisite: ART 150. Six hours studio per week.

ART 265. Ceramics I (5). Beginning instruction in ceramics, hand-building and wheel-throwing techniques, including idea development and an exploration of techniques. Six hours studio per week.

**ART 274. Typography** (5). History and application of typography as a tool for visual communication. Prerequisite: ART 170.

ART 280. Sculpture I (5).

Introduction to the studio experience in sculpture. Emphasis is on the fundamental materials and basic methods of sculpture, including references to the history of sculpture. Six hours studio per week.

**ART 282. Computer Art I** (5). Use of computer systems and web software as tools for creative expression. Prerequisite: ART 170.

ART 283. Graphic Interface Design I (5). This course teaches basic principles and tools necessary for designing graphic interfaces for web pages and applications. Students will design and create interfaces according to principles of visual organization and composition, information hierarchy, symbolic representation, typography and aesthetics. Prerequisite: ART 274 and ART 282.

ART 285. Printmaking I (5).
Exploration of techniques and history of prints, with an emphasis on relief printmaking.

Prerequisites: ART 150 and ART 170. Six hours of studio per week.

**ART 296. Individual Study** (1-6). May be repeated for credit. By permission.

**ART 298. Special Topics** (1-6). **ART 299. Seminar** (1-5).

ART 300. Papermaking (4). Hand papermaking techniques, exploring historical and contemporary works/ methods. Watermarking, pigmentation, moldmaking, with emphasis on sheetforming and fiber preparation. May be repeated for credit.

ART 324. History of Photography (4). A survey of contemporary photographers, their ideas, and the influences of their work upon culture. Covers mid-20th century to the present. Prerequisite: ART 225.

ART 325A. Photography II-Color Photo Media (5). Introduction to color photography encompassing the visual culture dialogue as well as techniques for digital, transparency, and negative films, as well as the beginning use of artificial light. Prerequisite: ART 225.

ART 325B. Photography II— Alternative Processes (5). An introduction to 19th century photographic processes, review of the contemporary concepts, and its application immersed with digital-and film-based negative techniques. Prerequisite: ART 225.

ART 325C. Photography II-Digital Imaging (5). An introduction to digital still photography and contemporary visual concepts encompassing the televised to printed image. Techniques reviewed include image capture, RAW process, composing, color management, and printing options. Prerequisite: ART 225.

ART 330. Art in the Elementary School (4). Content and methodology for teaching art in the elementary school. Prerequisite: conditional or full admission to the Teacher Certification Program.

ART 332. Art Curriculum and Field Experience (4). Developing discipline-based art education curriculum for the elementary and middle school, as well as preparing curriculum to teach Friday children's art classes. Prerequisite: ART 330 and current WSP/ FBI fingerprint clearance.

ART 341. Wood Design II (5).

Design and fabrication of furniture forms. Emphasis on creative form development utilizing advanced fabrication and finishing processes.

Prerequisite: ART 241.

ART 346A. Jewelry/Metals II (5).

Technical and conceptual aspects of jewelry and metalwork through modelmaking, casting, moldmaking, and construction of linkages and chains. Emphasis on personal exploration.

Prerequisite: ART 246.

ART 346B. Jewelry/Metals II:
Enameling (5). Technical and conceptual aspects of jewelry and metalwork with focus on enameling (glass on metal).
Emphasis on personal exploration. Prerequisite: ART 246.

ART 346C. Jewelry/Metals II: Form and Surface (5). Technical and conceptual aspects of jewelry and metalwork utilizing methods of form and surface embellishment. Emphasis on personal exploration. Prerequisite: ART 246.

ART 350. Drawing III (5). A continuation of ART 250 with increased emphasis on drawing as a major means of visual expression. Includes drawing from the figure. Prerequisite: ART 250.

ART 351. Illustration I (5).
Introduction to a variety of media and techniques associated with illustration. Prerequisites: ART 250 and either ART 260, or ART 262.

ART 360A. Painting II (5).

Continued study of technical and formal approaches to painting, with an emphasis on representational and narrative strategies. Prerequisite: ART 260.

ART 360B. Painting III (5).

Continued study of technical and formal approach to painting, with emphasis on color. Prerequisite: ART 360A.

- ART 362. Watercolor II (5). A continuation of ART 262 stressing a higher degree of individual expression and experimentation with various waterbased media. Prerequisite: ART 262.
- ART 365A. Ceramics II-Advanced Handbuilding (5). Advanced instruction in ceramic sculptural techniques, including historical and contemporary influences, investigation of clay bodies, and idea development. Prerequisite: ART 265.
- ART 365B. Ceramics II-Advanced Wheel Throwing (5). Advanced instruction in ceramic pottery using the wheel, including vessel design and an investigation of clay bodies and high fire glazes. Prerequisite: ART 265.
- ART 367. Kiln Building and
  Repair (5). This course covers
  kiln building for gas- and woodfired kilns. Students will learn
  about refractory materials, forced
  air and natural draft burner
  systems, pilot burners and safety
  systems. Catenary and sprung
  arch forms will be built.
  Prerequisite: ART 265. May be
  repeated up to 10 credits.
- ART 368. Ceramic Materials and Effects (5). This course covers an investigation into materials and their effects in the media of ceramics. Glaze calculation and testing along with clay body tests will be the main focus of this course. Low fire, midrange and high-fire temperatures will also be addressed. Prerequisite: ART 265. May be repeated up to 10 credits.
- ART 370. Layout and Design I (5). Two-dimensional design, introduction to type, design, and composition concepts. Two hours lecture and four hours studio per week. By permission.
- ART 371. Layout and Design II (5). Advanced work in design composition with emphasis on applications of letter forms and color. Two hours lecture and four hours studio per week. By permission.
- ART 372. Design and Production I
  (5). Emphasis on advertising art and production techniques. Two hours lecture and four hours studio per week. By permission.

- ART 374. History of Graphic

  Design (4). A historical survey of the graphic arts from their beginning to the present.
- ART 380A. Sculpture II: Object and Form (5). A continuation of the studio experience of sculpture, emphasizing the development of object and form, a higher level of technical competence, greater exploration of materials, and conceptual development. Prerequisite: ART 280
- ART 380B. Sculpture II:
  Installation Art (5). A
  continuation of the studio
  experience of sculpture,
  emphasizing the development of
  installation art within a spatial
  context, a higher level of
  technical competence, greater
  exploration of materials, and
  conceptual development.
  Prerequisite: ART 280.
- ART 381. Mixed-media Art (5). A concentrated study of the integration of two- and three-dimensional media into mixed-media art forms. Prerequisites: ART 260 and ART 280. Five studio hours per week. May be repeated up to 10 credits.
- ART 382. Computer Art II (5).
  Exploration of several software programs and computer output devices for creation of electronic art.
- ART 383. Graphic Interface Design II (5). This course teaches intermediate principles and tools necessary for designing graphic interfaces for web pages and applications. Students will design and create interfaces according to principles of visual organization and composition, information hierarchy, symbolic representation, typography and aesthetics and build on concepts taught in Graphic Interface Design 1. Prerequisite: ART 283.
- ART 389. Contemporary Concepts in Art (4). Exploration of the contextual, formal, and philosophic meanings of current art movements and theories in regards to their relevance and place in contemporary art practice.
- ART 398. Special Topics (1-6).

- ART 410. Art of the Italian
  - Renaissance (4). The painting, sculpture, and architecture of the Italian Renaissance from the late Middle Ages through the 16th century. Prerequisite: ART 236.
- ART 414. Recent Art (4). The visual arts of the last 25 years, including the traditional forms of painting, sculpture and architecture, and newer forms including video, computer, and performance art. Prerequisite: ART 237.
- ART 415. Painters and Printmakers of Northern Europe (4). Art of Germany, Flanders, and Holland, 15th-18th century.
- ART 425. Photography III:
  Advanced (5). This is a portfolio building and professional development course. Designed for the advanced student to independently pursue creative research appropriate to conceptual concerns and technical application related to photo-media. Prerequisites: ART 325A, ART 325B, and ART 325C. May be repeated up to a 20 credits.
- ART 430. Components of Art Education (4). Content and strategies for teaching aesthetics, art criticism, art history, and art production in art education; writing, implementing, and assessing quality art lessons. Prerequisite: ART 330.
- ART 432. Art in Secondary School
  (4). Current philosophies and curriculum in the secondary school; objectives, planning, methods of teaching and evaluation. Prerequisite: ART 430
- ART 441. Wood Design III (5).

  Advanced design and fabrication of furniture forms. Emphasis on research and development of furniture forms utilizing advanced and/ or innovative fabrication and finishing processes. Prerequisite: ART 341. Six hours studio per week. May be repeated for credit.
- ART 446. Jewelry/Metals III (5).
  Advanced exploration of
  personal expression in metals,
  with emphasis on self-direction,
  conceptual and technical
  mastery, and professionalization
  of practice. Prerequisites: ART

346A, ART 346B, and ART 346C. May be repeated for credit.

#### ART 449. Principles of Color (5).

The technical, historic and aesthetic dimensions of pigment and light colors including an examination of major color theories. Prerequisite: two art studio courses.

#### **ART 450. Drawing IV** (5).

Advanced study and experimentation with technical, formal, and conceptual problems in drawing. Includes drawing from the figure. Prerequisite: ART 350. May be repeated for credit by undergraduates only.

ART 451. Illustration II (5). A continuation of ART 351 stressing development of personal expression in illustration.

Prerequisite: ART 351. May be repeated for credit by undergraduates only.

ART 456. History of Eastern Art
(4). A survey of the architecture, sculpture, painting, and the crafts of India, Indonesia, China, and Japan. ART 456 and ART 556 are layered courses; students may not receive credit for both.

#### ART 460. Painting IV (5).

Advanced study and experimentation in technical, formal, and conceptual approaches to painting, with an emphasis on developing individual expression.

Prerequisites: ART 360B and ART 450. May be repeated for credit.

ART 465. Ceramics III (5). A continued exploration of ceramic materials and processes. Emphasis on developing professional practices and personal vocabulary through the ceramic medium. Prerequisites: ART 365A or ART 365B. May be repeated for credit. By permission.

ART 470. Advertising Graphic

Design (5). Concept and design of advertising problems.

Presentation and communication skills; introduction to analysis and implementation of marketing

strategies. May be repeated for credit.

ART 471. Corporate Graphic

Design (5). Principles of
corporate concept and design:
advanced presentation and
communication skills; analysis
and implementation of marketing
strategies in the corporate setting.
Prerequisite: ART 470. By
permission.

ART 472. Design and Production II

(5). Continues the development of professional attitudes; promotes creative problem solving techniques; defines the role of designer or art director and relationships to typographer and printer. Prerequisite: ART 471.

#### ART 474. Typography II (5).

Explore traditional and conceptual typographic applications, structural and visual elements of typography, with an emphasis on history, anatomy, terminology, letter, word, line, paragraph, and typeimage relationships. Prerequisite: ART 274.

#### ART 480. Sculpture III (5).

Advanced studies in sculpture. Emphasis is on creative self-expression and the development of a self-directed body of work. Prerequisites: ART 380A and ART 380B. May be repeated for credit.

ART 483. Graphic Interface Design

III (5). This course teaches advanced visual principles necessary for designing graphic interfaces for web pages and applications. Students will design and create interfaces according to principles of visual organization and composition, information hierarchy, symbolic representation, typography and aesthetics and build on concepts taught in Graphic Interface Design 2. Prerequisite: ART 383.

ART 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This

contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

**ART 491. Workshop** (1-6). May be repeated for credit.

#### ART 495. Studio Project (1).

Preparation of a professional portfolio and presentation of a body of work suitable for exhibition. Satisfies end-of-major assessment requirement. Must be taken during one of the last two quarters prior to graduation. Grade will either be S or U.

ART 496A. Individual Study: Computer Art (1-6). May be repeated for credit. By permissoion.

**ART 496C. Individual Study: Ceramics** (1-6). May be repeated for credit. By permission.

**ART 496D. Individual Study: Drawing** (1-6). May be repeated for credit. By permission.

**ART 496E. Individual Study: Art Education** (1-6). May be repeated for credit. By permission.

ART 496G. Individual Study: Graphic Design (1-6). May be repeated for credit. By permission.

ART 496H. Individual Study: Art History (1-6). May be repeated for credit. By permission.

ART 496J. Individual Study: Jewelry/Metals (1-6). May be repeated for credit. By permission.

ART 496P. Individual Study: Painting (1-6). May be repeated for credit. By permission.

**ART 496S. Individual Study: Sculpture** (1-6). May be repeated for credit. By permission.

ART 496T. Individual Study: Photography (1-6). May be repeated for credit. By permission.

ART 496W. Individual Study: Wood Design (1-6). May be repeated for credit. By permission.

**ART 498. Special Topics** (1-6). **ART 499. Seminar** (1-5).

#### Asia/Pacific Studies Program

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 100-0 509-963-1190 Fax 509-963-1822 www.cwu.edu/ asia-pacific

See website for how this program may be used for educational and career purposes.

# Faculty and Staff Co-Directors

Jeffrey Dippmann, PhD Yukari Amos, PhD

#### **Professors**

Yukari Amos, PhD, education
Liahna Armstrong, PhD, English
George Bellah, PhD, theatre
John Bowen, PhD, geography
James Cook, PhD, (on-leave) history
Toni Culjak, PhD, English
Jeffrey Dippmann, PhD, philosophy and religious studies
Michael Launius, PhD, political science
Chenyang Li, PhD, philosophy and religious studies
Joshua Nelson, PhD, Japanese language
Penglin Wang, PhD, anthropology
Hong Xiao, PhD, sociology
Bang-Soon Yoon, PhD, political science and women's studies

#### **Associate Professors**

Koushik Ghosh, PhD, economics
Xiadong Kuang, PhD, communications
Alejandro Lee, PhD, Spanish language
Yong Joo Lee, PhD, finance and OSCM
Kun Liao, PhD, finance and OSCM
Cameron Otopalik, visiting professor, political science
Hideki Takei, PhD, ITAM
Fen Wang, PhD, ITAM

#### Lecturers

Yuanxia Liu, MA, Chinese language Keneth Munsell, MA, history Mariko Okada-Collins, MA, Japanese language

#### **Program Information**

The Asia/ Pacific Studies Program is an interdisciplinary program focusing on a region currently undergoing a dramatic economic, political, and social transformation. The program provides students with a grasp of the region's diversity while emphasizing the interactive nature of an overarching community of nations. Careers in international business, government service, and education can be augmented by preparation in Asia/ Pacific Studies. The program also serves as an excellent preparation for graduate study in various academic and professional fields.

#### **Bachelor of Arts**

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

#### Asia/Pacific Studies Major, BA

#### Asia/ Pacific Studies Core

- AST 102 Introduction to Asian Studies Credits: (3)
- AST 401 Asia/ Pacific Studies Capstone Credits: (3)

#### First- and Second-year Chinese - Credits: 30

- CHIN 151 First-year Chinese **Credits:** (5)
- CHIN 152 First-year Chinese Credits: (5)
- CHIN 153 First-year Chinese Credits: (5)
- CHIN 251 Second-year Chinese Credits: (5)
- CHIN 252 Second-year Chinese Credits: (5)
- CHIN 253 Second-year Chinese Credits: (5) OR

#### First- and Second-year Japanese

- JAPN 151 First-year Japanese **Credits:** (5)
- JAPN 152 First-year Japanese Credits: (5)
- JAPN 153 First-year Japanese Credits: (5)
- JAPN 251 Second-year Japanese Credits: (5)
- JAPN 252 Second-year Japanese Credits: (5)
- JAPN 253 Second-year Japanese Credits: (5)

#### Total Core Credits: 36

Choose six classes from the following list: Credits (25-29)

You are required to choose a minimum of one class from each of the three groups. Elective courses may not be chosen from the student's major area.

(Note: Other courses may be included with advisor's approval)

#### Group 1 (Social Sciences)

- ANTH 344 Cultures of Asia Credits: (4)
- ANTH 345 Cultures of Southeast Asia and Oceania Credits: (4)
- GEOG 474 Geography of China Credits: (4)
- GEOG 475 Geography of Asia Credits: (5)
- POSC 366 Government and Politics of East Asia Credits: (5)
- POSC 367 Politics of Japan Credits: (5)
- POSC 369 Korean Politics Credits: (5)
- POSC 373 International Politics of the Pacific Rim Credits: (5)

#### Group 2 (Aesthetic Experience)

- AST 301 Chinese Literature in Translation Credits: (4)
- AST 465 Indian Cinema Credits: (4)
- CHIN 461 Chinese Cinema Credits: (4)
- JAPN 462 Japanese Cinema Credits: (4)
- TH 375 Asian Drama Credits: (4)

#### Group 3 (Humanities)

- HIST 380 Modern East Asia Credits: (5)
- HIST 381 History of Modern Southeast Asia: Colonial Era to the Present Credits: (5)
- HIST 383 East Asian Civilization Credits: (5)
- HIST 465 History of the People's Republic of China Credits: (5)
- HIST 483 Modern China Credits: (5)
- HIST 484 Modern Japan Credits: (5)
- PHIL 345 Chinese Philosophy Credits: (5)

- RELS 351 Religions of China and Japan Credits: (5)
- RELS 352 Religions of India Credits: (5)
- RELS 401 The Daoist Tradition Credits: (5)

Total Credits: 61-65

#### **Asian Business Certificate**

The certificate in Asian Business is designed to prepare students for working within the state's emerging Asia-oriented economy. It combines an overview of the nuances of the regional economy with an introduction to Asia's cultural and historical development. Topics will include an introduction to Asian culture and philosophy, corporate-government relations, twentieth-century history, regional development, and export strategies. It can be supplemented with study abroad opportunities and language study. There are two tracks: one for College of Business majors and one for non-business majors.

#### Required Courses

- AST 102 Introduction to Asian Studies Credits: (3)
- ECON 101 Economic Issues Credits: (5) OR
- ECON 102 World Economic Issues Credits: (5) OR
- ECON 201 Principles of Economics Micro Credits: (5)
- HIST 349 Economic History of Asia Credits: (5)

#### Track for Business majors:

- HIST 380 Modern East Asia Credits: (5) OR
- ANTH 344 Cultures of Asia Credits: (4)
- POSC 366 Government and Politics of East Asia Credits: (5) OR
- POSC 373 International Politics of the Pacific Rim Credits: (5)

#### Track for Non-business majors:

Choose 2 of the following courses:

- MGT 380 Organizational Management Credits: (5)
- MKT 360 Principles of Marketing Credits: (5)
- HRM 381 Management of Human Resources Credits: (5)

Total Credits: 22-23

#### **Asia/Pacific Studies Minor**

#### Required Courses

• AST 102 - Introduction to Asian Studies Credits: (3)

First-year Chinese or First-year Japanese: Credits (15)

- CHIN 151 First-year Chinese **Credits:** (5)
- CHIN 152 First-year Chinese Credits: (5)
- CHIN 153 First-year Chinese Credits: (5) OR
- JAPN 151 First-year Japanese Credits: (5)
- JAPN 152 First-year Japanese **Credits:** (5)
- JAPN 153 First-year Japanese Credits: (5)

Choose three classes from the following list: Credits 13-14

You are required to choose a minimum of one class from each of the three groups. Elective courses may not be chosen from the student's major area.

(Note: Other courses may be included with advisor's approval. At least two departments must be represented among selected courses.)

#### Group 1 (Social Sciences)

- ANTH 344 Cultures of Asia **Credits:** (4)
- ANTH 345 Cultures of Southeast Asia and Oceania Credits: (4)

- GEOG 474 Geography of China **Credits:** (4)
- GEOG 475 Geography of Asia Credits: (5)
- POSC 366 Government and Politics of East Asia Credits: (5)
- POSC 367 Politics of Japan Credits: (5)
- POSC 369 Korean Politics Credits: (5)
- POSC 373 International Politics of the Pacific Rim Credits: (5)

#### Group 2 (Aesthetic Experience)

- AST 301 Chinese Literature in Translation Credits: (4)
- AST 465 Indian Cinema Credits: (4)
- CHIN 461 Chinese Cinema Credits: (4)
- JAPN 462 Japanese Cinema Credits: (4)
- TH 375 Asian Drama Credits: (4)

#### Group 3 (Humanities)

- HIST 380 Modern East Asia Credits: (5)
- HIST 381 History of Modern Southeast Asia: Colonial Era to the Present Credits: (5)
- HIST 383 East Asian Civilization Credits: (5)
- HIST 465 History of the People's Republic of China Credits: (5)
- HIST 483 Modern China Credits: (5)
- HIST 484 Modern Japan Credits: (5)
- PHIL 345 Chinese Philosophy **Credits:** (5)
- RELS 351 Religions of China and Japan Credits: (5)
- RELS 352 Religions of India Credits: (5)
- RELS 401 The Daoist Tradition Credits: (5)

Total Credits: 31-32

#### **Asia/Pacific Studies Courses**

AST 102. Introduction to Asian Studies (3). An interdisciplinary introduction to the study of Asia; emphasizing geography, history, culture, and economics. SB-Perspectives on World Cultures (W).

AST 301. Chinese Literature in Translation (4). A survey of Chinese literature in translation. AST 301 and CHIN 301 are equivalent courses; students may not receive credit for both.

AST 349. Economic History of Asia (5). This course analyzes the postwar economic development of Asia. Dubbed the "Economic

miracle of the 20th century" by the World Bank, the rapid economic rise of China, Taiwan, Japan, South Korea, India, and Singapore will be covered. Topics will include industrialization, state-society relations, labor migration, and the environment.

AST 396. Individual Study (1-6).
AST 398. Special Topics (1-6).
AST 401. Asia/Pacific Studies
Capstone (3). Senior research
project of creative expression, to
be completed in conjunction with
elective course under the
supervision of an Asia Pacific

Studies teaching faculty member or someone designated by director.

AST 465. Indian Cinema (4). An examination of the history, aesthetic achievements, major directors and themes, and cultural explorations of Indian cinema. The course explores films from a variety of Indian cinematic traditions including the Bengali, Hindi, Bangladeshi, Telugu, Tamil, Marathi, Malavalam, Kashmir, and Kannada film industries.

#### **Aviation Department**

College of Education and Professional Studies Ellensburg Black Hall Suite 225 400 East University Way 509-963-2364 Fax: 509-963-2377

CWU-Moses Lake 7662 Chanute Street NE Moses Lake, WA 98837 509-793-2355 or 509-793-2914 Fax: 509-762-1918

www.cwu.edu/aviation

See website for how this program may be used for educational and career purposes.

#### **Faculty and Staff**

#### Chair

Amy L. Hoover, PhD

#### **Professors**

Teresa Sloan, MIT, ATP, FAA ground schools, air transportation Dale Wilson, MS, ATP, aviation safety, human factors, aviation weather

#### **Associate Professor**

Amy L. Hoover, PhD, CFII, mountain flying, meteorology, human factors

#### Lecturers

David Clark, MS, CFII, FAA ground schools, Alpha Eta Rho advisor Bryan McKune, BS ATP, Moses Lake center coordinator Jason Underhill, BS, CFII, flight simulation coordinator

#### Staff

Denee Scribner, BS, office manager

#### **Department Information**

The Department of Aviation offers two Bachelor of Science degrees.

Professional Pilot degree: Specializations in flight officer and commercial pilot Aviation Management degree: Specializations in aviation management and aviation maintenance management.

#### **Accrediting Information**

The aviation department holds an FAA Air Agency certificate. Ground schools and flight labs are conducted under 14CFR Part 141 of the Federal Aviation Administration regulations. CWU aviation department is a member of the University Aviation Association.

#### **Department Standards**

#### Admissions

Students must apply for acceptance into a degree or specialization. Application will be reviewed upon acceptance to CWU. Admission decisions are based on a number of factors, including grade point average, SAT/ ACT scores, letters of recommendation, financial capability, and a written statement of purpose, as outlined in the aviation department application form. Transportation Security Administration (TSA) regulations require proof of citizenship for pilots.

#### **Financial Obligations**

Flight training fees are paid by the student and will be in addition to normal university tuition and fees (see aviation department website for current fees). Additional fees are required for AVP 444, AVP 445, and AVP 489 (see online student registration handbook). Additional costs for students enrolled in flight labs include current FAA charts, pilot supplies, and optional personal aviation headphones.

#### Aviation Management, BS

Aviation Management Core Requirements

- ADMG 385 Business Communications and Report Writing Credits: (5)
- AVM 330 Aviation Law Credits: (3)
- AVM 333 Air Transportation Credits: (4)
- AVM 335 Aviation Management Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- HRM 381 Management of Human Resources Credits: (5)
- MATH 130 Finite Mathematics **Credits:** (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MGT 380 Organizational Management Credits: (5)

Total Core Credits: 42

#### Professional Pilot, BS

Professional Pilot Core Requirements

- AVM 330 Aviation Law Credits: (3)
- AVM 350 Aviation Career Planning and Professionalism Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- AVP 101 Private Pilot Flight Laboratory I **Credits:** (1)
- AVP 102 Private Pilot Flight Laboratory II **Credits:** (1)
- AVP 103 Private Pilot Flight Laboratory III Credits: (1)
- AVP 141 Principles of Flight I Credits: (4)
- AVP 142 Principles of Flight II Credits: (4)
- AVP 201 Instrument Pilot Flight Laboratory I **Credits:** (1)
- AVP 202 Instrument Pilot Flight Laboratory I Credits: (1)
- AVP 203 Instrument Pilot Flight Laboratory III Credits: (1)
- AVP 211 Meteorology for Pilots **Credits:** (4)
- AVP 221 Aircraft Systems I Credits: (3)
- AVP 241 Instrument Flight I Credits: (4)
- AVP 242 Instrument Flight II Credits: (3)
- AVP 304 Commercial Pilot Flight Laboratory I **Credits:** (1)
- AVP 305 Commercial Pilot Flight Laboratory II Credits: (1)
- AVP 306 Commercial Pilot Flight Laboratory III Credits: (1)
- AVP 312 Aviation Weather Services Credits: (3)
- AVP 319 Applied Aerodynamics Credits: (3)
- AVP 322 Aircraft Systems II Credits: (3)
- AVP 323 Advanced Navigation Credits: (3)
- AVP 337 Aviation Physiology and Survival Credits: (4)
- AVP 340 Human Factors in Flight **Credits:** (4)
- AVP 352 Multiengine Principles **Credits:** (2)
- AVP 354 Commercial Pilot Credits: (4)

Total Core Credits: 70

# **Aviation Maintenance Management Specialization**

This specialization prepares graduates for entry into aviation maintenance and management in the aviation industry or FAA. Students enrolling in this specialization must already possess an FAA Airframe and Powerplant certificate and/or graduation certificate from a Federal Aviation Administration-approved 14CFR Part 147 school. (Certificate not offered at Central Washington University.) 45 credits of the Airframe and Powerplant certificate will be accepted upon completion of all other degree requirements. Total college business courses applied to this degree must not exceed 22 credits.

#### Aviation Management Core Requirements

- ADMG 385 Business Communications and Report Writing Credits: (5)
- AVM 330 Aviation Law Credits: (3)
- AVM 333 Air Transportation Credits: (4)
- AVM 335 Aviation Management Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- HRM 381 Management of Human Resources Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MGT 380 Organizational Management Credits: (5)

# Total Core Credits: 42

# Required Courses

- Airframe and Powerplant Certificate Credits: (45) (Certificate not offered at Central Washington University. 45 credits of the Airframe and Powerplant Certificate will be accepted upon completion of all other degree requirements. See program advisor.)
- ENG 310 Technical Writing Credits: (4)

Total Credits: 91

# **Aviation Management Specialization**

This specialization prepares graduates for a variety of administrative and management positions in aviation. Credit for flight training under 14CFR Part 61 or 141 as elective courses for this specialization must be approved by an aviation department advisor. Total college business courses applied to this degree must not exceed 22 credits.

#### Aviation Management Core Requirements

- ADMG 385 Business Communications and Report Writing Credits: (5)
- AVM 330 Aviation Law Credits: (3)
- AVM 333 Air Transportation **Credits:** (4)
- AVM 335 Aviation Management **Credits:** (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- HRM 381 Management of Human Resources Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MGT 380 Organizational Management Credits: (5)

# Total Core Credits: 42

# Required Courses

- ADMG 372 Leadership and Supervision Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- AVM 334 Airport Management Credits: (3)

- AVM 350 Aviation Career Planning and Professionalism Credits: (3)
- MKT 360 Principles of Marketing Credits: (5)

Select either: Credits (5)

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 301 Financial Accounting Analysis Credits: (5)

Select either: Credits (3-4)

- AVM 434 Airport Operations **Credits:** (3)
- AVM 438 Airport Planning and Design Credits: (4)

Department-approved electives Credits (10)

- Any AVM or AVP course not used in required courses.
- Any course with a prefix of ADMG, AFRO, CS, ECON, IET, IT, ITAM, MSL, or SHM.
- MATH 153 or higher (except MATH 164), POSC 320.

Total Credits: 89-90

# **Commercial Pilot Specialization**

This specialization prepares graduates for commercial aviation employment opportunities. Students must earn a minimum grade of B- in CWU's FAA approved ground school courses to receive an FAA course graduation certificate as required by FAR141. To graduate, students must complete the commercial pilot certificate\* at Central's approved flight training operator at Bowers Field in Ellensburg, Washington\*\*.

\*except as provided in approved articulation agreements.

\*\*Once a student has enrolled at Central, all subsequent flight training must be conducted by Central's approved flight training operator, and shall be done in a manner approved by the FAA under FAR Part 141.

#### Professional Pilot Core Requirements

- AVM 330 Aviation Law Credits: (3)
- AVM 350 Aviation Career Planning and Professionalism Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- AVP 101 Private Pilot Flight Laboratory I Credits: (1)
- AVP 102 Private Pilot Flight Laboratory II **Credits:** (1)
- AVP 103 Private Pilot Flight Laboratory III Credits: (1)
- AVP 141 Principles of Flight I Credits: (4)
- AVP 142 Principles of Flight II Credits: (4)
- AVP 201 Instrument Pilot Flight Laboratory I Credits: (1)
- AVP 202 Instrument Pilot Flight Laboratory I Credits: (1)
- AVP 203 Instrument Pilot Flight Laboratory III Credits: (1)
- AVP 211 Meteorology for Pilots **Credits:** (4)
- AVP 221 Aircraft Systems I Credits: (3)
- AVP 241 Instrument Flight I Credits: (4)
- AVP 242 Instrument Flight II Credits: (3)
- AVP 304 Commercial Pilot Flight Laboratory I **Credits:** (1)
- AVP 305 Commercial Pilot Flight Laboratory II Credits: (1)
- AVP 306 Commercial Pilot Flight Laboratory III Credits: (1)
- AVP 312 Aviation Weather Services Credits: (3)
- AVP 319 Applied Aerodynamics Credits: (3)
- AVP 322 Aircraft Systems II Credits: (3)
- AVP 323 Advanced Navigation Credits: (3)
- AVP 337 Aviation Physiology and Survival Credits: (4)
- AVP 340 Human Factors in Flight **Credits:** (4)
- AVP 352 Multiengine Principles Credits: (2)
- AVP 354 Commercial Pilot Credits: (4)

Total Core Credits: 70

# Required Courses

- Department-approved AVM or AVP electives **Credits:** (10)
- Department-approved electives **Credits:** (4)
- AVP 332 Aviation History Credits: (3)
- AVP 375 Mountain and Canyon Flying Credits: (3)

Total Credits: 90

# **Flight Officer Specialization**

This specialization prepares graduates for professional pilot positions within the airline industry. Students must earn a minimum grade of B- in CWU's FAA approved ground school courses to receive an FAA course graduation certificate as required by FAR141. To graduate, students must complete the commercial pilot certificate,\* multiengine rating, and certified flight instructor certificate at Central's approved flight training operator at Bowers Field in Ellensburg, Washington.\*\*
\*Except as provided in approved articulation agreements.

\*\*Once a student has enrolled at CWU, all subsequent flight training must be conducted by Central's approved flight training operator and shall be done in a manner approved by the FAA under 14 CFR Part 141 regulations.

# Professional Pilot Core Requirements

- AVM 330 Aviation Law **Credits:** (3)
- AVM 350 Aviation Career Planning and Professionalism Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- AVM 418 Threat and Error Management in Aviation Credits: (3)
- AVP 101 Private Pilot Flight Laboratory I Credits: (1)
- AVP 102 Private Pilot Flight Laboratory II **Credits:** (1)
- AVP 103 Private Pilot Flight Laboratory III Credits: (1)
- AVP 141 Principles of Flight I Credits: (4)
- AVP 142 Principles of Flight II Credits: (4)
- AVP 201 Instrument Pilot Flight Laboratory I Credits: (1)
- AVP 202 Instrument Pilot Flight Laboratory I Credits: (1)
- AVP 203 Instrument Pilot Flight Laboratory III Credits: (1)
- AVP 211 Meteorology for Pilots Credits: (4)
- AVP 221 Aircraft Systems I Credits: (3)
- AVP 241 Instrument Flight I Credits: (4)
- AVP 242 Instrument Flight II Credits: (3)
- AVP 304 Commercial Pilot Flight Laboratory I Credits: (1)
- AVP 305 Commercial Pilot Flight Laboratory II Credits: (1)
- AVP 306 Commercial Pilot Flight Laboratory III Credits: (1)
- AVP 312 Aviation Weather Services Credits: (3)
- AVP 319 Applied Aerodynamics Credits: (3)
- AVP 322 Aircraft Systems II Credits: (3)
- AVP 323 Advanced Navigation Credits: (3)
- AVP 337 Aviation Physiology and Survival Credits: (4)
- AVP 340 Human Factors in Flight Credits: (4)
- AVP 352 Multiengine Principles Credits: (2)
- AVP 354 Commercial Pilot Credits: (4)

Total Core Credits: 70

#### Required Courses

- Department-approved electives: any AVM or AVP course not used in required course: Credits (4)
- AVM 333 Air Transportation Credits: (4)
- AVP 301 Certified Flight Instructor Laboratory Credits: (1)
- AVP 348 Air Carrier Operations **Credits:** (4)

- AVP 401 Multiengine Flight Laboratory **Credits:** (1)
- AVP 410 Crew Resource Management Credits: (3)
- AVP 422 Aircraft Systems III-Turboprop Systems Credits: (3)
- AVP 423 Aircraft Systems IV-Turbojet Systems Credits: (4)
- AVP 444 Multiengine FTD, Baron G58 Credits: (2)
- AVP 445 Turboprop FTD, King Air 200 **Credits:** (2)
- AVP 448 Fundamentals of Flight Instruction Credits: (5)
- AVP 469 Turbojet Operations Credits: (4)
- AVP 489 Turbo FTD, CRJ-200 Credits: (3)

Total Credits: 110

# **Aviation Management Minor**

An aviation management minor provides students with an introduction to several key areas of aviation management.

#### Required Courses

- AVM 330 Aviation Law Credits: (3)
- AVM 334 Airport Management Credits: (3)
- AVM 335 Aviation Management Credits: (3)
- AVM 417 Aviation Safety Management Credits: (4)
- MGT 380 Organizational Management Credits: (5)

Choose a minimum of two courses from the following: Credits (7-8)

- AVM 333 Air Transportation **Credits:** (4)
- AVM 434 Airport Operations Credits: (3)
- AVM 438 Airport Planning and Design Credits: (4)

Total Credits: 26-27

# **Aviation Professional Pilot Minor**

A program designed for students who wish to earn a pilot's license (private pilot certificate). Flight training is taken through CWU's approved flight training operator at Bowers Field in Ellensburg, Washington, and may be taken under FAR Part 61 or Part 141.

# Required Courses

- Department-approved AVM or AVP electives Credits: (6)
- AVP 101 Private Pilot Flight Laboratory I **Credits:** (1)
- AVP 102 Private Pilot Flight Laboratory II Credits: (1)
- AVP 103 Private Pilot Flight Laboratory III Credits: (1)
- AVP 141 Principles of Flight I Credits: (4)
- AVP 142 Principles of Flight II Credits: (4)
- AVP 211 Meteorology for Pilots **Credits:** (4)
- AVP 221 Aircraft Systems I Credits: (3)

Total Credits: 24

# **Aviation Management Courses**

- **AVM 296. Individual Study** (1-6). May be repeated for credit. By permission.
- **AVM 298. Special Topics** (1-6). May be repeated for credit.
- AVM 330. Aviation Law (3). This course provides an introduction to aviation law, the legal system, and the principles of law and how they may be applied to aspects of air transportation. Students must be junior standing or above to enroll in this class.
- AVM 333. Air Transportation (4). The air transportation system including facilities, regulations, and problems encountered in commercial transportation, airline operations, economic, ethical, and social considerations. Prerequisite: English 101 with a grade of C- or better.
- AVM 334. Airport Management
  (3). Airport operations and
  management, including analysis
  of the role of the airport manager
  in planning, finance, and
  administration; public relations,
  social, political, and
  environmental considerations;
  operational requirements and
  facilities maintenance.
- AVM 335. Aviation Management (3). Management of aviation activities, manpower, facilities, regulations, and flight operations.
- AVM 350. Aviation Career
  Planning and Professionalism
  (3). Career planning as applicable to students pursuing careers in the air transportation industry.
  Prerequisite: junior standing or above.
- AVM 417. Aviation Safety
  Management (4). Fundamentals
  of aviation safety program
  management. Prerequisite:
  Commercial Pilot Certificate
  Course Stage IV or by
  permission.
- AVM 418. Threat and Error Management in Aviation (3). Principles of Threat and Error Management (TEM) in aviation operations. Prerequisite: AVP 340
- **AVM 434. Airport Operations** (3). Prerequisites: AVM 333 and AVM 334

- AVM 438. Airport Planning and Design (4). Methodologies necessary to the planning and design of airports. Prerequisite: AVM 434
- AVM 490. Cooperative Education (1-12). An individualized, contracted field eperience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty coordination. Prior approval required. May be repeated up to 20 credits. Grade will either be S or U.
- **AVM 496. Individual Study** (1-6). May be repeated for credit. By permission.
- **AVM 498. Special Topic** (1-6). May be repeated for credit.
- **AVM 499. Seminar** (1-5). May be repeated for credit.
- Aviation Pilot Courses
  AVP 101. Private Pilot Flight
  Laboratory I (1). Basic flight
  maneuvers, solo flight in local
  area, and introduction of
  maximum performance takeoff
  and landing procedures. Corequisite: AVP 141.
- AVP 102. Private Pilot Flight
  Laboratory II (1). Plan and
  conduct cross-country flights and
  perform short-field and soft-field
  takeoffs and landings.
  Prerequisite: AVP 101. Corequisite: AVP 142.
- AVP 103. Private Pilot Flight
  Laboratory III (1). Perform
  private pilot operation at a
  standard to obtain the private
  pilot certificate. Prerequisite:
  AVP 102.
- AVP 141. Principles of Flight I (4). Basic knowledge of airplanes and their systems, aerodynamics, flight safety, airports, aeronautical charts, airspace, radio communications, air traffic control services, and aviation regulations. Co-requisite: AVP 221
- AVP 142. Principles of Flight II (4). Basic knowledge of airplane performance and loading, preflight planning including weather analysis, visual and

- radio (VOR/ ADF) navigation, flight physiology, and aeronautical decision making. Preflight planning for crosscountry flights. Prerequisite: a grade of C- or higher in AVP 141. Co-requisite: AVP 211.
- AVP 201. Instrument Pilot Flight
  Laboratory I (1). Altitude control
  by instrument reference only, use
  of full and partial panel, and
  radio navigation. Prerequisite:
  private pilot certification.
- AVP 202. Instrument Pilot Flight Laboratory I (1). IFR approaches and holding patterns. Prerequisite: AVP 201.
- AVP 203. Instrument Pilot Flight Laboratory III (1). Perform all IFR maneuvers and procedures to FAA instrument rating practical test standards. Prerequisite: AVP 202.
- AVP 211. Meteorology for Pilots (4). Meteorological processes and weather hazards applicable to the flight environment. . Corequisite: AVP 142.
- AVP 221. Aircraft Systems I (3). Light training aircraft engines, propellers and engine systems, flight controls, fuel systems, instrumentation, tires, wheels and brakes. Co-requisite: AVP 141.
- AVP 241. Instrument Flight I (4). Discussion and study of aircraft instruments, basic attitude instrument flying, navigation, regulations, procedures, and aeronautical decision making for the instrument pilot. Prerequisite: private pilot certifications.
- AVP 242. Instrument Flight II (3). Procedures for IFR departure, enroute and arrival operations. Preparation for FAA aeronautical knowledge exam. Prerequisite: a grade of C- or higher in AVP 241. Co-requisite: AVP 312.
- **AVP 296. Individual Study** (1-6). May be repeated for credit. By permission.
- AVP 298. Special Topics (1-6).
  Course content identified by title in the university class schedule.
  May be repeated for credit under different titles. May be repeated for credit.

# AVP 301. Certified Flight Instructor Laboratory (1).

Analyze and perform maneuvers from the right seat. Demonstrate proficiency and instructional knowledge to FAA practical test standards Prerequisite: AVP 448 and Commercial Pilot Certificate.

AVP 304. Commercial Pilot Flight Laboratory I (1). Plan and conduct VFR cross-country flights using pilotage, dead reckoning, and radio navigation. Night flight operations. Prerequisite: AVP 203.

AVP 305. Commercial Pilot Flight Laboratory II (1). Operation of complex aircraft and basic knowledge of advanced commercial maneuvers. Prerequisite: AVP 304.

AVP 306. Commercial Pilot Flight Laboratory III (1). Perform flight maneuvers and procedures to FAA commercial pilot practical test standards. Prerequisite: AVP 305

AVP 307. Hypobaric Chamber (1). Physiological aspects of flight to include participation in FAA-sponsored USAF night vision lab and hypobaric (altitude) chamber training. Prerequisite: AVP 337.

AVP 312. Aviation Weather Services (3). Comprehensive analysis of weather service for flight crews, including interpretation of applicable alpha-numeric and graphic weather reports and forecasts. Co-requisite: AVP 242.

AVP 319. Applied Aerodynamics (3). Theories of flight and flight factors including airfoil shape, drag, velocity, lift and thrust, stability and control. Corequisite: AVP 242

AVP 322. Aircraft Systems II (3). Complex aircraft systems. Prerequisite: AVP 221. Corequisite: AVP 354.

AVP 323. Advanced Navigation
(3). Advanced navigation
systems, their function, operation
and application. Prerequisite:
AVP 354.

AVP 331. National Airspace
System (3). The national air
traffic control system, control
procedures, the integration of
centers, approach
communications, navigation

procedures, radar operations, and facilities.

AVP 332. Aviation History (3). Major developments in the history of powered flight. Includes perspectives from civilian, military, international, and air carrier operations. Prerequisite: ENG 101 with a grade of C- or better.

AVP 337. Aviation Physiology and Survival (4). Physiological aspects of flight crew performance, including effects of high altitude, accelerations, disorientation, and fatigue. Basic introduction to wilderness survival. Prerequisite: private pilot certification.

AVP 340. Human Factors in Flight (4). Psychological aspects of flight crew performance and fundamental concepts of crew resource management.

**AVP 348. Air Carrier Operations** (4). Familiarization and utilization of Company Operations Manual excerpts, Operations Specifications, and Minimum Equipment Lists, and the Code of Federal Regulations (CFR), Hazardous Materials (HMR) part 175, CFR parts 119, 120, 121, and NTSB830 to determine safety of flight and compliance with company policies and procedures and federal regulations. Exposure to multi-crew environment and expectations of professional behavior for flight crews. Prerequisite: AVP 354.

AVP 352. Multiengine Principles
(2). Discussion and study of
multiengine aerodynamics,
operating procedures, systems,
performance, weight, and balance
considerations, engine-out
procedures, single-engine
aerodynamics, and instrument
flight. Prerequisite: AVP 354.

AVP 354. Commercial Pilot (4).

Operation of advanced systems appropriate to complex airplanes and execution of advanced flight maneuvers. Preparation for FAA written examination.

Prerequisite: private pilot certificate with instrument (airplane) rating, or FAA instrument airplane knowledge

test passed. Corequisite: AVP 322.

AVP 375. Mountain and Canyon Flying (3). Synthesis of fundamental concepts and practices including navigation in mountainous terrain, aircraft performance and density altitude, canyon flying and airport operations in constricted areas, mountain and canyon meteor, emergencies, and flight safety. Prerequisite: private pilot certificate or permission of instructor.

AVP 401. Multiengine Flight
Laboratory (1). Perform
multiengine aircraft systems and
operations, normal and
emergency procedures to FAA
practical test standards.
Prerequisite: AVP 352 and
Commercial Pilot Certificate.

AVP 410. Crew Resource
Management (3). Study of
human performance in complex
systems with an examination of
stress, anxiety, fatigue,
communication, personality and
judgement, and practical
application of human factors and
performance in modern aviation.
Prerequisite: AVP 340.

AVP 422. Aircraft Systems III-Turboprop Systems (3). Introduction and familiarization of turbine engines and turboprop aircraft systems. Prerequisites: AVP 322 and AVP 354.

AVP 423. Aircraft Systems IV-Turbojet Systems (4). Introduction and familiarization of transport category aircraft systems. Prerequisite: AVP 422.

AVP 444. Multiengine FTD, Baron G58 (2). Introduction to and familiarization of Electronic Flight Instrument Systems (EFIS), Crew Resource Management (CRM) in multi-crew environment, use of flight director and autopilot in a simulated flight environment. Prerequisite: AVP 352, admission to the flight officer specialization, and Commercial Pilot Certificate course stage V complete or instructor permission.

AVP 445. Turboprop FTD, King Air 200 (2). Introduction and familiarization of turbinepowered aircraft operations in a simulated flight environment, including Crew Resource Management (CRM), Electronic Flight Information Systems (EFIS), Flight Director (FD), and Autopilot (AP) operations. Prerequisites: AVP 422 and AVP 444.

# AVP 448. Fundamentals of Flight **Instruction** (5). A two-part course consisting of fundamentals of instruction, including; foundations of learning, learning theories, styles, domains, teaching process and methods. lesson design and evaluation. and human behavior. The role of the airplane flight instructor, including; privileges and responsibilities, teaching aeronautical decision making, flight safety, and professionalism. Prerequisite: instrument rating and commercial pilot flight stage V complete.

AVP 458. Advanced Flight
Instruction, Instrument (3).
Methodology used in teaching
instrument flight and acquisition
of the Instrument Ground
Instructor certificate (IGI).
Prerequisite: AVP 448, and
Certified Flight Instructor
Certificate course stage 1.

AVP 469. Turbojet Operations (4). Introduction and familiarization of transport category aircraft operations including; Crew Resource Management (CRM), flows and checklist procedures, aircraft limitations, normal and emergency operational procedures. Prerequisite: AVP 423

AVP 475A. Specialty Flight
Laboratory: Single Engine
Seaplane (1). Receive ground and
flight instruction in the listed
specialty. Flight hours will vary
with each speciality. A mimimum
of 10 flight hours normally
required for credit except as
approved by aviation faculty.
May be repeated for a different
specialty. Prerequisite: FAA pilot
certificate or equivalent and

permission. Grade will either be S or U.

AVP 475B. Specialty Flight
Laboratory: Multiengine
Seaplane (1). Receive ground and flight instruction in the listed specialty. Flight hours will vary with each specialty. A minimum of 10 flight hours normally required for credit except as approved by aviation faculty. Prerequisite: FAA pilot certificate or equivalent and permission. May be repeated for a different specialty. Grade will either be S or U.

AVP 475C. Specialty Flight
Laboratory: Helicopters (1).
Receive ground and flight
instruction in the listed speciality.
Flight hours will vary with each
speciality. A minimum of 10
flight hours normally required
for credit except as approved by
aviation faculty. Prerequisite:
FAA pilot certificate or
equivalent and permission. May
be repeated for a different
speciality. Grade will either be S
or U.

AVP 475D. Specialty Flight
Laboratory: Mountain Flying (1).
Receive ground and flight
instruction in the listed speciality.
Flight hours will vary with each
speciality. A minimum of 10
flight hours normally required
for credit except as approved by
aviation faculty. Prerequisite:
FAA pilot certificate or
equivalent and permission. May
be repeated for a different
speciality. Grade will either be S
or U.

AVP 475E. Specialty Flight
Laboratory: Aerobatics (1).
Receive ground and flight
instruction in the listed speciality.
Flight hours will vary with each
speciality. A minimum of 10
flight hours normally required
for credit except as approved by
aviation faculty. Prerequisite:
FAA pilot certificate or
equivalent and permission. May
be repeated for a different

speciality. Grade will either be S or U.

AVP 475F. Specialty Flight Laboratory: Other (1). Receive ground and flight instruction in the listed speciality. Flight hours will vary with each speciality. A minimum of 10 flight hours normally required for credit except as approved by aviation faculty. Hang gliders are specifically ommitted. Prerequisite: FAA pilot certificate or equivalent and permission. May be repeated for a different speciality. Grade will either be S or U. By advisement and permission.

AVP 489. Turbo FTD, CRJ-200 (3). Introduction and familiarization of turbojet-powered aircraft operations in a simulated flight environment, including Crew Resource Management (CRM), Electronic Flight Instrument Systems (EFIS), Engine Indicating and Crew Alerting Systems (EICAS), Flight Director (FD), and automation philosophy/ operation. Prerequisite: AVP 423, AVP 445 and AVP 469, multiengine rating.

AVP 490. Cooperative Education (1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

**AVP 496. Individual Study** (1-6). May be repeated for credit. By permission.

AVP 498. Special Topics (1-6). Course content identified by title in the university class schedule. May be repeated for credit under different subtitle.

**AVP 499. Seminar** (1-5). May be repeated for credit.

# **Biological Sciences Department**

College of the Sciences Ellensburg Science Bldg., room 338 509-963-2731 Fax: 509-963-2730 www.cwu.edu/biology

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

Chair

Tom R. Cottrell, PhD

#### **Professors**

Daniel D. Beck, PhD, physiological ecology and herpetology
David M. Darda, PhD, evolutionary vertebrate morphology, herpetology
Kristina A. Ernest, PhD, terrestrial and community ecology
Paul W. James, PhD, ecology and fisheries biology
Sheldon R. Johnson, PhD, zoophysiology, mammalogy (emeritus)
Robert E. Pacha, PhD, microbiology (emeritus)
Holly C. Pinkart, PhD, microbiology, microbial ecology
Wayne S. Quirk, PhD, sensation and perception, neuroscience
Linda A. Raubeson, PhD, evolutionary biology and genetics
Stamford D. Smith, PhD, entomology (emeritus,)
Lixing Sun, PhD, behavioral ecology and evolution

#### **Associate Professors**

Lucinda Carnell, PhD, molecular behavioral genetics
Tom R. Cottrell, PhD, plant ecology
Jason T. Irwin, PhD, animal physiology
James E. Johnson, PhD, mycology, systematics
Mary E. Poulson, PhD, plant physiology
Ian J. Quitadamo, PhD, science education, cell and molecular biology
R. Steven Wagner, PhD, conservation genetics and herpetological science

#### **Assistant Professors**

Jennifer Dechaine, PhD, plant biology
Blaise Dondji, PhD, human physiology, microbiology, parasitology, immunology
Alison Scoville, PhD, ecological and evolutionary genomics
Daniel J. Selski, PhD, developmental neurobiology
Gabrielle Stryker, PhD, microbiology, immunology and parasitology

#### Lecturers

Clay Arango, PhD, stream ecology and nitrogen biogeochemistry Lucy Bottcher, PhD, ecologist, herpetologist Raymon Donahue, PhD, senior lecturer in biology

# Staff

Emil Babik, engineering technician
Jonathan Betz, instructional classroom support technician
Mary Bottcher, instructional classroom support technician supervisor
Eric Foss, instructional classroom support technician
Kariann Linnell, secretary supervisor
Jeff Wilcox, engineering technician

#### **Department Information**

The Department of Biological Sciences provides the biological component of the liberal arts education at the university. We promote student understanding of biological concepts relevant to the individual and society, and foster an appreciation of scientific inquiry. Evolution is the unifying theme of our curriculum. Our students obtain a broad education, covering a wide variety of biological disciplines. We focus on the student. Classes are small, facilitating hands-on experience, interactions with

faculty, and opportunities for both undergraduate and graduate research. We offer a full complement of competitive preprofessional programs, strong programs in regional field biology, and a quality program for secondary biology educators.

#### **Admission Requirements**

To be admitted to a biology major or minor, all students must:

#### 1. Meet with an advisor

Advisors are normally assigned by the biology department upon admission to the major. However, it is highly recommended that a student talk with an advisor well before being admitted to the major. Any biology department faculty member may serve as an advisor but different faculty members advise in different areas. Please meet with your advisor as early in your academic career as possible to begin planning your program.

2. Complete and file an application to the major by the beginning of the junior year.

A formal application to the biology major must be submitted with your advisor's approval. The entry-to-major qualifications must be met and application should be made by the beginning of the junior year. Application forms can be obtained from the advisor, the department office, or online at www.cwu.edu/biology/forms-and-information.

3. Complete and file a program of study by the end of the junior year.

To graduate, each student must have on file in the biology department and in the registrar's office, an official Course of Study. The Course of Study documents a student's individual degree program and lists the required and elective courses necessary for successful program completion. It is prepared by the student in conjunction with his or her advisor and should be approved by the student, advisor, and department chair at least one year prior to graduation. Students should meet with their advisor regularly to discuss their progress. Course of Study forms can be obtained from the advisor, the department office, or online at: www.cwu.edu/biology/forms-and-information.

# **Student Scholarly Activities**

The department is student oriented and provides a diversity of laboratory and field experiences. Students are encouraged to participate in a variety of activities.

- Research activities: Students are encouraged to seek out a faculty member who is engaged in active research that
  complements the student's career goals. Students who begin research early and continue it through their career in the
  department gain a better understanding of their profession and are more competitive in the job market or in graduate
  school admissions.
- Field program: The department believes in the importance of exposing students to biological field experiences. In addition to those provided by regular courses, the department offers summer field courses and trips to biologically interesting areas during breaks between quarters.

# **Student Organizations**

Biology Club: All biology students are encouraged to join the Biology Club. This student-run organization meets regularly to discuss academic planning and career opportunities in biology. The club performs service activities and plans recreational outings. See its website at www.cwu.edu/biology.

Beta Beta: BBB is the undergraduate National Biological Sciences Honorary Society. Students maintaining a high grade point average (3.0 or higher) are encouraged to apply.

Various organizations for students interested in health professions (medicine, dentistry, etc.) are available to provide information, support, and opportunities for service.

#### Fees

Laboratory or field fees are assessed for many of the department's lab courses. These fees are used as partial support for purchasing lab materials or providing transportation costs.

# General Consideration for Biology Majors and Minors

- The biological sciences department must approve each student's program at least one academic year preceding graduation
- CHEM 181 has a prerequisite of high school chemistry and qualification for MATH 153. PHYS 111 has a prerequisite of high school algebra and trigonometry. PHYS 181 has a prerequisite or corequisite of MATH 172, 173, and 272. BIOL 360 has a prerequisite of MATH 153.

- Credits earned in CHEM 181, 181LAB, and PHYS 111 will be allowed in partial fulfillment of the natural science breadth requirements as well as the requirements of the biology major or minor.
- A maximum of 15 credits in BIOL 295, BIOL 490, BIOL 295 and BIOL 496 may be included in the major (as electives in the BS degrees).
- A major in biological sciences incorporates classes from mathematics and other sciences. A full year of introductory biology and introductory chemistry is required for enrollment in upper-division biology classes. The introductory chemistry sequence (CHEM 181, 182, 183) is pre- or co-requisite to the introductory biology series (BIOL 181, 182, 183). Students are urged to complete these two introductory series in their first year or as early in their academic career as possible.

#### **Graduation Requirements**

- You must have a cumulative GPA of at least 2.25 in your major.
- End-of-major assessment must be completed, usually in conjunction with BIOL 499S. This requirement helps to assess whether the department has fulfilled its instructional objectives and provides us with information that will enable us to continuously improve our programs and courses.
- Application for the bachelor's degree must be filed by the second Friday of the quarter proceeding the quarter in which the degree is to be received. Complete instructions and deadlines are available in Registrar Services.

# Biology Major, BA

The BA degree is designed to develop a general breadth in the sciences. Students completing the BA major will find that their strong general background will allow them flexibility in career choices. The BA degree meets the requirements for admission to most graduate schools and medical schools. (NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

#### Required Courses

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics Credits: (5)
- BIOL 470 Mechanisms of Evolution **Credits:** (3)
- BIOL 497 Honors Thesis Credits: (1-5) **OR**
- BIOL 499S Senior Seminar Credits: (1)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

# Select from the following sequences: Credits (10)

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)

# Select from the following: Credits (5-10)

- BIOL 355 Human Anatomy and Physiology Credits: (5) AND
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5)

• BIOL 455 - Zoophysiology **Credits:** (5)

Select from the following: Credits (5)

- BIOL 360 General Ecology Credits: (5)
- BIOL 420 Environmental Microbiology Credits: (5)

Total Credits: 71-76

# Biology Major, BS

The BS major offers undergraduate students a degree program with depth of training in the biological sciences and supporting fields. This program prepares students for immediate entrance into careers in biological sciences or for graduate work (for preparation for teaching high school biology, see biology teaching major). Students may choose a general BS degree (no specialization), or a specialization in one of three areas: cell and molecular biology, ecology, or organismal biology (these will be indicated on the student's transcripts). Students consult with the appropriate biology advisor for approval of their BS program and electives, which must be submitted for approval to the biological sciences department at least one academic year preceding graduation. All students in the BS biology major must complete all BS core requirements, plus additional specific requirements if they choose a specialization.

A maximum of 15 credits in BIOL 295, BIOL 490, BIOL 495, and BIOL 496 may be included in the major. CHEM 181 has a prerequisite of high school chemistry and qualification for MATH 153. BIOL 360 has a prerequisite of MATH 153.

#### **Biology Core Requirements**

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II **Credits:** (5)
- BIOL 183 General Biology III Credits: (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics Credits: (5)
- BIOL 360 General Ecology Credits: (5) **OR**
- BIOL 420 Environmental Microbiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5) OR
- BIOL 455 Zoophysiology **Credits:** (5)
- BIOL 470 Mechanisms of Evolution Credits: (3)
- BIOL 497 Honors Thesis Credits: (1-5) **OR**
- BIOL 499S Senior Seminar Credits: (1)

#### General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

#### Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

#### Core Total Credits: 61

#### Organismal diversity requirement:

All students in the biology BS program must take at least one advanced (300- or 400-level) animal course, one advanced plant course, and one advanced course covering other organisms (fungi, protists, bacteria, viruses). These courses may be contained within the core or taken as electives. See department for list of approved courses in each category. These need not be additional courses already included to satisfy other major requirements.

# Biology-General Biology, BS (no specialization)

This general degree offers students the flexibility to choose a broad range of courses within biology or to tailor course requirements to specific interests. A biology advisor must approve electives.

# Required Courses

#### Biology Core Requirements

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics Credits: (5)
- BIOL 360 General Ecology Credits: (5) **OR**
- BIOL 420 Environmental Microbiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5) **OR**
- BIOL 455 Zoophysiology **Credits:** (5)
- BIOL 470 Mechanisms of Evolution Credits: (3)
- BIOL 497 Honors Thesis **Credits:** (1-5) **OR**
- BIOL 499S Senior Seminar Credits: (1)

# General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III **Credits:** (1)

# Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I **Credits:** (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

#### Core Total Credits: 61

# Organismal diversity requirement:

All students in the biology BS program must take at least one advanced (300- or 400-level) animal course, one advanced plant course, and one advanced course covering other organisms (fungi, protists, bacteria, viruses). These courses may be contained within the core or taken as electives. See department for list of approved courses in each category. These need not be additional courses already included to satisfy other major requirements.

General Biology Electives Credits: 39

Total Credits: 100

# **Biology Teaching Major, BS**

This major satisfies the criteria for an endorsement in biology and qualifies students to teach biology at the high school, middle school, or junior high levels. Students should consider working toward endorsement in a second area such as chemistry, Earth science, general science, physics, middle-level science, or middle-level mathematics. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum, with the exception of EFC 416 and EFC 350 (44 total credits required). Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students must pass the WEST-E exam for biology to receive a biology endorsement.

#### Required Courses

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics **Credits:** (5)
- BIOL 322 Introductory Microbiology Credits: (5) OR
- BIOL 323 Microbiology Credits: (5)
- BIOL 360 General Ecology Credits: (5)
- BIOL 427 Biotechnology for Teachers **Credits:** (5)
- BIOL 470 Mechanisms of Evolution Credits: (3)
- BIOL 492 Laboratory Experience in Teaching Biological Sciences Credits: (2)
- SCED 324 Science Education in Secondary Schools I Credits: (3)
- SCED 325 Science Education in Secondary Schools II Credits: (3)
- SCED 401 Interdisciplinary Secondary Science Inquiry Credits: (5)
- SCED 487 Teaching Secondary Science Seminar Credits: (2)

# Select either: Credits 5-10

- BIOL 355 Human Anatomy and Physiology Credits: (5) AND
- BIOL 356 Human Anatomy and Physiology Credits: (5) OR
- BIOL 441 Plant Physiology Credits: (5) OR
- BIOL 455 Zoophysiology Credits: (5)

#### Chemistry Requirements Credits: 23

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

Total Credits: 85-90

# **Biology Cell and Molecular Biology Specialization**

Cell and molecular biology (CMB) is the study of what cells are, how they are put together, what makes them work, what makes them differ from each other, how they associate and interact, and what goes wrong in disease states. The study of cell and molecular biology facilitates understanding of a wide variety of disciplines including genetics, developmental biology, microbiology, immunology and physiology. The emphasis in CMB is designed for students with interests in the cellular and molecular basics of life and the application of molecular techniques to medical, technological and environmental issues. The goal of the CMB specialization is to prepare graduates to be competitive in applications for entry into graduate degree programs, professional programs, or technical / industrial jobs. A full year of physics (PHYS 111/ 112/ 113 + labs or PHYS 181/ 182/ 183 + labs) is recommended for students interested in cell and molecular biology.

Students interested in microbiology are eligible to become registered microbiologists (National Registry of Microbiologists, American Academy of Microbiology) upon completing the following requirements:

- 1. A minimum of a baccalaureate degree in biological science with 30 quarter credits in microbiology courses.
- 2. Acceptable experience equivalent to one year of full-time work in a microbiology laboratory related to the specialty area in which certification is sought. Experience must have been gained within the immediate past three years. Certification as a conditional registrant is offered to individuals who possess the academic qualifications for registered microbiologist, but who lack the required year of full-time laboratory experience.

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics **Credits:** (5)
- BIOL 360 General Ecology Credits: (5) OR
- BIOL 420 Environmental Microbiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5) OR
- BIOL 455 Zoophysiology Credits: (5)
- BIOL 470 Mechanisms of Evolution **Credits:** (3)
- BIOL 497 Honors Thesis **Credits:** (1-5) OR
- BIOL 499S Senior Seminar Credits: (1)

#### General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

# Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

Core Total Credits: 61

#### Organismal diversity requirement:

All students in the biology BS program must take at least one advanced (300- or 400-level) animal course, one advanced plant course, and one advanced course covering other organisms (fungi, protists, bacteria, viruses). These courses may be contained within the core or taken as electives. See department for list of approved courses in each category. These need not be additional courses already included to satisfy other major requirements.

#### Required Courses

- BIOL 323 Microbiology Credits: (5)
- BIOL 425 Molecular Biotechnology Credits: (5)
- BIOL 430 Cell Biology **Credits:** (5)
- CHEM 431 Biochemistry I Credits: (3)

Department-approved electives: Credits 21

Total Credits: 100

# **Biology Ecology Specialization**

Ecology is the study of how organisms interact with their physical and biological environment. The ecology specialization is designed for students interested in basic and applied ecology, including fisheries, wildlife management, forestry, ecological restoration, and conservation biology. Students following this specialization will gain experience in natural history, field research, and experimental design. Potential careers may be found in federal, state, and tribal agencies, or private environmental consulting firms. The ecology faculty strongly suggests that every student augment the single required taxonomy course with an elective second taxonomy course. Students interested in graduate study in ecology should work closely with their advisor to tailor this specialization to their particular field of interest.

#### Required Courses

#### Biology Core Requirements

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics **Credits:** (5)
- BIOL 360 General Ecology Credits: (5) OR
- BIOL 420 Environmental Microbiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5) OR
- BIOL 455 Zoophysiology Credits: (5)
- BIOL 470 Mechanisms of Evolution Credits: (3)
- BIOL 497 Honors Thesis Credits: (1-5) OR
- BIOL 499S Senior Seminar Credits: (1)

#### General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

# Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

#### Core Total Credits: 61

#### Organismal diversity requirement:

All students in the biology BS program must take at least one advanced (300- or 400-level) animal course, one advanced plant course, and one advanced course covering other organisms (fungi, protists, bacteria, viruses). These courses may be contained within the core or taken as electives. See department for list of approved courses in each category. These need not be additional courses already included to satisfy other major requirements.

#### Additional Required Courses

- BIOL 467 Biological Field Techniques **Credits:** (5)
- MATH 170 Intuitive Calculus **Credits:** (5)

# Select one of the following advanced ecology courses: Credits 5

- BIOL 462 Wildlife and Fisheries Ecology Credits: (5)
- BIOL 463 Limnology **Credits:** (5)
- BIOL 464 Terrestrial Plant Ecology **Credits:** (5)
- BIOL 466 Conservation Biology **Credits:** (5)

Select one of the following taxonomy courses: Credits 4-5

- BIOL 341 Plant Taxonomy **Credits:** (5)
- BIOL 443 Mycology **Credits:** (5)
- BIOL 444 Algae and Bryophytes **Credits:** (5)
- BIOL 445 Field Mycology **Credits:** (5)
- BIOL 450 Ichthyology **Credits:** (4)
- BIOL 451 Herpetology Credits: (4)
- BIOL 453 Mammalogy Credits: (5)

Department-approved electives: Credits 19-20

Total Credits: 100

# **Biology Organismal Biology Specialization**

The organismal biology specialization allows a student to explore the structure (morphology), function (physiology), development, behavior, and taxonomic diversity of animals, plants, fungi and/ or microbes. A student looking for a traditional zoology or botany program will be well served by this specialization. The organismal specialization is a good choice for students preparing for graduate study in organismal biology or planning for a career in the health professions, forensics, or state or federal agency work, and it can complement other programs such as teaching, biological anthropology, and psychology.

# Required Courses

# Biology Core Requirements

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics **Credits:** (5)
- BIOL 360 General Ecology Credits: (5) OR
- BIOL 420 Environmental Microbiology Credits: (5)
- BIOL 441 Plant Physiology Credits: (5) OR
- BIOL 455 Zoophysiology **Credits:** (5)
- BIOL 470 Mechanisms of Evolution Credits: (3)
- BIOL 497 Honors Thesis Credits: (1-5) OR
- BIOL 499S Senior Seminar Credits: (1)

# General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

# Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

# Core Total Credits: 61

#### Organismal diversity requirement:

All students in the biology BS program must take at least one advanced (300- or 400-level) animal course, one advanced plant course, and one advanced course covering other organisms (fungi, protists, bacteria, viruses). These courses may be contained within the core or taken as electives. See department for list of approved courses in each category. These need not be additional courses already included to satisfy other major requirements.

# Additional Required Courses

Select two of the following structural/ functional courses: Credits 10-11

- BIOL 353 Comparative Vertebrate Anatomy **Credits:** (6)
- BIOL 354 General Vertebrate Embryology Credits: (5)

Select one of the following taxonomy courses: Credits 4-5

- BIOL 341 Plant Taxonomy **Credits:** (5)
- BIOL 444 Algae and Bryophytes **Credits:** (5)
- BIOL 445 Field Mycology **Credits:** (5)
- BIOL 450 Ichthyology **Credits:** (4)
- BIOL 451 Herpetology Credits: (4)
- BIOL 453 Mammalogy Credits: (5)

Department-approved electives: Credits 23-25

Total Credits: 100

#### **Craft Beer Trade Certificate**

Department of Biological Sciences Office of Continuing Education

#### Advisor

Steve Wagner, PhD

In interdisciplinary certificate program designed to be completed in an intensive 10-week session. The program provides an overview of the science, technology, and sales/ merchandising aspects of the craft beer brewing industry. Topics include principles of malting and brewing, brewing process technology, brewing microbiology, and principles of merchandising management for micro brewing industry. Students learn about the trade using a variety of approaches including lab work, hands on experiences, lectures, field trips, and industry speakers.

# Pre-admission requirements Credits: 10

- MATH 153 Pre-calculus Mathematics I **Credits:** (5) and **ONE** of the following
- CHEM 101 Contemporary Chemistry Credits: (5)
   OR
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)

# Admission Requirements

Students must be 21 years of age or older to enroll in the program and must apply for acceptance into the program.

# Special Requirements

Students will be expected to spend significant time outside the classroom working on assignments and projects. Some sessions may meet on Saturdays. In order to receive the certificate, students must earn a grade of B- or above in each of the four courses.

#### Financial Obligations

Because this is a self-support funded program, no tuition waiver programs apply. Additional course fees and continuing education tuition applies.

#### Required Courses: Credits: (16)

- BIOL 312 Brewing Microbiology Credits: (4)
- BIOL 317 Principles and Biochemistry of Brewing **Credits:** (4)

- RMT 320 Principles of Merchandising Management for Micro Brewing Credits: (5)
- IET 360 Brewing Process Technology Credits: (3)

Total Credits with pre-admission requirements Credits: 26

# **Biology Minor**

Not available to biology majors.

# Required Courses

- BIOL 181 General Biology I Credits: (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 213 Introductory Biostatistics Credits: (4)

# General Chemistry and Laboratory: Credits 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Electives in Biological Sciences: Credits 10

Total Credits: 44

# **Biology: Teaching Secondary Minor**

This minor is restricted to students working on a teaching major in chemistry, earth science, physics, or general science if not the chosen designated science area. Students completing this minor are required to demonstrate proficiency of student learning outcomes through a program portfolio prior to student teaching. Students may satisfy the biology reaching requirement by either taking BIOL 492 or through an independent live science teaching experience. In addition, students must pass the WEST-E exam for biology to receive a biology endorsement.

# Required Courses

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics **Credits:** (5)
- BIOL 360 General Ecology Credits: (5)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Total Credits: 44

# Allied Health Science Course AHSC 301. Introduction to Medical Technology (2).

Introduction to laboratory procedures and theory of urinalysis, clinical chemistry, hematology, blood banking and coagulation. One hour lecture and two hours laboratory per week. May be repeated for credit. By permission.

# **Biological Sciences Courses BIOL 101. Fundamentals of**

Biology (5). Biology in the modern world. Four hours lecture and one two-hour laboratory per week. May not be counted toward a major or minor in the department of biological sciences. NS-Fund Disc Phys, Biological Science (L).

# BIOL 181. General Biology I (5).

Introduction to the scientific method and the principles of ecology, genetics and evolution. Co- or prerequisite: CHEM 181. Four lecture hours and three laboratory hours per week.

# BIOL 182. General Biology II (5).

Introduction to the principlies of cellular and molecular biology. Prerequisite: BIOL 181. Co- or prerequisite: CHEM 182. Four lecture hours and three laboratory hours per week.

# BIOL 183. General Biology III (5).

Introduction to the form and function of multicellular organisms. Prerequisite: BIOL 182. Co- or prerequisite: CHEM 183. Four lecture hours and three laboratory hours per week.

# BIOL 200. Plants in the Modern

World (5). Plants and their significance in the world today. Three hours lecture and three hours laboratory per week. (Not open to majors in the biological sciences.) May not be counted toward a major or minor in the department of biological sciences. NS-Patterns, Connections, Natural World (W) (L).

#### BIOL 201. Human Physiology (5).

Organ systems of humans. Not open to students with credit in BIOL 455; may not be counted toward a major or minor in the department of biological sciences. NS-Patterns, Connections, Natural World.

#### **BIOL 213. Introductory**

Biostatistics (4). An introduction to commonly used methods for analyzing biological data. Use of statistical and graphical software will be emphasized.

Prerequisites: BIOL 182 and MATH 130 or higher.

#### **BIOL 220. Introductory Cell**

Biology (5). Concepts, processes and structures involved in understanding life at the cellular level. Prerequisites: CHEM 113 or 183. Does not count toward biology majors for students who complete BIOL 181, 182, and 183.

#### **BIOL 295. Research** (1-6).

Laboratory research experience. May be repeated up to 15 credits.

# $\textbf{BIOL 298. Special Topics} \ (1\text{-}6).$

# BIOL 300. Introduction to

Evolution (5). The evidence, theories, and mechanisms of the evolution of life, including man. Prerequisite: sophomore standing or above. May not be counted toward a major in the department of biological sciences. NS-Patterns, Connections, Natural World.

#### BIOL 302. Human Ecology (5).

Basic concepts of ecology with emphasis on ecosystems and populations and how human activities and attitudes relate to these basic concepts. May not be counted toward a major in the department of biological sciences. Prerequisite: sophomore standing or above. NS-Applications Natural Science.

#### **BIOL 304. Human Inheritance** (5).

The study of human inheritance and related areas of biology. May not be counted toward a major in the department of biological sciences.

# **BIOL 312. Brewing Microbiology**

(4). An introduction to the biology of yeasts and other organisms important in the craft brewing industry. Includes the application of laboratory methods useful in brewing and quality control. Prerequisites: CHEM 101 or CHEM 111 or CHEM 181 and MATH 153 with a grade of C or higher and admission to the Craft Beer Trade Certificate Program. Students must be 21 years of age or older.

#### **BIOL 317. Principles and**

Biochemistry of Brewing (4). An introduction to the principles of brewing and biochemistry of fermentation processes important in the craft brewing industry. Includes the application of laboratory methods useful in product evaluation and quality control. Prerequisites: CHEM 101 or CHEM 111 or CHEM CHEM 181 and MATH 153 with a grade of C or higher and admission to the Craft Beer Trade Certificate Program. Students must be 21 years of age or older.

BIOL 321. Genetics (5). A lecture and laboratory course in the basic principles of heredity of plants and animals. Four hours lecture and two hours laboratory per week. Prerequisites: BIOL 183 or BIOL 220 and either BIOL 213 or CHEM 332 and CHEM 332Lab.

#### **BIOL 322. Introductory**

Microbiology (5). Introductory biology of microorganisms and viruses with applications to medicine, food science, industry, and agriculture. Intended for nutrition and allied health students. Prerequisites: BIOL 182 or BIOL 220. Three hours lecture and four hours laboratory per week. Biology majors are encouraged to take BIOL 323. May be counted toward a degree in the biology department in lieu of BIOL 323, but cannot be counted toward a degree in the biology department if BIOL 323 is successfully completed.

# BIOL 323. Microbiology (5).

Principles of microbiological practice, including isolation, cultivation, identification, physiology, evolution, and ecology. Prerequisites: BIOL 213 and either BIOL 183 or BIOL 220. Two hours lecture and six hours laboratory per week. Does not count toward any biology major if student has successfully completed BIOL 322.

#### BIOL 341. Plant Taxonomy (5).

Classification of vascular plants, using local flora. Two hours lecture and six hours laboratory per week; the course includes field trips and individual field work. Prerequisites: BIOL 111, BIOL 183 or BIOL 200.

- BIOL 343. Plant Anatomy (5). A treatment of the fundamental facts and aspects of vascular plant anatomy. Plant tissues with special reference to their development, organization, and biological significance. Three hours lecture and four hours laboratory per week.

  Prerequisites: BIOL 111 or BIOL 183.
- of trees, their habits of growth, the characteristic forest areas of North America. Two hours lecture and four hours laboratory per week. A field course. Prerequisite: BIOL 183.
- BIOL 351. General Entomology (5). Insect biology, taxonomy, structure, and relationships to man. Two hours lecture and six hours laboratory or field work per week.
- BIOL 352. Parasitology (5).

  Biological relations of animal parasite and host; structure, classification, and methods of diagnosis of parasitic protozoa, worms, and arthropods. Two hours lecture and six hours laboratory per week.

  Prerequisite: BIOL 183.
- BIOL 353. Comparative Vertebrate Anatomy (6). Evolutionary, functional, and developmental aspects of vertebrate morphology. Three hours lecture and six hours laboratory per week. Prerequisite: BIOL 183.
- BIOL 354. General Vertebrate
  Embryology (5). Comparative
  development; fertilization,
  growth and differentiation,
  experimental morphogenesis,
  and establishment of the early
  organ systems. Two hours lecture
  and six hours laboratory per
  week. Prerequisites: CHEM 361
  and CHEM 361LAB, and BIOL
  183.
- BIOL 355. Human Anatomy and Physiology (5). The first quarter of a two-quarter study of the structure and function of the human body. Prerequisites: BIOL 183 or BIOL 220, or both EXSC 250 and EXSC 351. Students should not take BIOL 355 unless they intend to take BIOL 356. Three hours lecture and four hours laboratory per week.

- BIOL 356. Human Anatomy and Physiology (5). The second quarter of the two quarter study of the structure and function of the human body. Prerequisite: BIOL 355. Three hours lecture and four hours laboratory per week.
- BIOL 360. General Ecology (5).

  Interrelationships of organisms with their environment.

  Prerequisites: BIOL 213 and MATH 153. Three hours lecture and four hours laboratory/ field work/ discussion per week. A weekend field trip may be required.
- BIOL 362. Biomes of the Pacific Northwest (4). One-week field trip to explore the various biomes of Washington. Emphasis on writing field notes, observing and identifying organisms and communities. Prerequisite: BIOL 181.
- **BIOL 377. Regional Natural** History (2). Classroom study of the natural history of a selected region as preparation for a oneto two-week field trip. Emphasis will be on developing background skills to undertake a field exploration over the quarter (winter, spring, summer) break. Subtitles will identify the selected geological region (e.g. Baja California Natural History). BIOL 377 and GEOL 377 are crosslisted courses, students may not receive credit for both. May be repeated for credit under a different subtitle (region). May be repeated for credit. By permission.
- BIOL 377LAB. Regional Natural **History** (3). Special fees required. One- to two-week field trip to explore biological and physical patterns and processes in selected regions of North America. Emphasis will be on recording field observations, keeping a field journal, field study techniques, and performing investigations chosen and developed by student participants. Subtitles will identify the region studied. BIOL 377LAB and GEOL 377LAB are cross-listed courses, students may not receive credit for both. May be repeated for credit.
- BIOL 398. Special Topics (1-6).

- **BIOL 420. Environmental** 
  - Microbiology (5). Ecology of microorganisms in marine, freshwater and soil environments. Prerequisites: BIOL 323 and CHEM 362. Three hours lecture and four hours laboratory per week.
- BIOL 421. General Virology (5). Interrelationship between animal, plant, and bacterial viruses and their hosts, with emphasis on the animal viruses. Prerequisites: BIOL 430 or BIOL 321 or CHEM 432. Five hours lecture per week.
- BIOL 422. Immunology (5). Nature of the immune response, disease preventing and producing mechanisms and laboratory applications. Prerequisites: BIOL 183 or BIOL 220 and CHEM 361. Five hours lecture per week.
- BIOL 423. Techniques in Immunology and Virology (5). A practical course in dealing with the routine techniques used in diagnostic and experimental immunology and virology. Prerequisites: BIOL 420 or 422. Three hours lecture and four hours laboratory per week.
- BIOL 425. Molecular
  Biotechnology (5). The practice
  and theory of techniques used in
  molecular biology. Prerequisite:
  BIOL 321. Two hours lecture and
  six hours laboratory per week.
- BIOL 426. Medical Microbiology
  (3). An introduction to medical microbiology emphasizing the biology of pathogenic bacteria, their relation to infectious diseases and the isolation and identification of specific disease agents. Prerequisite: BIOL 323. Three lectures per week.
- **BIOL 426LAB. Medical Microbiology Laboratory** (2).
  Prerequisite: BIOL 323. Coprerequisite: BIOL 426.
- BIOL 427. Biotechnology for Teachers (5). This course will help pre-service teachers develop the necessary skills to construct and perform biological experiments using contemporary biotechnology in the context of educational theory and application. Prerequisite: BIOL 321. May be repeated for credit.
- **BIOL 430. Cell Biology** (5). Analysis of cell organization and

the processes governing cell function and behavior. Prerequisites: CHEM 361, CHEM 361LAB, and BIOL 182. Four hours lecture and three hours laboratory per week.

- BIOL 441. Plant Physiology (5). A critical study of the physiological processes of plants including water relations, photosynthesis, mineral assimilation, and responses to the environment. Co- or prerequisites: BIOL 213 and CHEM 362.
- BIOL 443. Mycology (5). The biology, morphology, and economic importance of the major groups of fungi including the slime molds. Three hours lecture and four hours laboratory per week. Prerequisites: either BIOL 183 or both BIOL 182 and BIOL 220.
- BIOL 444. Algae and Bryophytes (5). Study of the occurrence, evolution, physiology, and ecology of fresh-water and marine algae and non-vascular plants with emphasis on those in the Pacific Northwest.

  Prerequisites: either BIOL 182 or BIOL 183.
- BIOL 445. Field Mycology (5).
  Stresses taxonomy, morphology, and ecology of mushrooms and related forms with emphasis on Northwest flora. Prerequisites: either BIOL 182 or BIOL 213.
  Offered fall quarter only.
- BIOL 450. Ichthyology (4). An introduction to the biology, taxonomy, and distribution of modern fishes with special reference to the Pacific Northwest. Three hours lecture and two hours laboratory or field work per week. Prerequisites: BIOL 183 and BIOL 213.
- BIOL 451. Herpetology (4). An introduction to biology, taxonomy, and distribution of modern amphibians and reptiles with special reference to the Pacific Northwest. Two hours lecture and four hours laboratory or field studies per week. Prerequisite: BIOL 183.
- BIOL 452. Ornithology (4). Study of birds with special emphasis on anatomic and behavioral

adaptations. Three hours lecture and two hours laboratory or field study per week. Prerequisite: BIOL 183.

BIOL 453. Mammalogy (5).
Evolution, taxonomy, and ecology of mammals with laboratory emphasis on Pacific Northwest mammals. Three hours lecture and four hours laboratory per week.
Prerequisite: BIOL 183.

BIOL 455. Zoophysiology (5).

Vertebrate physiology; laboratory experience in physiological techniques. Three hours lecture and four hours laboratory per week. Prerequisites: CHEM 362, and either BIOL 213 or BIOL 183, and either BIOL 220 or BIOL 320.

BIOL 462. Wildlife and Fisheries
Ecology (5). Ecological principles
of wildlife and fish populations
and communities as they relate to
management theory and practice
in the Pacific Northwest.
Prerequisite: BIOL 360. Three
hours lecture/ discussion and
four hours laboratory/ field work
per week. Weekend field trips
may be required.

BIOL 463. Limnology (5).
Chemical, physical, and
biological characteristics of
inland waters. Prerequisites:
CHEM 182 and BIOL 360. Three
hours lecture and four hours
laboratory per week.

BIOL 464. Terrestrial Plant
Ecology (5). The ecological
relationships of plant species and
plant communities. Three hours
lecture and either four hours
laboratory. Weekend field trips
may be required. Prerequisites:
BIOL 213, BIOL 360, and either
BIOL 182, or BIOL 183.

BIOL 465. Biology of Animal Behavior (4). Prerequisites: BIOL 213 or PSY 362. Three lectures and two hours of laboratory a week.

BIOL 466. Conservation Biology
(5). An introduction to the theory and practice of conservation biology, with emphasis on case studies. Prerequisite: BIOL 360. Two hours lecture, one hour discussion, and four hours lab or field study per week. Weekend field trips may be required.

BIOL 467. Biological Field
Techniques (5). Intensive, field-based experience in techniques used by field biologists to sample organisms and their environments, and analyze data collected in the field.

BIOL 470. Mechanisms of Evolution (3). Darwinian evolution and the modern synthesis. Prerequisites: 15 credits of biology, and senior standing.

BIOL 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

**BIOL 491. Workshop** (1-6). May be repeated for credit.

BIOL 492. Laboratory Experience in Teaching Biological Sciences (2). Experience in planning, managing, and teaching in a laboratory setting. May be repeated for credit.

BIOL 493. Biological Field
Practicum (1-15). Individual or
group off-campus experience in
the field study of biological
phenomena. May be repeated for
credit.

BIOL 495. Research (1-6).

Laboratory research experience.

May be repeated up to 6 credits.

BIOL 496. Individual Study (1-6).

BIOL 497. Honors Thesis (1-5).
Prerequisite: admission to
Departmental Honors Program.
This course may be substituted
for BIOL 499.1 in any biology

baccalaureate program.

BIOL 498. Special Topics (1-6).

BIOL 499. Seminar (1-5).

BIOL 499S. Senior Seminar (1).

Biological sciences: reading, writing, and speaking. Either this course or BIOL 497, Honors Thesis, is required in all baccalaureate programs of the biology department. Prerequisite: senior standing.

# **Business and Marketing Education**

#### **Business Education Courses**

# **BSED 146. Basic Accounting** (5).

Basic introductory course to accounting concepts. May not be taken for college credit if any other college accounting course or courses have been completed. May be audited.

#### **BSED 316. Educational**

Technology (3). Students will explore a variety of concepts and resources related to the appropriate and effective integration of technology/ media in school settings. BSED 316 and EDCS 316 are cross-listed courses; students may not receive credit for both. Prerequisites: PSY 314, either EFC 310 or EDF 301A, and full admission to the Teacher

Preparation Program. CS or IT 101 are also recommended prerequisites.

# BSED 445. Techniques of Cooperative Education (3).

Philosophy, place, methods, and techniques of coordinating work experience. BSED 445 and MKED 445 are cross-listed courses; students may not receive credit for both.

#### **BSED 492. Practicum** (5-15).

Prerequisite: permission of department chair. Grade will either be S or U.

# BSED 493A. Undergraduate Research Practicum (1-3).

Conduct research under direct supervision of a professor with

specific learning agreement required. Department requirements must be met. ADMG, IT, and RMT 493A are equivalent courses; students may not receive credit for more than one. May be repeated for credit. Grade will either be S or U.

# Marketing Education Course MKED 445. Techniques of Cooperative Education (3).

Philosophy, place, methods, and techniques of coordinating work experience. MKED 445 and BSED 445 are cross-listed courses; students may not receive credit for both.

# **Center for Teaching and Learning**

College of Education and Professional Studies Ellensburg Black Hall, room 228

#### Alternative Pathway to Teaching-Online

Maria Anastasia Sefchick Manager 509-963-2433 sefchickm@cwu.edu

#### **General Information**

Central Washington University's Center for Teaching and Learning has been approved by the State to offer a hybrid online alternative certification program in partnership with school districts in the central corridor of Washington (ESD 171, 105, and 123). The program's mission is to serve the most disadvantaged school districts having the most difficulty in hiring and retaining teachers in high need areas. All candidates will begin with one intensive (eight hrs/ day-ten day) summer session on campus, and complete the remaining three transitions online while completing an internship in district schools. During the internship candidates will co-teach with a mentor teacher. They will prepare to take the Washington TPA.

#### **Admission Requirements:**

- Hold a baccalaureate degree from a regionally accredited institution of higher education;
- Have external validation of qualifications, including demonstrated successful experience with students or children, such as reference letters and letters of support from previous employers;
- Meet the age, good moral character, and personal fitness requirements for all teachers (all applicants must have current fingerprint clearance as a condition of admission into the program); and
- Provide evidence of successful passage of the statewide basic skills exam (WEST-B) and content area test (WEST-E) for the endorsement area
- Must be willing to complete internship in a school in the school districts in the central corridor of Washington (ESD 171, 105 and 123)

# **Course Requirements**

Summer:

ECTL 470 and ECTL 480. Total of 6 credits.

Fall, winter and spring:

ECTL 490 Internship. 6 credits each quarter. Total credits: 18.

#### Center for Teaching and Learning Courses

# ECTL 470. Alternative Pathways to

Teaching: Seminar Series (3). Reserved for candidates in Alternative Pathways to Teaching (APT). Introduces candidates to the technical skills of teaching by using case studies with embedded problems encountered in Washington public schools. Students will solve the problems through individual online research and group discussion. Seminar topics include online learning, inquiry-based learning, assessment,

Grade will either be S or U.

Department Consent Required

# ECTL 480. Alternative Pathways to Teaching: Curriculum Planning

(3). Course reserved for candidates admitted into the APT Regional Consortia Program. Candidates will learn about and develop practical lesson planning, management, and assessment strategies, as well as methods and models of teaching, including reflection and analysis. Prerequisite: full admission to CWU, and the APT Regional Consortia Program. Grade will either be S or U.

ECTL 490. Alternative Pathways to Teaching: Internship (6). Must

be repeated for 3 quarters for a total of 18 credits. Course reserved for Alternative Pathways to Teaching (APT) Program. Candidates will be required to complete a school year-long internship in a public school setting to satisfy legislative requirements using a co-teaching model. The final quarter the candidate must take and pass the Teacher Performance Assessment before exiting the program and applying for certification. May be repeated up to 18 credits. Grade will either be S or U. Department Consent Required.

# **Chemistry Department**

professional, legal and ethical

requirements, special education

and English language learners.

College of the Sciences Ellensburg Science Bldg., room 302 509-963-2811 Fax: 509-963-1050

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See website for how this program may be used for educational and career purposes.

# Faculty and Staff

Chair

Levente Fabry-Asztalos, PhD

#### Professor

Anthony Diaz, PhD, inorganic, solid state Martha J. Kurtz, PhD, chemistry and science education JoAnn Peters, PhD, organic, mechanistic Carin Thomas, PhD, biochemistry, toxicology

#### **Associate Professors**

Levente Fabry-Asztalos, PhD, organic Anne Johansen, PhD, environmental, analytical Tim Sorey, PhD, chemistry education

# **Assistant Professors**

Gil Belofsky, PhD, organic Stephen Chamberland, PhD, organic Yingbin Ge, PhD, physical Todd Kroll, PhD, biochemistry Dion Rivera, PhD, physical, analytical

#### Lecturers

Bing-Lin Chen, PhD, general Robert Rittenhouse, PhD, general

#### Staff

Emil Babik, instrument technician Tony Brown, stockroom manager Don Davis, computer technician Julie Khyler, safety officer Mari Sorey, stockroom assistant Lisa Stowe, secretary Jeff Wilcox, instrument technician

#### **Department Information**

The department offers three majors. In each major, courses in the first two years emphasize fundamental topics in chemistry, mathematics, and physics. Students then choose advanced courses in chemistry and related areas to complete the requirements in their major.

These majors provide opportunities for practical experience in chemistry. Students are encouraged to do research on campus with a faculty member, and to participate in the department's seminar program. Two minors are offered to supplement career related fields.

#### **Department Standards**

Students must have earned a grade of C- or higher in all prerequisites to be admitted to a course. To graduate, all chemistry majors are required to achieve at least a 2.0 cumulative GPA and a 2.25 GPA in courses required for the major.

#### Lab Fees

All chemistry labs have fees associated with them that must be paid when registering for the course:

CHEM 101, Contemporary Laboratory \$45

CHEM 111LAB, Chemistry Laboratory \$45

CHEM 112LAB, Chemistry Laboratory \$45

CHEM 113LAB, Chemistry Laboratory \$45

CHEM 181LAB, General Chemistry

Laboratory \$45

CHEM 182LAB, General Chemistry

Laboratory \$45

CHEM 183LAB, General Chemistry

Laboratory \$45

CHEM 332LAB, Quantitative Analysis Laboratory \$45

CHEM 345, Environmental Chemistry \$45

CHEM 361LAB, Organic Chemistry

Laboratory \$45

CHEM 363LAB, Qualitative Organic

Chemistry Laboratory \$45

CHEM 382LAB, Integrated Physical/

Inorganic Laboratory I \$45

CHEM 383LAB, Integrated Physical/

Inorganic Laboratory II \$45

CHEM 431LAB, Biochemistry

Laboratory \$45

CHEM 452LAB, Instrumental Analysis Laboratory \$45

# Chemistry: Teaching Major, BA

This major satisfies the criteria for an endorsement in chemistry and qualifies students to teach chemistry at the high school, middle, or junior high levels. Students should seriously consider working toward endorsement in a second area, such as biology, general science, Earth science, middle level science, middle level mathematics, physics, or mathematics. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum, with the exception of EFC 416 and EFC 350 (44 total credits required). Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students must pass the WEST-E exam for chemistry to receive a chemistry endorsement.

Students are recommended to take MATH 273 before taking CHEM 381.

# Required Courses

#### General Chemistry Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

# Analytical Chemistry Credits: 5

- CHEM 332 Quantitative Analysis Credits: (3) AND
- CHEM 332LAB Quantitative Analysis Laboratory Credits: (2) OR
- CHEM 345 Environmental Chemistry **Credits:** (5)

# Organic Chemistry Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

#### Biochemistry Credits: 5

- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)

#### Other Courses Credits: 23

- CHEM 350 Inorganic Chemistry Credits: (3)
- CHEM 381 Physical Chemistry (Thermodynamics) Credits: (5)
- CHEM 492 Laboratory Experience in Teaching Chemistry Credits: (2)
- SCED 324 Science Education in Secondary Schools I Credits: (3)
- SCED 325 Science Education in Secondary Schools II Credits: (3)
- SCED 401 Interdisciplinary Secondary Science Inquiry Credits: (5)
- SCED 487 Teaching Secondary Science Seminar Credits: (2)

#### Introductory Physics or General Physics Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### Mathematics Credits: 15

- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)
- MATH 272 Multivariable Calculus I **Credits:** (5)

Total Credits: 86

# **Chemistry Major, BS**

The bachelor of science major is designed for students who plan a career in chemistry or related fields. The program prepares students for further study in graduate programs, or to enter the workplace directly. The BS degree is certified by the American Chemical Society if the nine department-approved electives come from a designated set of upper-division courses within chemistry. Consult your major advisor about department-approved electives.

Students are recommended to take MATH 273 before taking CHEM 381.

#### BS Chemistry Core Requirements

#### General Chemistry and Laboratory: Credits 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

#### Organic Chemistry: Credits 13

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 363 Organic Chemistry III Credits: (3)
- CHEM 363LAB Organic Chemistry Laboratory II Credits: (2)

# Total Core Credits: 28

#### Required Courses

#### Quantitative Analysis Credits: 5

- CHEM 332 Quantitative Analysis Credits: (3)
- CHEM 332LAB Quantitative Analysis Laboratory Credits: (2)

# Chemistry Credits: 14

- CHEM 350 Inorganic Chemistry Credits: (3)
- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)
- CHEM 452 Instrumental Analysis Lecture **Credits:** (3)
- CHEM 452LAB Instrumental Analysis Laboratory Credits: (2)
- CHEM 488 Colloquium Credits: (1)

# Physical Chemistry Credits: 15

- CHEM 381 Physical Chemistry (Thermodynamics) Credits: (5)
- CHEM 382 Physical Chemistry (Quantum Chemistry) Credits: (3)
- CHEM 382LAB Integrated Physical/ Inorganic Laboratory I Credits: (2)
- CHEM 383 Physical Chemistry (Quantum, Statistical Mechanics, Kinetics) III Credits: (3)
- CHEM 383LAB Integrated Physical/ Inorganic Laboratory II Credits: (2)

# Introductory Physics or General Physics Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)

• PHYS 183LAB - General Physics Laboratory III Credits: (1)

Calculus Credits: 15

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MATH 272 Multivariable Calculus I Credits: (5)

Department-approved electives Credits: 9

Total Credits: 101

# **Chemistry: Biochemistry Specialization**

This specialization is designed for students who plan a career in biochemistry or a related health science area such as medicine or dentistry. Majors may pursue further graduate studies, a career in biotechnology or a related industry.

Students are recommended to take MATH 273 before taking CHEM 381.

BS Chemistry Core Requirements

General Chemistry and Laboratory: Credits 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Organic Chemistry: Credits 13

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 363 Organic Chemistry III Credits: (3)
- CHEM 363LAB Organic Chemistry Laboratory II Credits: (2)

Total Core Credits: 28

# Required Courses

- BIOL 321 Genetics **Credits:** (5)
- CHEM 350 Inorganic Chemistry Credits: (3)
- CHEM 488 Colloquium Credits: (1)

General Biology Credits: 15

- BIOL 181 General Biology I Credits: (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)

Quantitative Analysis Credits: 5

- CHEM 332 Quantitative Analysis **Credits:** (3)
- CHEM 332LAB Quantitative Analysis Laboratory Credits: (2)

Physical Chemistry Credits: 10

- CHEM 381 Physical Chemistry (Thermodynamics) Credits: (5)
- CHEM 382 Physical Chemistry (Quantum Chemistry) Credits: (3)
- CHEM 382LAB Integrated Physical/ Inorganic Laboratory I Credits: (2)

Biochemistry Credits: 13

- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)
- CHEM 432 Biochemistry II Credits: (3)
- CHEM 433 Biochemistry III Credits: (3)

• CHEM 433LAB - Biochemistry Lab II Credits: (2)

Introductory Physics or General Physics Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

Calculus Credits: 15

- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)
- MATH 272 Multivariable Calculus I Credits: (5)

Select from the following: Credits 2-5

- BIOL 323 Microbiology Credits: (5)
- BIOL 425 Molecular Biotechnology Credits: (5)
- BIOL 430 Cell Biology Credits: (5)
- CHEM 383 Physical Chemistry (Quantum, Statistical Mechanics, Kinetics) III Credits: (3)
- CHEM 383LAB Integrated Physical/ Inorganic Laboratory II Credits: (2)
- CHEM 452 Instrumental Analysis Lecture Credits: (3)
- CHEM 452LAB Instrumental Analysis Laboratory Credits: (2)
- CHEM 495 Senior Research Credits: (1-6)

Total Credits: 112-115

# **Chemistry Minor**

Required Courses

General Chemistry and Laboratory: Credits 15

- CHEM 181 General Chemistry I **Credits:** (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Department-approved upper-division electives in chemistry: Credits 16

Total Credits: 31

# **Chemistry: Teaching Minor**

This minor is restricted to students working on a teaching major in biology, Earth science, or physics. Students completing this minor are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students must pass the WEST-E exam for chemistry to receive a chemistry endorsement.

Required Courses

# General Chemistry and Laboratory Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

### Analytical Chemistry Credits: 5

- CHEM 332 Quantitative Analysis Credits: (3)
- CHEM 332LAB Quantitative Analysis Laboratory Credits: (2) OR
- CHEM 345 Environmental Chemistry **Credits:** (5)

# Organic Chemistry and Laboratory Credits: 8

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)

#### Biochemistry and Laboratory Credits: 5

- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)

# Additional Course Credits: 2

• CHEM 492 - Laboratory Experience in Teaching Chemistry Credits: (2)

#### Total Credits: 35

#### **Chemistry Courses**

#### CHEM 101. Contemporary

Chemistry (5). Chemical principles and their application to contemporary problems of human beings and their environment. Four hours of lecture and two hours of laboratory weekly. NS-Applications Natural Science (L).

# CHEM 111. Introduction to

Chemistry (4). Chemical principles of the compositions, structure, properties, and changes of matter. Designed for students in certain health science programs. Four lectures weekly. NS-Fund Disc Phys Biological Sciences.

# CHEM 111LAB. Introductory Chemistry Laboratory (1).

Introduction to basic chemistry techniques. Two hours laboratory weekly. Co- or prerequisite: CHEM 111. NS-Fund Disc Phys Biological Sciences (L).

# CHEM 112. Introduction to

Organic Chemistry (4). Structure, properites, nomenclature and reactions of carbon compounds. Prerequisites: CHEM 111 or CHEM 183 with a grade of C- or better.

# CHEM 112LAB. Introduction to Organic Chemistry Laboratory

(1). Basic techniques in organic chemistry. Two hours of laboratory weekly. Prerequisites: CHEM 111LAB or CHEM 183LAB with a grade of C- or better. Pre- or Corequisite: CHEM 112

# CHEM 113. Introduction to

**Biochemistry** (4). Structure, properties, and metabolism of biomolecules. Prerequisite: CHEM 112 with a grade of C- or better.

# CHEM 113LAB. Introduction to

Biochemistry Laboratory (1). Coor prerequisite: CHEM 113. Prerequisite: CHEM 112LAB with a grade of C- or better. Two hours of laboratory weekly.

# CHEM 181. General Chemistry I

(4). This course introduces chemistry concepts such as atoms and molecules, stoichiometry, solution chemistry, thermochemistry, electronic structure of the atom and periodicity, and chemical bonding. Prerequisites: strongly recommend high school chemistry and qualification for MATH 153 or math placement

exam. NS-Fund Disc Phys and Biological (L).

#### CHEM 181LAB. General

Chemistry Laboratory I (1). This laboratory supports hands-on, inquiry-based approaches to exploring topics presented in CHEM 181. Three hours of laboratory weekly. Co- or prerequisite: CHEM 181. NS-Fund Disc Phys Biological Sciences (L).

# CHEM 182. General Chemistry II

(4). Builds upon concepts from CHEM 181. Introduces molecular geometry and bonding theories, gas laws, solution properties and chemical kinetics. Students planning on taking CHEM 183 are advised that they must be qualified for MATH 154 before enrolling in CHEM 183. Prerequisite: CHEM 181 with a grade of C- or higher.

# CHEM 182LAB. General

Chemistry Laboratory II (1). Integrates concepts learned in CHEM 181 and supports handson, inquiry-based approaches to topics presented in CHEM 182. Co- or prerequisite: CHEM 181LAB with

a grade of C- or better. Three hours of laboratory weekly.

# CHEM 183. General Chemistry III

(4). Builds upon chemical concepts from CHEM 181 and CHEM 182. Introduces chemical equilibria, acid-base chemistry, solubility, entropy, free energy, and electrochemistry.

Prerequisite: MATH 153 with a grade of C or higher, or qualification for MATH 154 on

# CHEM 183LAB. General

COMPASS test.

Chemistry Laboratory III (1). Integrates concepts introduced in CHEM 181 and CHEM 182 and supports hands-on, inquiry-based approaches to topics in CHEM 183. Co- or prerequisite: Chemistry 183. Prerequisite: CHEM 182LAB with a grade of C- or better. Three hours of laboratory weekly.

**CHEM 295. Research** (1-6). May be repeated for credit. By permission.

# CHEM 296. Individual Study (1-6). CHEM 298. Special Topics (1-6). CHEM 332. Quantitative Analysis

(3). Principles of quantitative analytical chemistry, including statistical treatment of data, complex equilibria, activity, and volumetric, gravimetric, and instrumental analysis.

Prerequisites: CHEM 183 and CHEM 183LAB with a grade of C- or higher in each. Co-requisite: CHEM 332LAB.

# CHEM 332LAB. Quantitative Analysis Laboratory (2).

Accompanying laboratory to qualitative chemistry including statistical treatment of data and volumetric, gravimetric, and instrumental analysis. Six hours of laboratory weekly. Prerequisites: CHEM 183 and CHEM 183LAB with a grade of C- or higher in each. Co-requisite: CHEM 332.

# CHEM 345. Environmental

Chemistry (5). Introduction to aquatic, atmospheric, and soil chemistry. Chemical analysis of environmental samples collected on class field trips. Prerequisite: CHEM 183 with a grade of C- or better. Three lectures and six laboratory hours per week.

#### CHEM 350. Inorganic Chemistry

(3). Bonding in small molecules. Includes a review of basic bonding models and a thorough study of molecular orbital theory. Prerequisites: CHEM 183, and either PHYS 113 or PHYS 183, with a grade of C- or higher.

#### CHEM 361. Organic Chemistry I

(3). An introduction to organic chemistry for students majoring in the sciences or preparing for health related careers. Organic structures, nomenclature, spectroscopy, and chemistry of alkanes, alkenes, and alkynes. Co- or prerequisite: CHEM 183 with a grade of C- or higher.

# CHEM 361LAB. Organic

Chemistry Laboratory I (2). An introduction to organic chemistry laboratory techniques including melting point determination, recrystallization, extraction, distillation, chromatography, and IR and NMR spectroscopy. Co- or prerequisite: CHEM 361. Six hours of laboratory weekly.

# CHEM 362. Organic Chemistry II

(3). Part two of the organic chemistry series.
Stereochemistry, nucleophilic substitution and elimination, chemistry of alcohols, ethers, and an introduction to the chemistry of the carbonyl group.
Prerequisite: CHEM 361 with a grade of C- or better.

# CHEM 363. Organic Chemistry III

(3). Part three of the organic chemistry series. Carbonyl alphasubstitutions and condensations and the chemistry of carboxylic acid derivatives, benzene, amines, and carbohydrates. Prerequisites: CHEM 362 and CHEM 361Lab with a grade of Cor higher.

# CHEM 363LAB. Organic Chemistry Laboratory II (2).

Application of basic laboratory techniques learned in CHEM 361LAB to more advanced functional group transformations. Co- or prerequisite: CHEM 363. Prerequisite: CHEM 361LAB with a grade of C- or better. Six hours of laboratory weekly.

# CHEM 381. Physical Chemistry (Thermodynamics) (5).

Prerequisites: CHEM 183 &

183LAB, MATH 272, and either PHYS 113 & 113LAB, or PHYS 183 & 183LAB with a grade of Cor better in each.

# CHEM 382. Physical Chemistry (Quantum Chemistry) (3).

Introduction to quantum mechanics as applied to chemical systems. The electronic structure of atoms and molecules. Prerequisite: CHEM 381 with a grade of C- or better.

# CHEM 382LAB. Integrated Physical/Inorganic Laboratory I

(2). Synthesis of inorganic compounds and their characterizations using physical chemistry methods, with additional experiments in thermodynamics, quantum mechanics, and kinetics. Co- or prerequisite: CHEM 382. Six hours of laboratory weekly.

# CHEM 383. Physical Chemistry (Quantum, Statistical

Mechanics, Kinetics) III (3). Molecular bonding, introduction to statistical mechanics, phenomenological kinetics. Prerequisite: CHEM 382 with a grade of C- or higher.

# CHEM 383LAB. Integrated Physical/Inorganic Laboratory II

(2). Synthesis of inorganic compounds and their characterization using physical chemistry methods, with additional experiments in thermodynamics, quantum mechanics, and kinetics. Co- or prerequisite: CHEM 383. Prerequisite: CHEM 382LAB with a grade of C- or better. Six hours of laboratory weekly.

**CHEM 395. Research** (1-6). May be repeated for credit. By permission.

#### CHEM 431. Biochemistry I (3).

Chemical structure, physical properties, nomenclature and function of proteins, carbohydrates, lipids, nucleic acids, and biological membranes. Protein function includes membrane transporters and enzyme kinetics, inhibition, and regulation. Prerequisite: CHEM 362 with a grade of C- or better.

# CHEM 431LAB. Biochemistry

**Laboratory** (2). Quantitative and qualitative biochemical techniques applied to proteins

and nucleic acids. Co- or prerequisite: CHEM 431. Prerequisite: CHEM 361LAB with a grade of C- or better. Six hours of laboratory weekly.

#### CHEM 432. Biochemistry II (3).

Metabolism of carbohydrates, lipids, amino acids, and nucleotides, including metabolic regulation and thermodynamics. Prerequisite: CHEM 431 with a grade of C- or better.

CHEM 433. Biochemistry III (3). In depth coverage of the central dogma of biochemistry, including DNA replication and repair and transcriptional and translational aspects of genetic regulation, with emphasis on common biochemical techniques and data analysis. Prerequisite: CHEM 431 with a grade of C- or better.

CHEM 433LAB. Biochemistry Lab II (2). Molecular cloning of a gene into a plasmid vector, followed by expression and purification of the encoded protein using modern chromatography techniques. Downstream analysis and experimentation is then conducted on the purified protein. Prerequisite: CHEM 431LAB. Co-or prerequisite: CHEM 433. Six hours of laboratory weekly.

# CHEM 452. Instrumental Analysis

Lecture (3). Theory and functional aspects of modern analytical instrumentation. Emphasis is on components of instruments, limitations of

measurements, and applicability of techniques to specific analytical problems.
Prerequisites: CHEM 332 and CHEM 332LAB with a grade of C- or higher. Co-requisite: CHEM 452LAB.

# CHEM 452LAB. Instrumental Analysis Laboratory (2).

Accompanying laboratory to Instrumental Analysis Lecture providing hands-on experience with a number of instrumental methods used in modern chemical research, analysis, and process control. Co- or prerequisite: CHEM 452 with a grade of C- or higher. Six hours of laboratory weekly.

# CHEM 454. Spectroscopy (3).

Theory, instrumentation and application of spectroscopy in chemistry. Three hours per week split between lecture and laboratory as needed. CHEM 454 and CHEM 554 are equivalent courses, students may not receive credit for both. Prerequisites: CHEM 363, CHEM 363LAB and CHEM 383.

# **CHEM 473. Transition Metal**

Chemistry (3). A survey of the structure, spectroscopy, and characterization of transition metal compounds, and the electronic structures of transition metals and lanthanides.

Prerequisites: CHEM 350 and 382 with a grade of C- or better in each.

# CHEM 488. Colloquium (1).

Students prepare an oral presentation on a current topic in chemistry. May be from a research experience or from a review of the chemistry literature. Prerequisite: senior standing.

# CHEM 490. Cooperative Education

(1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval. May be repeated for credit. Grade will either be S or U.

**CHEM 491. Workshop** (1-6). May be repeated for credit.

# CHEM 492. Laboratory Experience in Teaching Chemistry (2).

Integrates both chemistry and education in order to guide teaching assistants into hands-on, inquiry-based approaches to learning in the laboratory environment. Additional time to be assigned. May be repeated for credit. Grade will be either S or U.

# $\textbf{CHEM 495. Senior Research} \ (1\text{-}6).$

May be repeated for credit. By permission.

CHEM 496. Individual Study (1-6). CHEM 498. Special Topics (1-6). CHEM 499. Seminar (1-5).

# **Communication Department**

College of Arts and Humanities Ellensburg Bouillon Hall, room 232A 509-963-1066 Fax: 509-963-1060

www.cwu.edu/communication

See website for how the communication programs may be used for educational and career purposes.

#### Faculty and Staff

Chair

Philip Backlund, PhD

#### **Professors**

Philip Backlund, PhD, communication studies James L. Gaudino, PhD, communication studies Michael R. Ogden, PhD, journalism, film and video studies

#### **Associate Professors**

Lois J. Breedlove, MA, journalism Robert C. Fordan, MA, journalism Cesar Garcia, PhD, public relations

#### **Assistant Professors**

Elizabeth Kerns, MA, public relations Steve Jackson, MA, journalism, convergent media Cynthia Mitchell, MBA, journalism Sacheen Mobley, PhD, communication studies Maria Sanders, MA, film and video studies

#### Lecturers

Katherine Horowitz, MA, communication studies Terri Reddout, MA, public relations and advertising Toby Staab, MA, journalism

# Staff

Crystal Boothman, secretary senior Kristin Gaskill, Observer business manager

# **Department Information**

The Department of Communication prepares students to become active participants in communicating with and the shaping of modern culture in a global society. The department emphasizes student-centered instruction in gathering and disseminating written, spoken, and visual information, as well as course work in the processes, effects, and theories of human communication. The department is committed to a liberal education in written, oral, visual, and convergent media communication, as well as to training in diverse professional fields.

# **Department Standards**

#### **Admission Requirements**

Admission to the communication department majors in Public Relations, Journalism and Communication Studies is selective. To preserve effective teacher to student ratios, to ensure students are able to register for needed courses, and to ensure access to necessary equipment, the department limits the total number of majors it can carry at any given time. The number of available spaces in each major varies each quarter according to the number of graduates the previous year. More space is generally open fall quarter.

Admission information and procedures are available in the communication department office.

#### **Exit Requirements**

- 1. Students must maintain a 2.4 GPA with a minimum grade of C- in all courses counted toward fulfilling any major or minor requirements.
- 2. No course may be counted twice in fulfilling an internal or external minor.

#### **Financial Obligations**

Production courses required for broadcast journalism and/ or film and video studies have associated lab fees.

#### **Bachelor of Arts**

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

### **Communication Foundation Core Requirements**

COM 189 - Communication Orientation 1

COM 201 - Media and Culture 4

COM 202 - Communication Ethics and the First Amendment 4

**Total Core Credits:9** 

# Communication Studies Major, BA

The communication studies major begins with a traditional liberal arts perspective, infuses an international/intercultural perspective, and then focuses on practical application of communication knowledge and skill. The major is intended for students who wish to be at home in a wide range of situations and cultures and who value the role of communication in creating effective relationships locally and globally. The major is also an effective foundation for advanced study (academic or professional). Students must complete the communication foundation courses prior to acceptance into the communication studies major.

### Communication Foundation Core Requirements

- COM 189 Communication Orientation Credits: (1)
- COM 201 Media and Culture Credits: (4)
- COM 202 Communication Ethics and the First Amendment Credits: (4)

#### Total Core Credits: 9

# Required Courses

- COM 207 Introduction to Communication Studies Credits: (4)
- COM 251 Small Group Dynamics Credits: (4)
- COM 253 Interpersonal Communication Credits: (4)
- COM 302 Intercultural Communication Credits: (4)
- COM 340 Public Communication: Theory and Practice Credits: (4)
- COM 350 Persuasion and Culture Credits: (4)
- COM 365 Organizational Communication Credits: (4)
- COM 401 Language, Thought, and Communication Credits: (4)
- COM 450 Advanced Public Speaking Credits: (4)
- COM 451 Communication Analysis and Research Credits: (4)
- COM 485 Senior Seminar Credits: (4)
- COM 489 Portfolio Assessment Credits: (1)

#### Media Requirement - Credits: 4

# Select one class from the following:

- COM 321 Visual Communication Credits: (4)
- COM 354 History of Television Credits: (4)
- COM 369 Mass Media and Society Credits: (4)
- COM 460 Communication Law Credits: (4)

#### Select one option of the following:

- Study Abroad Option Credits: 12
- Twelve (12) pre-approved credits from participating international institution OR: Non-Study Abroad Option - Credits: 12
- Twelve (12) pre-approved credits, of which eight (8) must come from one of the following cognates:

#### Relational Communication

- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 380 Nonverbal Communication Credits: (4)
- COM 402 Gender Communication Credits: (4)
- COM 403 Family Communication Credits: (4)

#### Organizational Communication

- COM 345 Business and Professional Speaking Credits: (4)
- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 375 Interviewing Principles and Techniques Credits: (4)
- COM 465 Communication and Organizational Leadership Credits: (4)

Pre-approved upper division elective credits - Credits (5)

Student may choose any COM course with advisor approval.

Total Credits: 75

# Journalism Major, BA

In today's environment of converging media, successful journalists need the necessary skills and concepts to tell meaningful stories for a variety of outlets. In this major, students learn how to conceive ideas and collect and present information using words, pictures, and sounds to craft news stories that are accurate, fair, clear, and compelling. Students will also understand the ethical, legal, and management environment of journalism and the fundamental role media plays in our social, political, and economic system. A specialization in print, broadcast, or convergent media is required. Students must complete the communication foundation courses prior to acceptance into the journalism major.

Communication Foundation Core Requirements

- COM 189 Communication Orientation Credits: (1)
- COM 201 Media and Culture Credits: (4)
- COM 202 Communication Ethics and the First Amendment Credits: (4)

Total Core Credits: 9

Journalism Core

#### Required Courses

- COM 226 Writing and Reporting for Convergence Media Credits: (4)
- COM 308 Writing and Reporting for Print Journalism Credits: (5)
- COM 310 Writing and Reporting for Broadcast Journalism Credits: (5)
- COM 321 Visual Communication Credits: (4)
- COM 489 Portfolio Assessment **Credits:** (1)
- COM 490 Cooperative Education Credits: (1-12) (Must be taken for 5 credits)

Select two of the following - Credits: 8

- COM 333 Communication Ethics Credits: (4)
- COM 369 Mass Media and Society Credits: (4)
- COM 382 History of American Journalism Credits: (4)
- COM 460 Communication Law Credits: (4)

Total Journalism Core Credits: 41

Select one of the following Specializations:

# Print Specialization

The Print specialization teaches students the skills, concepts and perspectives they need to be successful in the print media. Students will learn how to conceive story ideas, gather information, write stories, and edit, design and present those stories for print publication. Students will put those skills to use on the Observer, Central's weekly student-run newspaper, and at Newswatch, Central's weekly student-run newscast. They will also get on-the-job education and training in a print-related internship.

# Required Courses

- COM 347 Copy Editing Credits: (4)
- COM 408 Feature Writing Credits: (4)
- COM 466 Investigative Reporting Credits: (4)

Select ten credits from the following - Credits: (10)

(Must take at least 4 credits of Observer.)

- COM 442 News Watch Reporting Credits: (2)
- COM 446 Convergence Publishing Credits: (2)
- COM 468 Observer **Credits:** (1-2)
- COM 478 Advanced Newspaper Editing Credits: (3-6)

Pre-approved upper division elective credits - Credits: (12)

Student may choose any COM course with advisor approval.

Print Specialization Credits: 34

# **Broadcast Specialization**

The Broadcast specialization builds professional skills and ethical awareness in broadcast reporting and video production, from a general knowledge of journalism and mass media studies. Courses are offered in basic and advanced news writing, studio and field production, and news producing and directing. Rigorous and demanding, they are designed to provide a blend of theory and hands-on training in on-air and behind-the-scenes operations, required to enjoy successful careers in a highly competitive industry.

# Required Courses

- COM 322 Introduction to Studio Production Credits: (4)
- COM 341 Introduction to Field Production Credits: (4)
- COM 342 Broadcast News Producing and Reporting Credits: (4)

Select ten credits from the following - Credits: (10)

(Must take at least 4 credits of NewsWatch Management.)

- COM 442 News Watch Reporting Credits: (2)
- COM 446 Convergence Publishing **Credits:** (2)
- COM 452 Applied Video Production Credits: (1-2)
- COM 462 NewsWatch Management Credits: (2)
- COM 468 Observer **Credits:** (1-2)

Pre-approved upper division elective credits - Credits: (12)

Student may choose any COM course with advisor approval.

**Broadcast Specialization Credits: 34** 

#### Convergent Media Specialization

The Convergent Media specialization teaches students the skills, concepts and perspectives they need to be successful in the world of online media. Students will learn the basics of both the print and broadcast formats, and their integration into the online media. They will also learn to write stories, and edit and present those stories for the Web. Students will receive hands-on experience in a number of projects as well as complete an internship.

# Required Courses

- COM 306 Introduction to Convergent Media Credits: (4)
- COM 336 Convergent Media Design Credits: (4)
- COM 406 Topics in Convergence Media Credits: (4)

Select ten credits from the following - Credits: (10)

(Must take at least 4 credits of Observer.)

- COM 446 Convergence Publishing Credits: (2)
- COM 452 Applied Video Production Credits: (1-2)
- COM 468 Observer Credits: (1-2)

Pre-approved upper division elective credits - Credits: (12)

Student may choose any COM course with advisor approval.

Convergent Media Specialization Credits: 34

Major Total (including core classes) Credits: 75

# **Public Relations Major, BA**

Public relations has become an indispensable part of any organization, company, institution, or government trying to create a body of public opinion to support its mission, vision, or values. Understood as a management function in modern organizations in the corporate world, this same professional level has been adopted by NGOs, non-profit organizations, and even governments and countries as a whole. This new scenario offers plenty of opportunities for multifaceted public relations practitioners with skills in written and interpersonal communication, research, negotiation, leadership, creativity, logistics, and problem solving. Students must complete the communication foundation courses prior to acceptance into the public relations major.

Communication Foundation Core Requirements

- COM 189 Communication Orientation Credits: (1)
- COM 201 Media and Culture Credits: (4)
- COM 202 Communication Ethics and the First Amendment Credits: (4)

### Total Core Credits: 9

# Required Courses

- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 270 Introduction to Public Relations Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- COM 350 Persuasion and Culture Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)
- COM 470 Public Relations Strategies Credits: (5)
- COM 475 Public Relations and Advertising Management Credits: (4)
- COM 489 Portfolio Assessment **Credits:** (1)
- COM 490 Cooperative Education Credits: (1-12) (must be taken for 5 credits)
- MKT 360 Principles of Marketing Credits: (5)

Select eight (8) credits in media from the following

- COM 306 Introduction to Convergent Media Credits: (4)
- COM 442 News Watch Reporting Credits: (2)
- COM 460 Communication Law Credits: (4)
- COM 446 Convergence Publishing Credits: (2)
- COM 468 Observer **Credits:** (1-2)

Select eight (8) credits in public relations specializations from the following

- COM 472 Global Public Relations Credits: (4)
- COM 473 Corporate Reputation Management Credits: (4)
- COM 474 Public Opinion Credits: (4)
- COM 487 Advanced Public Relations Seminar Credits: (4)

Pre-approved upper-division elective credits - Credits (10)

Student may choose any COM course with advisor approval.

Total Credits: 75

# Non-profit Organization Administration Certificate (COM)

The certificate in non-profit organization administration is an interdisciplinary approach to provide an understanding of the organization, financing, and management issues in non-profit organizations. It is designed to complement majors in artistic, advocacy, and educational endeavors. The courses provide practical, hands-on skills as well as discussion of the issues facing non-profit organizations.

Non-profit Organization Management Certificate

Required Courses: Credits (13)

- ACCT 301 Financial Accounting Analysis Credits: (5)
- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 427 Grant Writing and Fundraising Credits: (4)

Select 8 credits from the following electives:

- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 270 Introduction to Public Relations **Credits:** (4)
- COM 315 Studies in Communication Credits: (1)
- COM 348 Publication Design Credits: (4)
- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)
- COM 371 Event Planning and Management Credits: (4)
- COM 487 Advanced Public Relations Seminar Credits: (4)
- COM 492 Communication Practicum Credits: (2)

Total Credits: 21

#### **Professional Writing Certificate (COM)**

The professional writing certificate allows students to develop their writing skills for professional and business environments. It is delivered entirely online to serve professionals already working in careers as well as students planning to begin professional or business careers. Students will learn the rhetorical requirements for specific forms of written communication, including letters, memos, reports, proposals, promotional materials, and press releases. They will also learn to edit their own writing for clarity, correctness, and style.

#### Required Courses

- ENG 301 Introduction to Professional Writing Credits: (5)
- ENG 310 Technical Writing Credits: (4)
- COM 347 Copy Editing Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)

Total Credits: 17

#### **Advertising Minor**

The minor in advertising develops competence in advertising planning, production, and distribution. Students majoring in majors within the department are encouraged to take the advertising minor. However, it must be done in addition to the requirements of the majors, and does not qualify as an outside minor.

#### Required Courses

- COM 201 Media and Culture Credits: (4)
- COM 280 Advertising Fundamentals Credits: (4)
- COM 300 Media Research Credits: (5)
- COM 305 Advertising Copywriting Credits: (4) OR COM 309
- COM 309 Writing Broadcast Advertising Credits: (4)
- COM 388 Advertising Planning Credits: (4)
- COM 492 Communication Practicum Credits: (2) (Must be taken twice for 4 credits)

Total Credits: 25

#### **Communication Minor**

The communication minor introduces students to the study of communication within a modern social and cultural context. Students in teacher education must meet with the department chair and the certification director to determine the course of study necessary for endorsement.

#### Required Courses

- Department-approved electives **Credits:**(20)
- COM 201 Media and Culture Credits: (4)
- COM 202 Communication Ethics and the First Amendment Credits: (4)

#### Non-profit Organization Administration Minor (COM)

The minor in non-profit organization administration is an interdisciplinary minor designed to provide an understanding of the organization, financing and management issues in non-profit organizations. It is designed to complement majors in artistic, advocacy and educational endeavors. The minor provides practical, hands-on skills as well as discussion of the issues facing non-profit organizations.

#### Required Courses: Credits (13)

- ACCT 301 Financial Accounting Analysis Credits: (5)
- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 427 Grant Writing and Fundraising Credits: (4)

#### Select 12 credits from the following electives:

- ANTH 360 Introduction to Museum Studies Credits: (4)
- ANTH 361 Museum Exhibit Design Credits: (4)
- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 270 Introduction to Public Relations Credits: (4)
- COM 315 Studies in Communication Credits: (1)
- COM 348 Publication Design Credits: (4)
- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 365 Organizational Communication Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)
- COM 371 Event Planning and Management Credits: (4)
- COM 375 Interviewing Principles and Techniques Credits: (4)
- COM 487 Advanced Public Relations Seminar Credits: (4)
- COM 492 Communication Practicum Credits: (2)
- TH 350 Theatre Management Credits: (3)
- TH 351 Theatre Management **Credits:** (3)
- TH 360 Stage Management Credits: (3)

#### Choose one from the following: Credits (5)

- ANTH 490 Cooperative Education Credits: (1-12)
- ART 490 Cooperative Education Credits: (1-12)
- COM 490 Cooperative Education Credits: (1-12)
- MUS 490 Cooperative Education Credits: (1-12)
- TH 490 Cooperative Education Credits: (1-12)

Total Credits: 30

#### **Organizational Communication Minor**

The minor in organizational communication is designed to complement a broad spectrum of majors leading to careers in government, education, social and community services. Emphasis is placed on an understanding of the basic nature of communication in organizations, and on the fundamental knowledge and skills necessary for effective communication in organizations at the interpersonal small group, and public (large group) levels.

Required Courses

- Department-approved electives **Credits**: (4)
- COM 251 Small Group Dynamics Credits: (4) OR
- COM 302 Intercultural Communication Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- COM 365 Organizational Communication Credits: (4)
- COM 375 Interviewing Principles and Techniques Credits: (4)
- COM 490 Cooperative Education Credits: (1-12) (must be taken for 5 credits)

#### **Comunication Courses**

#### **COM 189. Communication**

**Orientation** (1). Survey of departmental requirements and fields of study. Required for entry into communication majors.

#### COM 201. Media and Culture (4).

An examination of mass media in its historical, societal, and political environments.

Development of an understanding of the impact media has in a diverse world.

# COM 202. Communication Ethics and the First Amendment (4).

Importance of First Amendment to democratic society. Ethics of communication in the public sphere and the rights and responsibilities of communication professionals. Required for entry into communication majors.

## COM 207. Introduction to Communication Studies (4).

Introductory course designed to develop oral communication abilities for effective communication across a variety of contexts.

COM 208. Introduction to Public Relations Writing (4). Integrated approach to media writing emphasizing public relations writing styles.

# COM 226. Writing and Reporting for Convergence Media (4).

Writing and research of journalistic stories for online media. Prerequisite: admission to either the communication studies, public relations, film & video studies, or journalism major.

#### **COM 251. Small Group Dynamics**

(4). Analysis and practice of communication principles affecting effectiveness of small group discussion. Includes theory and practice of leadership and problem solving in small groups. Prerequisite: COM 207.

## COM 253. Interpersonal Communication (4).

Investigation of theory, research, and practice of the role of communication in effective interpersonal relationships.

Prerequisite: COM 207.

#### COM 255. Emerging Leaders (2).

Course is designed to develop student leaders on campus through leadership training, leadership experiences, self analysis, and familiarization with leadership opportunities at CWU.

#### COM 267. Screenwriting

Fundamentals (4). Introduction to the basic script format, the creative story and style elements, and the writing process steps for screenplays and teleplays. Focus on the narrative script development process from idea conception to first draft. COM 321 recommended. COM 267 and ENG 267 are cross-listed courses, students may not receive credit for both. Prerequisites: ENG 102 and FVS 250, and admission to the communication, english language and literature or film and video studies major.

#### COM 270. Introduction to Public

Relations (4). The basic concepts of public relations; the tools and media used in communicating with the variety of publics.

Prerequisite: COM 208.

#### COM 280. Advertising

Fundamentals (4). An introductory course that introduces the principles of advertising, including; ethics, social issues, professional practice, and the application of advertising principles to problems of business, non-profit, and political issues. Prerequisite: COM 201.

#### COM 290. Cooperative Field

Experience (1-6). Internship designed to explore career opportunities in the major. Open to all students. May be repeated for credit. Grade will either S or

#### COM 296. Individual Study (1-6). COM 298. Special Topics (1-6). COM 300. Media Research (5).

Development, understanding and application of media research theories, methodologies and techniques. Prerequisite: admission to either the communication studies, public relations, film & video studies, or journalism major.

#### COM 302. Intercultural

Communication (4). The objective of this course is to give the participants the skills and understanding necessary to improve communication with

peoples of other nations and cultures. Prerequisite: sophomore standing or above. SB-Perspectives on World Cultures (W).

#### COM 305. Advertising

Copywriting (4). Students will learn to write for the advertising industry, including a study of effective advertising copy, and the methods of creating project proposals and project assessments. Prerequisite: COM 280.

#### COM 306. Introduction to

Convergent Media (4). An introductory course in the design of convergent media tools. Students will learn interactive client/ server based media, including coding, design, and interactive elements. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 308. Writing and Reporting

for Print Journalism (5). Students will learn how to conceive, report, pitch, and write news stories for print media and will learn how to cover a specialized news beat. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### **COM 309. Writing Broadcast**

Advertising (4). Principles and techniques used in writing effective radio and television commercials, public service announcements, and promotional copy. A writing intensive course. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 310. Writing and Reporting

for Broadcast Journalism (5). Writing, news gathering, and reporting for the electronic media. Includes on-the-scene coverage and interviewing. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 312. Introduction to Non-Profit Leadership (4). This course introduces key elements in

nonprofit organization leadership, and makes brief reviews of various nonprofit management topics, such as strategic missions, board development, leadership roles, fundraising, staffing, performance evaluation and accountability, nonprofit marketing and legal issues. Prerequisite: admission to the communication or recreation and tourism major, minor or certificate program or permission of instructor.

#### COM 315. Studies in

Communication (1). Specialized topics in communication to increase practical communication skills. May be repeated for credit. Grade will either be S or U. By permission.

#### **COM 321. Visual Communication**

(4). Understanding the communication of visual messages for an audience, production of visual images in print, video, and digital forms. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

# COM 322. Introduction to Studio Production (4). An introduction to the production elements of a television show, with an emphasis on the function and operation of studio lighting, audio, and cameras. Prerequisites: COM 321 and admission to either the communication studies, public relations, film and video studies, or journalism major.

# COM 327. Scriptwriter in Development and Production

(4). Combined lecture/ workshop, overview of the creative, communicative, and collaborative responsibilities expected of a scriptwriter in development and production. Students explore the challenges of this profession, as well as solutions to typical problems. Prerequisites: COM 267 and admission to the communication or film and video studies major.

#### COM 328. Scriptwriting for Interactive Entertainment (4). An introduction to the basic format, story and style elements for

interactive entertainment (multiplot narratives, games, simulations, etc.). Students examine the relationship between interactive design, user navigation and storytelling. Prerequisites: COM 267, and admission to the communication or film and video studies major.

# COM 330. Media Aesthetics (5). An examination of the major aesthetic elements involved in visual storytelling for film and television, including; light, color, 2D and 3D space, time/ motion, and sound. Prerequisites: COM 321 and admission to a communications major.

# COM 333. Communication Ethics (4). The study of ethical issues in communication. Prerequisite: COM 202 and admission to major.

COM 336. Convergent Media
Design (4). Practical approaches
in information design for
convergent media. Focus on
industry standard applications
and techniques. Prerequisites:
COM 306 and COM 321, and
admission to a communication
major.

#### COM 337. Documentary

Scriptwriting (4). Introduction to the format, story and style elements for documentary film. Topics include narrative point-ofview, story structure, camera placement, interviewer presence, narration and voice-over commentary, re-enactment and archival materials. Prerequisites: COM 267, and admission to the communication or film and video studies major.

# COM 340. Public Communication: Theory and Practice (4). Survey of rhetorical theory and practice from ancient to modern times. Emphasis on rhetorical application to public speaking settings. Prerequisite: students must be admitted to communication studies, public relations, film and video studies or journalism major in order to register for this course.

#### COM 341. Introduction to Field Production (4). Principles and techniques of location production and visual storytelling for journalism and film.

Prerequisites: COM 321 and admission to a communications major.

# COM 342. Broadcast News Producing and Reporting (4). Principles and techniques used in producing newscasts and field reports for broadcast news, with emphasis on television medium. Recommended: COM 310 and

COM 345. Business and
Professional Speaking (4). Oral
communication in career and
professional settings with focus
on public presentations,
briefings, and persuasion.

#### COM 346. Production

COM 341.

Management for Film and Video (4). Theory, discussion, and practical application of planning and management fundamentals during preproduction, production, and postproduction of narrative and/or documentary programs. Prerequisites: COM 201 or FVS 250.

COM 347. Copy Editing (4). The editing process; edit copy for content and mechanics; write headlines and cutlines. Prerequisites: COM 208 and admission to the major (i.e. com studies, public relations, film and video studies, journalism, English writing specialization), or professional writing certificate program or permission of the instructor.

# COM 348. Publication Design (4). Publication design, the theories of graphics, headlines, and text. Management of the design process. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism

major. **COM 350. Persuasion and Culture**(4). Role of persuasion in society,

elements of human motivation, techniques, and appeals of the persuader. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 351. Visual Anthropology

(4). Provides methodological, theoretical, and practical background to produce and evaluate imagery in films and video; guidelines and practice of image presentation/manipulation in anthropological and social contexts. COM 351 and ANTH 351 are cross-listed courses; students may not receive credit for both. Prerequisites: ANTH 130 or ART 225 or COM 321 or COM 330.

#### COM 353. History of Narrative

Film (4). A history of the development of narrative film as an art form and cultural medium, with primary focus on Hollywood cinema. COM 353 and ENG 353 are cross-listed courses; student may not receive credit for both. Prerequisite: FVS 250

#### COM 354. History of Television

(4). Historical survey of television as an entertainment, information, and art medium. Emphasis on understanding the cultural, social, political, technological, and economic conditions of production; the examination of television as text itself; and TV's impact on audiences. COM 354 and ENG 354 are cross-listed courses, students may not receive credit for both. Prerequisites: either COM 201 or FVS 250.

#### COM 355. History of Documentary

(4). Survey of documentary history from 1895 to present. Focus on philosophy of documentary approach, overview of the most important topics and issues, and development of critical standards in the genre. COM 355 and ENG 355 are crosslisted courses; students may not receive credit for both. Prerequisites: either COM 201 or FVS 250.

#### COM 356. Writing for Screen

Genre (4). An introduction to the story, style comedic or dramatic elements that distinguish major genres, the role of genre in the Hollywood production system, and the impact of genre on the viewing public as assessed by critical theories. Prerequisites: COM 267 and admission to the communication or film and video studies major.

# COM 357. Scriptwriting for Serial Media (4). Scriptwriting for the basic genres of serial television and the web. Includes study of

serial script, structure, story, character development, and dialog. COM 357 and ENG 357 are cross-listed classes, students may not receive credit for both. Prerequisites: COM 267 or ENG 267 and admission to the communication, english language and literature or film and video studies major.

# COM 362. Mediation and Conflict Resolution (4). Communication and decision-making strategies for conflict resolution. Negotiating agreement and mediating differences in interpersonal and organizational settings. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism

# COM 365. Organizational Communication (4). Function, forms, and patterns of communication in organizations. Effects of organizational structures and dynamics on communication. Methods of evaluating communication policies and practices as an aid to organizational management. Prerequisite: admission to either the communication studies, public relations, or journalism major or permission of instructor. By permission

#### COM 367. Narrative Screenwriting

(4). Writing screenplays in combination with the study of models and techniques. COM 367 and ENG 367 are cross-listed courses; students may not receive for both. Prerequisites: either COM 201 or FVS 250.

#### COM 369. Mass Media and Society

(4). Relationship of the mass media to social institutions; including philosophy, responsibilities, regulations, and criticism. Variable topic, may be repeated for up to 8 credits under a different title. COM 369 and SOC 369 are cross-listed courses; students may not receive credit for both. May be repeated for credit.

#### COM 370. Writing for Public

**Relations** (4). Practical instruction in persuasive writing, news releases, broadcast material, speeches, institutional

messages, newsletter articles, employer publications, backgrounders, features, and corporate profiles. Prerequisites: COM 208, COM 270, and admission to either the communication studies, public relations, or journalism major.

#### **COM 371. Event Planning and**

Management (4). This course offers a comprehensive study of the event management field. The course will enable participants to develop an innovative and multiskilled approach to planning and coordination events. Topics include: legal issues in event planning and coordination promotions, design, catering, and other relevant topics. Prerequisite: admission to the communication or recreation and tourism major, minor or certificate program or permission of instructor.

# COM 375. Interviewing Principles and Techniques (4). Examination of the basic principles and techniques of interviewing and their application in informational, employment, and persuasive/ counseling contexts. Extensive in-class and community experience in interviewing provided. Prerequisites: COM 207 and admission to a communication major.

## COM 380. Nonverbal Communication (4).

Fundamentals of nonverbal communication including codes, relationship to biology and culture, usage, and interrelationships. COM 380 and ANTH 380 are cross-listed courses.

#### **COM 382. History of American**

Journalism (4). Survey of American journalism since colonial times; emphasis on understanding the evolution of journalism in the United States and the changing technological, social, and cultural trends affecting print and broadcast journalism. Prerequisites: COM 201 and admission to a communication major.

#### COM 388. Advertising Planning

(4). Development of media strategies in advertising

campaigns, including analysis of research, making useful media buys, integrating multiple objectives in the media message, and developing an assessment plan for effectiveness of message. Prerequisite: COM 280.

COM 401. Language, Thought, and Communication (4). Examination of human communication on an individual, interpersonal, and public level. Exploration of the relationship between communication theory and the practice of communication in various professional settings. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### **COM 402. Gender Communication**

(4). Analysis of gender role development in females and males with focus on effective relationship development between sexes. Analysis and development of communication skills useful in cross-sex friendships, working relationships, and romantic/ family relationships. Prerequisite: admission to either the communication studies, public relations, film & video studies, or journalism major.

#### **COM 403. Family Communication**

(4). This course is designed to provide an overview of family dynamics and the processes that influence family communication and family functioning. FS 403, COM 403 and FS 503 are crosslisted courses; students may not receive credit for both.

COM 405. Advanced Advertising Copywriting (4). Students develop advanced skills in writing copy, developing visual elements, and constructing advertisements and advertising campaigns. Prerequisite: COM 305.

COM 406. Topics in Convergence Media (4). Issues and skills in convergence media. Provides skills in advanced techniques and approaches to information distribution in convergence media. Topics will change from quarter to quarter. Prerequisites: COM 336 and admission to either the communication studies.

public relations, film and video studies, or journalism major. May be repeated for up to 8 credits.

COM 408. Feature Writing (4).

Skills needed to conceive, report, and write a wide range of feature stories for newspapers, magazines, and online publications. Prerequisites: COM 308 and admission to either the communication studies, public relations, or journalism major.

May be repeated for credit.

COM 420. Media Buying and Placement (4). Students learn the process by which companies purchase advertising, and how advertising buys are sold at the agency/ corporate level. Students develop skills to calculate appropriate media buys. Prerequisite: COM 280.

COM 422. Advanced Multi-camera Production (4). The creative use of multi-camera techniques for studio and remote productions. Emphasis on directing, advanced lighting techniques, sound design, graphics, and remote truck equipment. Focus on dramatic formats, magazinestyle, and large event productions. Prerequisites: COM 322 and admission to either the communication studies, public relations, film and video studies, or journalism major.

COM 427. Grant Writing and Fundraising (4). Students will learn to write grants, conduct fundraising efforts, and other forms of revenue generation in non-profit organizations. Prerequisite: admission to the communication or recreation and tourism major, minor or certificate program or permission of instructor.

COM 431. Editing for Television and Film (4). History, concepts, and techniques of editing for film and television. Hands-on learning by editing diverse scenes using Final Cut software.

Combination of lecture and lab. Prerequisites: COM 341, COM 315, and admission to either the film & video studies, or the broadcast journalism major.

**COM 432. Directing TV and Film** (4). Examines director's role and responsibilities, process of

translating the written word into image and action; basics of camera-actor blocking; editing dialogue scenes; organizing production venues and logistics of in-studio and on-location programs. Prerequisites: senior standing and COM 322 or COM 341. COM 346 is recommended. Combined lecture/ workshop.

COM 440. Corporate Media
Production (4). A study of
methods used in the
conceptualization, design, and
production of non-broadcast
video programs. Consideration of
management needs and training
requirements. Prerequisites:
COM 341 and admission to either
the communication studies,
public relations, film and video
studies, or journalism major.

#### COM 441. Documentary

Production (4). Detailed analysis of the creative and technical elements of documentary production. Emphasizes "handson" application of production techniques for documentary storytelling from concept through to final product. Prerequisites: COM 341 and admission to either the communication studies, public relations, film and video studies, or journalism major. COM 363 and ENG 363 is also a recommended prerequisite. Combined lecture/workshop. My be repeated for credit.

#### **COM 442. News Watch Reporting**

(2). Gather, write, and report news stories for newscasts and public affairs programs on Ellensburg Community
Television cable channel 2, and CWU-TV, cable channel 15.
Recommended: COM 341.
Concurrent enrollment allowed in COM 342. Prerequisites: COM 310 and admission to the communications or film and video study major. May be repeated up to 6 credits.

#### COM 446. Convergence

Publishing (2). Gather, write, and report news and feature stories for the web. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major. May be repeated for credit.

#### **COM 447. Narrative Screenwriting**

I (4). In-depth study of the theory and practice of developing a narrative screenplay. Topics include narratology, symbols and myths, cognition and storytelling, oral tradition and communication, theme, point-of-view, and voice. Prerequisites: COM 267 or ENG 267 and admission to the communication, english language and literature or film and video studies major.

#### COM 450. Advanced Public

Speaking (4). Preparation and delivery of specialized forms of public address. Writing speeches for others, advanced forms of style and support, and speeches for special occasions.

Prerequisite: COM 340 or COM 345, and admission to the communications major.

#### COM 451. Communication Analysis and Research (4).

Theory and practice in and study of methodology for gathering and analyzing data on human communication. Behavior identification, instrument types and uses, and assessment strategies. Prerequisites: COM 401 and admission to a communication major.

#### COM 452. Applied Video

Production (1-2). Assist in producing new scasts, public affairs, and/or entertainment programs for Ellensburg Community Television, and KCWU-TV. Prerequisite: COM 322. May be repeated up to 6 credits.

#### COM 453. Applied Video

Management (3). Administrative responsibilities for students involved in the production and scheduling of video programming for Central Access Television (CAT-14), or for live streaming and/ or VoD. Prerequisites: COM 452, and instructor approval. May be repeated up to 9 credits.

#### COM 456. History and Practice of Convergent Gaming (4). Course emphasizes the design and practice of role-playing games with a significant focus on computer-based Massive Multiuser Online Role Play Games

(MMORPGs). The course will

look at the economics, culture, art, design, and history of the rapidly growing Role Playing Games market. Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 457. Narrative Screenwriting

II (5). Combined lecture/ workshop providing indepth study of the theory and practice of developing a screenplay and teleplay writing style. Topics include mood and tone, scene structure and description, gender, age, subgroup communication and dialog techniques, non-verbal communication, and rewriting. Prerequisites: COM 367, and admission to the communication, english language and literature, or film and video studies major.

#### **COM 460. Communication Law**

(4). Understanding legal issues for the communication professions including libel, slander, privacy, copyright, and First Amendment. Prerequisites: COM 202, and admission to either the communication studies, public relations, film and video studies, or journalism major.

#### COM 462. NewsWatch

Management (2). Administrative responsibilities for the production of NewsWatch and related public affairs programs on Ellensburg Community Television cable channel 2 and CWU-TV cable channel 15. Prerequisites: COM 322, and COM 341, and COM 442 and admission to the communications or film and video study major. May be repeated up to 4 credits.

## COM 465. Communication and Organizational Leadership (4).

This course builds on COM 365 and provides advanced study of communication within organizations and the role of communication in leadership. The course is designed for senior students who will apply previous course information to advanced projects and study. Prerequisites: COM 365 and admission to the communications major.

#### **COM 466. Investigative Reporting**

(4). This class teaches the skills needed to conceive, report, and write investigative stories based on documents, data, interviews to be published in newspapers, magazines, and online publications. Prerequisites: COM 308 and admission to either the communication studies, public relations, or journalism major.

#### COM 467. Narrative Screenwriting

III (5). Combined lecture/ workshop providing indepth study of the theory and practice of adaptations and alternative plots for screenplays and teleplays. Prerequisites: COM 457 and admission to the communication, english language and literature, or film and video studies major.

#### **COM 468. Observer** (1-2).

Reporting and photo assignments on the campus newspaper. Prerequisite: COM 208. May be repeated up to 6 credits.

#### COM 469. Media and Cultural

Studies (4). Detailed examination of the media from the perspectives and insights of critical theoretical approaches ranging from the Frankfurt School, to cultural studies, to postmodern theory. Emphasis on unlocking the domains of meaning, value, politics, and ideology in the development of entertainment and information technology industries. COM 469 and COM 569 are layered courses; students may not receive credit for both.

#### **COM 470. Public Relations**

Strategies (5). Creation of a public relations program for an organization, agency, or institution. Prerequisites: COM 370 and admission to either the communication studies, film and video studies, public relations, or journalism major.

#### **COM 472. Global Public Relations**

(4). This course studies public relations from a global perspective. It provides an international point of view for public relations theories, strategies, and practices. It also compares cultures and investigates the interaction of cultures from a cultural, social,

political, and legal perspective. Prerequisites: COM 370 and admission to either the communication studies, film and video studies, public relations, or journalism major. Grade will either be S or U.

#### **COM 473. Corporate Reputation**

Management (4). Corporate reputation management is concerned with all of an organization's stakeholders and the multifaceted way in which an organization communicates (customers, investors, employees, etc.). Prerequisites: COM 270 and COM 370, and admission to a communication studies major.

#### COM 474. Public Opinion (4).

Monitoring, assessing, and managing public opinion.
Prerequisite: admission to either the communication studies, public relations, film and video studies, or journalism major.

# COM 475. Public Relations and Advertising Management (4).

Application of theory and concepts to managing public relations and advertising accounts. Prerequisites: COM 470 and admission to either the communication studies, public relations, or journalism major.

COM 478. Advanced Newspaper Editing (3-6). Administrative

responsibilities for students serving as editors of the campus newspaper. Variable credit with a maximum of 6 credits.

Prerequisites: COM 208, COM 347, and COM 468. May be repeated for credit.

COM 485. Senior Seminar (4). A research project leading to a thesis. Prerequisites: admittance to a communication major and COM 401.

COM 486. Advanced Journalism Seminar (4). Issues and skills in specialized journalistic situations. Seminar topics will change from quarter to quarter. Prerequisites: COM 308 and admission to either the communication studies, public relations, or journalism major. May be repeated for up to 8 credits under a different subtitle.

COM 487. Advanced Public
Relations Seminar (4). Advanced
public relations seminar topics
will change from quarter to
quarter. Prerequisites: COM 470
and admission to either the
communication studies, public
relations, or journalism major.
May be repeated for credit under
a different title.

#### COM 489. Portfolio Assessment

(1). End-of-program assessment activities. Preparation,

presentation, and evaluation of a professional portfolio of work produced during the major. Prerequisites: senior standing and admission to either the communication studies, public relations, or journalism major.

COM 490. Cooperative Education (1-12). Individual contract arrangement involving student, faculty, and cooperating agency to gain practical experience in communication. May be repeated for credit. Grade will either be S

**COM 491. Workshop** (1-6). May be repeated for credit.

#### **COM 492. Communication**

Practicum (2). Faculty supervised applied and/ or service learning experience for students pursuing a major or minor in the communication department. Prerequisites: students must be admitted to communication studies, public relations, film & video studies or journalism major or minor. May be repeated for up to 6 credits. Grade will either be S or U.

COM 496. Individual Study (1-6). COM 498. Special Topics (1-6). COM 499. Seminar (1-5).

#### **Computer Science Department**

College of the Sciences Ellensburg Hebeler Hall, room 219 509-963-1495

Fax: 509-963-1449

 $w\,w\,w.cw\,u.ed\,u/\,computer\text{-}science$ 

See website for how this program may be used for educational and career purposes.

#### **Faculty and Staff**

Chair

James Schwing, PhD

#### **Professors**

Razvan Andonie, PhD, graduate program director, neural networks, parallel and distributed computing, computational intelligence, data mining

Boris Kovalerchuk, PhD, artificial intelligence, simulation and optimization, computer architecture James Schwing, PhD, parallel algorithms, user interface design, computer graphics, computer-aided design

#### **Assistant Professor**

John Anvik, PhD, software engineering, machine learning, computer supported collaborative work

#### Staff

Jami Beintema, secretary senior Zachary Geesaman, systems analyst

#### **Department Information**

The Department of Computer Science (CS) offers a degree program leading to the Bachelor of science in computer science. The department also jointly offers a program with the industrial engineering technology (IET) department in the College of Education and Professional Studies in computer engineering technology. Information related to the computer engineering technology program can be found in the IET section of the catalog.

The field of computer science can trace its beginnings and much of its foundation to both mathematics and engineering. Because of this, studies in computer science range from theory through experimental techniques to engineering methodology. The purpose of the computer science curriculum is to expose students to aspects of each of these disciplines and foster an appreciation and understanding of them. To accomplish this, students are exposed to the broad theoretical basis of computer science as well as a strong laboratory component. The laboratory experience is more than simple programming. Rather, it is through the laboratories that students are introduced to both the experimental and the design aspects of computer science.

Using this philosophy as a base, the CS department has designed a curricular model that seeks to increase relevance to the real world. In particular, the senior project, a capstone course series- CS 480 and 481- adopts a theme that expands upon the experimental and design approach of typical computer science curricula. This capstone series addresses the creativity and productivity elements required for business and industry applications today. Students become engaged in projects that investigate each stage of transforming a creative idea into a productivity-enhancing system in a realistic context.

#### Standards for Admission

Admission to the computer science major or minor is selective. A cumulative grade point average of 2.5 is required in the pre-admission requirements listed below. Students should submit their application during the quarter in which they are completing the pre-admission requirements. Applications will be accepted through the last day of classes (i.e., the week before finals) of the fall, winter, and spring quarters for admission the following quarter. A completed application must include the standard major application form and an advisor-approved graduation plan.

Students should request admission to the computer science pre-major prior to completion of the pre-admission requirements.

Students must be accepted as a computer science major or minor prior to enrolling in computer science classes beyond CS 301 with the exception of CS 311. Students applying for admission to the major may register for courses for the following quarter but will be dropped if not admitted.

The computer science department believes that advising is one of the keys to success in an undergraduate program. To that end, majors and minors are required to meet with a faculty advisor every term in order to register. Pre-majors are also encouraged to meet with their designated faculty advisor each term. Advisors and advising times are listed with the CS office.

#### Pre-admission Requirements General University Requirements

ENG 101, Composition I: Critical Reading and Responding 4
ENG 102, Composition II: Reasoning and Research 4
CS Core Requirements
CS 110, Programming Fundamentals I 4
CS 111, Programming Fundamentals II 4
CS 301, Data Structures 4
MATH 172, Calculus I 5
Pre-admission Total Credits: 25

#### **Computer Science Major, BS**

In order to expose computer science majors to a broad theoretical base while emphasizing the laboratory experience, students will complete the CS core courses. To add depth and flexibility to their academic programs, students will work out a focus area with a major advisor. A specific focus may be developed in many areas of computer science; examples include: artificial intelligence, computer systems, information systems, scientific computing, and software engineering. A table of possible sequences for focus-area electives follows the core requirements.

#### CS Major Prerequisites

• CS 110 - Programming Fundamentals I Credits: (4)

- CS 111 Programming Fundamentals II Credits: (4)
- CS 301 Data Structures Credits: (4)
- ENG 101 Composition I: Critical Reading and Responding Credits: (4)
- ENG 102 Composition II: Reasoning and Research Credits: (4)
- MATH 172 Calculus I **Credits:** (5)

#### Additional CS Major Requirements

#### Focus Area Electives Credits: (24)

- CS 112 Foundations of Computer Science Credits: (4)
- CS 302 Advanced Data Structures and File Processing Credits: (4)
- CS 311 Computer Architecture I Credits: (4)
- CS 312 Computer Architecture II Credits: (4)
- CS 325 Technical Writing in Computer Science Credits: (3)
- CS 361 Principles of Language Design I Credits: (4)
- CS 362 Principles of Language Design II Credits: (4)
- CS 392 Lab Experience in Teaching Computer Science Credits: (1)
- CS 420 Database Management Systems Credits: (4)
- CS 427 Algorithm Analysis Credits: (4)
- CS 446 User Interface Design and Development Credits: (4)
- CS 470 Operating Systems Credits: (4)
- CS 480 Software Engineering Credits: (4)
- CS 481 Software Engineering Project Credits: (4)
- CS 489 Senior Colloquium Credits: (1)
- CS 492 Laboratory Experience in Teaching Computer Science Credits: (1-2)
- MATH 260 Sets and Logic Credits: (5)
- MATH 330 Discrete Mathematics Credits: (5)

#### Total Credits: 106

#### Focus Area Electives List

Students may use additional courses as their focus area electives with the approval of their major advisor.

- MATH courses at or above the level of 173
- CS 410 Formal Language Theory
- CS 418 Microprocessor Systems
- CS 435 Simulation
- CS 460 Optimization
- CS 465 Compiler Design
- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- CS 250 Web Development Technologies I **Credits:** (4)
- CS 351 Web Development Technologies II Credits: (4)
- CS 352 Web Development Technologies III Credits: (4)
- CS 370 Introduction to the UNIX Operating System Credits: (4)
- CS 440 Computer Graphics Credits: (4)
- CS 441 Computer Graphics II Credits: (4)
- CS 450 Computer Network and Data Communications Credits: (4)
- CS 455 Artificial Intelligence Credits: (4)
- CS 458 Artificial Intelligence Project Credits: (2)
- CS 473 Parallel Computing Credits: (4)
- CS 490 Cooperative Education Credits: (1-12) (Maximum of 4 credits)

- CS 496 Individual Study Credits: (1-6)
- ECON 201 Principles of Economics Micro Credits: (5)
- EET 221 Basic Electricity Credits: (5)
- EET 312 Basic Electronics **Credits:** (5)
- EET 371 Digital Circuits **Credits:** (4)
- EET 372 Advanced Digital Circuits Credits: (4)
- EET 375 Microprocessors **Credits:** (4)
- MIS 386 Management Information Systems Credits: (5)

#### Possible Focus Area Sequences

The table below summarizes typical focused sequences taken by students.

AIS – Artificial Intelligence Sys – Computer Systems IS – Information Systems Sci – Scientific Computing SW – Software Design and Engineering Web – Web Development

#### AIS Sys IS Sci SW Web

CS 350	X
CS 440	X
CS 450	X
CS 455 X	
CS 456 X	$\mathbf{X}  \mathbf{X}  \mathbf{X}$
CS 458 X	
CS 473	X
CS 490	$\mathbf{X}$
EET 221	X
EET 312	X
EET 371	X
EET 372	X
EET 375	X
MATH 173	$\mathbf{X} \mathbf{X} \mathbf{X}$
<b>MATH 265</b>	$\mathbf{X}$ $\mathbf{X}$
<b>MATH 272</b>	X
MATH 273	X
<b>MATH 311</b>	X
<b>MATH 376</b>	X
<b>MATH 412</b>	X
ACCT 251	X
ACCT 252	X
ECON 201	X
BUS 221	X
MIS 386	X

#### **Applied Computer Science Minor**

This minor is designed for students who wish to integrate a computer science component into their curriculum. This minor is appropriate for any student who wishes to include an enhanced technical computer science background as part of their overall curriculum.

#### Required Courses

- Electives Credits: (12-14)
  - At least one course will be in computer science. The other electives will be computer related and may be selected from the student's major with the approval of an advisor.
- CS 110 Programming Fundamentals I Credits: (4)
- CS 111 Programming Fundamentals II Credits: (4)
- CS 301 Data Structures Credits: (4)

- MATH 130 Finite Mathematics Credits: (5)
- BUS 221 Introductory Business Statistics Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5)

Total Credits: 34-36

#### **Computer Science Minor**

This minor is designed for students who wish to investigate and basic core of the computer science discipline. This minor is appropriate for any student, including those in teacher education, seeking to enhance their technical computer science background.

#### Required Courses

- CS 110 Programming Fundamentals I Credits: (4)
- CS 111 Programming Fundamentals II Credits: (4)
- CS 301 Data Structures Credits: (4)
- CS 311 Computer Architecture I Credits: (4)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 154 Pre-calculus Mathematics II **Credits:** (5)
- MATH 260 Sets and Logic Credits: (5)

Total Credits: 31

#### **Computer Science Courses**

#### CS 101. Computer Basics (4).

Integrated, project-based course using student-produced working materials in the form of a mini thesis. Microsoft Office tools are learned in a web-based practical application environment. Basic Skills 6 - Computer Fundamentals

#### CS 105. The Logical Basis of

Computing (4). Problem solving, algorithm development, complexity, computability. Representation of algorithms as computer programs, data, ecision and control inherent sources of error. Basic Skills 5 - Reasoning

#### CS 110. Programming

Fundamentals I (4). Fundamental concepts of programming from an object-oriented perspective. Classes, objects and methods, algorithm development, problem-solving techniques, basic control structures, primitive types and arrays.

### CS 111. Programming Fundamentals II (4).

Continuation of object-oriented programming concepts introduced in CS 110. Inheritance, exceptions, graphical user interfaces, recursion, and data

structures. Prerequisites: CS 110 and MATH 153.

#### CS 112. Foundations of Computer

Science (4). Overview of the computer science profession including basic computer organization, algorithm development and analysis, computer data representation, computer applications, and social issues.

#### CS 250. Web Development

**Technologies I** (4). Techniques for web software development including XHTML, style sheets, scripting languages, web databases, PHP, and ethical issues. Prerequisite: CS 110.

#### CS 290. Cooperative Education (1-

5). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

## CS 298. Special Topics (1-6). CS 301. Data Structures (4).

Introduction to data structures, simple list processing, basic searching and sorting techniques,

stacks, queues, and trees. Prerequisites: CS 111 and MATH 154.

# CS 302. Advanced Data Structures and File Processing (4).

Sequential, random access and indexed file organizations; B-trees; external searching and sorting; I/ O buffering.
Prerequisites: CS 301 and MATH 172.

#### CS 311. Computer Architecture I

(4). Introduction to computer architecture, data representations, assembly language, addressing techniques. Prerequisite: CS 112.

#### CS 312. Computer Architecture II

(4). Introduction to the structure of computers. Digital circuits, central processing units, memory, input/output processing, parallel architectures. Prerequisites: CS 301 and CS 311.

#### CS 325. Technical Writing in

Computer Science (3). Writing and editing technical material in computer science. Prerequisites: ENG 102 and CS 301.

#### CS 351. Web Development

**Technologies II** (4). Server-side technologies for web software development including programming languages,

database access, e-commerce, testing, and ethical issues related to the web. Prerequisite: CS 250.

#### CS 352. Web Development

Technologies III (4). Advanced technologies for web software development, including XML and its related technologies: DTD, XML Schema, XSL, and XSLT, and other emerging technologies. Prerequisite: CS 351.

CS 361. Principles of Language
Design I (4). Topics will include
evolution of programming
languages, syntax and semantics,
bindings, scoping, data types,
assignment, control, and
subprograms. Prerequisite: CS
302

CS 362. Principles of Language
Design II (4). Topics will include
abstract data types, parallel
processing, object-oriented
programming, exception
handling functional
programming, and logic
programming. Prerequisite: CS
361. Co-requisite: MATH 260.

CS 367. Advanced Visual Basic
Programming (4). Visual Basic
programming and applications.
Topics will include advanced
data structures, error trapping
and debugging, advanced VB
and ActiveX controls, macros and
databases. Not intended for CS
majors. Prerequisite: CS 105 and
CS 110.

CS 370. Introduction to the UNIX
Operating System (4). The
fundamental requirements,
features and functions of the
UNIX operating system. A UNIXcompatible OS will be used as a
working model. Installation,
configuration, setup, shell
operations, and program
development with the UNIX
operating system. Prerequisites:
CS 301 and CS 311.

CS 392. Lab Experience in
Teaching Computer Science (1).
Supervised experience in
developing procedures and
techniques in teaching computer
science. Grade will either be S or
U.

CS 420. Database Management Systems (4). Logical aspects of database processing; concepts of organizing data into integrated databases; hierarchical, network, and relational approaches. Prerequisites: CS 302, CS 325, and MATH 330.

CS 427. Algorithm Analysis (4).

Topics will include basic algorithmic analysis, algorithmic strategies, fundamental computing algorithms, basic computability, the complexity classes P and NP, and advanced algorithmic analysis.

Prerequisites: CS 302, CS 325, and MATH 330 (minimum grade of C).

CS 430. Introduction to Computer Security (4). Introduction to the principles of computer security. Discussion of threats, intrusion, trust, protection, access control, and cryptography and implementation of security, confidentiality, and integrity policies. Prerequisite: CS 312.

CS 440. Computer Graphics (4). Graphic I/ O devices, two-dimensional and three-dimensional display techniques, display processors, clipping and windowing, hidden line removal, data structures for graphics. Prerequisites: CS 302 and 325.

CS 441. Computer Graphics II (4).
Advanced graphics in 3-D with vector tools. Topics include: transformations, affine transformations, changing coordinate system, drawing scenes, modeling shapes, solid modeling, and smooth objects.
Prerequisite: CS 440.

CS 442. Computer Vision (4).

Computer vision includes image acquisition, preprocessing, segmentation (thresholding, edge- and region-based segmentation), shape representation, object recognition, motion analysis, object tracking, and 3-D scene reconstruction. Prerequisite: CS 302.

CS 446. User Interface Design and Development (4). The relationship of user interface design to human-computer interaction. Types of user interfaces, methods of evaluation, user-centered design and task analysis, programming tools and environments, and hardware devices.

# CS 450. Computer Network and Data Communications (4).

Device protocols; network configurations; encryption; data compression and security; satellite networks. Prerequisites: CS 301, CS 311, and CS 325.

CS 455. Artificial Intelligence (4). Introduction to the principles of artificial intelligence. Pattern matching, knowledge representation, natural language processing, expert systems. Prerequisites: CS 302, CS 325, CS 362 and MATH 330.

#### **CS 456. Data Mining** (4).

Introducing concepts, models, algorithms, and tools for solving data mining tasks; decision trees, time series, bayesian methods, knearest neighbors, and relational databases. CS 456 and CS 556 are layered courses; students may not receive credit for both. Prerequisites: CS 420 and either MATH 311 or BUS 221.

#### CS 457. Computational

Intelligence (4). Introducing concepts, models, algorithms, and tools for development of intelligent systems: artificial neural networks, genetic algorithms, fuzzy systems, swarm intelligence and hybridizations of these techniques. CS 457 and CS 557 are layered courses; students may not receive credit for both. Prerequisites: CS 302, CS 325, CS 362 and MATH 330.

CS 458. Artificial Intelligence Project (2). Implementation of a significant project relating to artificial intelligence.

Prerequisites: CS 325 and CS 455.

CS 463. Design Patterns (4). Design patterns are reusable solutions to common problems when engineering computer software. Topics include the command pattern, visitor pattern, strategy pattern, and factory pattern. Prerequisite: CS 302.

CS 465. Compiler Design (4).

Theory of compiler construction and computer language design; students write a compiler. Prerequisites: CS 325 and CS 362.

**CS 470. Operating Systems** (4). Topics will include principles of operating systems, concurrency, scheduling and dispatch,

memory management, processes and threads, device management, security and protection, and file systems. Prerequisites: CS 302, CS 312, and CS 325.

#### CS 473. Parallel Computing (4).

Major parallel architectures and languages. Parallel programming methodologies and applications. CS 473 and CS 573 are layered courses; students may not receive credit for both. Prerequisites: CS 325 and CS 470.

#### CS 474. Peer-to-Peer Systems (4).

The course gives a broad overview of current techniques used within peer-to-peer distributed systems. Peer-to-peer mechanisms can be used to access any kind of distributed resources and offer new possibilities for Internet-based applications. Prerequisite: CS 302.

#### CS 480. Software Engineering (4).

The software development process: user requirements, specifications, design, coding,

testing, maintenance, documentation and management; students work in teams to develop large software projects. Prerequisites: CS 325, CS 420 and senior standing.

#### CS 481. Software Engineering

**Project** (4). Continuation of coding, testing, and implementation phases of project begun in CS 480. Prerequisites: CS 325 and CS 480.

#### CS 489. Senior Colloquium (1).

Introduction to research in computer science through investigation of ethical and historical topics in the field. End-of-major assessment activities. Prerequisites: CS 325 and senior standing.

### **CS 490. Cooperative Education** (1-12). An individualized contracted

field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating

employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

#### CS 491. Workshop (1-6). Yes GRD

# CS 492. Laboratory Experience in Teaching Computer Science (1-

2). Supervised progressive experience in developing procedures and techniques in teaching computer science. May be repeated up to 15 credits. Grade will either be S or U.

# CS 493. Practicum (1-5). Supervised progressive experience in management, operation, programming, or systems work in one of the university's

in one of the university's computing centers. May be repeated for credit.

CS 495, Directed Research (1-6).

May be repeated up to 12 credits.

By permission.

CS 496. Individual Study (1-6). CS 498. Special Topics (1-6). CS 499. Seminar (1-5).

#### **Douglas Honors College**

Interdisciplinary Studies Ellensburg Language and Literature Bldg., room 103 509-963-1445 Fax: 509-963-1206 www.cwu.edu/douglas-honors

#### Director

Matthew Altman, PhD

The William O. Douglas Honors College (DHC) is Central's interdisciplinary program for academically talented students. The program is divided into two parts: a core curriculum and an upper-division scholarship experience. The core curriculum is composed of a series of courses that emphasize how the arts, humanities, sciences, and social sciences converge in considering historically important questions. The upper-division scholarship experience involves additional, advanced courses and a culminating research project either in the arts and humanities or in the sciences. DHC also sponsors cultural field trips, gu est lectures, and a number of other extracurricular activities.

The college is named for U.S. Supreme Court Justice William O. Douglas, a native of Yakima, Washington, and a great supporter of higher education. Following Justice Douglas' example, the DHC encourages intellectual breadth, academic curiosity, and the application of scholarship to pressing social issues.

Students wishing to apply should contact the DHC office to find out about minimum qualifications and the application process. Students may apply to the honors college at any point in their college career.

DHC students must maintain a high level of academic achievement. A DHC student is in good standing when his or her cumulative grade point average (GPA) is 3.0 or higher. If a first-year DHC student's cumulative GPA falls below 3.0 and remains below 3.0 for two consecutive quarters, the student shall be placed on academic warning for one quarter. After the first year, a DHC student will be placed on academic warning if his or her cumulative GPA falls below 3.0 for one quarter. Any student placed on warning shall be suspended from the DHC if his or her cumulative GPA is not 3.0 or above the quarter following the warning. The DHC director has the discretion to waive and/or modify these standards for individual students

as long as such modification does not affect the academic integrity of the DHC, as determined by the DHC director. A student who has been suspended from the DHC may reapply only if his or her cumulative GPA reaches 3.0 or higher.

For additional information, visit the DHC website (www.cwu.edu/douglas-honors), stop by the office (Language and Literature Building, room 103), or call 509-963-1445.

#### **Interdisciplinary Honors Minor**

A student who completes the following course regimen (35 credits) earns a DHC minor.

Select from the following: Credits: 5

- DHC 140 Humanistic Understanding I Credits: (5)
- DHC 141 Humanistic Understanding II Credits: (5)

Select from the following: Credits: 5

- DHC 150 Aesthetic Experience I Credits: (5)
- DHC 151 Aesthetic Experience II Credits: (5)

Select from the following: Credits: 5

- DHC 160 Physical and Biological Systems I Credits: (5)
- DHC 161 Physical and Biological Systems II Credits: (5)

Select from the following: Credits: 5

- DHC 250 Social and Behavioral Dynamics I Credits: (5)
- DHC 251 Social and Behavioral Dynamics II Credits: (5)

Select from the following: Credits: 5

- DHC 260 Cultural Competence I Credits: (5)
- DHC 261 Cultural Competence II Credits: (5)

Required Courses Credits: 10

- DHC 270 Integrated Learning Credits: (5)
- DHC 380 History of Science Credits: (5)

Total Credits: 35

#### **Douglas Honors College**

#### **Basic and Breadth Requirements**

Required Courses

- DHC 140 Humanistic Understanding I Credits: (5)
- DHC 141 Humanistic Understanding II Credits: (5)
- DHC 150 Aesthetic Experience I Credits: (5)
- DHC 151 Aesthetic Experience II Credits: (5)
- DHC 160 Physical and Biological Systems I Credits: (5)
- DHC 161 Physical and Biological Systems II Credits: (5)
- DHC 250 Social and Behavioral Dynamics I Credits: (5)
- DHC 251 Social and Behavioral Dynamics II Credits: (5)
- DHC 260 Cultural Competence I Credits: (5)
- DHC 261 Cultural Competence II Credits: (5)
- DHC 270 Integrated Learning Credits: (5)
- UNIV 101 Academic Advising Seminar Credits: (1)

Total Credits: 56

#### Advising Seminar

In accordance with university requirements, DHC students must take UNIV 101: Academic Advising Seminar as part of their general education coursework. Preferably, students taking UNIV 101 should take the section designated specifically for DHC students.

#### Foreign Language

DHC applicants are normally expected to have met the competence requirements for foreign language prior to acceptance. Students who have not done so will be required to take classes through Foreign Language 153.

#### Mathematics

DHC applicants are normally expected to have met the competence requirements for mathematics prior to acceptance. Students who have not done so will be required to take classes through MATH 154 or placement in MATH 172 or higher.

#### Upper-division Scholarship Experience

The upper-division scholarship experience involves additional, advanced courses and a culminating research project either in the arts and humanities or in the sciences. Students may take either of the upper-division scholarship experiences at any time, with or without the DHC core curriculum.

#### Arts and Humanities Honors

A student who completes the upper-division honors courses in the arts and humanities as well as a thesis/ capstone project will earn the title Arts and Humanities Honors Scholar.

- DHC 301 Honors Seminar: Elements of Arts and Humanities Research Credits: (2)
- DHC 380 History of Science Credits: (5)
- DHC 399 Interdisciplinary Honors Seminar Credits: (5)
- DHC 401 Honors Capstone Seminar Credits: (3)
- DHC 497 Honors Thesis and/ or Creative Project Credits: (2)

Total Credits: 17

#### Science Honors Program

A student who completes the upper-division honors courses in the Science Honors Program as well as a science honors thesis will earn the title Science Honors Scholar.

- DHC 380 History of Science Credits: (5)
- DHC 399 Interdisciplinary Honors Seminar Credits: (5)
- SHP 301 Science Honors Junior Seminar: Elements of Scientific Research Credits: (2)
- SHP 401 Science Honors Capstone Seminar Credits: (2)
- SHP 497 Science Honors Thesis Credits: (1)

Undergraduate research credits in appropriate department (e.g., PHYS 495) Credits: 2

Total Credits: 17

#### Douglas Honors College Scholar

A student who completes both the core curriculum and one of the upper-division scholarship experiences will be designated a *Douglas Honors College Scholar* by the university.

#### **Douglas Honors College Courses**

#### **DHC 140. Humanistic**

Understanding I (5). Variable topic. Courses in the humanities focuses on the analysis and interpretation of human stories of the past, present, and future in order to understand the processes of continuity and change in individuals and cultures through both documented and imaginative accounts. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### **DHC 141. Humanistic**

Understanding II (5). Variable topic. Courses in the humanities focuses on the analysis and interpretation of human stories of the past, present, and future in order to understand the processes of continuity and change in individuals and cultures through both documented and imaginative accounts. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 150. Aesthetic Experience I

(5). Variable topic. Courses in this area explore questions about the nature of art; to understand, interrogate, and engage in the creative process; and to explore the connections between art, culture, and history. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 151. Aesthetic Experience II

(5). Variable topic. Courses in this area explore questions about the nature of art; to understand, interrogate, and engage in the creative process; and to explore the connections between art, culture, and history. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 160. Physical and Biological

Systems I (5). Variable topic. Courses in this area study physical and life systems, provide basic methods for rigorously describing the natural world, or treat social, economic, technological, ethical, or other implications of natural phenomena. Prerequisite: admission to the Douglas Honors

College. May be repeated for credit.

# DHC 161. Physical and Biological Systems II (5). Variable topic.

Courses in this area study physical and life systems, provide basic methods for rigorously describing the natural world, or treat social, economic, technological, ethical or other implications of natural phenomena. Students will perform scientific inquiry and experimentation in a laboratory setting. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 250. Social and Behavioral

Dynamics I (5). Variable Topic. Courses focus on how individuals, cultures, and societies operate and evolve and introduce disciplined ways of thinking about individuals and groups. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 251. Social and Behavioral

Dynamics II (5). Variable topic. Courses focus on how individuals, cultures, and societies operate and evolve and introduce disciplined ways of thinking about individuals and groups. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 260. Cultural Competence I

(5). Variable topic. Courses focus on negotiating cultural differences by applying appropriate patterns of understanding and behavior in culturally diverse settings. Courses focus on one or more non-dominant cultures or peoples of the United States. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### DHC 261. Cultural Competence II

(5). Variable topic. Courses focus on negotiating cultural differences by applying appropriate patterns of understanding and behavior in culturally diverse settings. Courses focus on comparative cultures across national and continental boundaries. Prerequisite: admission to the

Douglas Honors College. May be repeated for credit.

#### **DHC 270.** Integrated Learning (5).

Variable topic. Courses take an interdisciplinary approach to examining social, economic, technological, ethical, cultural, or aesthetic implications of knowledge. In addition to department courses that embrace multiple disciplines, these opportunities include learning community service learning and international studies courses. Prerequisite: admission to the Douglas Honors College. May be repeated for credit.

#### **DHC 290. Cooperative Education**

(1-6). An individualized contracted field experience with business, industry, government, or social service agencies. Requires a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

DHC 296. Individual Study (1-6). DHC 298. Special Topics (1-6).

DIIC 200. Special Topics (1-0

#### DHC 301. Honors Seminar:

Elements of Arts and Humanities Research (2). An exploration of arts and humanities research from a multidisciplinary perspective, including the formulation of a research question, organization of a research process, and preparation of DHC thesis or creative project proposal. Prerequisite: admission to the Douglas Honors College. By permission. Yes

#### **DHC 380.** History of Science (5).

Introduction to major themes in the history of science.
Investigation of historical and scientific methods through the study of particular historical cases. Prerequisite: admittance to the Douglas Honors College.
May be repeated for credit.

DHC 396. Individual Study (1-6).

**DHC 398. Special Topics** (1-6).

DHC 399. Interdisciplinary Honors

Seminar (5). Interdisciplinary approach to examining current social, economic, ethical, and cultural issues. Prerequisite: admission to the Douglas Honors

College. May be repeated for credit.

#### **DHC 401. Honors Capstone**

Seminar (3). Skills and techniques for the presentation of the results of arts and humanities research. Students prepare drafts of their DHC thesis or artist's statement for their creative project as part of their coursework. Prerequisites: DHC 301 and admittance to the Douglas Honors College. By permission. Yes

#### **DHC 490. Cooperative Education**

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. Requires a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for a total of 12 credits. Grade will either be S or U. By permission.

DHC 496. Individual Study (1-6).

#### DHC 497. Honors Thesis and/or

Creative Project (2). Completion of honors thesis or creative project. Students must complete a thesis or creative project approved by their faculty advisor and the DHC director and present at the DHC presentation event to receive credit for the course. Prerequisites: DHC 301, DHC 401 and admission to the Douglas Honors College. By permission.

DHC 498. Special Topics (1-6).

#### **Economics Department**

College of Business Ellensburg Shaw-Smyser Hall, room 413

509-963-2664 Fax: 509-963-1992

www.cwu.edu/economics

See the website for how these programs may be used for educational and career purposes.

#### **Faculty Chairs**

Robert J. Carbaugh, PhD, summer and fall quarters, Shaw-Smyser 428 Koushik Ghosh, PhD, winter and spring quarters, Shaw-Smyser, 427

#### **Professors**

Robert J. Carbaugh, PhD
Distinguished Professor of Research
Distinguished Professor of Teaching
Koushik Ghosh, PhD
David W. Hedrick, PhD
Peter J. Saunders, PhD
Distinguished Professor of Research
Roy Savoian, PhD

#### **Associate Professors**

Timothy P. Dittmer, PhD Charles S. Wassell Jr., PhD

#### **Assistant Professors**

Toni Sipic, PhD Thomas Tenerelli, PhD

#### **Emeritus Faculty**

Donald Cocheba, PhD
Distinguished Professor of Research
Wolfgang Franz, PhD
Distinguished Professor of Public Service
Gerald Gunn, PhD
Richard Mack, PhD
Distinguished Professor of Research

#### Staff

Shirley Hood, secretary senior

#### **Department Information**

Positions of responsibility in today's world are usually held by individuals who have the capacity to analyze complex problems and make intelligent decisions. Learning economics will help students think logically and improve their ability to use economic concepts to analyze "real world" problems and opportunities. In addition to preparation for business and government agency employment, an economics major is excellent preparation for law schools, master's of business administration programs, and graduate programs in economics, agricultural economics, and natural resource management. The economics department offers a Bachelor of Science degree in economics with specializations in managerial economics, general economics, and economic and business forecasting. Economics minors are offered to complement accounting, business administration, and other majors.

The BS economics major is comprised of the following components:

- Pre-admission courses providing necessary theoretical and quantitative skills to pursue studies in economics
- Core courses in both micro and macro economic theory
- A choice of supporting courses for each of the three economics major specializations

#### **Transfer Credits**

Equivalent lower-division (100-200 level) courses may be transferred toward meeting the pre-admission requirements for any BS degree in the College of Business.

Upper-division (300-400 level) courses may be transferred toward meeting the major requirements only with the approval of the department chair and the college dean or designee.

Transfer students must earn a minimum of 45 quarter credits at CWU to be eligible for the BS economics degree. Transfer students earning less than 45 quarter credits in their major at CWU must receive approval from the college dean prior to graduation.

#### Service to Other Majors

Students majoring outside the College of Business who are required to take courses in this college for either their major or minor will be eligible to enroll on a space-available basis. These students will be given priority over other non-college majors wishing to enroll in courses.

#### **Admission Information**

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of C - (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.5 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions. Applicants must have also completed ENG 101 and 102.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available spaces. In that case, acceptance will be competitive, based on a selection index. Students who have not met all of the above requirements may be admitted provisionally by permission of the college dean or designee.

#### Graduation Requirements for all Department Specializations

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C - in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Graduation Requirements for Economics I and II Minors**

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C- in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Economics Major with Specialization, BS**

Coursework counting toward the major cannot be taken credit/ no credit by economics majors. Double majors are available. Interested students should consult with their advisor or the department chair for details prior to enrolling.

The economics faculty has determined the following objectives which apply to all BS economics graduates:

• Students completing an economics degree will possess the tools which enable them to analyze and understand macro and micro economic problems and policies.

- Students will possess qualifications and knowledge which will help them to find employment in fields related to
  economics.
- Students will acquire and be able to use basic tools to enable them to carry out quantitatively oriented tasks in their employment or their field of graduate studies.
- Students completing the program should possess the communication and economic skills desirable in their future employment or graduate studies.

#### **Economics Foundation Requirements**

Students must apply and be admitted to the major. Admission will be determined by the grades earned in the Economic Foundation and appropriate specialization pre-admission courses.

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have earned a minimum cumulative GPA of 2.5 in all collegiate study with a minimum GPA of 1.7 in each course. These criteria also apply to equivalent courses transferred from other institutions.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available spaces. In that case, acceptance will be competitive, based on a selection index. Students who have not met all of the above requirements may be admitted provisionally by permission of the College Dean or designee.

#### **Economic Foundation Requirements**

- BUS 221 Introductory Business Statistics Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II **Credits:** (5)

Economic Foundation Requirement Total Credits: 25

#### **Economic and Business Forecasting Specialization**

This specialization is for students who seek careers involving research in economics and business, including forecasting.

#### **Economics Foundation Requirements**

Students must apply and be admitted to the major. Admission will be determined by the grades earned in the Economic Foundation and appropriate specialization pre-admission courses.

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have earned a minimum cumulative GPA of 2.5 in all collegiate study with a minimum GPA of 1.7 in each course. These criteria also apply to equivalent courses transferred from other institutions.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available spaces. In that case, acceptance will be competitive, based on a selection index. Students who have not met all of the above requirements may be admitted provisionally by permission of the College Dean or designee.

#### Economic Foundation Requirements

- BUS 221 Introductory Business Statistics Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics **Credits:** (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR

- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

Economic Foundation Requirement Total Credits: 25

#### Pre-admission Requirements: Credits 15

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 241 Legal Environment of Business Credits: (5)

#### Required Courses

- ECON 324 Introduction to Econometrics Credits: (5)
- ECON 325 Introduction to Forecasting Credits: (5)
- ECON 401 Intermediate Microeconomic Analysis Credits: (5)
- ECON 402 Intermediate Macroeconomic Analysis Credits: (5)
- ECON 406 Economics Assessment Credits: (5)
- ECON 426 Economic Research Credits: (5)
- FIN 370 Introductory Financial Management Credits: (5)
- MKT 362 Essential Marketing Concepts **Credits:** (5)
- MGT 382 Principles of Management Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)

#### Select one of the following Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

Total Credits: 99-100

#### Additional Graduation Requirements

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C- in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **General Economics Specialization**

This specialization is recommended for students desiring the traditional Economics major. Highly recommended supporting courses: MATH 172, MATH 173, and FIN 370.

#### **Economics Foundation Requirements**

Students must apply and be admitted to the major. Admission will be determined by the grades earned in the Economic Foundation and appropriate specialization pre-admission courses.

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have earned a minimum cumulative GPA of 2.5 in all collegiate study with a minimum GPA of 1.7 in each course. These criteria also apply to equivalent courses transferred from other institutions.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available spaces. In that case, acceptance will be competitive, based on a selection index. Students who have not met all of the above requirements may be admitted provisionally by permission of the College Dean or designee.

#### **Economic Foundation Requirements**

- BUS 221 Introductory Business Statistics Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

Economic Foundation Requirement Total Credits: 25

There are no additional pre-admission courses required.

#### Required Courses

- ECON 310 International Economics Credits: (5)
- ECON 324 Introduction to Econometrics Credits: (5)
- ECON 330 Money and Banking Credits: (5)
- ECON 332 Public Finance Credits: (5)
- ECON 401 Intermediate Microeconomic Analysis Credits: (5)
- ECON 402 Intermediate Macroeconomic Analysis Credits: (5)
- ECON 406 Economics Assessment Credits: (5)
- ECON 426 Economic Research Credits: (5)
- MIS 386 Management Information Systems Credits: (5)

#### Select one of the following: Credits 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

Department-approved electives selected from the following: Credits 10

Any 300- to 400-level economics courses; one accounting course (5) may be selected in place of one economics course.

Total Credits: 84-85

#### Additional Graduation Requirements

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C- in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Managerial Economics Specialization**

This specialization is for students with an interest in both public and private sector employment and preparation for law school. Highly recommended supporting courses: MATH 170 or MATH 172. The managerial economics specialization can be used as part of a double major. See your advisor for details.

#### **Economics Foundation Requirements**

Students must apply and be admitted to the major. Admission will be determined by the grades earned in the Economic Foundation and appropriate specialization pre-admission courses.

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have earned a minimum cumulative GPA of 2.5 in all collegiate study with a minimum GPA of 1.7 in each course. These criteria also apply to equivalent courses transferred from other institutions.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available spaces. In that case, acceptance will be competitive, based on a selection index. Students who have not met all of the above requirements may be admitted provisionally by permission of the College Dean or designee.

#### **Economic Foundation Requirements**

- BUS 221 Introductory Business Statistics Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

Economic Foundation Requirement Total Credits: 25

#### Pre-admission Requirements Credits: 15

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 241 Legal Environment of Business Credits: (5)

#### Required Courses

- ECON 352 Managerial Economics Credits: (5)
- ECON 401 Intermediate Microeconomic Analysis Credits: (5)
- ECON 402 Intermediate Macroeconomic Analysis Credits: (5)
- ECON 406 Economics Assessment Credits: (5)
- FIN 370 Introductory Financial Management Credits: (5)

#### Select one of the following: Credits 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Department-approved electives selected from the following: Credits 20

- 300- to 400-level economics courses (except ECON 396, ECON 490, ECON 496) Credits: (15)
- Other 300- to 400-level accounting, business administration, and economics courses Credits: (5)

Total Credits: 89-90

#### Additional Graduation Requirements

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C - in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Economics Minor I**

This minor is designed to accompany the business administration and accounting majors. Prior approval of electives by the economics advisor is required.

#### Required Courses

- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)

#### Select from the following - Credits: 5

- ECON 310 International Economics Credits: (5)
- ECON 330 Money and Banking Credits: (5)
- ECON 332 Public Finance Credits: (5)
- ECON 401 Intermediate Microeconomic Analysis Credits: (5)
- ECON 402 Intermediate Macroeconomic Analysis Credits: (5)

#### Additional Credits - Credits: 10

- Select 10 additional credits from the above list OR
- Other 300-400 level economics courses with departmental approval Credits: (10)

#### Total Credits: 25

#### Additional Graduation Requirements

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C- in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Economics Minor II**

This minor is designed for all majors with the exception of business administration and accounting. Prior approval of electives by the economics advisor is required.

#### Required Courses

- ECON 201 Principles of Economics Micro **Credits:** (5)
- ECON 202 Principles of Economics Macro Credits: (5)

#### Select from the following - Credits: 5

- ECON 310 International Economics Credits: (5)
- ECON 330 Money and Banking **Credits:** (5)
- ECON 332 Public Finance **Credits:** (5)
- ECON 401 Intermediate Microeconomic Analysis Credits: (5)
- ECON 402 Intermediate Macroeconomic Analysis Credits: (5)

#### Additional Electives - Credits: 5

- Select an additional 5 elective credits from the above list OR
- Other 300-400 level economics courses with departmental approval Credits: (5)

#### Total Credits: 20

#### Additional Graduation Requirements

A cumulative grade point average of 2.25 in the above courses must be achieved with a minimum grade of C - in each course. The credit/ no credit option will not be accepted for any of these courses. The student must have earned a minimum cumulative GPA of 2.25 in all collegiate study. These criteria also apply to equivalent courses transferred from other institutions.

#### **Economics Courses**

#### ECON 101. Economic Issues (5).

For the student who desires a general knowledge of economics. Applications of economic principles to current social and political problems. ECON 101 cannot be substituted for either ECON 201 or 202. SB-Perspectives, Cultures, Experiences of U.S.

#### **ECON 102. World Economic Issues**

(5). An introduction to current international issues related to international trade and finance, economic development, and comparative economic systems. SB-Perspectives on World Cultures (W).

#### ECON 201. Principles of

Economics Micro (5). The function of the market system in the allocation of scarce resources, determination of prices and output in competitive and monopolistic markets, and distribution of income. The role of government in the market economy. SB-Perspectives, Cultures, Experiences of U.S.

## ECON 202. Principles of Economics Macro (5).

Organization of the U.S. economy, structure, and role of the monetary system, problems of employment and inflation, overall impact of government spending and taxation on the economy. Economic growth, world economic problems, and a comparison of capitalism with other economic systems. Prerequisite: ECON 201.

# ECON 298. Special Topics (1-6). ECON 310. International

Economics (5). International trade and monetary theories; analyzing economic relationships and adjustments within and among trading nations; specialization, tariffs, balance of payments, and international monetary systems. Prerequisite: ECON 202.

#### ECON 324. Introduction to

Econometrics (5). Evaluation of economic models and forecasting of economic variables using multiple regression techniques and cross sectional data. Brief introduction to advanced techniques which may include

IV, time series, logit and probit, or panel data methods.
Prerequisites: BUS 221 or MATH 311 or PSY 362 or SOC 363.

#### ECON 325. Introduction to

Forecasting (5). An introduction to methods employed in business and econometric forecasting. Topics include time series modeling, Box-Jenkins models, and seasonal adjustments. Covers data collection methods, graphing, model building, model interpretation, and presentation of results. Prerequisites: ECON 202 and either MATH 153, MATH 154, MATH 170, MATH 172, or MATH 173.

#### ECON 330. Money and Banking

(5). The supply of money and the Federal Reserve System; financial intermediaries and financial instruments; macroeconomic theory and policy. Prerequisite: ECON 202.

#### ECON 332. Public Finance (5).

Rationale of public sector; effect of government expenditure and taxation on resource allocation and income distribution; structure of federal, state, and local tax systems. Emphasis is on current policy problems. Prerequisite: ECON 202.

#### ECON 340. Development of

Economic Thought (5). The historical development of economic concepts and their classification into schools of thought. Contributions to economics from medieval to modern time and relationships among various economic, social, and political philosophies. Prerequisite: ECON 202.

ECON 348. Economic History of the United States (5). Economic factors in the development of the American nation from the European background to the present. ECON 348 and HIST 348 are cross-listed courses; students may not receive credit for both.

#### ECON 349. Economic History of

Asia (5). This course analyzes the post-war economic development of Asia. Dubbed the "Economic miracle of the 20th century" by the World Bank, the rapid economic rise of China, Taiwan, Japan, South Korea, India, and Singapore will be covered. Topics

will include industrialization, state-society relations, labor migration, and the environment.

#### **ECON 352. Managerial Economics**

(5). Application of microeconomic theories to managerial decisions and planning utilizing the case method. Prerequisites: ECON 202 and BUS 221.

#### ECON 355. Economics of Labor (5).

Economics of the labor market, labor, productivity, investment in human capital, manpower problems, and public policy. Prerequisite: ECON 202.

#### ECON 356. Government and

Business (5). The development and current status of relations between the U.S. government and business firms. Government regulation of competition and monopoly; subsidies and public enterprise. Prerequisite: ECON 201.

# ECON 398. Special Topics (1-6). ECON 401. Intermediate

Microeconomic Analysis (5). Markets as mechanisms for organizing and directing human activities; production of goods and services; the allocation of labor, capital, and natural resources to various productive activities; and the distribution of income. Relationship between microeconomics theory and contemporary thought, practical problems and government policies. Prerequisite: ECON 201.

#### ECON 402. Intermediate

Macroeconomic Analysis (5). Analysis and measurement of U.S. national income and product accounts; determinants of income, employment and prices under the Classical and Keynesian systems; problems of inflation, economic growth and stabilization policy. Prerequisite: ECON 202.

#### **ECON 406. Economics Assessment**

(5). End-of-program assessment activities including the taking of the Educational Testing Service exam in Economics. Preparation of resumes for future entry into the job market. Co- or prerequisites: ECON 401 and ECON 402 and senior standing and acceptance to the economics major.

#### ECON 426. Economic Research (5).

Designed to familiarize students with an understanding of econometric theory and testing procedures. The course uses a time-series approach in econometric hypotheses testing. A completion of an economic research project is required. Prerequisites: ECON 202 and BUS 221.

## ECON 462. Environmental and Resource Economics (5).

Economics of environmental issues and natural resource management; economic

implications of environmental policies and regulations. Topics in economics of pollution, land, water, recycling, and benefit-cost analysis. Prerequisite: ECON 201.

#### ECON 463. Energy Economics (5).

Theoretical and empirical perspectives on economics of energy; political economy of energy supply and demand; regulation in energy sector; analysis of prevalent market structures; economics of oil, coal, electricity generation, natural gas and alternative energies.

Prerequisite: ECON 201.

#### **ECON 490. Cooperative Education**

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

ECON 496. Individual Study (1-6). ECON 498. Special Topics (1-6). ECON 499. Seminar (1-5).

#### **Educational Foundations and Curriculum Department**

College of Education and Professional Studies Ellensburg Black Hall, room 101 509-963-1461 Fax: 509-963-1162 www.cwu.edu/education-foundation

See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

Chair

Barry Donahue, EdD

#### **Graduate Programs Coordinator**

Rebecca S. Bowers, EdD

#### **Director of Field Experience**

Jan Byers-Kirsch, EdD

#### **Professors**

Catherine Bertelson, PhD, educational technology
Rebecca S. Bowers, EdD, curriculum and instruction
Barry Donahue, EdD, philosophy, research design
Steven Nourse, PhD, curriculum and instruction, supervision
Steven A. Schmitz, EdD, sociology, philosophy, history, assessment, curriculum
Don B. Woodcock, PhD, policy and management, multicultural, and American Indian education

#### **Associate Professors**

Kim M. Jones, PhD, curriculum and instruction
Mary Lochrie, EdD, classroom management, assessment, curriculum, and instructional planning
Ian Loverro, PhD, educational technology and communication
Naomi Petersen, EdD, philosophy, assessment, STEM, informal settings
Lee Plourde, PhD curriculum and instruction, supervision, administration

#### **Assistant Professors**

Gary Ballou, PhD, field supervision Kelly Benson, EdD, leadership, law Molly Ross, EdD, field supervisor

#### Lecturers

Frank Foster, MEd, field supervisor Judy Longstreth, MEd, field supervisor Jerry St. George, MEd, field supervisor

#### Staff

Jan Case, program support supervisor Linda Huber, secretary senior

#### **Department Information**

In order to be certified in the state of Washington, a student must complete the courses required in an endorsement area as well as the Professional Education Program. The Educational Foundations and Curriculum Department provides the courses and experiences necessary to complete the Professional Education Program.

#### **Department Standards**

All students completing an educational endorsement must maintain a 3.0 GPA or higher for the last 45 graded credits. Failure to maintain this level of achievement may result in suspension or expulsion from the Teacher Certification Program. Students must also earn a minimum grade of C in all required Professional Education Program courses.

#### **Admission Requirements**

Students may not enroll in Professional Education Program courses other than EFC 210, EFC 310, and PSY 314 until they have been fully admitted into the Teacher Certification Program. Please see the admission requirements for the Teacher Certification Program at the Teacher Certification website, www.cwu.edu/teacher-certification.

#### **Exit Requirements**

Students admitted into the Teacher Certification Program are required to present a complete electronic portfolio demonstrating their content, pedagogical, and professional knowledge, skills, and dispositions as a partial fulfillment of their graduation requirements. Please see the exit requirements for the Teacher Certification Program.

#### **Pre-admission Observation Experience**

In special circumstances, this experience may be completed concurrent with the first three weeks of EFC 210. However, because it will generally not be possible for students to find placements and complete their observation within this time, students are strongly encouraged to complete their Pre-admission Observation Experience prior to enrolling in EFC 210.

#### **Student Teaching**

Students must complete a minimum of 16 quarter credits of student teaching on an all-day basis for one quarter. To qualify for certification to teach in more than one specialization, students must meet all requirements listed in the catalog for each specialization. All prerequisites in the course description for student teaching must be completed.

- 1. One quarter in residence at CWU is required before a student may be assigned to student teaching, unless an exception is approved by the chair of the Department of Educational Foundations and Curriculum.
- 2. Students must be endorsed for student teaching by their major and minor departments. The endorsement requires completion of 75 percent of the major and minor areas prior to student teaching. See major and minor departments for advising.
- 3. Most student teaching assignments will be made at centers outside Kittitas County.
- 4. While student requests for choice of student teaching centers and grade levels will be considered, final responsibility for student teaching placement rests with the director of field experiences.
- 5. Student teachers wishing to enroll in additional coursework during their student teaching experience must obtain the approval of the director of field experiences.
- 6. A minimum GPA of 3.0 for the last 45 quarter credits is required prior to applying for student teaching.
- 7. Fingerprint clearance from both the Washington State Patrol and the FBI must be on file in the office of the dean of the College of Education and Professional Studies (CEPS) prior to applying for student teaching. Clearance must be valid for the entire period in which students will be in the classroom.
- 8. Applications for certification must be on file in the office of the dean of CEPS one quarter prior to student teaching.
- 9. At the time of application submission, students must provide proof of purchase of \$1M of liability insurance for student teaching, valid for the quarter in which student teaching will occur.
- 10. At the time of application submission, students must provide West-E results or proof of having registered for a West-E test date that will occur prior to the first day of student teaching.

#### **Professional Education Program**

The purpose of the Professional Education Program is to prepare prospective teachers to become facilitators of learning within the school and community. The Professional Education Program curriculum provides opportunities to acquire the pedagogical knowledge and skills that allow students to demonstrate a positive impact on P-12 student learning. To this end, the program offers information about and experience in integrating research and "best practice" based pedagogical constructs, for a spectrum of diverse learning situations.

Students should enroll for EFC 330 prior to their junior year. Student teaching is completed at one of the approved off-campus locations.

Check the University catalog for course descriptions and pre-requisites information. Some courses must be taken in sequence. Consult your education advisor for assistance in developing an academic plan.

#### Required Courses

- EDBL 401 Principles and Practices for Educating Linguistically Diverse Students **Credits:** (3) OR EDBL 430 Sheltering Instruction for Linguistically Diverse Students **Credits:** (3)
- EDSE 302 Introduction to Students with Exceptionalities Credits: (3)
- EFC 210 Seminar Credits: (1)
- EFC 310 Orientation to Teaching **Credits:** (3)
- EFC 315 Educational Assessment **Credits:** (3)
- EFC 320 Multicultural Education Credits: (3)
- EFC 330 Field Experience Credits: (2)
- EFC 340 Methods of Instruction **Credits:** (3)
- EFC 350 Classroom Management **Credits:** (3)
- EFC 416 Educational Technology **Credits:** (3)
- EFC 440 Education Law Credits: (3)
- EFC 480 Student Teaching Credits: (16)
- PSY 314 Human Development and the Learner Credits: (4)

Total Credits: 51

#### Education Curriculum and Supervision Courses EDCS 309. Civic Engagement (2).

Student will use program of study content knowledge to improve a community situation. UNIV 309 and EDCS 309 are cross-listed courses, students may not receive credit for both. May be repeated for credit

#### **EDCS 312. Educational Statistics**

(4). Use and interpretation of elementary statistical techniques.

#### EDCS 316. Educational

Technology (3). Students will explore a variety of concepts and resources related to the appropriate and effective integration of technology/ media in school settings. BSED 316 and EDCS 316 are cross-listed courses; students may not receive credit for both. Prerequisites: PSY 314, either EFC 310 or EDF 301A, and admission to the Teacher Certification Program. CS 101 or IT 101 are also recommended prerequisites.

#### **EDCS 392. Practicum** (3-5).

Practical experience in a stateapproved K-12 educational setting. Grade will either be S or U.

#### EDCS 431. Multicultural

Education (3). A course addressing cultural differences/ diversity (e.g., ANTH 130, ETS 101, or SOC 365) is recommended prior to enrolling in EDCS 431. Race, nationality, minority groups, income groups, urban and rural groups, and methods of teaching and measuring intergroup relations. Prerequisite: current WSP/ FBI fingerprint clearance, and conditional or full admission to the Teacher Certification Program.

**EDCS 491. Workshop** (1-6). May be repeated for credit.

#### **ED CS 492. Practicum** (1-15).

Experience working in educational settings. Students may accumulate no more than 15 hours of practicum credit. May be repeated for credit. Grade will either be S or U.

Education Foundation Courses EDF 296. Individual Study (1-6). EDF 298. Special Topics (1-6). EDF 299. Seminar (1-5). EDF 396. Individual Study (1-6). EDF 398. Special Topics (1-6). EDF 490. Cooperative Education

(1-12). An individualized,

contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. Prior approval.

EDF 496. Individual Study (1-6). EDF 498. Special Topics (1-6). EDF 499. Seminar (1-5).

#### **Education Foundation and Curriculum Courses**

**EFC 210. Seminar** (1). Discussion of field observation and program planning for prospective teachers. Prerequisite: prior completion of pre-admission observation by permission.

#### EFC 310. Orientation to Teaching

(3). Teaching as a career and essential features of preparation. Study of the teacher's role and function in the school; characteristics of good teachers; preparation for professional competencies and certification; the American public school system; and the responsibilities of schools in a democratic society. Co- or prerequisite: EFC 210.

#### EFC 315. Educational Assessment

(3). The assessment/ planning/ instruction cycle. Standards-based assessment. Reliability, validity, bias. Basic statistics used in test construction and interpretation. Construction of classroom tests: multiple-choice, short answer, essay, etc. Performance assessment, portfolio assessment, affective assessment. Prerequisites: admission to the Teacher Certification Program and EFC 210.

#### EFC 320. Multicultural Education

(3). Exploration of marginalized groups and the implications for change in education.

Examination of foundational elements of and approaches to Multicultural Education as the underpinning to the development of cultural competence. Prerequisites: EFC 310, PSY 314, current WSP/ FBI fingerprint clearance and admission to the Teacher Certification Program.

#### EFC 330. Field Experience (2). A

laboratory experience for prospective teachers. The opening of school, professional relationships, school/ community relationships, school district organization, instructional support, and resource services. Students are assigned in off-campus centers for approximately two weeks prior to fall quarter. Prerequisites: EFC

310, PSY 314, current WSP/ FBI fingerprint clearance, and admission to the Teacher Certification Program. Grade will either be S or U.

#### EFC 340. Methods of Instruction

(3). Introduction to basic methods of classroom instruction. Development of a comprehensive curriculum unit plan. Methods appropriate for subject and grade level in lab and field experience. Prerequisites: EFC 310 and admission to the Teacher Certification Program. Corequisite: EFC 315, EFC 320, and EFC 330.

#### EFC 350. Classroom Management

(3). Development of values, confidence, assertiveness skills, and decision-making skills in classroom management. Development of a comprehensive management plan for first year teaching. Includes a field experience component. Prerequisites: EFC 340 and PSY 314, and admission to the Teacher Certification Program.

#### EFC 416. Educational Technology

(3). Concepts and resources related to appropriate and effective integration of technology and media in school settings. CS 101 or IT 101 recommended prior to enrollment. Prerequisites: EFC 340 and admission to the Teacher Certification Program.

# **EFC 440. Education Law** (3). Major legal issues confronting educators, including students

and teacher rights, due process, torts, and the identification and reporting of child abuse.
Prerequisites: EFC 340 and admission to the Teacher
Certification Program.

#### EFC 480. Student Teaching (16).

Teacher candidates must demonstrate their competence by student teaching a full quarter in their major endorsement area. Includes 20 hours of seminar at a time and place designated by the university supervisor. See Student Teaching Requirements in this catalog, and the Student Teaching Handbook for other requirements and policies. SCED 325 may be substituted for EFC 350, and SCED 487, may be substituted for EFC 416. Prerequisites: admission to the Teacher Certification Program, and completion of the Professional Education Program with grades of C or higher, and current WSP/FBI fingerprint clearance. Grade will either be S or U.

# EFC 491. Online Instructional Technology Resources for

Educators (3). Participants will explore online instructional technology resources and develop learning and/or program related activities for the classroom and/or school environment. May be repeated up to 9 credits. Grade will either be S or U.

#### **Engineering Technologies, Safety, and Construction Department**

College of Education and Professional Studies Ellensburg (E) Hogue Hall, room 101 CWU-Des Moines (DM) 509-963-1756 (E) 206-439-3800 (DM) www.cwu.edu/engineering

See website for how these programs may be used for educational and career purposes.

Faculty and Staff Interim Chair William Bender, PhD

#### **Professors**

William Bender, PhD, construction management

David Carns, MS, construction management Craig Johnson, PhD, mechanical engineering technology Taiqian Q. Yang, PhD, electronics engineering technology

#### **Associate Professors**

Scott Calahan, MEd, industrial/ technology education Lad Holden, MT, electronics engineering technology Darren Olson, PhD, industrial technology Michael L. Whelan, PhD, construction management

#### **Assistant Professors**

Roger Beardsley, MS, mechanical engineering technology Nathan Davis, MA, electronics engineering technology John O'Neill, MPA, safety and health management P. Warren Plugge, PhD, construction management Charles Pringle, MS, mechanical engineering technology Sathyanarayanan Rajendran, PhD, safety and health management

#### **Emeritus Professors**

D. Ken Calhoun, EdD Stanley A. Dudley, MEd Robert Wieking, PhD Tim Yoxtheimer, MS

#### Lecturers

William Cattin, MS, industrial technology Juan Robertson, PhD, MSET (DM)

#### Staff

Matthew Burvee, instructional and classroom support technician Arthur Morken, instructional and classroom support technician Susan Van de Venter, office manager

#### **Department Overview**

The Department of Engineering Technologies, Safety, and Construction offers BS and BAS degree programs in various technologies.

#### **Accrediting Information**

The Construction Management program is fully accredited by the American Council for Construction Education (ACCE).

The Electronics Engineering Technology Program and Mechanical Engineering Technology Program are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone 410-347-7700.

#### **Department Information**

Some programs have specific admission requirements and admission deadlines. Specific information for each program can be found on the program Web site.

Students should seek advising from their program advisor prior to registration each quarter.

Courses with an additional fee are identified in the special course fee section of the student handbook published by the registrar.

#### Majors:

Construction Management (BS)
Electronics Engineering Technology (BS)
Computer Engineering Technology
Electronic Systems
Industrial Technology (BS, BAS)
Mechanical Engineering Technology (BS)
Mechanical Technology
Manufacturing Technology
Industrial Education (Broad Area) (BS)

Industrial Education (BS)
Safety and Health Management (BS, BAS)

#### Minors:

Construction Safety Industrial Technology Safety and Health Management Traffic Safety Education

#### Safety and Health Management Program

Hogue Hall, room 107 509-963-1756 Fax: 509-963-1795 www.cwu.edu/engineering

#### Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The vision for the BS major in safety and health management is one that is recognized for preparing students to be well-rounded safety practitioners who have the confidence and capabilities to navigate the complex organizational and knowledge networks necessary to succeed in contemporary safety and health management.

The safety and health field includes many industries, functions, and occupations. Graduates from the curriculum have a history of high employment rates and competitive starting salaries.

The BS in safety and health management is the primary program for the student seeking a baccalaureate degree leading to a career in safety and health management. The program requires completion of an approved minor or second major.

#### **Admission Requirements**

Applications are accepted throughout the academic year. Admission to the program is based upon a review of completed prerequisite courses and application materials. Please see the program application at www.cwu.edu/engineering.

Admission to any course requires a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course.

A student is expected to complete each course used to fulfill a degree program requirement with a grade of C or better. Students must complete all CWU basic and breadth requirements prior to beginning 400 level SHM coursework.

#### **Industrial Technology Major, BAS**

The bachelor of applied science in industrial technology allows persons who have worked in industry for a period of time to enhance their career potential by utilizing their community college education and on-the-job experience to earn a baccalaureate degree after taking upper-division coursework. The goal of the program is to provide students with technical skills and knowledge to function as professionals within the industrial environment.

Admission Requirements: Prior to being admitted the student entering the BAS industrial technology major will have:

- An appropriate and approved associate degree as issued by a Washington State community college;
- Taken at least 20 credits of general education basic skills courses
- Completed prerequisites for the program
- Taken course equivalencies to IET 160, BUS 221, and EET 221
- Completed 2000 hours of recent, documented work experience in an industrial technology related job and approved by the department chair.

#### Prerequisites

- CHEM 111 Introduction to Chemistry **Credits:** (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- IT 101 Computer Applications Credits: (3)
- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)

#### Required Courses

- ADMG 385 Business Communications and Report Writing Credits: (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- EET 221 Basic Electricity Credits: (5)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 380 Quality Control Credits: (4)
- IET 385 Product Design and Development Credits: (4)
- IET 442 Alternative Energy Resources and Technology Credits: (5)
- IET 455 Engineering Project Management Credits: (4)
- IET 490 Cooperative Education Credits: (1-12) Summers only
- MET 345 Production Technology Credits: (4)
- SHM 325 Manufacturing Safety Credits: (3)

Department-approved electives - Credits: 12

Total Credits: 80

#### Occupational Safety and Health Major, BAS

Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The bachelor of applied science (BAS) major in occupational safety and health allows persons who have worked in industry for a period of time to enhance their career potential by utilizing their community college educational and on-the-job experience to earn a baccalaureate degree following completion of upper-division coursework. The goal of the program is to prepare and enable students to fill professional level positions as managers within the broad area of industrial safety and health.

The program provides course options for the student to tailor the program to their specific career interests. Admission to any course requires a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course. Students are expected to complete each course used to fulfill a degree program requirement with a grade of C or better. Students must complete all CWU basic and breadth requirements prior to beginning 400-level SHM coursework.

#### Admission Requirements:

A student wishing to enter the B.A.S. occupational safety and health program must have:

- an appropriate and approved associate degree;
- completed at least 20 credits of general education basic skills courses; and,
- completed the program prerequisites

Applications are accepted throughout the academic year. Please see the program application for prerequisites available on the web at www.cwu.edu/engineering.

Required Basic and Breadth Courses Credits: 36-37

- ENG 101 Composition I: Critical Reading and Responding Credits: (4)
- ENG 102 Composition II: Reasoning and Research Credits: (4)
- PSY 101 General Psychology Credits: (5)
- BIOL 201 Human Physiology Credits: (5)

Choose one of the following courses: Credits 5

- MATH 102 Mathematical Decision Making Credits: (5) OR
- MATH 130 Finite Mathematics Credits: (5)

Choose one of the following MATH courses Credits: 5

• MATH 101 - Mathematics in the Modern World Credits: (5)

- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- MATH 154 Pre-calculus Mathematics II **Credits:** (5)
- MATH 172 Calculus I **Credits:** (5)

#### Choose from the following CHEM Credits: 5

- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry **Credits:** (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)

#### Choose one from the following Credits: 3-4

- CS 101 Computer Basics Credits: (4)
- IT 101 Computer Applications Credits: (3)

#### Required Courses Credits: (21)

- MGT 380 Organizational Management Credits: (5) OR
- HRM 381 Management of Human Resources Credits: (5)
- SHM 351 Incident Analysis Credits: (4)
- SHM 352 Systems and Design Credits: (4)
- SHM 353 Risk and Insurance Credits: (4)
- SHM 485 Safety and Health Management Capstone Credits: (4)

#### Choose two SHM Program Management courses:

- SHM 371 Emergency Planning and Preparedness Credits: (4)
- SHM 373 Industrial Machinery and Process Safety Credits: (4)
- SHM 375 Transportation and Fleet Safety Credits: (4)
- SHM 377 Hazardous Materials Management Credits: (4)
- SHM 379 Facility and Building Safety Credits: (4)

#### Choose two SHM Analysis and Design courses:

- SHM 474 Safety and Health Management Systems Credits: (4)
- SHM 475 Management System Auditing Credits: (4)
- SHM 477 Environmental Management Credits: (4)

Department-approved electives - Credits: 23

Total Credits: 96-97

#### **Construction Management Major, BS**

#### Advisors

David Carns, MS (Coordinator) William Bender, PhD P. Warren Plugge, PhD Michael Whelan, PhD

This major prepares the graduate for management positions in the construction industry. Students must be accepted into the major prior to taking upper-division CMGT courses. See www.cwu.edu/~iet/programs/cmgt.html for details. Students pursuing this degree should work closely with their program advisor to ensure that prerequisites for entry into the major have been satisfied.

Construction management students have the choice to concentrate on one of two different construction types; general building or heavy civil construction.

#### **Exit Requirements**

Students are required to complete the Associate Constructor exam administered by American Institute of Constructors and achieve a minimum score of 60 percent to graduate with a BS in construction management.

#### Required Courses

- ACCT 301 Financial Accounting Analysis Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- CMGT 265 Blueprint Reading and Construction Graphics Credits: (4)
- CMGT 320 Electrical Systems Design Credits: (3)
- CMGT 343 Construction Estimating I Credits: (3)
- CMGT 343LAB Construction Estimating I Laboratory Credits: (1)
- CMGT 346 Construction Methods and Materials Credits: (4) OR
- CMGT 347 Heavy Civil Methods and Materials Credits: (4)
- CMGT 440 Temporary Structures Credits: (4) OR
- CMGT 441 Wood and Steel Construction Credits: (4)
- CMGT 442 Building Service Systems Credits: (3) OR
- CMGT 443 Heavy Civil Utilities Credits: (3)
- CMGT 444 Codes, Contracts, and Specifications Credits: (4) OR
- CMGT 445 Heavy Civil Contract Law Credits: (4)
- CMGT 447 Construction Planning, Scheduling, and Control Credits: (4)
- CMGT 450 Soils and Foundations Credits: (4)
- CMGT 455 Principles of Construction Management Credits: (4) OR
- CMGT 456 Principles of Heavy Civil Construction Management Credits: (4)
- CMGT 460 Concrete Construction Credits: (4) OR
- CMGT 461 Pavement Design and Construction Credits: (4)
- CMGT 485 Construction Accounting, Finance, and Contemporary Topics Credits: (4)
- CMGT 488 Professional Certification Credits: (1)
- COM 345 Business and Professional Speaking Credits: (4)
- ECON 201 Principles of Economics Micro Credits: (5)
- IET 161 Architectural Computer Aided Design Credits: (3)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 311 Statics Credits: (4)
- IET 312 Strength of Materials Credits: (4)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- SHM 323 Construction Safety Credits: (3)

#### Select Either

- CMGT 245 Light Commercial Construction Credits: (5) OR
- CMGT 452 LEED in Sustainable Construction Credits: (4) OR
- IET 490 Cooperative Education **Credits:** (1-12) (IET 490 must be taken for four credits.)

#### Select Either

- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)

#### Select from the following - Credits: 5

- GEOL 101 Physical Geology Credits: (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1) OR
- GEOL 108 Introduction to Environmental Geology Credits: (5)

#### Select two of the following:

- HRM 381 Management of Human Resources Credits: (5) OR
- MGT 380 Organizational Management Credits: (5) OR
- MKT 360 Principles of Marketing Credits: (5) OR
- ADMG 201 Introduction to Business **Credits:** (3) **AND** ADMG 372 Leadership and Supervision (3)

Select from the following - Credits: 4

- CMGT 267 Plane Surveying Credits: (3)
- CMGT 267LAB Plane Surveying Field Session Credits: (1) OR

Select from the following - Credits: 4

- CMGT 344 Construction Estimating II Credits: (3) and
- CMGT 344LAB Construction Estimating II Laboratory Credits: (1) OR
- CMGT 345 Heavy Civil Estimating II Credits: (3) and
- CMGT 345LAB Heavy Civil Estimating II Laboratory Credits: (1)

Total Credits: 131-133

#### **Electronic Engineering Technology Major with Specializations, BS**

Advisors

Lad Holden, MS (Coordinator) John Gumaer, MS Taiqian Yang, PhD

The technologists graduating from this program are applications oriented, building upon a background of mathematics, science, and technology. They interface with engineers at the product level and produce practical, workable results quickly, install and operate technical systems, devise hardware and software from proven concepts, develop and produce products, service machines, programs, and systems, manage production facilities and work groups, and provide support for technical systems' hardware and software.

The core of the major's coursework is electronics, digital principles, programming, math, and science. There are two specializations: computer engineering technology for students specializing in software, and electronic systems for those specializing in hardware.

Students interested in engineering courses after graduation should complete PHYS 181-183 and MATH through differential equations (MATH 376 and 377).

Students pursuing this degree should work with the departmental advisors to ensure that they have met the prerequisites for the upper-division electives. Due to the number of hours required, some students may find that this program requires additional time to complete.

#### Required Core Courses

- CS 110 Programming Fundamentals I Credits: (4)
- EET 221 Basic Electricity **Credits:** (5)
- EET 312 Basic Electronics **Credits:** (5)
- EET 323 Active Linear Circuits **Credits:** (4)
- EET 324 Advanced Electrical Network **Credits:** (4)
- EET 342 Instrumentation Credits: (4)
- EET 370 Programming Applications in Technology Credits: (4)
- EET 371 Digital Circuits **Credits:** (4)
- EET 372 Advanced Digital Circuits **Credits:** (4)
- EET 375 Microprocessors **Credits:** (4)
- EET 376 Microprocessors and Instrumentation Credits: (4)
- EET 452 Computer Networks **Credits:** (4)
- EET 478 Senior Project I Credits: (2)
- EET 479 Senior Project II Credits: (2)
- EET 489 Senior Technical Presentations Credits: (2)
- IET 301 Engineering Project Cost Analysis Credits: (4)

- IET 380 Quality Control Credits: (4)
- IET 455 Engineering Project Management Credits: (4)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)

#### Math elective - Credits: 3-5

- MATH 260 Sets and Logic Credits: (5)
- MATH 265 Linear Algebra I Credits: (4)
- MATH 272 Multivariable Calculus I **Credits:** (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MATH 330 Discrete Mathematics Credits: (5)
- MATH 376 Differential Equations I **Credits:** (3)

#### Physics elective - Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### Written communications elective - Credits: 3-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- CS 325 Technical Writing in Computer Science Credits: (3)
- ENG 310 Technical Writing Credits: (4)

#### Speech elective - Credits: 3-4

- COM 207 Introduction to Communication Studies Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- IET 389 Technical Presentations Credits: (3)

#### EET Core Total Credits: 102-107

#### Computer Engineering Technology Specialization

#### Required Courses

- EET Core Requirements Credits: 102-107
- CS 111 Programming Fundamentals II Credits: (4)
- CS 301 Data Structures Credits: (4)
- CS 302 Advanced Data Structures and File Processing Credits: (4)
- CS 470 Operating Systems Credits: (4)
- CS 473 Parallel Computing **Credits:** (4)

#### Department-approved electives Credits: 7-12

#### Total Credits: 134

#### Electronics Systems Specialization

#### Required Courses

- EET Core Requirements Credits: 102-107
- EET 332 Electrical Power and Machinery Credits: (4)
- EET 343 Process Control Credits: (4)
- EET 432 Generation and Transmission of Electrical Power Credits: (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 373 Programmable Logic Controller Applications Credits: (4)

Department-approved electives Credits: 7-12

Total Credits: 134

#### Industrial Technology Major, BS

#### Advisors

William Cattin, MS (Coordinator) Scott Calahan, MS Lad Holden, MS Craig Johnson, PhD

This major prepares the graduate for leadership positions in industry and technical distribution. The program applies algebra, trigonometry, and the physical sciences to industrial systems. Students select 40-41 credits by advisement in an area of technical interest. Areas of interest may include technology (general), industrial distribution, industrial electronics, industrial manufacturing, industrial supervision, power systems, cast metals, metal fabrication, non-destructive testing, wood production, or other technical areas by departmental advisement. With departmental approval, transfer students from technical programs may elect to use their technical degree as the elective area of interest.

Students pursuing this degree should work closely with their department advisor to assure that they have met the prerequisites for the upper-division electives.

#### Required Courses

- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
   OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- EET 221 Basic Electricity **Credits:** (5) (with laboratory)
- EET 312 Basic Electronics **Credits:** (5)
- EET 342 Instrumentation **Credits:** (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 380 Quality Control Credits: (4)
- IET 385 Product Design and Development Credits: (4)
- IET 442 Alternative Energy Resources and Technology Credits: (5)
- IET 455 Engineering Project Management Credits: (4)
- IET 490 Cooperative Education Credits: (1-12) Credits (4)
- IT 101 Computer Applications Credits: (3)
- MATH 154 Pre-calculus Mathematics II Credits: (5)
- MET 310 Hydraulics/ Pneumatics Credits: (4)
- MET 345 Production Technology Credits: (4)
- MET 351 Metallurgy/ Materials and Processes Credits: (4)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- SHM 325 Manufacturing Safety Credits: (3)

Select Either: Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5) OR
- ENG 310 Technical Writing Credits: (4)

Sub Total of Credits: 83-85

Technical Specialization
(By advisement)
Sub Total of Credits: 24-25

CS or IT Elective Credit: 4 (IET department approved)

Total Credits: 107-110

Additional Information

Transfer students MUST complete a minimum of 25 credits from the IET Department.

#### Mechanical Engineering Technology Major with Specialization, BS

Coordinator and Advisors Craig Johnson, PhD (Coordinator) Roger Beardsley, MS William Cattin, MS

The bachelor of science degree in mechanical engineering technology (MET) has specializations in mechanical or manufacturing technology. The major provides a broad foundation in the practical application of mechanical engineering principles. Graduates concentrating in mechanical technology may pursue one of the following career paths: machine and product design, product and system evaluation, plant operation and management, technical sales, field service, environmental quality control, and energy production. Graduates specializing in manufacturing technology are prepared to enter career paths as tool designers, tool and production planners, numerical control programmers, machine planners, computer-assisted machine planners, manufacturing process analysts, quality assurance, and technical field representatives.

In the absence of an appropriate background, the student may find it necessary to take IET 165, Engineering Drawing I. Those students who are interested in engineering courses after graduation should complete the engineering physics sequence, (PHYS 181, 182, 183) and mathematics through differential equations.

Students pursuing this degree should work with the departmental advisor to ensure that the prerequisites for the upperdivision electives have been met. Due to the number of hours in this program, some students may find that this program requires additional time to complete.

Mechanical Engineering Technology Core Requirements

- Computer Science Elective Credits: (3)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- COM 345 Business and Professional Speaking Credits: (4)
- EET 221 Basic Electricity Credits: (5)
- ENG 310 Technical Writing Credits: (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 265 Three-dimensional Modeling Credits: (4)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 311 Statics Credits: (4)
- IET 312 Strength of Materials Credits: (4)
- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)
- MET 255 Machining Credits: (4)
- MET 314 Applied Thermodynamics Credits: (4)
- MET 314LAB Applied Thermodynamics Laboratory Credits: (1)
- MET 315 Fluid Dynamics Credits: (5)

- MET 327 Technical Dynamics Credits: (4)
- MET 327LAB Technical Dynamics Laboratory Credits: (1)
- MET 351 Metallurgy/ Materials and Processes Credits: (4)
- MET 418 Mechancial Design I Credits: (4)
- MET 418LAB Mechanical Design I Laboratory Credits: (1)
- MET 419 Mechanical Design II Credits: (5)
- MET 426 Applications in Strength of Materials Credits: (4)
- MET 488 Professional Certification Exam Preparation Credits: (2)
- MET 495A Senior Project I Credits: (3)
- MET 495B Senior Project II Credits: (3)
- MET 495C Senior Project III Credits: (3)

#### General or Introductory Physics - Credits: 5

- PHYS 111 Introductory Physics Credits: (4) and
- PHYS 111LAB Introductory Physics Laboratory Credits: (1) OR
- PHYS 181 General Physics Credits: (4) and
- PHYS 181LAB General Physics Laboratory Credits: (1)

#### General or Introductory Physics - Credits: 5

- PHYS 112 Introductory Physics II Credits: (4) and
- PHYS 182 General Physics II Credits: (4) and
- PHYS 182LAB General Physics Laboratory II Credits: (1)

#### General or Introductory Physics - Credits: 5

- PHYS 113 Introductory Physics III Credits: (4) and
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) **OR**
- PHYS 183 General Physics III Credits: (4) and
- PHYS 183LAB General Physics Laboratory III Credits: (1)

MET Core Total Credits: 114

#### Safety and Health Management Program, BS

College of Education and Professional Studies Ellensburg Hogue Hall, room 107 509-963-1756 Fax: 509-963-1795 www.cwu.edu/engineering

#### Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The vision for the BS major in safety and health management is one that is recognized for preparing students to be well-rounded safety practitioners who have the confidence and capabilities to navigate the complex organizational and knowledge networks necessary to succeed in contemporary safety and health management.

The safety and health field includes many industries, functions, and occupations. Graduates from the curriculum have a history of high employment rates and competitive starting salaries.

The BS in safety and health management is the primary program for the student seeking a baccalaureate degree leading to a career in safety and health management. The program requires completion of an approved minor or second major.

#### **Admission Requirements**

Applications are accepted throughout the academic year. Admission to the program is based upon a review of completed prerequisite courses and application materials. Please see the program application at www.cwu.edu/engineering.

Admission to any course requires a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course.

A student is expected to complete each course used to fulfill a degree program requirement with a grade of C or better. Students must complete all CWU basic and breadth requirements prior to beginning 400-level SHM coursework.

#### Required Basic and Breadth Courses Required

ENG 101 - English Composition I (4)

ENG 102 - English Composition II (4)

PSY 101 - General Psychology (5)

Either MATH 101 or MATH 153 or MATH 154 or MATH 172 (5)

Either MATH 102 or MATH 130 (5)

Either CHEM 101 or CHEM 111/111LAB or CHEM 181/181LAB (5)

BIOL 201 - Human Physiology (5)

Either IT 101 or CS 101 - Computer Basics (4)

#### Required Basic and Breadth Courses Credits: 36-37

- ENG 101 Composition I: Critical Reading and Responding Credits: (4)
- ENG 102 Composition II: Reasoning and Research Credits: (4)
- PSY 101 General Psychology Credits: (5)
- BIOL 201 Human Physiology Credits: (5)

#### Choose one of the following courses: Credits 5

- MATH 102 Mathematical Decision Making Credits: (5) OR
- MATH 130 Finite Mathematics Credits: (5)

#### Choose one of the following MATH courses Credits: 5

- MATH 101 Mathematics in the Modern World Credits: (5)
- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- MATH 154 Pre-calculus Mathematics II Credits: (5)
- MATH 172 Calculus I **Credits:** (5)

#### Choose from the following CHEM Credits: 5

- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)

#### Select either: Credits: (3-4)

- IT 101 Computer Applications Credits: (3) OR
- CS 101 Computer Basics Credits: (4)

#### Total Basic and Breadth Requirements 36-37

#### Required Courses

- HRM 381 Management of Human Resources **Credits:** (5)
- MGT 380 Organizational Management **Credits:** (5)

#### Choose one of the following courses: (4-5)

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Choose one of the following courses: (4-5)

- MGT 386 Principles of Organizational Behavior Credits: (5)
- PSY 456 Industrial and Organizational Psychology Credits: (4)

Choose one SHM Industry Practice course: (3)

- SHM 321 Agriculture Safety Credits: (3)
- SHM 323 Construction Safety Credits: (3)
- SHM 325 Manufacturing Safety Credits: (3)
- SHM 327 Research and Laboratory Safety Credits: (3)

#### SHM Core Functions courses: (12)

- SHM 351 Incident Analysis Credits: (4)
- SHM 352 Systems and Design Credits: (4)
- SHM 353 Risk and Insurance Credits: (4)

#### Choose three SHM Program Management courses: (12)

- SHM 371 Emergency Planning and Preparedness Credits: (4)
- SHM 373 Industrial Machinery and Process Safety Credits: (4)
- SHM 375 Transportation and Fleet Safety Credits: (4)
- SHM 377 Hazardous Materials Management Credits: (4)
- SHM 379 Facility and Building Safety Credits: (4)

#### Choose three SHM Analysis and Design courses: (12)

- SHM 471 Industrial Hygiene I Credits: (4)
- SHM 472 Industrial Hygiene II Credits: (4)
- SHM 474 Safety and Health Management Systems Credits: (4)
- SHM 475 Management System Auditing Credits: (4)
- SHM 477 Environmental Management Credits: (4)

#### SHM Synthesis courses: (8)

- SHM 481 Professional Safety Today Credits: (1)
- SHM 485 Safety and Health Management Capstone Credits: (4)
- SHM 490 Cooperative Education Credits: (1-12)

Total Credits: 65-67

BS Degree Program Total Credits: 101-104 Plus an approved minor or second major

#### Technology Education Broad Area Major, BS

Advisor: Scott Calahan (coordinator)

This bachelor of science teaching major satisfies the endorsement for technology education.

Students selecting this major must have a basic background in woods, metals, drafting, and mathematics through trigonometry. IET 430 is a prerequisite for student teaching. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

#### Pre-admission Requirements - 15 credits

- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)

#### Required Courses

- EET 221 Basic Electricity Credits: (5)
- EET 312 Basic Electronics Credits: (5)

- IET 145 Machine Woodworking **Credits:** (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 210 Energy Sources and Power **Credits:** (3)
- IET 265 Three-dimensional Modeling Credits: (4)
- IET 385 Product Design and Development Credits: (4)
- IET 430 Methods of Teaching Industrial Education Credits: (3)
- IET 433 Industrial Education Laboratory Planning Credits: (3)
- IET 435 Technology Education Exit Assessment Credits: (1)
- MET 255 Machining Credits: (4)
- MET 310 Hydraulics/ Pneumatics Credits: (4)
- MET 345 Production Technology Credits: (4)
- MET 357 Welding/ Fabrication Credits: (4)
- MET 382 Plastics and Composites Credits: (4)
- OCED 410 Career and Technical Education School to Work Programs Credits: (4)
- SHM 325 Manufacturing Safety Credits: (3)

Department-approved electives - Credits: 7-10

Total Credits: 85-88

#### **Technology Education Major, BS**

This bachelor of science teaching major satisfies the endorsement for technology education.

Students selecting this major must also select a minor or other education endorsement. IET 430 is a prerequisite for student teaching. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

Preadmission Requirements - 15 Credits

- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)

#### Required Courses

- EET 221 Basic Electricity **Credits:** (5)
- EET 312 Basic Electronics Credits: (5)
- IET 145 Machine Woodworking Credits: (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 210 Energy Sources and Power **Credits:** (3)
- IET 265 Three-dimensional Modeling Credits: (4)
- IET 385 Product Design and Development Credits: (4)
- IET 430 Methods of Teaching Industrial Education Credits: (3)
- IET 433 Industrial Education Laboratory Planning Credits: (3)
- IET 435 Technology Education Exit Assessment Credits: (1)
- MET 255 Machining Credits: (4)
- MET 310 Hydraulics/ Pneumatics Credits: (4)
- MET 345 Production Technology **Credits:** (4)
- MET 357 Welding/ Fabrication Credits: (4)

Total Credits: 67

The IET department strongly suggests for a student to be more competitive in the job market, the following additional courses should be taken.

- IET 210 Energy Sources and Power Credits: (3)
- MET 382 Plastics and Composites Credits: (4)
- OCED 410 Career and Technical Education School to Work Programs Credits: (4)
- SHM 325 Manufacturing Safety Credits: (3)

#### **Manufacturing Technology Specialization**

#### Required Courses

Mechanical Engineering Technology Core Requirements

- Computer Science Elective **Credits:** (3)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- COM 345 Business and Professional Speaking Credits: (4)
- EET 221 Basic Electricity Credits: (5)
- ENG 310 Technical Writing Credits: (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 265 Three-dimensional Modeling Credits: (4)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 311 Statics Credits: (4)
- IET 312 Strength of Materials **Credits:** (4)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MET 255 Machining Credits: (4)
- MET 314 Applied Thermodynamics Credits: (4)
- MET 314LAB Applied Thermodynamics Laboratory Credits: (1)
- MET 315 Fluid Dynamics Credits: (5)
- MET 327 Technical Dynamics Credits: (4)
- MET 327LAB Technical Dynamics Laboratory Credits: (1)
- MET 351 Metallurgy/ Materials and Processes Credits: (4)
- MET 418 Mechanical Design I Credits: (4)
- MET 418LAB Mechanical Design I Laboratory Credits: (1)
- MET 419 Mechanical Design II Credits: (5)
- MET 426 Applications in Strength of Materials Credits: (4)
- MET 488 Professional Certification Exam Preparation Credits: (2)
- MET 495A Senior Project I Credits: (3)
- MET 495B Senior Project II Credits: (3)
- MET 495C Senior Project III Credits: (3)

#### General or Introductory Physics - Credits: 5

- PHYS 111 Introductory Physics Credits: (4) and
- PHYS 111LAB Introductory Physics Laboratory Credits: (1) OR
- PHYS 181 General Physics Credits: (4) and
- PHYS 181LAB General Physics Laboratory Credits: (1)

#### General or Introductory Physics - Credits: 5

- PHYS 112 Introductory Physics II Credits: (4) and
- PHYS 182 General Physics II Credits: (4) and
- PHYS 182LAB General Physics Laboratory II Credits: (1)

#### General or Introductory Physics - Credits: 5

• PHYS 113 - Introductory Physics III Credits: (4) and

- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 183 General Physics III Credits: (4) and
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### MET Core Total Credits: 114

#### Additional Required Courses

- MET 345 Production Technology Credits: (4)
- MET 355 Advanced Machining and CNC Programming Credits: (4)
- MET 388 Tool Design **Credits:** (4)
- MET 423 Computer-aided Design and Manufacturing Credits: (4)

#### Department-approved electives - Credits: 8-9

- BUS 221 Introductory Business Statistics Credits: (5)
- IET 380 Quality Control Credits: (4)
- MET 257 Casting Processes Credits: (4)
- MET 310 Hydraulics/ Pneumatics Credits: (4)
- MET 357 Welding/ Fabrication Credits: (4)
- MET 382 Plastics and Composites **Credits:** (4)
- MET 483 Ceramics and Composites Credits: (4)

#### Total Credits: 138

#### **Mechanical Technology Specialization**

#### Required Courses

#### Mechanical Engineering Technology Core Requirements

- Computer Science Elective Credits: (3)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- COM 345 Business and Professional Speaking Credits: (4)
- EET 221 Basic Electricity **Credits:** (5)
- ENG 310 Technical Writing Credits: (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 265 Three-dimensional Modeling Credits: (4)
- IET 301 Engineering Project Cost Analysis Credits: (4)
- IET 311 Statics Credits: (4)
- IET 312 Strength of Materials **Credits:** (4)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MET 255 Machining **Credits:** (4)
- MET 314 Applied Thermodynamics Credits: (4)
- MET 314LAB Applied Thermodynamics Laboratory Credits: (1)
- MET 315 Fluid Dynamics Credits: (5)
- MET 327 Technical Dynamics Credits: (4)
- MET 327LAB Technical Dynamics Laboratory **Credits:** (1)
- MET 351 Metallurgy/ Materials and Processes Credits: (4)
- MET 418 Mechanical Design I Credits: (4)
- MET 418LAB Mechanical Design I Laboratory Credits: (1)
- MET 419 Mechanical Design II Credits: (5)
- MET 426 Applications in Strength of Materials Credits: (4)
- MET 488 Professional Certification Exam Preparation Credits: (2)

- MET 495A Senior Project I Credits: (3)
- MET 495B Senior Project II Credits: (3)
- MET 495C Senior Project III Credits: (3)

#### General or Introductory Physics - Credits: 5

- PHYS 111 Introductory Physics Credits: (4) and
- PHYS 111LAB Introductory Physics Laboratory Credits: (1) OR
- PHYS 181 General Physics Credits: (4) and
- PHYS 181LAB General Physics Laboratory Credits: (1)

#### General or Introductory Physics - Credits: 5

- PHYS 112 Introductory Physics II Credits: (4) and
- PHYS 182 General Physics II Credits: (4) and
- PHYS 182LAB General Physics Laboratory II Credits: (1)

#### General or Introductory Physics - Credits: 5

- PHYS 113 Introductory Physics III Credits: (4) and
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 183 General Physics III Credits: (4) and
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### MET Core Total Credits: 114

#### Additional Required Courses

- EET 332 Electrical Power and Machinery Credits: (4)
- MET 316 Applied Heat Transfer **Credits:** (5)
- MET 411 Energy Systems I Credits: (5)

#### Department-approved electives - Credits: 8-9

- EET 342 Instrumentation Credits: (4)
- MET 320 Fundamentals of Laser Technology Credits: (4)
- MET 382 Plastics and Composites Credits: (4)
- MET 412 Alternative Energy Systems Credits: (5)
- MET 420 Finite Element Analysis Credits: (4)
- MET 423 Computer-aided Design and Manufacturing Credits: (4)
- MET 483 Ceramics and Composites Credits: (4)

#### Total Credits: 136-137

#### **Construction Safety Minor**

#### Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The construction safety minor provides a broad coverage of construction management issues that affect safety and health performance during construction work. Enrollment in upper-division CMGT courses is based upon space availability.

Admission to any course requires a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course. Students are expected to complete each course used to fulfill a program requirement with a grade of C or better.

#### **Admission Requirements**

The construction safety minor is only available to BS Safety and Health Management majors. Applications are accepted throughout the academic year. Please see the program application available on the Web at www.cwu.edu/engineering.

#### Required Courses

- BUS 241 Legal Environment of Business Credits: (5)
- CMGT 265 Blueprint Reading and Construction Graphics Credits: (4)
- CMGT 346 Construction Methods and Materials Credits: (4) OR
- CMGT 347 Heavy Civil Methods and Materials Credits: (4)
- CMGT 442 Building Service Systems Credits: (3) OR
- CMGT 443 Heavy Civil Utilities Credits: (3)
- CMGT 444 Codes, Contracts, and Specifications Credits: (4) OR
- CMGT 445 Heavy Civil Contract Law Credits: (4)
- IET 490 Cooperative Education Credits: (1-12)
   (IET 490 Cooperative Education must be taken for at least 3 credits.)
- SHM 323 Construction Safety Credits: (3)

Total Credits: 26

#### **Industrial Technology Minor**

#### Advisors:

William Cattin, MS Scott Calahan, MEd Lad Holden, MS Craig Johnson, PhD

#### Required Courses

Courses to be selected from Department of Industrial Technology courses under department advisement.

Total Credits: 25

#### **Occupational Safety Technology Minor**

#### Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The occupational safety technology minor provides a balance of technical and process skills used in safety and health practice.

Admission to any course requires a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course. Students are expected to complete each course used to fulfill a program requirement with a grade of C or better.

#### **Admission Requirements**

Students enrolled in the BAS OSH program are not permitted to enroll in this minor. Applications are accepted throughout the academic year. Please see the program application available on the web at www.cwu.edu/engineering.

Required Courses: Credits (12)

- SHM 351 Incident Analysis Credits: (4)
- SHM 352 Systems and Design Credits: (4)
- SHM 353 Risk and Insurance Credits: (4)

Department-approved electives - Credits: (12)

Total Credits: 24

#### Safety and Health Management Minor

#### Advisors

John O'Neill, MPA Michael L. Whelan, PhD

#### **Program Information**

The safety and health management minor is designed for students who are interested in safety and health in the workplace. The program provides course options for the student to tailor the program to their specific career interests. Course selections should best fit the student's major program. Admission to any course required a grade of C or better in each prerequisite listed. Students who do not meet the prerequisite grade requirement will be dropped from the course. Students are expected to complete each course used to fulfill a degree program requirement with a grade of C or better.

#### **Admission Requirements**

The safety and health management minor is not available to students majoring in either the BS safety and health management or BAS occupational safety and health programs. Applications are accepted throughout the academic year. Please see the program application for preferences and evaluation available at www.cwu.edu/engineering.

#### Required Courses

Select one SHM Industry Practice course: (3)

- SHM 321 Agriculture Safety Credits: (3)
- SHM 323 Construction Safety Credits: (3)
- SHM 325 Manufacturing Safety Credits: (3)
- SHM 327 Research and Laboratory Safety Credits: (3)

#### SHM Core Functions courses: (12)

- SHM 351 Incident Analysis Credits: (4)
- SHM 352 Systems and Design Credits: (4)
- SHM 353 Risk and Insurance Credits: (4)

#### Select two SHM Program Management courses: (8)

- SHM 371 Emergency Planning and Preparedness Credits: (4)
- SHM 373 Industrial Machinery and Process Safety Credits: (4)
- SHM 375 Transportation and Fleet Safety Credits: (4)
- SHM 377 Hazardous Materials Management Credits: (4)
- SHM 379 Facility and Building Safety Credits: (4)

Total Credits: 23

#### **Traffic Safety Education Minor**

Advisor: Scott Calahan (Summer Only)

Students desiring an endorsement to teach traffic safety education in the public schools are required to take SED 382, SED 481, SED 482 and SED 484. These courses are taught concurrently during the six-week summer session.

#### Required Courses

- SED 382 Driver Task Analysis **Credits:** (3) Required for state endorsement.
- SED 481 Teaching Traffic Safety Education: Classroom and Simulation Instruction Credits: (3) Required for state endorsement.
- SED 482 Teaching Traffic Safety Education: In Car **Credits:** (5) Required for state endorsement.
- SED 484 Safety Program Supervision **Credits:** (3) Required for state endorsement.
- SHM 375 Transportation and Fleet Safety Credits: (4)

Total Credits: 18

Construction Management Courses CMGT 245. Light Commercial Construction (5). Construction of building foundations, commercial carpentry, and enclosing of wood frame structures. Students participate in construction of a building. Prerequisite: CMGT 265. CMGT 265. Blueprint Reading and Construction Graphics (4). Introduction to plan reading, construction terminology, and the construction process. Extensive work with plans of significant scope. Not open to students with credit in CMGT 266.

CMGT 267. Plane Surveying (3).
General surveying theory and practice pertaining to distance, elevation, and angle measurement. Includes traverse calculations and an emphasis on construction applications.
Prerequisites: MATH 154 and CMGT 265. Co-requisites: CMGT 267LABHC.

**CMGT 267LAB. Plane Surveying Field Session** (1). Co- or
prerequisite: CMGT 267. One
surveying field session weekly.

CMGT 320. Electrical Systems
Design (3). Design and
specification of building electrical
systems including circuit
principles, power distribution,
and low voltage controls.
Prerequisites: MATH 172 and
CMGT 265.

CMGT 343. Construction
Estimating I (3). Quantity
surveying and bid preparation
for general construction. Use of
cost handbooks, specifications,
and bid documents. Prerequisite:
CMGT 265. Co-requisite: CMGT
343LAB.

CMGT 343LAB. Construction Estimating I Laboratory (1). Prerequisite: CMGT 343. One estimating computer laboratory session weekly.

CMGT 344. Construction
Estimating II (3). Advanced
quantity surveying and bid
preparation for general
construction. Prerequisite: CMGT
343. Co-requisite: CMGT 344LAB.

CMGT 344LAB. Construction Estimating II Laboratory (1). Prerequisite: CMGT 344. One estimating computer laboratory session weekly.

CMGT 345. Heavy Civil
Estimating II (3). Advanced
estimating techniques and bid
preparation for heavy civil and
highway construction.
Prerequisite: CMGT 343. Corequisite: CMGT 345LAB.

CMGT 345LAB. Heavy Civil Estimating II Laboratory (1). Co-

or prerequisite: CMGT 345. One weekly estimating laboratory session.

CMGT 346. Construction Methods and Materials (4). Materials commonly used and the various methods employed in construction. Introduction to materials testing. Prerequisite: CMGT 265.

CMGT 347. Heavy Civil Methods and Materials (4). Materials commonly used and the various methods employed with an emphasis on heavy, civil, marine, and highway construction. Prerequisite: CMGT 265.

CMGT 440. Temporary Structures (4). An introduction to the materials, methods, and techniques associated with temporary construction facilities such as false work, scaffolding, formwork, and cofferdams. Prerequisites: IET 312 and either CMGT 346, or CMGT 347.

CMGT 441. Wood and Steel Construction (4). A comprehensive study of the materials, design, and erection of wood and steel structures. Prerequisites: IET 312 and CMGT 346.

CMGT 442. Building Service
Systems (3). An introduction to
building service systems. Study
the interfaces and specifications
of mechanical and plumbing
systems in building construction.
Topics include plumbing, fire
suppression, storm drainage, heat
gain/ loss, heating and cooling
systems, and elevators.
Prerequisite: CMGT 265.

CMGT 443. Heavy Civil Utilities
(3). An introduction to the materials, equipment, methods, and safety requirements for the construction of underground and above ground utilities including water, sewer, natural gas, and electrical systems. Prerequisites: CMGT 346 or CMGT 347.

CMGT 444. Codes, Contracts, and Specifications (4). Construction contracts and liability, bonding, arbitration, specifications, and building codes administration. Prerequisites: BUS 241, ENG 102, and CMGT 346 or CMGT 347.

CMGT 445. Heavy Civil Contract Law (4). Construction contracts,

liability, bonding, arbitration, and heavy civil highway specifications. Prerequisites: BUS 241, ENG 102, and CMGT 346 or CMGT 347.

CMGT 447. Construction
Planning, Scheduling, and
Control (4). Project scheduling
and evaluation using network
scheduling techniques, including
critical path scheduling. Includes
short interval scheduling and
cash flow forecasting.
Prerequisite: CMGT 343.

CMGT 450. Soils and Foundations (4). An introduction to soil mechanics and analysis and design of both shallow and deep foundations. Prerequisites: IET 312, GEOL 101, and GEOL 101LAB or GEOL 108, and CMGT 346 or CMGT 347.

CMGT 452. LEED in Sustainable Construction (4). The process using LEED as a measurement for sustainable construction. The course covers benefits and mechanisms of green building, cost analyses, and professional problem solving. CMGT 452 and IET 552 are equivalent courses; students may not receive credit for both. Prerequisite: CMGT 265. Department consent.

CMGT 455. Principles of
Construction Management (4).
Fundamental tools of
construction management. Topics
include contract management,
scheduling, cost estimating, cost
control, conflict management,
negotiating, team building,
quality control, safety, and a
capstone project. Prerequisites:
CMGT 447 and either CMGT 444
or CMGT 445.

CMGT 456. Principles of Heavy
Civil Construction Management
(4). Fundamental tools of heavy
civil highway construction
management. Topics include
contract management,
scheduling, cost estimating, cost
control, conflict management,
negotiating, team building,
quality control, safety, and a
capstone project. Prerequisites:
CMGT 447 and CMGT 344 or
CMGT 345.

CMGT 460. Concrete Construction (4). Manufacturing and testing of concrete, field practices, and

formwork. Prerequisites: IET 312, CMGT 346 or CMGT 347, and CMGT 440 or CMGT 441. Two hours lecture and two hours laboratory per week.

## CMGT 461. Pavement Design and Construction (4). An

introduction (4). All introduction to flexible and rigid pavement design and construction including pavement types, materials, construction methods, and maintenance concerns. Prerequisites: IET 312, and either CMGT 346 or CMGT 347

CMGT 480. Heavy, Civil, and Highway Construction (4). Study of the heavy, civil, and highway construction techniques and equipment used to build infrastructure projects such as highways, bridges, and site development. Prerequisites: CMGT 344 or CMGT 345.

CMGT 485. Construction
Accounting, Finance, and
Contemporary Topics (4). Project
cost accounting principles,
applications, and impact on
profitability. Includes principles
of activity based costing; WBS,
earned value, cash management,
value engineering, and
contemporary topics.
Prerequisites: CMGT 444 or
CMGT 445.

#### CMGT 488. Professional

Certification (1). A comprehensive review of professional construction management principles and technical skills in preparation for a national certification examination. Prerequisites: CMGT 444 or CMGT 445. Grade will either be S or U.

#### CMGT 495. Construction Management Competition

Preparation (1). Students work in teams to prepare for construction management competition. Teams develop cost, schedule, site layout, and safety plans for a major construction project. Students will compete in the Associated Schools of Construction competition in Reno, Nevada. Prerequisite: CMGT 344. May be repeated for credit. Grade will either be S or II

CMGT 499. Seminar (1-5).

#### Electric Engineering Technology Courses

EET 221. Basic Electricity (5). The fundamental principles of DC, AC, series, and parallel circuits, resistance, capacitance, inductance, and power are explored. Theory is reinforced by practical laboratory experimentation. Prerequisite: MATH 153.

#### **EET 312. Basic Electronics** (5).

Analysis of semiconductor devices and their application in power supplies, amplifiers, and control circuits. Theoretical concepts will be reinforced by circuit simulation and laboratory experimentation.

Prerequisite: EET 221. Lecture/laboratory.

#### EET 323. Active Linear Circuits (4).

Analysis and design of operational amplifier circuits including amplifiers, comparators, active filters, controls, and instrumentation devices. Prerequisites: EET 312 and MATH 172.

#### EET 324. Advanced Electrical

**Network** (4). Analysis techniques applied to system solutions in the time and frequency domain using linear deferential equations and laplace and fourier transform methods. Prerequisites: EET 312 and MATH 173.

# EET 332. Electrical Power and Machinery (4). A study of power transformers, single, and polyphase circuits. The study of DC machines and AC single and

DC machines and AC single and polyphase synchronous and induction machines. Prerequisite: EET 221LAB.

#### **EET 342. Instrumentation** (4).

Analysis of instrumentation systems including data collection, transmission and conversion, sensors operation, signal conditioning, and application techniques. Prerequisite: EET 312. Lecture/ laboratory.

#### EET 343. Process Control (4).

Application of analog and digital controller principles to process control systems. Prerequisite: EET 342. Three hours lecture and two hours laboratory per week.

#### **EET 363. Lab View Applications**

(1). An introduction to Lab VIEW instrumentation software.

Techniques used to simulate instrumentation systems will be introduced.

#### **EET 370. Programming**

Applications in Technology (4). Programming applications with an emphasis on networking, computer interfacing, and embedded systems applications.

#### EET 371. Digital Circuits (4).

Introduction to digital circuit logic, analysis, and design, including number systems, Boolean algebra, and combinational and sequential logic. Digital systems are evaluated in the laboratory. Three hours lecture and two hours laboratory per week.

#### EET 372. Advanced Digital

Circuits (4). Study of state machines, interfacing, programmable logic devices (PLDs), memory, and computer architecture. Digital systems are designed, assembled, and verified in the laboratory. Prerequisite: EET 371. Two hours lecture and four hours laboratory per week.

#### EET 375. Microprocessors (4).

Study of microprocessor system components, functions, and programming methods in assembly language. Laboratories examine microprocessor system operation, configuration, and programming. Prerequisite: EET 372. Three hours lecture and two hours laboratory per week.

#### EET 376. Microprocessors and

Instrumentation (4). Study of microprocessor system configuration, design, and sensor integration programming applications. Laboratories examine application design using various sensor input and system output methods. Prerequisite: EET 375.

#### EET 432. Generation and Transmission of Electrical

Power (4). A study of the generation and transmission of electrical energy. Includes techniques used by electric utilities for the protection of generating equipment and transmission lines, an introduction to the economic considerations of power plant operation and three-winding

transformers, and methods of solving unbalanced three-phase systems. Prerequisite: EET 332.

#### EET 445. Electro-Mechanical

Controls (4). A study of the components in open- and closed-looped systems. Included components are sensing devices, error detectors, potentiometers, synchors, resolvers, modulators, demodulators, amplifiers, motors, generators, and network. An analysis course that stresses operation time and frequency-response characteristics and proper adjustment of the components. Prerequisites: EET 324 and EET 343.

#### EET 452. Computer Networks (4).

A study of computer network protocols, topologies, and device configurations. Prerequisite: EET 375. Three hours lecture and two hours laboratory per week.

#### EET 455. Electronic

Communications (4). An introduction to electronic communications circuits. Prerequisite: EET 312. Two hours lecture and four hours laboratory per week.

**EET 475. Microcontrollers** (4). Use and programming of microcontrollers in the design and implementation of embedded controller systems.

#### **EET 477. Robotics** (4).

Microprocessor applications in robotics, automated systems, and digital control. Prerequisites: EET 342 and EET 375. Three hours lecture and two hours laboratory per week.

#### EET 478. Senior Project I (2).

Research, planning, and conceptual section of a capstone analysis and design project. Collaborative group endeavors in cooperation with industry, community, or government entities are encouraged. Evidence of extensive and thorough laboratory performance is required.

#### EET 479. Senior Project II (2).

Development section of a capstone analysis and design project where the creation of a prototype or method for the advancement of a concept takes place. Prerequisite: EET 478.

Evidence of extensive performance is required.

#### EET 489. Senior Technical

Presentations (2). Written and oral presentation section of a capstone analysis and design project where communication of technical concepts takes place. Prerequisite: EET 478.

#### Industrial and Engineering Technology Courses

### IET 101. Modern Technology and

Energy (5). A study of how basic scientific principles are applied daily in industrial societies through a survey of transportation, energy and power, construction, and consumer product technologies. NS-Application Natural Science

#### IET 145. Machine Woodworking

(4). Machine and tool operations, wood technology, designing and construction principles, finishing methods and materials. Two hours lecture and four hours laboratory per week.

IET 160. Computer-aided Design and Drafting (4). Hands-on training in the operation of AutoCAD's design and drafting software system with emphasis on features, limitations, and dimensioning strategy.

# IET 161. Architectural Computer Aided Design (3).

#### IET 201. Bio-related Technologies

(5). Agriculture, medicine, fuel production, waste management, and other technologies in which living organisms are used to solve problems and modify products and systems. Includes problem-solving, design, and research activities for understanding bio-related technologies.

#### IET 210. Energy Sources and

**Power** (3). A study of the various forms of power, its generation, application, and implications for technology and a technological society.

#### IET 215. Small Engines (4).

Maintenance and repair of oneand two-cylinder internal combustion engines. Two hours lecture and four hours laboratory per week. Prerequisite: IET 210.

#### $\boldsymbol{IET~260.~NURBS~Modeling}~(4).$

Hands-on training in the

production of 3-D models using Rhinoceros' NURBS (nonuniform rationale B-splines) geometry. Prerequisite: IET160.

#### IET 265. Three-dimensional

Modeling (4). Design of parts, assemblies, and working drawings using 3-D solid modeling software, basic theory of threaded fasteners and gears, wielding representation, geometric dimensioning, and tolerancing. Two hours lecture and four hours laboratory per week. Prerequisites: IET 160.

#### IET 290. Cooperative Education (1-

15). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

IET 296. Individual Study (1-6).

IET 298. Special Topics (1-6).

IET 299. Seminar (1-5).

#### **IET 301. Engineering Project Cost**

Analysis (4). Techniques of economic cost analysis applied to engineering projects: interest, present value, annual equivalence, rate of return, payout criteria, and break even modeling. Prerequisite: MATH 153.

IET 311. Statics (4). Introductory statics including forces and equilibrium. Principles of structures including trusses, beams, frames, machines and friction. Prerequisites: MATH 173 and PHYS 111 or PHYS 181.

#### IET 312. Strength of Materials (4).

Strength of materials, including stress analysis of axially loaded members, torsional members, beams, and indeterminate structures. Prerequisite: IET 311.

**IET 353. Pattern Making** (4). Two hours lecture and four hours

laboratory per week. Prerequisite: MET 257.

#### **IET 360. Brewing Process**

**Technology** (3). Study of brewing technology including equipment and processes from the brewhouse through packaging and distribution. Topics include

factors that affect product quality. Prerequisites: CHEM 101, CHEM 111 or CHEM 181 and MATH 153 with a grade of C or higher. Student must also be admitted to the Craft Beer Trade Certificate Program.

IET 373. Programmable Logic
Controller Applications (4). A
study of programmable logic
controller concepts, components,
systems, programming and
applications. Three hours lecture
and two hours laboratory per
week.

#### IET 380. Quality Control (4).

Provides the foundation necessary to understand and apply statistical quality control techniques, product reliability procedures, and the management aspects of quality assurance. Prerequisites: BUS 221 or MATH 311 or PSY 362.

IET 385. Product Design and Development (4). Methodology for the design and development of industrial and commercial products from conceptual stage to product introduction into the marketplace. Project based instructional structure. Three hours lecture per week.

#### **IET 389. Technical Presentations**

(3). Written and oral presentations based on technical reference material utilizing the library, technical society publications, and the Internet.

**IET 398. Special Topics** (1-6). **IET 430. Methods of Teaching** 

Industrial Education (3). Prerequisite: current WSP/ FBI fingerprint clearance, and conditional or full admission to the Teacher Certification Program.

#### IET 433. Industrial Education Laboratory Planning (3).

Planning of school shop and labs, new construction, and remodeling of facilities.

Management of industrial education facilities, inventories: records of tools, equipment, materials; safety and student personnel. Prerequisite: current WSP/ FBI fingerprint clearance.

IET 435. Technology Education
Exit Assessment (1). This is a
senior level course designed to
measure student competencies in

meeting state and national standards for program exit. Students are evaluated on their portfolio as presented in Livetext. Prerequisites: IET 430 and IET 433, and senior standing taken last quarter at CWU prior to graduation. Grade will either be S or U.

#### IET 442. Alternative Energy Resources and Technology (5).

Overview of energy systems, with focus on wind, biomass, solar, biodiesel, geothermal, and sustainable energy systems. Includes energy production and conversion. Field trips. GEOG 442 and IET 442 are cross-listed courses; students may not receive credit for both. Prerequisite: junior standing or above.

**IET 455. Engineering Project** 

Management (4). Project-based synthesis used in engineering project management. Topics; bidding, contract management, scheduling, cost estimating and control, logistics, conflict management, team building, negotiating, and risk assessment. IET 455 and IET 555 are layered course; students may not receive credit for both. By permission.

**IET 457. Advanced Foundry** (4). Two hours lecture and four hours laboratory per week. Prerequisites: MET 257 and IET

IET 490. Cooperative Education (1-

12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

IET 491. Workshop (1-6). IET 496. Individual Study (1-6). IET 498. Special Topics (1-6). IET 499. Seminar (1-5).

Mechanical Engineering Technology Courses

MET 255. Machining (4). Basic operations and technical information concerning common metal working machines and metal machining processes. Two

hours lecture and four hours laboratory per week.

MET 257. Casting Processes (4).

Theory and practice in green sand, shell core, permanent mold, no bake, and evaporation casting processes. Two hours lecture and four hours laboratory per week.

MET 310. Hydraulics/Pneumatics

(4). A study of the application, controls, and uses of air and liquid for the transmission of power. Prerequisite: IET 210. Two hours lecture and four hours laboratory per week.

#### MET 314. Applied

Thermodynamics (4). Properties of pure substances, first and second laws of thermodynamics, enthalpy and entropy, perfect gases, Carnot cycle, steam cycles, refrigeration cycles, mixtures of perfect gases, chemical reactions, and combustion. Four hours lecture per week. Prerequisites: MATH 173 and PHYS 182 or PHYS 112. Co-requisite: MET 314LAB.

#### MET 314LAB. Applied

Thermodynamics Laboratory (1). Practical application of thermodynamics systems teaching First and Second Law of Thermodynamics principles. Lab work includes usage of state-of-the-art instrumentation and data systems. Corequisite: MET 314. Prerequisites: MATH 173 and either PHYS 182 or 112.

#### MET 315. Fluid Dynamics (5).

Fluid statics, continuity, Bernoulli, and the general energy equation, laminar and turbulent flow, friction losses in pipes and ducts, pump performance and selection, compressible flow, and fluid measurements. Four hours lecture and two hours laboratory per week. Prerequisites: IET 311 and MET 314.

MET 316. Applied Heat Transfer

(5). Steady and unsteady state heat conduction, free convection, forced convection in tubes, forced convection over exterior surfaces, radiation heat transfer, change in phase heat transfer, heat exchangers, and heat pipes. Four hours lecture and two hours laboratory per week. Prerequisite: MET 315.

MET 320. Fundamentals of Laser Technology (4). Overview of laser technology with emphasis on laser characteristics, safety, and applications. Prerequisite: PHYS 113. Four hours lecture per week.

MET 327. Technical Dynamics (4). Topics: rectilinear and curvilinear motion, rotational kinematics, work, energy and power, linear impulse and momentum, angular impulse and momentum, rigid body motion, relative motion, and vibrations. Prerequisite: IET 311. Co-requisite: MET 327LAB.

MET 327LAB. Technical Dynamics Laboratory (1). Practical application of dynamical systems including usage of state-of-the-art instrumentation and data recording systems. Prerequisite: IET 311. Co-requisite: MET 327.

MET 345. Production Technology
(4). Mass production principles, organization for production, product engineering, production system design, jig, and fixture development, special problems in production.

MET 351. Metallurgy/Materials and Processes (4). Ferrous and nonferrous metals and alloys; polymeric, ceramic, and cellular materials; use of phase diagrams, cooling curves, stress-strain diagrams, and metallography. Prerequisites: CHEM 111 or CHEM 181.

MET 355. Advanced Machining and CNC Programming (4). Machining of metallic and nonmetallic materials on automated equipment; mass production technology; programming and operation of CNC equipment. Prerequisite: MET 255.

MET 357. Welding/Fabrication (4). Theory and practice in arc welding, oxyacetylene welding and cutting, MIG, TIG, and plastic welding. Two hours lecture and four hours laboratory per week.

MET 382. Plastics and Composites

(4). Composition, characteristics, and classifications of plastics and composite materials incorporating industrial applications, processing, and fabrication. Prerequisites: CHEM

111 and CHEM 111LAB, or CHEM 181 and CHEM 181LAB.

MET 388. Tool Design (4).

Principles of tool design for material removal, work holding, press working, joining and inspection processes with emphasis on inventive ability and problem solving. Prerequisites: IET 160 or IET 265, and MET 255.

MET 411. Energy Systems I (5).

Power generation, energy reserves, fuels, reciprocating machines, internal combustion engines, rotating compressors, axial flow turbines, and gas turbine power. Prerequisite: MET 316. Four hours lecture and two hours laboratory per week.

MET 412. Alternative Energy
Systems (5). Comprehensive
overview of alternative energy
technology including societal
issues, energy reserves, fossil,
nuclear, solar, wind, geothermal,
hydrogen and biomass energy
sources, and advanced energy
conversion systems.

MET 418. Mechancial Design I (4). Mechanical design principles including material and device responses to complex loading and optimization of energy system and mechanical drives. Prerequisite: IET 265 and MET 327 and MET 426.

MET 418LAB. Mechanical Design I Laboratory (1). Practical application of mechanical design principles. Lab work includes design and or evaluation of modern mechanical devices, concepts and systems.

Prerequisites: IET 265, MET 327, MET 418, and MET 426.

MET 419. Mechanical Design II
(5). Fasteners, welds, machine frames, pressure vessels, hydraulic cylinders, electrical motors, and actuators.
Prerequisite: MET 418. Four hours lecture and two hours laboratory per week.

MET 420. Finite Element Analysis
(4). Computerized modeling of structural, vibrational, and thermal design problems.
Prerequisites: IET 160 and MET 426. Two hours lecture and four hours laboratory.

MET 423. Computer-aided Design and Manufacturing (4).

Integrates Computer-aided Design (CAD) and Computeraided Manufacturing (CAM). Prerequisites: IET 160, MET 255, and MET 418. Three hours lecture and two hours laboratory per week.

MET 426. Applications in Strength of Materials (4). Topics support stress analysis and design.
Laboratory activities include material strength, hardness, impact testing, strain gage technology, photoelasticity, ultrasonics, and eddy current.
Prerequisites: IET 312 and MET 351.

MET 483. Ceramics and
Composites (4). Composition,
characterization, and
classification of ceramics and
related composite materials
incorporating industrial
applications, processing, and
fabrication. Prerequisites: CHEM
111 and CHEM 111LAB, or
CHEM 181 and CHEM 181LAB.

MET 488. Professional
Certification Exam Preparation
(2). A comprehensive review of professional mechanical engineering principles and technical skills in preparation for the national certification examination. Prerequisite: MET 418. Grade will either be S or U.

MET 495A. Senior Project I (3). The senior project is a capstone course that integrates all the major elements of the MET curriculum in a project related activity. The topic is chosen by the student in concurrence with the instructor and must include elements of planning, design, and analysis (Phase I), construction (Phase II), and test and evaluation (Phase III). Collaboration with representatives of industry, government agencies, or community institutions is encouraged. As an alternative, it will be possible to select a design study for the senior project for all three quarters, providing it is sufficiently comprehensive and approved by the MET advisor. Prerequisite: MET 315. Course must be taken in sequence. May be repeated for credit.

**MET 495B. Senior Project II** (3). The senior project is a capstone

course that integrates all the major elements of the MET curriculum in a project related activity. The topic is chosen by the student in concurrence with the instructor and must include elements of planning, design, and analysis (Phase I), construction (Phase II), and test and evaluation (Phase III). Collaboration with representatives of industry, government agencies, or community institutions is encouraged. As an alternative, it will be possible to select a design study for the senior project for all three quarters, providing it is sufficiently comprehensive and approved by the MET advisor. Prerequisite: MET 495A. Course must be taken in sequence. May be repeated for credit.

#### MET 495C. Senior Project III (3).

The senior project is a capstone course that integrates all the major elements of the MET curriculum in a project related activity. The topic is chosen by the student in concurrence with the instructor and must include elements of planning, design, and analysis (Phase I), construction (Phase II), and test and evaluation (Phase III). Collaboration with representatives of industry, government agencies, or community institutions is encouraged. As an alternative, it will be possible to select a design study for the senior project for all three quarters, providing it is sufficiently comprehensive and approved by the MET advisor. Prerequisite: MET 495B. Course must be taken in sequence. May be repeated for credit.

#### Safety and Health Management Courses

# SHM 201. Introduction to Safety and Health Management (1).

Overview of safety and health management profession, credentials, societies, organizations, application of math and science. Prerequisite: students must be freshmen or sophomore standing.

SHM 321. Agriculture Safety (3). A comprehensive course that covers

the safety and health regulations and practices pertaining to agriculture and the food processing industry.

#### SHM 323. Construction Safety (3).

A comprehensive course that covers the safety and health regulations and practices pertaining to the construction industry.

### SHM 325. Manufacturing Safety (3). A comprehensive course the

(3). A comprehensive course that covers the safety and health regulations and practices pertaining to the manufacturing industry.

#### SHM 327. Research and Laboratory Safety (3). A

comprehensive course that covers the safety and health regulations and practices pertaining to the laboratory and research industry.

#### SHM 351. Incident Analysis (4).

Occupational safety and health legislation (OSHA, Workers' Compensation), anatomy of accidents, incident analysis. Prerequisites: either SHM 321, SHM 323, SHM 325, SHM 327 or permission of instructor and admission to the safety and health major or minor.

#### SHM 352. Systems and Design (4).

Hazard control management, systems and process engineering concepts applied to safety and health management; design for safety principles. Prerequisites: SHM 351 and either MATH 102 or MATH 130.

#### SHM 353. Risk and Insurance (4).

Risk management, insurance, loss control, liability, and legal foundations in safety and health management. Prerequisite: SHM 352.

# SHM 371. Emergency Planning and Preparedness (4). Program

management relating to emergency planning including facility security, workplace violence, emergency response planning, continuity of operations. Prerequisite: SHM

## SHM 373. Industrial Machinery and Process Safety (4). Program

management relating to process design, materials handling, ergonomics, machinery/ equipment, boilers/ pressure vessels, and energy in industrial settings. Prerequisite: SHM 351.

# SHM 375. Transportation and Fleet Safety (4). Program management

Safety (4). Program management relating to fleet safety including transportation systems loss control management, fleet management, and driver safety training. Prerequisite: SHM 351.

#### SHM 377. Hazardous Materials

Management (4). Program management relating to the use of hazardous materials including chemical and physical properties and hazard communication. Prerequisites: SHM 351 and either CHEM 101, CHEM 111/111LAB, or CHEM 181/181LAB.

#### SHM 379. Facility and Building

Safety (4). Program management relating to facility and building safety including fire prevention, accessibility, confined spaces, indoor air quality and ventilation, and walking-working surfaces. Prerequisite: SHM 351.

#### SHM 471. Industrial Hygiene I (4).

The reasons for, benefits of, and activities related to industrial hygiene with a focus upon radiological hazards and physical hazards (including ergonomics). Prerequisite: SHM 353 and BIOL 201.

#### SHM 472. Industrial Hygiene II

(4). Continuation of industrial hygiene practice, biological and chemical hazards, toxicology, indoor air quality, ventilation. Prerequisites: SHM 377 and SHM 471.

# SHM 474. Safety and Health Management Systems (4).

Procedures to internally monitor safety and health management: risk management, loss control, benchmarking, measurement, program evaluation.

Prerequisites: SHM 353, MGT 380, and two of SHM 371, SHM 373, SHM 375, SHM 377, or SHM 379.

#### SHM 475. Management System

Auditing (4). Procedures to externally monitor: auditing, data collection, safety and health management systems, assessment strategies, consulting and contracts. Prerequisites: SHM 474, either SHM 477 or IET 481, and either PSY 456 or MGT 386.

#### SHM 477. Environmental

Management (4). Overview of present and future environmental safety and health issues, environmental management systems. Prerequisites: SHM 353 and 377.

#### SHM 481. Professional Safety

Today (1). Presentations and case studies by practicing safety professionals on contemporary safety and health management topics, and professional networking techniques.

Prerequisite: SHM 353.

# SHM 485. Safety and Health Management Capstone (4).

Senior capstone course addressing ethical considerations and knowledge synthesis. Prerequisites: SHM 353 and 8 units of SHM 471, SHM 472, SHM 474, SHM 475, or SHM 477. By permission.

#### SHM 490. Cooperative Education

(1-12). An individualized

contracted field experience with business, industry, government, or social service agencies. Prerequisites: SHM 352 or SHM

353, and either SHM 371, SHM 373, SHM 375, SHM 377, or SHM 379. May be repeated for credit. Grade will either be S or U. By permission.

SHM 491. Workshop (1-6). SHM 496. Individual Study (1-6). SHM 498. Special Topics (1-6).

SHM 499. Seminar (1-5).

Safety Education Courses SED 298. Special Topics (1-6). SED 382. Driver Task Analysis (3).

Introduction to traffic safety education, the highway transportation system, driver task analysis, classroom instruction techniques. Prerequisite: SED 180.

SED 398. Special Topics (1-6). SED 481. Teaching Traffic Safety Education: Classroom and

#### Simulation Instruction (3).

Methods, materials and techniques for teaching classroom and simulation. Experience in teaching beginning drivers. Prerequisite: SED 382 and current WSP/ FBI fingerprint clearance.

# SED 482. Teaching Traffic Safety Education: In Car (5). Methods, materials and techniques for teaching in dual-control vehicles. Experience teaching beginning drivers. Prerequisite: SED 382 and current WSP/ FBI fingerprint clearance.

# SED 484. Safety Program Supervision (3). Development and management of a total school safety program. Prerequisite: SED 382.

SED 491. Workshop (1-6). SED 496. Individual Study (1-6). SED 498. Special Topics (1-6).

**SED 499. Seminar** (1-5).

#### **English Department**

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 423 509-963-1546 Fax: 509-963-1561

Fax: 509-963-1561 www.cwu.edu/english

See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

George Drake, PhD

#### **Professors**

Laila Abdalla, PhD, English Medieval and Renaissance literature Liahna Armstrong, PhD, American literature, popular culture, film Patricia Callaghan, DA, rhetoric, world literature, English education

Toni Culjak, PhD, American, world and multicultural literature, film

Bobby Cummings, PhD, rhetoric, English education, computer composition

George Drake, PhD, British literature, literary theory

Loretta Gray, PhD, applied linguistics, composition, TESOL

Charles Xingzhong Li, PhD, linguistics, TESOL, linguistic approaches to literature

Teresa Martin, PhD, English education, women's literature

Steven Olson, PhD, American literature, film

Paulus Pimomo, PhD, British literature, post colonial studies

Joseph Powell, MFA, creative writing, modern poetry

Gerald J. Stacy, PhD, English Renaissance literature

Christine A. Sutphin, PhD, Victorian literature, English novel, women's literature

#### **Associate Professors**

Lisa Norris, MFA, creative writing Christopher Schedler, PhD, American and multicultural literature Katharine Whitcomb, MFA, creative writing

#### **Assistant Professor**

Karen Gookin, MA, general education, technical writing

#### **Emeritus Professors**

Philip B. Garrison, MA, non-fiction, poetry writing, world, and Chicano literature Mark W. Halperin, MFA, poetry writing, folk literature, modern poetry Virginia Mack, PhD, general education, Irish literature

John L. Vifian, PhD 18th century literature, English novel

#### Senior Lecturers

Kent DaVault, MA Stephanie Dringenberg, MA Ruthi Erdman, MA Arlo Fleming, MA Patricia Garrison, MA Lila Harper, PhD Karen Hull, MA Marisa Humphrey, MA Robert Schnelle, MA

#### Lecturers

Melissa Brouwer, MA
Shari Foster, MA
Colin Hester, MFA
Lee Honeycutt, PhD
Eugene R. Hutchins, MA
Joseph J.P. Johnson, MA
Melissa Johnson, MA
Anne Joiner, MA (Des Moines)
Kevin Leaverton, MA
Matthew Martinson, MA
Amanda Ross, MA

#### Staff

Theresa Stevens, secretary supervisor Liberty Gibson, office assistant II

#### **Department Information**

The Department of English offers undergraduate and graduate courses in American, British, and world literature, English language and linguistics, English education, film study, and professional and creative writing. The study of English helps students to develop and enhance skills in critical analysis and written and oral communication. English program graduates pursue a variety of careers, including business, education, government, law, publishing, and writing.

#### **Departmental Honors in English**

The honors program in English recognizes the superior scholarship of qualified majors. To qualify for the program, students must have a minimum GPA of 3.4 overall and 3.7 in English and be recommended by three faculty members. In addition to their regular course of study, qualified students complete an individual study course culminating in an honors paper. A student whose honors paper is accepted will graduate with departmental honors in English. For additional details, consult the department website.

#### **Bachelor of Arts in English**

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

#### English Language and Literature Major, BA

The study of literature trains students in reflective reading, theoretically based inquiry, critical analysis, and effective verbal and written expression. Students are taught to analyze literary works as representations of literary genres and in historical and cultural contexts as well as to examine literary influence and explore literature through the lens of critical theory. Majors are expected to complete English 302 and English 303 prior to enrolling in other upper-division major requirements.

#### Required Courses

- ENG 302 Poetry and Poetics Credits: (5)
- ENG 303 Principles of English Studies Credits: (5)
- ENG 320 English Grammar Credits: (5)
- ENG 363 Shakespeare Credits: (5)
- ENG 489 Senior Colloquium Credits: (2)

#### Select two literary forms courses - Credits: 10

- ENG 380 Studies in Drama Credits: (5)
- ENG 453 Studies in Fiction Credits: (5)
- ENG 454 Studies in Nonfiction Credits: (5)
- ENG 455 Studies in Poetry Credits: (5)

#### Select one language and linguistics course- Credits: 5

- ENG 304 English Linguistics **Credits:** (5)
- ENG 423 History of the English Language Credits: (5)

#### Select two literature and history courses - Credits: 10

- ENG 371 Literature and History I **Credits:** (5)
- ENG 372 Literature and History II Credits: (5)
- ENG 373 Literature and History III Credits: (5)
- ENG 374 Literature and History IV Credits: (5)

#### Select one critical studies course - Credits: 5

- ENG 415 Critical Studies in American Literature Credits: (5)
- ENG 417 Critical Studies in World Literature Credits: (5)
- ENG 419 Critical Studies in British Literature Credits: (5)

#### Select two literature and culture courses - Credits: 10

- ENG 330 African American Literature Credits: (5)
- ENG 331 Latina/ o Literature Credits: (5)
- ENG 332 American Indian Literature Credits: (5)
- ENG 333 Asian American Literature **Credits:** (5)
- ENG 334 American Indian Oral and Nonfiction Literature Credits: (5)
- ENG 335 Women's Literature Credits: (5)

#### Department-approved electives - Credits: 10

Select 10 credits of English literature, language, writing or film studies (Elective credits may be taken from any English literature, language, or film studies course at the 300 level or above. No more than 5 credits of film studies may be counted as elective credits in the English language and literature major.)

#### Total Credits: 72

#### English/Language Arts Teaching Major, BA

This major satisfies the endorsement for English/ language arts. Majors must complete the Teacher Certification Program requirements for secondary certification available through the Department of Education Foundations and Curriculum. Majors are expected to complete ENG 302 and ENG 303 prior to enrolling in other upper-division major requirements. English 422, 430, 488 and 492 are required prior to student teaching. English 430, 488 and 492 must be taken concurrently. All other major requirements must be completed before enrollment in or taken concurrently with ENG 488. Enrollment in ENG 488 is by permission.

#### Required Courses

- ENG 222 Multicultural Literature for Teachers Credits: (5)
- ENG 302 Poetry and Poetics Credits: (5)
- ENG 303 Principles of English Studies Credits: (5)

- ENG 304 English Linguistics **Credits:** (5)
- ENG 320 English Grammar Credits: (5)
- ENG 363 Shakespeare Credits: (5)
- ENG 422 Teaching Young Adult Literature **Credits:** (4)

Prerequisite: admission to Teacher Education Program and 15 credits of professional sequence.

- ENG 430 Teaching Writing in the Secondary School Credits: (5)
  - Prerequisite: EDCS 311 and 28 credits in English.
- ENG 488 Teaching Portfolio Credits: (2)

Requires concurrent enrollment in ENG 430 and ENG 492.

• ENG 492 - Practicum Credits: (3)

Requires concurrent enrollment in ENG 430 and ENG 488.

#### Select one literary forms course - Credits: 5

- ENG 380 Studies in Drama Credits: (5)
- ENG 453 Studies in Fiction Credits: (5)
- ENG 454 Studies in Nonfiction Credits: (5)
- ENG 455 Studies in Poetry Credits: (5)

#### Select two literature and history courses - Credits: 10

- ENG 371 Literature and History I Credits: (5)
- ENG 372 Literature and History II Credits: (5)
- ENG 373 Literature and History III Credits: (5)
- ENG 374 Literature and History IV Credits: (5)

#### Select one writing course - Credits: 5

- ENG 263 Introduction to Creative Writing Credits: (5)
- ENG 364 Fiction Writing Credits: (5)
- ENG 365 Poetry Writing Credits: (5)
- ENG 366 Creative Nonfiction Writing Credits: (5)

#### Select one critical studies course Credits: 5

- ENG 415 Critical Studies in American Literature Credits: (5)
- ENG 417 Critical Studies in World Literature Credits: (5)
- ENG 419 Critical Studies in British Literature Credits: (5)

Total Credits: 70

#### **English: Writing Specialization**

The specialization combines a liberal arts background in literature with specialized writing courses in creative writing (fiction, poetry, creative nonfiction, and screenwriting), business writing, professional writing, scientific and technical writing, editing, and publishing. Students in this specialization are expected to complete ENG 301 and ENG 303 prior to enrolling in other upper-division major requirements.

#### Required Courses

- ENG 263 Introduction to Creative Writing Credits: (5)
- ENG 301 Introduction to Professional Writing Credits: (5)
- ENG 302 Poetry and Poetics Credits: (5)
- ENG 303 Principles of English Studies Credits: (5)
- ENG 320 English Grammar Credits: (5)
- ENG 323 Writing and Editing for Publication Credits: (5)
- ENG 489 Senior Colloquium Credits: (2)

#### Approved Writing Electives - Credits: 27

Select 27 credits from a combination of creative writing, professional writing and editing, and practicum courses, at least 2 credits must be practicum credits. At least one 400-level elective class is required.

#### Creative Writing Courses:

- COM 267 Screenwriting Fundamentals Credits: (4)
- COM 357 Scriptwriting for Serial Media Credits: (4)
- COM 367 Narrative Screenwriting Credits: (4)
- COM 457 Narrative Screenwriting II Credits: (5)
- ENG 267 Screenwriting Fundamentals Credits: (4)
- ENG 357 Scriptwriting for Serial Media **Credits:** (4)
- ENG 364 Fiction Writing **Credits:** (5)
- ENG 365 Poetry Writing Credits: (5)
- ENG 366 Creative Nonfiction Writing **Credits:** (5)
- ENG 367 Narrative Screenwriting Credits: (4)
- ENG 368 Multi-Genre Writing Workshop Credits: (5)
- ENG 369 Variable Topics Writing Workshop Credits: (5)
- ENG 464 Advanced Fiction Writing Credits: (5)
- ENG 465 Advanced Poetry Writing Credits: (5)
- ENG 466 Advanced Creative Nonfiction Writing Credits: (5)
- ENG 467 Advanced Narrative Screenwriting Credits: (4)
- ENG 468 Contemporary Writers Colloquium Credits: (5)
- TH 313 Writing for Children's Theatre **Credits:** (3)
- TH 330 Introduction to Playwriting Credits: (4)
- TH 430 Script Writers Workshop Credits: (4)

#### Practicum Courses:

- COM 468 Observer Credits: (1-2)
- ENG 484 Manastash: Literary Editing Credits: (3)
- ENG 485 Manastash: Literary Design and Production Credits: (2)
- ENG 490 Cooperative Education Credits: (1-12)

#### Professional Writing and Editing Courses:

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 201 Media and Culture Credits: (4)
- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 347 Copy Editing Credits: (4)
- COM 348 Publication Design Credits: (4)
- ENG 310 Technical Writing Credits: (4)
- ENG 402 Writing Center Theory and Practice Credits: (1-5)
- ENG 404 Advanced Technical Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 288 Business Presentation Applications Credits: (2)
- LAJ 410 Legal Writing Credits: (4)

Literature, Linguistics, and Film Studies Courses - Credits: 15

Select 15 credits of literature, linguistics, and film studies courses at or above the 300-level. No more than 5 credits of film studies may be counted as elective credits in the Writing Specialization.

Total Credits: 74

#### **Professional Writing Certificate (ENG)**

The professional writing certificate allows students to develop their writing skills for professional and business environments. It is delivered entirely online to serve professionals already working in careers as well as students planning to begin professional or business careers. Students will learn the rhetorical requirements for specific forms of written communication, including letters, memos, reports, proposals, promotional materials, and press releases. They will also learn to edit their own writing for clarity, correctness, and style.

#### Required Courses

- ENG 301 Introduction to Professional Writing Credits: (5)
- ENG 310 Technical Writing Credits: (4)
- COM 347 Copy Editing Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)

Total Credits: 17

#### **Creative Writing Minor**

#### Required Courses

• ENG 302 - Poetry and Poetics Credits: (5)

Select 20 credits of creative writing courses - Credits: 20

- ENG 263 Introduction to Creative Writing Credits: (5)
- ENG 364 Fiction Writing **Credits:** (5)
- ENG 365 Poetry Writing Credits: (5)
- ENG 366 Creative Nonfiction Writing **Credits:** (5)
- ENG 367 Narrative Screenwriting Credits: (4)
- ENG 464 Advanced Fiction Writing Credits: (5)
- ENG 465 Advanced Poetry Writing Credits: (5)
- ENG 466 Advanced Creative Nonfiction Writing Credits: (5)
- ENG 467 Advanced Narrative Screenwriting Credits: (4)
- ENG 468 Contemporary Writers Colloquium Credits: (5)
- TH 313 Writing for Children's Theatre **Credits:** (3)
- TH 330 Introduction to Playwriting Credits: (4)
- TH 430 Script Writers Workshop Credits: (4)

Select one literature course at the 300-level or above - Credits: 5

Total Credits: 30

#### **English Language and Literature Minor**

As with the English major, the English minor trains students in reflective reading, theoretically based inquiry, critical analysis, and effective verbal and written expression. The skills developed in the English minor readily complement a wide variety of majors across the university.

#### Required Courses

- ENG 302 Poetry and Poetics Credits: (5)
- ENG 303 Principles of English Studies Credits: (5)

Department-approved electives - Credits: 20

Select 20 credits of literature or language courses at the 300-level or above.

Total Credits: 30

#### **Linguistics Minor**

The linguistics minor allows students to gain a broader understanding of language and language acquisition. It draws on multiple disciplines and complements a wide range of majors.

#### Required Courses

- ENG 304 English Linguistics **Credits:** (5)
- ENG 320 English Grammar **Credits:** (5)
- ENG 432 Phonetics and Phonology Credits: (5)

• ENG 437 - Pedagogical Grammar and Discourse Credits: (5)

Select 10 credits approved electives from the following or other courses by advisement Credits: 10

- ANTH 180 Introduction to Linguistics Credits: (5)
- ANTH 381 Language in Culture Credits: (4)
- ANTH 382 Descriptive Linguistics Credits: (4)
- ANTH 384 Language and Gender Credits: (4)
- COM 302 Intercultural Communication Credits: (4)
- EDBL 433 Educational Linguistics Credits: (3)
- EDBL 438 Teaching English as a Second Language Credits: (3)
- EDBL 440 Development of Literacy with Linguistically Diverse Students Credits: (3)
- ENG 423 History of the English Language **Credits:** (5)
- ENG 435 Linguistics, Literature, and TESOL Credits: (5)
- ENG 496 Individual Study Credits: (1-6)
- FNLA 481 Methods and Materials for Language Teaching Credits: (4)
- FNLA 482 Second- and Foreign-language Acquisition Credits: (4)
- FNLA 483 Sociolinguistics Credits: (4)

Total Credits: 25

#### English Courses ENG 100T. Transitional English

(4). A study of academic written English with review of sentence and paragraph-level skills, such as word usage, sentence structure, organization, grammar, and mechanics with a reading component to improve comprehension of academic English; students will learn to write unified, coherent paragraphs and short compositions. Credits will not be allowed toward meeting bachelor's degree requirements.

# ENG 101. Composition I: Critical Reading and Responding (4).

Develops skills necessary for academic writing, including summarizing, reading sources critically and responding to them, synthesizing multiple perspectives, and using academic writing conventions. Required of all students except those who have passed an exemption examination. Students must earn a minimum grade of C- or above to enroll in ENG 102. Prerequisite: appropriate test scores or have satisfactorily completed Transitional English. Basic Skills 2 - English Comp I

#### ENG 102. Composition II:

**Reasoning and Research** (4). Develops skills in research-based

academic argument through assignments involving evaluation, analysis, and synthesis of multiple sources. Prerequisite: ENG 101 with a grade of C- or higher. Basic Skills 2 - English Comp II

#### ENG 105. The Literary

Imagination: An Introduction to Literature (5). Human experience as it is imagined, interpreted, and made significant in the poetry, prose, fiction, and drama of the major writers of the world. Prerequisite: ENG 101 with a grade of C- or higher. AH-Literature and Humanities (W)

#### ENG 180. Introduction to

Linguistics (5). Backgrounds, developments, and relation to other fields of study. ANTH 180 and ENG 180 are cross-listed courses; students may not receive credit for both.

# **ENG 222. Multicultural Literature for Teachers** (5). Prospective

secondary English language arts teachers will read and respond to various genres of multicultural/ world literature and develop methods and assignments for teaching texts that invite students to think critically and use evidence to support their viewpoints. Prerequisites: ENG 101, ENG 102, ENG 105 and admission to the english/ language arts teaching major.

#### **ENG 247.** Multicultural Literature

(5). Literary themes examined through the comparison of works from various cultures.

Prerequisite: ENG 101 with a

grade of C- or higher. AH-Literature and Humanities (W)

#### ENG 263. Introduction to Creative

Writing (5). An introduction to the creative writing genres: poetry, fiction, screenwriting, and creative nonfiction. Examines the rhetorical forms and expectations of each in a workshop format.

#### ENG 267. Screenwriting

Fundamentals (4). Introduction to the basic script format, the creative story and style elements, and the writing process steps for screenplays and teleplays. Focus on the narrative script development process from idea conception to first draft. COM 321 recommended, COM 267 and ENG 267 are cross-listed courses, students may not receive credit for both. Prerequisites: ENG 102 and FVS 250, and admission to the communication, english language and literature or film and video studies major.

ENG 296. Individual Study (1-6).

ENG 298. Special Topics (1-6).

**ENG 299. Seminar** (1-5).

ENG 301. Introduction to

**Professional Writing** (5). Study in writing purposes, styles and genres. Prerequisites: ENG 101 and ENG 102.

#### ENG 302. Poetry and Poetics (5).

Offers practice in the interpretive reading of poetry, focusing on the elements of poetry and poetic theory.

ENG 303. Principles of English Studies (5). Provides critical

reading and writing strategies necessary to studies in English; introduces the expectations and requirements of the major.

- ENG 304. English Linguistics (5). Students learn to perform linguistic analysis of aspects of English and to use linguistic concepts to examine literary texts.
- ENG 310. Technical Writing (4). Practice in writing and editing technical reports. Prerequisites: ENG 101, ENG 102, and at least junior standing.
- ENG 320. English Grammar (5). A review of the concepts, terminology, and historical development of traditional grammar, the parts of speech and their functions in sentences, the elements of the sentence, and its various patterns.
- ENG 323. Writing and Editing for Publication (5). This class addresses writing for publication, prepares students with publication strategies, as well as examines what editors look for and what their job entails. Prerequisite: ENG 320.
- ENG 330. African American
  Literature (5). Study of literature
  by African Americans.
- ENG 331. Latina/o Literature (5). Study of literature by Latina/o writers.
- ENG 332. American Indian
  Literature (5). Study of literature
  by American Indians.
- ENG 333. Asian American
  Literature (5). Study of literature
  by Chinese, Japanese, Korean,
  Vietnamese, and other
  Asian/ American writers.
- ENG 334. American Indian Oral and Nonfiction Literature (5). An examination of American Indian oral and nonfiction literature, including myth, legend, oratory, ritual and ceremony, and forms of autobiography, including coup tales, boarding school narratives, etc.
- ENG 335. Women's Literature (5). Examines women's literature in light of contemporary feminist literary theories. Prerequisites: ENG 302 and ENG 303.
- ENG 344. Film Theory and Criticism (5). The study of film as an art form, a technological

system, an industry, and a social force. Prerequisite: FVS 250.

- ENG 347. Global Perspectives in Literature (5). An introduction to contemporary non-western and third world literature.

  Prerequisites: sophomore standing or above and ENG 101 with a grade of C- or higher. AH-Literature and Humanities (W)
- ENG 353. History of Narrative Film (4). A history of the development of narrative film as an art form and cultural medium, with primary focus on Hollywood cinema. ENG 353 and COM 353 are cross-listed courses; students may not receive credit for both. Prerequisite: FVS 250.
- ENG 354. History of Television (4). Historical survey of television as an entertainment, information, and art medium. Emphasis on understanding the cultural, social, political, technological, and economic conditions of production; the examination of television as text itself; and TV's impact on audiences. ENG 354 and COM 354 are cross-listed courses; students may not receive credit for both. Prerequisites: either COM 201 or FVS 250.
- ENG 355. History of Documentary
  (4). Survey of documentary
  history from 1895 to present.
  Focus on philosophy of
  documentary approach, overview
  of the most important topics and
  issues, and development of
  critical standards in the genre.
  ENG 355 and COM 355 are crosslisted courses; students may not
  receive credit for both.
  Prerequisites: COM 201 or FVS
  250.
- ENG 357. Scriptwriting for Serial Media (4). Scriptwriting for the basic genres of serial television and the web. Includes study of serial script, structure, story, character development, and dialog. COM 357 and ENG 357 are cross-listed classes, students may not receive credit for both. Prerequisites: COM 267 or ENG 267 and admission to the communication, english language and literature or film and video studies major. N Graded No Special Consent Required

- ENG 360. World Cinema (5). An overview of world cinema, with attention to the national film cultures of important film-producing countries (such as India, France, Japan), and a comparison of international films with mainstream Hollywood cinema.
- ENG 363. Shakespeare (5).

  Intensive study of selected
  Shakespeare plays and poetry.
  May be repeated under a
  different subtitle. Prerequisites:
  ENG 302 and ENG 303 and
  admission to the english major or
  minor. May be repeated for 10
  credits.
- ENG 364. Fiction Writing (5). An introduction to the varieties of literary fiction being written today, the techniques and strategies for writing fiction, as well as developing criteria for evaluating the effectiveness of student stories. Prerequisite: ENG 263.
- ENG 365. Poetry Writing (5). A workshop that introduces the varieties of forms, styles, voices, and strategies for writing poetry. Emphasizes reading professional models and the development and application of criteria for evaluating and revising poems. Prerequisite: ENG 263.
- ENG 366. Creative Nonfiction
  Writing (5). A workshop that
  considers the varieties and forms
  of the creative essay and its
  historical evolution. Emphasizes
  reading professional models, the
  uses of research, and the
  development and application of
  criteria for evaluating and
  revising essays. Prerequisite:
  ENG 263.
- ENG 367. Narrative Screenwriting
  (4). Writing screenplays in
  combination with the study of
  models and techniques. COM 367
  and ENG 367 are cross-listed
  courses; students may not receive
  credit for both. Prerequisites:
  COM 201 or FVS 250.
- ENG 368. Multi-Genre Writing Workshop (5). This online class will build creative writing skills in fiction writing, poetry writing, and creative nonfiction writing through writing exercises, reading of focused examples of

published work, and individual and group workshops using discussion board. Prerequisite: ENG 263.

ENG 369. Variable Topics Writing Workshop (5). A workshop focusing on a specific genre or topic in creative writing.

Emphasizes reading professional models and the development and application of criteria for evaluating and revising texts appropriate to the topic.

Prerequisite: ENG 263. May be repeated for up to 10 credits under a different subtitle.

# **ENG 371. Literature and History I** (5). Historical and critical studies

(5). Historical and critical studies in literature from the classical era through the Renaissance. May be repeated under a different subtitle. Prerequisites: ENG 302 and ENG 303, and admission to the english major or minor. May be repeated up to 10 credits.

ENG 372. Literature and History II

(5). Historical and critical studies in literature from the mid-17th century through the mid-19th century. May be repeated under a different subtitle. Prerequisites: ENG 302 and ENG 303, and admissions to the english major or minor. May be repeated up to 10 credits.

#### ENG 373. Literature and History

III (5). Historical and critical studies in literature from the nineteenth century through the mid-twentieth century. May be repeated under a different subtitle. Prerequisites: ENG 302 and ENG 303, and admissions to the english major or minor. May be repeated up to 10 credits.

#### ENG 374. Literature and History

IV (5). Historical and critical studies in literature from the 20th century through the present. May be repeated under different subtitle. Prerequisite: ENG 302 and ENG 303, and admissions to the english major or minor. May be repeated up to 10 credits.

#### ENG 380. Studies in Drama (5).

Intensive study of representative examples of drama. ENG 380 and TH 380 are cross-listed courses; students may not receive credit for both. Prerequisites: ENG 302 and ENG 303. May be repeated up to 15 credits.

**ENG 391. Workshop** (1-5). May be repeated for credit.

ENG 398. Special Topics (1-6). ENG 402. Writing Center Theory

and Practice (1-5). Explore the benefits and techniques of one-on-one peer consulting. Study language skills and improve understanding of writing in various genres, contexts, and cultures. Consult with student writers in the University Writing Center, observing others consultations, reflecting, and improving one-on-one skills. Prerequisite: ENG 102 with a grade of B or higher. May be repeated for credit.

ENG 404. Advanced Technical Writing (5). Practice in designing, constructing, evaluating, and testing technical documents for specific purposes and

specific purposes and organizational cultures. Prerequisite: ENG 310.

#### ENG 415. Critical Studies in

American Literature (5). Intensive study of a group of texts focused by theme, author, theoretical approach, or social and historical context.. Prerequisites: ENG 302 and ENG 303, and admissions to english major or minor. May be repeated for credit under different subtitle.

ENG 417. Critical Studies in World Literature (5). Intensive study of a group of texts focused by theme, author, theoretical approach, or social and historical context. Prerequisites: ENG 302 and ENG 303, and admissions to english major or minor. May be repeated for credit under a different subtitle.

#### ENG 418. Literary and Critical

**Theory** (5). An investigation of the theory and practice of various critical perspectives and strategies as they inform the study of literary texts.

Prerequisites: ENG 302 and ENG 302

#### ENG 419. Critical Studies in

British Literature (5). Intensive study of group texts focused by theme, author, theoretical approach, or social and historical context. Prerequisites: ENG 302 and ENG 303, and admissions to English major or minor. May be

repeated for credit under a different subtitle.

ENG 422. Teaching Young Adult
Literature (4). A study of
literature written for middle-level
and early-high-school students.
Prerequisite: ENG 302, ENG 303,
15 credits from any combination
of EDF 302, EFC 310, EDCS 300,
300.A, 424, 431, 444, PSY 314, 315,
or EDCS/ BSED 316, and
admission to the Teacher
Certification Program. This class
is required prior to student
teaching.

#### ENG 423. History of the English Language (5). In this course, students examine the systematic, evolutionary nature of language by focusing on the development

of the English language.

ENG 430. Teaching Writing in the Secondary School (5). Theory into practice seminar on teaching writing, including writing process strategies, content pedagogy, instructional planning, assessment, best practices, and standards-based instruction. Prerequisites: EDCS 311, 28 credits in English, and current WSP/FBI fingerprint clearnance. Co-requisites: ENG 488 and ENG

#### ENG 432. Phonetics and

**Phonology** (5). Study of English phonetics and phonology as well as pronunciation pedagogy. Prerequisites: ENG 304 and ENG 320.

#### ENG 434. Discourse Analysis (4). Linguistic approaches to literature with an emphasis on

literature with an emphasis on poetry and prose. Prerequisite: ENG 304.

ENG 435. Linguistics, Literature, and TESOL (5). Linguistic approaches to literature with an emphasis on poetry and prose. Prerequisites: ENG 304 and ENG 320

# **ENG 437. Pedagogical Grammar and Discourse** (5). Study of

English grammar, grammar instruction, and discourse analysis. Prerequisites: ENG 304 and ENG 320.

#### ENG 453. Studies in Fiction (5).

Extensive reading and analysis of prose fiction. May be repeated under a different subtitle.

Prerequisites: ENG 302 and ENG

303, and admissions to english major or minor. May be repeated up to 15 credits.

### ENG 454. Studies in Nonfiction (5) Extensive reading and

(5). Extensive reading and analysis of literary nonfiction. Prerequisites: ENG 302, ENG 303, and admission to an english major or minor. May be repeated under a different subtitle.

# ENG 455. Studies in Poetry (5). Intensive study of representative example of poetry. Prerequisites: ENG 302 and ENG 303, and admissions to english major or minor. May be repeated up to 15 credits.

ENG 461. Studies in Film and
Culture (5). A critical
examination of how American
films both construct and
appropriate images of American
racial, ethnic, and cultural
minorities. Course explores
images of minorities created by
the dominant culture from silent
film era to contemporary movies
and compares these constructions
to those created by minority
filmmakers. May be repeated for
credit.

ENG 462. Studies in Film and/or Television Genres (5). An examination of a film and/or television genre: history, aesthetics, cultural context, social significance, and critical methodologies. Prerequisite: FVS 250. May be repeated for credit.

#### ENG 463. Studies in the Film

Auteur (5). In-depth examination of the major cinematic works of a selected auteur director, such as Hitchcock, Chaplin, Kurosawa, W. Allen, Zhang Yimou, etc., with attention to major stylistic and thematic practices.

Prerequisite: FVS 250. May be repeated for credit.

ENG 464. Advanced Fiction

Writing (5). Intensive workshop further developing the techniques of writing literary fiction: weaving together character development, plot, dialogue, exposition, setting, and thematic structure. Emphasizes the development of criteria for evaluating and improving literary fiction, as well as reading professional models to learn technique. Prerequisite: ENG 364.

#### ENG 465. Advanced Poetry

Writing (5). Intensive workshop further examining the genres within poetry, as well as experimenting with forms, discursive structures, and voice; revising for economy and precision; exploring metrical effects. Prerequisite: ENG 365.

ENG 466. Advanced Creative
Nonfiction Writing (5). Intensive
workshop further developing the
techniques of writing creative
nonfiction: researching, editing,
assimilating features of fiction
and poetry, and experimenting
with structure, voice, and style.
Reading professional models to
learn technique. Prerequisite:
ENG 366.

ENG 467. Advanced Narrative
Screenwriting (4). Intensive
workshop oriented toward
techniques for creating or
rewriting an original or adapted
script for film/ TV. Emphasizes
narrative development, detailed
script analysis and character
motivation. Creation of a featurelength script for film or TV using
the craft of the screenwriter to
convey mood, energy, character,
structure, and intent.
Prerequisites: either COM 309 or
ENG 367.

ENG 468. Contemporary Writers
Colloquium (5). Genre specific seminar (poetry or fiction) with writing workshop element, featuring a schedule of visiting writers. Students will read work by visiting writers, develop critical thinking about craft, attend readings, explore contemporary publishing issues, and write both analytical papers and creative work. Prerequisites: ENG 364 or ENG 365. May be repeated up to 16 credits.

#### ENG 480. Survey of Linguistics (4).

Linguistic concepts and the relation between linguistics and other fields of study. Open to seniors and graduate students only. ANTH 480 and ENG 480 are cross-listed courses; students may not receive credit for both. Prerequisite: senior standing.

ENG 484. Manastash: Literary Editing (3). Students will select and edit manuscripts for publication in the Manastash Literary Journal. Prerequisites: ENG 301 and ENG 303. May be repeated up to 6 credits.

# ENG 485. Manastash: Literary Design and Production (2). Students will select and edit manuscripts for publication in, as well as design and construct, the Manastash literary journal. Prerequisites: ENG 301 and ENG 303. May be repeated up to 4 credits.

# ENG 488. Teaching Portfolio (2). Students prepare an end-of-program E-Portfolio which illustrates their mastery of major program and professional sequence competencies. Prerequisite: current WSP/FBI fingerprint clearance, and admission to the Teacher Certification Program. Grade will either be S or U.

ENG 489. Senior Colloquium (2).
Students prepare an end-of-major portfolio which illustrates their competence in interpreting and composing. Prerequisite: 48 credits of english courses. Grade will either be S or U.

# ENG 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. Requires a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval. May be repeated for a total of 12 credits. Grade will be either S or U.

**ENG 491. Workshop** (1-10). May be repeated for credit.

ENG 492. Practicum (3). Practicum accompanying intensive training in the pedagogy of writing presented in ENG 430. Students connect teaching, learning, and assessment strategies to current research and practice and apply ELA endorsement competencies to specific learning situations. Prerequisites: EDCS 311, 28 credits in English, and current WSP/ FBI fingerprint clearance. Co-requisite: ENG 430 and ENG 488. Grade will either be S or U.

ENG 496. Individual Study (1-6). ENG 498. Special Topics (1-6). ENG 499. Seminar (1-5).

#### **Environmental Studies Program**

College of the Sciences Ellensburg Science 207D 509-963-2164 Fax: 509-963-1050

www.cwu.edu/environmental

See website for how this program may be used for educational and career purposes.

#### Director

Anne Johansen, PhD

#### **Program Information**

The Environmental Studies Program at CWU was established over 30 years ago to provide an interdisciplinary approach to the study of environmental issues. The program is administered through the College of the Sciences and has options for both a major (BS) in five areas of specialization and two minors, including a minor in energy studies. The program core features team-taught courses including General Education courses that are taught by faculty from multiple disciplines.

#### **Bachelor of Science**

#### **Environmental Studies Major**

The major in environmental studies provides students with an understanding of the natural science of environmental issues as well as the social, political, and economic factors that contribute to policy and planning decisions. Through this major, students will gain the necessary professional and technical skills for entry into successful environmental careers or for graduate studies in environmental fields. The major offers five specialization options in environmental biology, environmental chemistry, environmental geology, environmental geography, and environmental policy.

#### Requirements for Major (BS) in Environmental Studies

The requirements for the major in environment studies have three parts:

- Foundational courses in supporting disciplines. Some of these courses also serve as prerequisites for courses within
  the specializations. These foundational courses must be completed before students take ENST 304
- A core requirement consisting of six interdisciplinary ENST courses, two upper-level electives, and a capstone experience outside of the classroom (research, internship, service learning, or study abroad)
- A specialization consisting of 6-9 courses that focus on one area of study

#### Requirements for a double major with BS in environmental studies

The following double major combinations will have the environmental studies specialization course requirements waived for the BS degree in environmental studies; all environmental studies foundation and core course requirements must be completed. Required courses for the first degree major may not be used to fulfill upper-division environmental studies elective requirements (7-10 credits).

Bachelor Degree (Disciplinary)
Bachelor Degree (Environmental Studies)

BS Environmental Geological Sciences

BS Environmental Studies: Environmental Geology Specialization

BS Biology

BS Environmental Studies: Environmental Biology Specialization

BS Chemistry

BS Environmental Studies: Environmental Chemistry Specialization

BS Public Policy

BS Environmental Studies: Environmental Policy Specialization

The interdisciplinary major in public policy (BS) may be combined with the environmental studies specialization in environmental policy by completing the specific course requirements for both majors. Students who combine majors in public

policy and environmental studies with a specialization in environmental policy will receive a bachelor of science degree in public policy and a bachelor of science degree in environmental studies. As some public policy requirements and electives count toward both degrees or majors, the actual additional coursework needed to fulfill the requirements of the second degree or major may be as low as 19 credits.

Students may complete more than one specialization within the environmental studies major. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique means the credits have not been used as part of any other environmental studies specialization.

#### Foundational Courses (Required)

BIOL 101/101LAB-Fundamentals of Biology OR BIOL 181/181LAB - General Biology I OR BIOL 200 - Plants in the Modern World 5 CHEM 101/101LAB - Contemporary Chemistry OR CHEM 111/111LAB - Introduction to Chemistry OR CHEM 181/181LAB - General Chemistry I 5 GEOG 101 - World Regional Geography OR GEOG 107 - Introduction to Physical Geography OR GEOL 101/101LAB - Physical Geology OR GEOL 102/102LAB - Geology of National Parks OR GEOL 108 - Introduction to Environmental Geology 5 ANTH 130 - Introduction to Cultural Anthropology OR GEOG 108 - Introduction to Human Geography 5 ECON 101 - Economic Issues OR ECON 201 - Principles of Economics Micro 5 **Total Foundation Credits: 25** 

#### **Environmental Studies Major, BS**

The major in environmental studies provides students with an understanding of the natural science of environmental issues as well as the social, political, and economic factors that contribute to policy and planning decisions. Through this major, students will gain the necessary professional and technical skills for entry into successful environmental careers or for graduate studies in environmental fields. The major offers five specialization options in environmental biology, environmental chemistry, environmental geology, environmental geography, and environmental policy.

#### Requirements for Major (BS) in Environmental Studies

The requirements for the major in environment studies have three parts:

- Foundational courses in supporting disciplines. Some of these courses also serve as prerequisites for courses within the specializations. These foundational courses must be completed before students take ENST 304
- A core requirement consisting of six interdisciplinary ENST courses, two upper-level electives, and a capstone experience outside of the classroom (research, internship, service learning, or study abroad)
- A specialization consisting of 6-9 courses that focus on one area of study

#### Requirements for a double major with BS in environmental studies

The following double major combinations will have the environmental studies specialization course requirements waived for the BS degree in environmental studies; all environmental studies foundation and core course requirements must be completed. Required courses for the first degree major may not be used to fulfill upper-division environmental studies elective requirements (7-10 credits).

Bachelor Degree (Disciplinary)
Bachelor Degree (Environmental Studies)

BS Environmental Geological Sciences

BS Environmental Studies: Environmental Geology Specialization

BS Biology

BS Environmental Studies: Environmental Biology Specialization

BS Chemistry

BS Environmental Studies: Environmental Chemistry Specialization

#### BS Public Policy

#### BS Environmental Studies: Environmental Policy Specialization

The interdisciplinary major in public policy (BS) may be combined with the environmental studies specialization in environmental policy by completing the specific course requirements for both majors. Students who combine majors in public policy and environmental studies with a specialization in environmental policy will receive a bachelor of science degree in public policy and a bachelor of science degree in environmental studies. As some public policy requirements and electives count toward both degrees or majors, the actual additional coursework needed to fulfill the requirements of the second degree or major may be as low as 19 credits.

Students may complete more than one specialization within the environmental studies major. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique means the credits have not been used as part of any other environmental studies specialization.

#### Foundational Courses (Required)

#### Chose one from:

- BIOL 101 Fundamentals of Biology Credits: (5)
- BIOL 181 General Biology I Credits: (5)
- BIOL 200 Plants in the Modern World Credits: (5)

#### Choose one from:

- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)

#### Choose one from:

- GEOG 101 World Regional Geography Credits: (5) OR
- GEOL 101 Physical Geology Credits: (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1) OR
- GEOL 102 Geology of National Parks Credits: (4) OR
- GEOL 107 Volcanoes, Earthquakes, and Civilization Credits: (5) OR
- GEOL 108 Introduction to Environmental Geology Credits: (5)

#### Choose one from:

- ANTH 130 Introduction to Cultural Anthropology Credits: (5) OR
- GEOG 108 Introduction to Human Geography Credits: (5)

#### Choose one from:

- ECON 101 Economic Issues Credits: (5) OR
- ECON 201 Principles of Economics Micro Credits: (5)

#### Total Foundation Credits: 25

#### Core Courses (Required)

- ENST 201 Earth as an Ecosystem Credits: (5) OR
- ENST 202 Ecosystems, Resources, Population, and Culture Credits: (5) and
- ENST 210 Global Environment from a Local Perspective Credits: (4)
- ENST 303 Environmental Management Credits: (5)
- ENST 304 Environmental Methods and Analysis Credits: (5)

- ENST 330 Environmental Leadership and Advocacy Credits: (5) OR
- ENST 455 Environmental Literature Credits: (3) and
- ENST 444 Environmental Policy Formulation Credits: (4)

#### Choose one from:

- ENST 490 Cooperative Education Credits: (1-12) OR
- ENST 495 Senior Research Credits: (3-5)OR other Senior Research
- UNIV 309 Civic Engagement Credits: (2) OR Study Abroad

Upper-level electives Credits: 7-10

Select two of the following courses. These courses cannot be used to fulfill specialization requirements:

- ANTH 398 Special Topics Credits: (1-6)
- ANTH 440 Ecology and Culture Credits: (4) OR
- GEOG 440 Ecology and Culture Credits: (4) and
- ANTH 498 Special Topics Credits: (1-6) OR
- GEOG 498 Special Topics Credits: (1-6) and
- BIOL 302 Human Ecology Credits: (5)
- BIOL 362 Biomes of the Pacific Northwest Credits: (4)
- CMGT 452 LEED in Sustainable Construction Credits: (4)
- ECON 462 Environmental and Resource Economics Credits: (5)
- ENST 310 Energy and Society Credits: (5)
- GEOG 303 Introductory GIS Credits: (5)
- GEOG 250 Natural Resource Conservation Credits: (4)
- GEOG 442 Alternative Energy Resources and Technology Credits: (5) OR
- IET 442 Alternative Energy Resources and Technology Credits: (5) OR
- GEOG 448 Geographic Approaches to Environmental Resource Analysis Credits: (5)
- GEOL 302 Oceans and Atmosphere Credits: (4)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- HIST 454 American Environmental History Credits: (5)
- PHIL 306 Environmental Ethics **Credits:** (5)

Total Core Credits: 37-44

Select one of the following specializations:

Environmental Biology Specialization Credits: 33-34

BIOL 181 and CHEM 181/181LAB are required as foundational courses for this specialization.

- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 360 General Ecology Credits: (5)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

#### Choose one field course from: 4-5

- BIOL 362 Biomes of the Pacific Northwest **Credits:** (4)
- BIOL 377 Regional Natural History **Credits:** (2)
- BIOL 377LAB Regional Natural History **Credits:** (3)
- BIOL 462 Wildlife and Fisheries Ecology Credits: (5)
- BIOL 463 Limnology **Credits:** (5)

- BIOL 464 Terrestrial Plant Ecology Credits: (5)
- BIOL 466 Conservation Biology **Credits:** (5)
- BIOL 467 Biological Field Techniques **Credits:** (5)

Environmental Chemistry Specialization Credits: 30

CHEM 181/181LAB is required as a foundational course for this specialization.

- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- CHEM 332 Quantitative Analysis Credits: (3)
- CHEM 345 Environmental Chemistry **Credits:** (5)
- MATH 154 Pre-calculus Mathematics II Credits: (5)

#### Select one from the following: 5

- BIOL 220 Introductory Cell Biology **Credits:** (5)
- BIOL 322 Introductory Microbiology Credits: (5)
- CHEM 452 Instrumental Analysis Lecture Credits: (3) and
- CHEM 452LAB Instrumental Analysis Laboratory Credits: (2)
- GEOL 425 Environmental Geochemistry Credits: (5)

Environmental Geology Specialization Credits: 32-33

GEOL 101 or GEOL 102 or GEOL 108 is required as a foundational course for this specialization.

- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 302 Oceans and Atmosphere **Credits:** (4)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- GEOL 386 Geomorphology **Credits:** (5)
- GEOL 445 Hydrogeology **Credits:** (5)
- MATH 154 Pre-calculus Mathematics II Credits: (5)

#### Choose one field course from: 4-5

- GEOL 210 Introduction to Geologic Field Methods Credits: (4)
- GEOL 377 Regional Natural History Credits: (2)
- GEOL 377LAB Regional Natural History Credits: (3)
- GEOL 410 Snow Sciences: The Physics of Avalanches Credits: (4)

Environmental Geography Specialization Credits: 30

GEOG 107 is required as a foundational course for this specialization.

Choose three of the following physical geography courses. Credits: 15

- GEOG 361 Soils Credits: (5)
- GEOG 386 Geomorphology **Credits:** (5)
- GEOG 382 Hydrology Credits: (5)
- GEOG 388 Climatology Credits: (5)
- GEOG 387 Biogeography Credits: (5)
- GEOG 453 Riparian and Wetlands Analysis Credits: (5)

Choose two of the following techniques courses. Credits: 10

- GEOG 303 Introductory GIS Credits: (5)
- GEOG 409 Quantitative Methods in Geography Credits: (5)

- GEOG 410 Airphoto Interpretation Credits: (5)
- GEOG 430 Remote Sensing Credits: (5)

Choose one of the following courses. Credits: 5

- GEOG 450 Arid Environments Credits: (5)
- GEOG 451 Mountain Environments **Credits:** (5)
- GEOG 452 Coastal Environments **Credits:** (5)
- GEOG 479 Geography of the West **Credits:** (1-12)

Environmental Policy Specialization Credits: 38-40

ECON 201 is required as a foundation course.

- POSC 320 Public Administration Credits: (5)
- POSC 325 Introduction to Public Policy Credits: (3)
- POSC 429 Research Seminar in Public Policy Credits: (3)
- ECON 462 Environmental and Resource Economics Credits: (5)
- GEOG 445 Natural Resources Policy Credits: (4)

Select one of the following research tools courses:

- BUS 221 Introductory Business Statistics Credits: (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- PSY 362 Introductory Statistics Credits: (5)
- SOC 364 Data Analysis in Sociology Credits: (5)

Select two of the following courses:

- GEOG 303 Introductory GIS Credits: (5)
- GEOG 305 Introduction to Land Use Planning Credits: (5)
- GEOG 346 Political Geography Credits: (4)
- GEOG 373 Water Resources Credits: (4)
- GEOG 442 Alternative Energy Resources and Technology Credits: (5)
- GEOG 440 Ecology and Culture Credits: (4) OR
- ANTH 440 Ecology and Culture Credits: (4)
- GEOG 443 Energy Policy Credits: (5)
- GEOG 448 Geographic Approaches to Environmental Resource Analysis Credits: (5)
- GEOG 481 Urban Geography **Credits:** (5)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- HIST 454 American Environmental History Credits: (5)
- PHIL 306 Environmental Ethics **Credits:** (5)
- POSC 318 Political Parties and Interest Groups Credits: (5)
- SOC 338 Political Sociology Credits: (5)
- SOC 380 Social Ecology Credits: (5)

Total Credits: 90-109

#### **Energy Studies Minor**

Students interested in investigating energy issues are encouraged to pursue the following interdisciplinary minor which provides:

- 1. An introduction to the technical concepts and language relevant to energy.
- 2. An investigation of current and projected energy use patterns and their associated environmental conflicts.
- 3. A study of the legal, institutional and economic factors that influence energy policy.

With the approval of the director of energy studies, the student will select appropriate electives to meet personal and professional goals.

- ENST 310 Energy and Society Credits: (5)
- GEOG 442 Alternative Energy Resources and Technology **Credits:** (5) OR IET 442 Alternative Energy Resources and Technology (5)
- GEOG 443 Energy Policy Credits: (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)

#### Select one of the following - Credits: 5

- ECON 101 Economic Issues Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- IET 101 Modern Technology and Energy Credits: (5)

#### Select one from the following - Credits: 4-5

- CMGT 452 LEED in Sustainable Construction Credits: (4)
- ECON 462 Environmental and Resource Economics Credits: (5)
- SCED 301 Interdisciplinary K-8 Science Inquiry Credits: (5)

#### Select 2 credits of Cooperative Education - Credits: 2

- BIOL 490 Cooperative Education Credits: (1-12)
- ENST 490 Cooperative Education **Credits:** (1-12)
- GEOG 490 Cooperative Education Credits: (1-12)
- IET 490 Cooperative Education **Credits:** (1-12)

Total Credits: 31-32

#### **Environmental Studies Minor**

The environmental studies minor is designed primarily to serve undergraduate education and environmental literacy. Research and graduate education, and community education and service are other goals. Top priority is given to providing a large number of students with the opportunity to assess the nature, scope, and complexities of present and impending environmental problems. Other objectives include the provision of public education programs on environmental issues and the stimulation of interdisciplinary research on environmental problems. The development of expertise as an environmental specialist requires specialized work which can be pursued through the environmental studies major.

#### Required Courses

- ENST 201 Earth as an Ecosystem Credits: (5) OR
- ENST 202 Ecosystems, Resources, Population, and Culture Credits: (5)
- ENST 303 Environmental Management Credits: (5)

#### Select two from the following courses: Credits 7-10

- ENST 304 Environmental Methods and Analysis Credits: (5)
- ENST 310 Energy and Society Credits: (5)
- ENST 330 Environmental Leadership and Advocacy Credits: (5)
- ENST 444 Environmental Policy Formulation **Credits:** (4)
- ENST 455 Environmental Literature **Credits:** (3)

Department-approved elective Credits: 3-5

Total Credits: 25-30

#### Additional Information

Students choosing environmental studies minor will propose an upper-division elective course in consultation with, and subject to, the pre-approval of the ENST Director. This elective course must be taken for a grade and be in a department outside the student's major. The following courses, however, will automatically be accepted without pre-approval provided they meet the other elective requirements: any other ENST course, ANTH/ GEOG 440, BIOL 360, ECON 462, GEOG 445, HIST 454, SOC 380, POSC 320, or CHEM 345.

The minor requires that students finish with a minimum 2.0 GPA for their 25-30 program credits, and students must also earn at least a C- in each of the six courses that comprise their ENST program.

# **Environmental Studies Courses ENST 201. Earth as an Ecosystem**

(5). Introduction to the concept of our planet as a finite environment with certain properties essential for life. The dynamic nature of the earth's physical, chemical, geological, and biological processes and their interrelated "systems" aspects furnishes the thrust of this treatment. NS-

Patterns&Connection Natural

ENST 202. Ecosystems, Resources, Population, and Culture (5). The physical and cultural dimensions of environmental problems with particular emphasis given to the interaction between ecosystems, basic resources, population dynamics, and culture. NS-Application Natural Science

## ENST 210. Global Environment from a Local Perspective (4).

Students will collect, analyze, and synthesize original field data in natural and social sciences on environmental issues relevant to global and local communities. Prerequisites: ENST 201 or ENST 202.

# ENST 298. Special Topics (1-6). ENST 303. Environmental

Management (5). Development of attitudes and perceptions of our environment. Examination of the economic, political, and legal mechanisms and philosophical perspectives useful in managing the environment. Prerequisites: ENST 201 or ENST 202.

# ENST 304. Environmental Methods and Analysis (5).

Introduction to qualitative and quantitative methods in the social and natural sciences with emphasis on practical application to a variety of examples in the environment. Prerequisite: ENST 210

#### ENST 310. Energy and Society (5).

Through classroom and field experience, students will examine society's use of, and dependence upon, energy. Students will become more discerning citizens, able to take part in local, national, and global energy discussions. Prerequisite: sophomore standing or above. NS-Application Natural Science (W)

# ENST 330. Environmental Leadership and Advocacy (5).

Examines environmental groups, leadership models, and methods of environmental advocacy. Prerequisite: junior standing or above

# ENST 398. Special Topics (1-6). ENST 444. Environmental Policy

Formulation (4). Students will work together in interdisciplinary teams to formulate and justify policy measures they think appropriate to meet some environmental problem investigated. Prerequisites: ENST 201 or ENST 202, and ENST 303.

#### **ENST 455. Environmental**

**Literature** (3). Survey of literary works that thematically explore human relationships with place

and environment. Sampling of various themes and genres, with a focus on Pacific Northwest.

#### ENST 460. Environmental Law (5).

Introduction to the content of U.S. environmental law and the principal legal approaches to deal with environmental problems including common-law, statutory, regulatory, and economic-incentive systems. Prerequisite: junior standing or above.

#### ENST 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

**ENST 491. Workshop** (1-6). May be repeated for credit.

#### ENST 495. Senior Research (3-5).

Independent student research in environmental studies project under supervision of faculty sponsor. May be repeated for credit up to 12 credits. By permission.

ENST 496. Individual Study (1-6). ENST 498. Special Topics (1-6). ENST 499. Seminar (1-5).

#### **Ethnic Studies Program**

College of the Sciences Ellensburg Farrell Hall, room 440 509-963-1305

#### **Program Director**

Nelson Pichardo, PhD, Sociology

#### **Ethnic Studies Minor**

Ethnic studies is a discipline that incorporates the social sciences and the humanities to explore the comparative approaches to the study of minority groups in the United States. The central mission of an ethnic studies program is to increase the understanding of racial and cultural diversity of American society and the dynamics of interethnic relationships. At the University the ETS program is interdisciplinary, offering courses from other disciplines with a core in ethnic studies. In addition to the minor program, it provides important services to teacher preparation and general education requirements.

#### Required Courses

- ETS 101 Ethnic Awareness Credits: (5)
- ETS 354 Minority Experiences Credits: (5) OR
- SOC 365 Minority Groups Credits: (5)
- SOC 386 Seminar on Racism Credits: (5)

#### Subtotal Credits: 15

Approved Electives Credits: 9-15

- AIS 101 Pre-contact Period of American Indians, Pre-AD 1492 Credits: (5)
- AIS 102 Contact Period of American Indians Credits: (5)
- AIS 103 Emergence of Contemporary American Indians Credits: (5)
- ANTH 341 Native American Cultures of the Pacific Northwest Credits: (4)
- ANTH 342 Hispanic Cultures of the Western U.S. Credits: (4)
- ANTH 347 Native American Cultures of North America Credits: (4)
- ANTH 355 Culture, Person, Self Credits: (4)
- ANTH 356 Gender Roles in Cross-cultural Perspective Credits: (4)
- COM 302 Intercultural Communication Credits: (4)
- ENG 247 Multicultural Literature Credits: (5)
- ENG 330 African American Literature Credits: (5)
- ENG 331 Latina/ o Literature Credits: (5)
- ENG 332 American Indian Literature Credits: (5)
- ENG 333 Asian American Literature **Credits:** (5)
- ENG 334 American Indian Oral and Nonfiction Literature Credits: (5)
- PHIL 320 American Indian Philosophy Credits: (5)
- PHIL 357 Race, Class, and Gender: Philosophical Perspectives Credits: (5)
- RELS 320 American Indian Spirituality Credits: (5)
- SOC 305 American Society Credits: (5)
- SOC 354 Minority Experience Credits: (5)
- SOC 356 Sociology of Gender Credits: (5)
- SOC 366 Sociology of American Indians Credits: (5)
- SOC 445 Social Inequality Credits: (5)
- TH 382 Ethnic Drama Credits: (4)

Ethnic Studies Courses Credits: 3-6

Total Credits: 27-36

### Ethnic Studies Courses ETS 101. Ethnic Awareness (5).

Awareness and understanding of the problems facing the American people in the area of race and ethnic relations, primarily focusing on ethnic minorities. The nature and scope of relationships between minority groups and the majority in the United States. SB1 S&B-Perspectives on U.S. (W)

ETS 296. Individual Study (1-6). ETS 298. Special Topics (1-6).

ETS 299. Seminar (1-5).

ETS 311. The Asian American (3).

An overview of demographics, history, cultures, and experiences

of Asian Americans in the U.S. society. Prerequisite: ETS 101.

#### ETS 350. Survey of Chicano

Studies (5). A historical, economic, and political survey of the Chicano experience in the U.S. from 1540 to the present with regional emphasis on the American Southwest.

#### ETS 354. Minority Experiences (5).

Explanations will be identified for institutional racism common to the history and character of American minorities. ETS 354 and SOC 354 are cross-listed courses; students may not receive credit for both.

ETS 398. Special Topics (1-6).

#### ETS 490. Contracted Field

Experience (1-12). An educational plan designed to integrate classroom study with planned, supervised, and evaluated employment experience linking academic programs with students' career goals and interests. May be repeated for credit. Grade will either be S or U. By permission.

**ETS 491. Workshop** (1-6). May be repeated for credit.

ETS 496. Individual Study (1-6). ETS 498. Special Topics (1-6). ETS 499. Seminar (1-5).

#### **Family and Consumer Sciences Department**

College of Education and Professional Studies Ellensburg Michaelsen Hall, room 100 509-963-2766 Fax 509-963-2787 www.cwu.edu/ family-consumer

See website for how this program may be used for educational and career purposes.

#### **Faculty and Staff**

#### Chairs

Dorothy Chase, PhD Robert Perkins, EdD

#### **Professors**

Kimberlee Bartel, PhD, business and marketing, career and technical education director Jan Bowers, PhD, career and technical education, family and consumer sciences education Robert Perkins, EdD, business and marketing, leadership, recreation and tourism Marla Wyatt, PhD, family and consumer sciences education

#### **Associate Professors**

Dorothy Chase, PhD recreation and tourism Barbara Masberg, PhD, recreation and tourism Kenneth Cohen, PhD, recreation and tourism

#### **Assistant Professors**

Duane Dowd, PhD, CLFE, family studies Andrea Eklund, MA, fashion merchandising John Hudelson, PhD, global wine studies

#### Lecturers

Vivian Baglien, PhD, family consumer sciences education Karen Bergh, MEd, family consumer sciences education Richard DeShields, MA, family studies Jaff Hagler, MA, recreation and tourism Jodi Hoctor, BS, recreation and tourism Ashley Lefever, family studies Amy Mumma, MBA, global wine studies Peggy Roberts, MA, family studies Lynn Whelan, fashion merchandising

#### **Emeritus Professors**

Joan Amby, PhD, family studies
Willa Dene Powell, PhD, family and consumer sciences education
Carolyn Schactler, MS, apparel design
William Vance, EdD, recreation and tourism

#### Staff

Sheri Hubbard, grant program coordinator Alex Lange, secretary senior

#### **Program Directors**

Kim Bartel, PhD, career and technical education
Dorothy Chase, PhD, recreation and tourism
Duane Dowd, PhD, family studies
Andrea Eklund, MA fashion merchandising
Amy Mumma, MBA global wine studies
Marla Wyatt, PhD, family and consumer sciences, family studies

#### **Department Information**

The Department of Family and Consumer Sciences' programs lead to baccalaureate degrees in family and consumer sciences, career and technical education teaching, fashion merchandising, family studies, global wine studies, and recreation and tourism, recreation, or tourism management specialization.

Students may complete a minor in any of the following areas: apparel design, family and consumer sciences, family and consumer sciences education, family studies, fashion merchandising, program development, recreation management, tourism management, and wine trade and tourism.

#### **Admission Policy for Family and Consumer Sciences**

- A completed Family and Consumer Sciences (FCS) major application form must be signed by a program advisor after an initial advising meeting. The advisor will submit it to the FCS chair for approval.
- Freshmen are encouraged to apply. All majors must hold a 2.3 cumulative GPA upon attaining sophomore standing (45 credits).
- Students must earn a minimum grade of C- in each course counted toward fulfilling major and minor requirements.
- Students must have a 2.3 minimum cumulative GPA in the major and minor to exit the program.
- Students seeking a degree in family and consumer sciences career and technical education teaching major, business and marketing education career and technical education, or global wine studies should see specific requirements in the appropriate program section of this catalog.
- For information on teacher certification for marketing education or business education, contact Professor Kim Bartel or Professor Rob Perkins.

#### Fashion Merchandising Program Director

Andrea Eklund, MA

#### **Program Information**

The fashion merchandising major is designed to help the student gain the knowledge needed to recognize industry trends, analyze market and consumer behavior, and evaluate retail needs. Guest speakers, industry field trips, and attending trade shows allow students to have contact with fashion industry professionals. Students also gain additional hands-on professional experience during summer internships. A quarterly meeting with the faculty advisor assures the student is on track academically to achieve their professional goals.

To be admitted to a major or minor in the Fashion Merchandising Program, students must meet the admission requirements for majors and minors in the Department of Family and Consumer Sciences.

## Global Wine Studies Program Director

Amy Mumma, MBA

#### **Faculty**

John Hudelson, PhD

This Interdisciplinary Program provides students with a broad understanding of the global wine industry. The program prepares graduates for careers in winery and vineyard management, wine merchandising, wholesale, retail, e-commerce, distribution, marketing, import/export, hospitality, entrepreneurship, consulting, and more.

In the major, students complete 50 major core credits to acquire a broad base of knowledge and skills related to wine, wine business issues, and the global wine industry. Students also complete a minor, 25 to 36 credits, in one of several complementary academic areas. Students will also gain valuable experience by participating in a required international field experience and an internship with a wine-related business, either in the U.S. or abroad.

#### **Admission Requirements**

Students must complete the pre-admission requirements prior to admission into the degree program. An overall minimum 2.5 GPA will be required for admission. Students must fill out an application that includes an essay of motivation and goals. Upon approval of the application, an in-person or telephone interview will be conducted between the advisor for the global wine studies major and the prospective student. Permission of the major advisor is required. Upon admittance to the program students must agree to sign a written statement regarding professional conduct and responsibility.

Student must be at least 21 years old before enrolling in courses that involve tasting wine (GWS 302 - Fundamentals of Viticulture and Enology, GWS 304 - Wine Marketing and Branding, GWS 406 - Professional Wine Analysis, GWS 408 - Advanced Sensory Analysis and GWS 410 - Wine Faults.)

#### **Special Requirements**

Students will be expected to spend significant amounts of time outside the classroom on projects, field trips, and assignments. Students must earn a cumulative GPA of 2.7 in the global wine studies core courses.

#### **Financial Obligations**

Because this is a self-supported program: no tuition waiver programs apply. Additional course fees and continuing education tuition apply. Tuition for GWS classes may be higher than regular CWU tuition.

#### Recreation and Tourism Program Director

Dorothy Chase, PhD

#### **Faculty**

Kenneth Cohen, PhD Barbara Masberg, PhD Robert Perkins, EdD

The Recreation and Tourism Program (RT) prepares students for positions in one of the top three industries in Washington State and the world's number-one industry. Professional positions are numerous. The following list is a sampling of the types of professional positions currently held by RT graduates: city parks and recreation director, recreation manager, front office and training manager, director of youth programs, guest services manager, and winery marketing manager, among others.

To be admitted to a major or minor in the RT program, students must meet the admission and exit requirements for majors and minors in the Department of Family and Consumer Sciences. To graduate, majors and minors must meet the department graduation requirements.

#### **Special Requirements**

- The elective area will include 14 credits of RT prefix courses. Elective courses must be pre-approved by an advisor prior to registration for course(s).
- Students are required to complete 6 credits of RT 292 Practicum and 12 credits RT 490 Cooperative Education/ Internship. An additional 4 credits of RT 292 or 8 credits of RT 490 may be applied to the elective area with prior advisor approval.
- Students should plan to complete RT 490 Cooperative Education during the summer term.

#### Family and Consumer Sciences Major, BA

The BA in family and consumer sciences comprises a general introduction to the broad areas of family and consumer sciences and, with an appropriate minor, can provide students with a well-rounded preparation for life or for further advanced study. This major requires a minor or double major. Students must have a cumulative GPA of at least 2.3 for full admission to this major and a 2.5 GPA for graduation.

#### Required Courses

- FCSA 351 Sociocultural Aspects of Apparel Credits: (4)
- FCSA 355 Consumer Textiles Credits: (4)
- FCSC 371 Consumer Awareness Credits: (3)
- FCSC 472 Life Management Credits: (5)
- FS 232 Child Development Credits: (3)
- FS 234 Introduction to Family Studies Credits: (4)
- FS 336 Parent Education and Guidance Credits: (3)
- FS 337 Human Sexuality Credits: (4)
- FCSG 205 FCS Entry Assessment **Credits:** (1)
- FCSG 405 FCS Exit Assessment Credits: (1)
- NUTR 101 Introduction to Human Nutrition Credits: (5)
- FCSH 367 Family Housing Credits: (3)
- NUTR 240 Introduction to Foods **Credits:** (2)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)

#### Choose two of the following: Credits 6-7

- FCSA 280 Basic Sewing Techniques Credits: (3)
- FS 235 Relationships and Personal Development Credits: (3)
- FCSH 166 Applied Creativity Credits: (3)
- FCSG 320 Program Management and Planning Credits: (4)

Total Credits: 50-51

#### **Personalized Studies Specialization**

This specialization allows the student to construct a personalized major. It may consist of a broad exposure to all the areas of the discipline or may concentrate on one area of emphasis.

**Apparel Studies Emphasis:** A minimum of 45 credits is required, at least 50 percent of which must be at the upper-division level. With department chair approval, a limited number of courses from other departments may be included.

The planned course of study must have the signature of both the student and a faculty advisor before submission to the department chair for approval.

#### Apparel, Textiles and Merchandising Major, BS

#### **Program Director**

Andrea Eklund, MA

The Apparel, Textiles and Merchandising Program is designed to help you gain the knowledge you need to recognize industry trends, analyze market and consumer behavior, and evaluate retail needs in the diverse, fast-paced, and ever changing fashion industry. Students will build a well rounded base knowledge about textile and apparel products, merchandising strategies, product development, production processes, trends, consumers and sustainability. Field experiences allow students to network with industry professionals and study abroad opportunities are highly encouraged. Students gain additional hands-on professional experience during summer internships. A quarterly meeting with the faculty advisor assures the student is academically on track to achieve their professional goals.

To be admitted to a major or minor in the Apparel, Textiles and Merchandising Program, students must meet the admission requirements for majors and minors in the Department of Family and Consumer Sciences.

#### Required Courses

- ADMG 271 Business Math Applications Credits: (4)
- FCSA 280 Basic Sewing Techniques Credits: (3)
- FCSA 289 Northwest Field Experience in Apparel and Textiles Credits: (3)
- FCSA 301 Introduction to the Fashion Industry **Credits:** (4)

- FCSA 351 Sociocultural Aspects of Apparel Credits: (4)
- FCSA 353 Sewn Product Analysis Credits: (3)
- FCSA 355 Consumer Textiles Credits: (4)
- FCSA 379 Internship Planning Credits: (1-5)
- FCSA 381 Fashion Show Production Credits: (2)
- FCSA 389 Fashion Trend Analysis Credits: (3)
- FCSA 452 History of Fashion **Credits:** (4)
- FCSA 487 Fashion Merchandising Exit Assessment Credits: (1)
- FCSA 489 Retail Buying Credits: (4)
- FCSA 490 Cooperative Education Credits: (1-12) (Must be taken for 10 credits.)
- FCSG 419 Applied Research and Evaluation Credits: (3)
- IT 258 Spreadsheet Applications Credits: (3)
- RMT 330 Principles of Retailing Credits: (4)
- RMT 340 Principles of Selling Credits: (4)

Department-approved electives: Credits 10

Total Credits: 79

#### Family and Consumer Sciences Career and Technical Education Teaching Major, BS

This bachelor of sciences teaching major satisfies the endorsement for family and consumer sciences teaching for career and technical education.

#### **Special requirements:**

Students wishing to obtain a teaching certificate in family and consumer sciences education will:

- Complete the family and consumer sciences career and technical education teaching major
- Successfully complete FCSG 205 before being fully admitted to the major
- Have a university-level cumulative GPA of at least 2.3 for full admission to this major and a 3.0 minimum cumulative GPA in the major to exit the program and to graduate from CWU with teacher certification
- Earn a grade of C in each course counted toward fulfilling major requirements
- Apply, be accepted into, and complete the Teacher Certification Program
- Student teach in a CTE-approved program
- Hold a valid first aid card with CPR
- Complete 2,000 hours of paid work experience in the last six years
- Provide documentation of occupational safety

#### Required Courses

- FCSA 351 Sociocultural Aspects of Apparel Credits: (4)
- FCSA 355 Consumer Textiles **Credits:** (4)
- FCSC 371 Consumer Awareness Credits: (3)
- FCSC 472 Life Management Credits: (5)
- FCSE 326 Curriculum in Career and Technical Education for Family and Consumer Sciences. Credits: (3)
- FCSE 422 Impact of Education Reform on FCS Credits: (2)
- FCSE 426 Methods and Materials of Teaching Family and Consumer Sciences Credits: (3)
- FS 232 Child Development Credits: (3)
- FS 234 Introduction to Family Studies **Credits:** (4)
- FS 336 Parent Education and Guidance Credits: (3)
- FS 337 Human Sexuality Credits: (4)
- FCSG 205 FCS Entry Assessment Credits: (1)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 405 FCS Exit Assessment Credits: (1)
- FCSH 367 Family Housing Credits: (3)
- NUTR 101 Introduction to Human Nutrition Credits: (5)
- OCED 410 Career and Technical Education School to Work Programs Credits: (4)
- NUTR 240 Introduction to Foods Credits: (2)
- NUTR 240LAB Introduction to Foods Laboratory **Credits:** (2)

Choose two of the following: Credits 6-7

- FCSA 280 Basic Sewing Techniques Credits: (3)
- FS 235 Relationships and Personal Development Credits: (3)
- FCSH 166 Applied Creativity Credits: (3)
- PSY 447 Psychology of Adolescence Credits: (4)

Total Credits: 66-67

#### Family Studies Major, BS

The bachelor of science family studies major is an interdisciplinary study of interpersonal and family relationships. The major has a strong emphasis on community involvement and practical application. Graduates are well prepared for career opportunities in family service agencies, parent education programs, family counseling centers, other family life education settings, or advanced study in family relations. Students wishing to declare a major in family studies must be incoming freshmen or have a cumulative GPA of 2.3. Family studies majors may not take 300- to 400-level FS courses until they have completed the following requirements: a 2.5 cumulative GPA, completed a minimum of three hours of FS courses with a grade of C or higher. The application for upper-division status must be completed with the student's academic advisor in family studies.

#### Required Courses

- FCSC 371 Consumer Awareness Credits: (3)
- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 320 Program Management and Planning Credits: (4)
- FS 101 Skills for Marriage Credits: (4)
- FS 234 Introduction to Family Studies Credits: (4)
- FS 235 Relationships and Personal Development Credits: (3)
- FS 305 Junior Seminar Credits: (1)
- FS 320 Theories of Family Dynamics Credits: (4)
- FS 336 Parent Education and Guidance Credits: (3)
- FS 337 Human Sexuality Credits: (4)
- FS 405 Senior Seminar Credits: (1)
- FS 419 Research in Family Studies **Credits:** (4)
- FS 433 Family Life Education Credits: (4)
- FS 439 Families and Public Policy Credits: (4) OR
- LAJ 311 Family Law Credits: (4)
- PSY 314 Human Development and the Learner Credits: (4)
- PSY 454 The Helping Interview Credits: (3)
- UNIV 309 Civic Engagement Credits: (2)
- FS 492 Family Studies Practicum Credits: (1-6) (Must be taken for 12 credits)

Department-approved electives: Credits 11

Total Credits: 77

#### Global Wine Studies, BS

**Program Director** 

Amy Mumma, MBA

#### **Faculty**

John Hudelson, PhD

This Interdisciplinary Program provides students with a broad understanding of the global wine industry. The program prepares graduates for careers in winery and vineyard management, wine merchandising, wholesale, retail, e-commerce, distribution, marketing, import/export, hospitality, entrepreneurship, consulting, and more.

In the major, students complete 52 major core credits to acquire a broad base of knowledge and skills related to wine, wine business issues, and the global wine industry. Students also complete a minor in one of several complementary academic areas. Students will also gain valuable experience by participating in a required international field experience and an internship with a wine-related business, either in the U.S. or abroad.

#### **Admission Requirements**

Students must complete the pre-admission requirements prior to admission into the degree program. An overall minimum 2.5 GPA will be required for admission. Students must fill out an application that includes an essay of motivation and goals. Upon approval of the application, an in-person or telephone interview will be conducted between the advisor for the global wine studies major and the prospective student. Permission of the major advisor is required. Upon admittance to the program students must agree to sign a written statement regarding professional conduct and responsibility.

Student must be at least 21 years old before enrolling in courses that involve tasting wine (GWS 302 - Fundamentals of Viticulture and Enology, GWS 304 - Wine Marketing and Branding, GWS 406 - Professional Wine Analysis, GWS 408 - Advanced Sensory Analysis and GWS 410 - Wine Faults.)

#### **Special Requirements**

Students will be expected to spend significant amounts of time outside the classroom on projects, field trips, and assignments. Students must earn a cumulative GPA of 2.7 in the global wine studies core courses.

#### **Financial Obligations**

Because this is a self-supported program: no tuition waiver programs apply. Additional course fees and continuing education tuition apply. Tuition for GWS classes may be higher than regular CWU tuition.

Pre-admission Requirements Credits: 15

- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- GEOG 101 World Regional Geography Credits: (5)

Choose one of the following courses: Credits 5

- HUM 101 Exploring Cultures in the Ancient World Credits: (5)
- HUM 102 Exploring Cultures From 16th through 19th Centuries Credits: (5)
- HUM 103 Exploring Cultures in Modern and Contemporary Societies Credits: (5)

Global Wine Studies Core Courses Credits: 52

- ACCT 301 Financial Accounting Analysis **Credits:** (5)
- GWS 302 Fundamentals of Viticulture and Enology Credits: (4)
- GWS 303 Major Wine Regions of the World Credits: (4)
- GWS 304 Wine Marketing and Branding Credits: (4)
- GWS 402 Issues in Vinticulture and Enology Credits: (3)
- GWS 403 The Global Wine Industry Credits: (5)
- GWS 404 The International Wine Trade Credits: (5)
- GWS 406 Professional Wine Analysis Credits: (3)
- GWS 408 Advanced Sensory Analysis Credits: (4)
- GWS 410 Wine Faults Credits: (3)
- GWS 412 Advanced Wine Regions Credits: (3)
- GWS 490 Cooperative Education Credits: (1-12)
   GWS 490 must be taken for 6 credits.
- INTL 410 Agriculture **Credits:** (1-12) INTL 410 must be taken for 3 credits.

Total Credits: 67

Select a minor through advisement with GWS faculty.

#### Recreation and Tourism Major, BS

**Program Director** 

Dorothy Chase, PhD

#### **Faculty**

Kenneth Cohen, PhD Barbara Masberg, PhD Robert Perkins, EdD

The Recreation and Tourism Program (RT) prepares students for positions in one of the top three industries in Washington State and the world's number-one industry. Professional positions are numerous. The following list is a sampling of the types

of professional positions currently held by RT graduates: city parks and recreation director, recreation manager, front office and training manager, director of youth programs, guest services manager, and winery marketing manager, among others.

To be admitted to a major or minor in the RT program, students must meet the admission and exit requirements for majors and minors in the Department of Family and Consumer Sciences. To graduate, majors and minors must meet the department graduation requirements.

#### **Special Requirements**

- The elective area will include 14 credits of RT prefix courses. Elective courses must be pre-approved by an advisor prior to registration for course(s).
- Students are required to complete 6 credits of RT 292 Practicum and 12 credits RT 490 Cooperative Education/ Internship. An additional 4 credits of RT 292 or 8 credits of RT 490 may be applied to the elective area with prior advisor approval.
- Students should plan to complete RT 490 Cooperative Education during the summer term.

#### Recreation and Tourism Core Requirements

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 379 Professional Development and Internship Planning Credits: (3)
- FCSG 419 Applied Research and Evaluation Credits: (3)
- FCSG 420 Program Promotion and Advertising Credits: (5)
- HRM 381 Management of Human Resources Credits: (5) OR
- RT 380 Supervision in the Hospitality Industry Credits: (5)
- RT 201 Introduction to Recreation and Tourism Credits: (3)
- RT 292 Practicum Credits: (1-3) Must be taken for 6 credits.
- RT 309 Facility Planning and Sustainable Design Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 490 Cooperative Education Credits: (1-12) (Must be taken for 12 credits.)
- IT 260 Integrated Information Technology Application Projects Credits: (5)

#### Total Core Credits: 63

Select one of the following specializations: Event Planning Recreation Management Tourism Management

#### **Recreation Management Specialization**

The recreation management specialization prepares students for entry-level supervisory and managerial positions with government parks and recreation departments, YMCAs and Boys and Girls Clubs, armed forces recreation, university recreation and intramural sports, camping and outdoor recreation.

#### Recreation and Tourism Core Requirements

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 379 Professional Development and Internship Planning Credits: (3)
- FCSG 419 Applied Research and Evaluation **Credits:** (3)
- FCSG 420 Program Promotion and Advertising Credits: (5)
- HRM 381 Management of Human Resources Credits: (5) OR
- RT 380 Supervision in the Hospitality Industry Credits: (5)
- RT 201 Introduction to Recreation and Tourism Credits: (3)
- RT 292 Practicum Credits: (1-3) Must be taken for 6 credits.
- RT 309 Facility Planning and Sustainable Design Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 490 Cooperative Education **Credits:** (1-12) (Must be taken for 12 credits.)

• IT 260 - Integrated Information Technology Application Projects Credits: (5)

Total Core Credits: 63

#### Required Courses

- Social Science Course (Approved by Advisor) Credits: (3)
- RT 222 Recreation Programming and Activities Credits: (3)
- RT 382 Community Recreation Credits: (3)
- RT 488 Recreation Management Credits: (4)

Department-approved electives: Credits 21

Total Credits: 97

#### **Tourism Management Specialization**

The student with a specialization in tourism management may choose a career in travel- and tourism-related industries, including hotels, resorts, convention centers, cruise lines, airlines, visitor centers, casinos, tour companies, meeting and event planning, and others.

Recreation and Tourism Core Requirements

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 379 Professional Development and Internship Planning Credits: (3)
- FCSG 419 Applied Research and Evaluation Credits: (3)
- FCSG 420 Program Promotion and Advertising Credits: (5)
- HRM 381 Management of Human Resources Credits: (5) OR
- RT 380 Supervision in the Hospitality Industry Credits: (5)
- RT 201 Introduction to Recreation and Tourism **Credits:** (3)
- RT 292 Practicum **Credits:** (1-3) Must be taken for 6 credits.
- RT 309 Facility Planning and Sustainable Design Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 490 Cooperative Education **Credits:** (1-12) Must be taken for 12 credits.
- IT 260 Integrated Information Technology Application Projects Credits: (5)

Total Core Credits: 63

#### Required Courses

- RT 371 Tourism Essentials Credits: (3)
- RT 480 Tourism Administration Credits: (4)
- ACCT 301 Financial Accounting Analysis Credits: (5) OR

Department-approved electives: Credits 22

Total Credits: 97

#### **Event Planning Specialization**

The Event Planning specialization prepares students for positions in special events coordination and operation, lodging sales and marketing, convention centers, destination marketing organizations, tourism planning, recreation and sports centers, and many others.

Recreation and Tourism Core Requirements

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 379 Professional Development and Internship Planning Credits: (3)
- FCSG 419 Applied Research and Evaluation Credits: (3)
- FCSG 420 Program Promotion and Advertising Credits: (5)
- HRM 381 Management of Human Resources Credits: (5) OR

- RT 380 Supervision in the Hospitality Industry Credits: (5)
- RT 201 Introduction to Recreation and Tourism Credits: (3)
- RT 292 Practicum **Credits:** (1-3) Must be taken for 6 credits.
- RT 309 Facility Planning and Sustainable Design Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 490 Cooperative Education **Credits:** (1-12) Must be taken for 12 credits.
- IT 260 Integrated Information Technology Application Projects Credits: (5)

#### Total Core Credits: 63

#### Required Courses

- RT 373D Convention and Meeting Management Credits: (5)
- RT 374 Festivals and Events **Credits:** (3)
- RT 405 Hospitality Catering Credits: (3)
- RT 452 Regional Wine Tourism Credits: (4) OR
- GWS 452 Regional Wine Tourism Credits: (4) OR
- GWS 303 Major Wine Regions of the World Credits: (4)
- RT 485 Events Administration Credits: (4)

#### Department-approved Electives Credits: 14

#### Choose from:

- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- FCSA 381 Fashion Show Production Credits: (2)
- NUTR 240 Introduction to Foods **Credits:** (2)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)
- RT 222 Recreation Programming and Activities Credits: (3)
- RT 379 Cruise Line Industry **Credits:** (3)
- RT 381 Recreational Sports Management **Credits:** (3)
- RT 498 Special Topics Credits: (1-6)
- TH 360 Stage Management Credits: (3)

#### Total Credits: 96

#### **Professional Sommelier Certificate**

This certificate program focuses on learning the techniques involved in becoming a Sommelier. A Sommelier works in the dining aspects of the beverage industry including pairing food with wine, beer, spirits and other beverages along with managing the beverage component of a dining establishment. This certificate covers beverage and food pairing, wine service techniques and beverage management, cost and pricing structures, developing beverage lists, and includes a professional tasting component to cover wine, beer, spirits and other beverages. Graduates are prepared for food and beverage related careers in the dining and hospitality industry.

Students will be expected to spend significant amounts of time outside the classroom working on projects, field trips and assignments.

#### ADMISSION REQUIREMENTS

Students must complete the pre-admission requirements prior to admission into the Certificate. Applicants must:

- 1. Be at least 21 years of age prior to the first day of class.
- 2. Have a high proficiency with written and oral English language.
- 3. Fill out and submit the certificate program application, including a written essay of personal motivation and goals.
- 4. Sign and submit the written statement regarding personal and professional conduct and responsibility with regard to the use of alcohol.
- 5. Upon approval of application, an in-person or telephone interview will be conducted between the program advisor and the prospective student. Permission of the advisor is required for admission.
- 6. Completed or currently enrolled in GWS 303, Major Wine Regions of the World.

#### FINANCIAL OBLIGATIONS

Because this is a self-supported program, no tuition waiver programs apply. Tuition for GWS classes may be higher than regular CWU tuition.

#### Required Courses

- GWS 303 Major Wine Regions of the World Credits: (4)
- GWS 405 Beverage and Food Pairing for the Sommelier Credits: (4)
- GWS 407 Beverage Management and Service for the Sommelier Credits: (4)
- GWS 409 Applied Professional Tasting Analysis Credits: (4)

Total Credits: 16

#### Wine Trade Professional Certificate

This certificate program focuses on the business and trade aspects of the wine industry. Topics covered include the business of wine, world wine regions, trade structures, wine marketing, wine merchandising, viticulture, winemaking, wine styles, and professional evaluation techniques. Graduates are prepared for wine-related careers in sales and merchandising, distribution, marketing, import/ export, consulting, hospitality, and more.

This certificate program is a 10-week, intensive program and all four courses must be taken. Students will be expected to spend significant amounts of time outside the classroom working on projects, field trips, and assignments.

#### **Pre-admission Requirements**

Students must complete the pre-admission requirements prior to admission into the certificate program. Applicants must:

- 1. Be at least 21 years of age prior to the first day of class
- 2. Have a high proficiency with written and oral English language
- 3. Have successfully completed at least 45 quarter credits (or 30 semester credits) of courses from an accredited college or university, including at least two college-level English composition courses
- 4. Have an overall minimum college GPA of 2.5 (on a 4.0 scale)
- 5. Fill out and submit the certificate program application, including a written essay of personal motivation and goals
- 6. Sign and submit the written statement regarding personal and professional conduct and responsibility with regard to the use of alcohol
- 7. Submit a CWU CAPS report and/ or all previous college/ university transcripts. International students must additionally provide a TOEFL iBT score of 71 or higher, or successfully complete Level 5 of the CWU UESL (University English as a Second Language) program. The completed application will be reviewed by the program advisor. Upon approval of the application, an in-person or telephone interview will be conducted between the program advisor and the prospective student. Permission of the advisor is required for admission.

#### **Special Requirements**

Students will be expected to spend significant amounts of time outside the classroom working on projects and assignments. Students must obtain a grade of B- or above in all four courses to receive the certificate.

#### **Financial Obligations**

Because this is a self-supported program: no tuition waiver programs apply. Additional course fees and continuing tuition apply. Tuition for GWS classes may be higher than regular CWU tuition.

#### Required Courses

- GWS 302 Fundamentals of Viticulture and Enology Credits: (4)
- GWS 303 Major Wine Regions of the World **Credits:** (4)
- GWS 304 Wine Marketing and Branding Credits: (4)
- GWS 406 Professional Wine Analysis Credits: (3)

Total Credits: 15

#### **Apparel Design Minor**

A minor in apparel design is administered jointly by the Apparel, Textiles and Merchandising Program and theatre arts department. It is designed to enable students with career interests in this field to gain experience in the competency areas expected of apparel designers. This minor allows the student to learn to apply the basic principles of design and creativity in developing apparel. Students will study the application of artistic and creative design elements, selection, and use of fabrics and textiles, and the techniques for transforming design concepts into garments in order to create a final saleable product for a target market.

#### Required Courses

• CSA 280 - Basic Sewing Techniques Credits: (3) OR

- TH 261 Costume Technology Credits: (3)
- FCSA 301 Introduction to the Fashion Industry Credits: (4)
- FCSA 355 Consumer Textiles **Credits:** (4)
- FCSA 388 Apparel Construction II Credits: (3) OR
- TH 361 Stage Costuming Credits: (3)
- FCSA 389 Fashion Trend Analysis Credits: (3)
- FCSA 488 Fashion Line Development **Credits:** (3)
- TH 140 Introduction to Theatre Design Credits: (3)
- TH 461 Costume Design Credits: (4)
- TH 465 Costume and Fashion Drawing Credits: (3)

Total Credits: 30

#### **Apparel, Textiles and Merchandising Minor**

#### Required Courses

- FCSA 280 Basic Sewing Techniques Credits: (3)
- FCSA 301 Introduction to the Fashion Industry **Credits:** (4)
- FCSA 351 Sociocultural Aspects of Apparel Credits: (4)
- FCSA 353 Sewn Product Analysis Credits: (3)
- FCSA 355 Consumer Textiles **Credits:** (4)
- FCSA 381 Fashion Show Production Credits: (2)
- FCSA 389 Fashion Trend Analysis Credits: (3)
- FCSA 489 Retail Buying Credits: (4)

Total Credits: 27

#### **Event Planning Minor**

This minor will give the student a solid understanding of special event programming and management. It will also provide experiential learning opportunities through event production. Students in various majors including global wine studies, business, the arts, communication and others may find this minor a beneficial supplement.

#### Required Courses

- FCSG 230 Program and Event Budgeting Credits: (2)
- RT 292 Practicum Credits: (1-3)
- RT 373D Convention and Meeting Management **Credits:** (5)
- RT 374 Festivals and Events **Credits:** (3)
- RT 405 Hospitality Catering **Credits:** (3)
- RT 485 Events Administration Credits: (4)

#### Department-approved electives Credits: 8

- ADMG 385 Business Communications and Report Writing Credits: (5)
- FCSG 320 Program Management and Planning Credits: (4)
- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 345 Business and Professional Speaking Credits: (4)
- GWS 452 Regional Wine Tourism Credits: (4)
- MKT 360 Principles of Marketing Credits: (5)
- RT 222 Recreation Programming and Activities Credits: (3)
- RT 381 Recreational Sports Management Credits: (3)
- RT 452 Regional Wine Tourism Credits: (4)

Total Credits: 26

#### **Family and Consumer Sciences Education Minor**

This minor does not meet endorsement requirements to teach family and consumer sciences.

Required Courses

- FCSA 351 Sociocultural Aspects of Apparel Credits: (4)
- FCSC 371 Consumer Awareness **Credits:** (3)
- FCSE 426 Methods and Materials of Teaching Family and Consumer Sciences Credits: (3)
- FS 232 Child Development **Credits:** (3)
- FS 234 Introduction to Family Studies Credits: (4)
- FS 336 Parent Education and Guidance Credits: (3)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

Total Credits: 25

#### **Family and Consumer Sciences Minor**

In consultation with a faculty advisor, students select a minimum of 20 credits of coursework as appropriate to individual interests and professional goals. The planned course of study must have the signature of both the student and the faculty advisor before submission to the department chair for approval.

#### **Family Studies Minor**

Required Courses

- FS 101 Skills for Marriage **Credits:** (4)
- FS 235 Relationships and Personal Development Credits: (3)

FS Elective Courses: Credits 15

• Any courses with a FS prefix.

Total Credits: 22

#### **Program Development Minor**

Students take a series of courses addressing the strategies and techniques of planning and managing a program for events, training, education, seminars, entertainment, or meetings.

#### Required Courses

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- FCSG 379 Professional Development and Internship Planning Credits: (3)
- FCSG 419 Applied Research and Evaluation Credits: (3)
- FCSG 420 Program Promotion and Advertising Credits: (5)

Choose one course from the following: Credits: 2-3

- EDCS 509 Civic Engagement (3)
- UNIV 309 Civic Engagement Credits: (2)
- FCSG 490 Cooperative Education Credits: (1-12) Credits: 2

Total Credits: 23-24

#### **Recreation Management Minor**

Students who have a major in another area may desire to diversify their abilities by choosing to complete a minor program in Tourism Management, Recreation Management, or Wine Trade and Tourism. These minors complement numerous major programs and expand career opportunities.

#### Required Courses

- FCSG 220 Leadership in Human Development Credits: (4)
- FCSG 230 Program and Event Budgeting Credits: (2)
- RT 201 Introduction to Recreation and Tourism Credits: (3)
- RT 222 Recreation Programming and Activities Credits: (3)
- RT 292 Practicum Credits: (1-3) OR RT 490 Cooperative Education either one must be taken for 3 credits.
- RT 382 Community Recreation Credits: (3)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 488 Recreation Management Credits: (4)

Department-approved electives: Credits 3

Total Credits: 29

#### Sustainable Tourism Minor

The sustainable tourism minor prepares students for careers related to the impacts and opportunities associated with the economic, cultural, and environmental dimensions of tourism.

#### Required Courses

- ENST 201 Earth as an Ecosystem Credits: (5)
  OR ENST 202 Ecosystems, Resources, Population, and Culture (5)
- ENST 303 Environmental Management Credits: (5)
- RT 355 Sustainable Tourism: Contemporary Issues Credits: (2)

Choose two from the following: Credits: 6-7

- RT 309 Facility Planning and Sustainable Design Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 471 Tourism Planning and Sustainable Development Credits: (3)

Choose two from the following: Credits: 7-10

- ANTH 358 Culture and Politics in a Global Economy **Credits:** (4) OR other 300-level ANTH with approval.
- ECON 201 Principles of Economics Micro Credits: (5)
- GEOG 203 Introduction to Maps and Cartography Credits: (4)
- GEOG 308 Cultural Geography Credits: (5)
- GEOG 310 Introduction to Landscape Analysis Credits: (5)
- GWS 452 Regional Wine Tourism Credits: (4) OR RT 452 - Regional Wine Tourism (4)
- RT 371 Tourism Essentials Credits: (3)
- RT 398 Special Topics Credits: (1-5)
- SOC 380 Social Ecology Credits: (5)

Total Credits: 25-29

#### **Tourism Management Minor**

Students who have a major in another area may desire to diversify their abilities by choosing to complete a minor program in tourism management or community recreation. These minors complement numerous major programs expanding career opportunities.

#### Required Courses

- RT 292 Practicum **Credits:** (1-3) OR RT 490 Cooperative Education - either must be taken for 4 credits.
- RT 337 Tour and Interpretive Program Development Credits: (3) OR
- RT 379 Cruise Line Industry Credits: (3) OR
- RT 473 Air Travel and Tourism **Credits:** (3)
- RT 371 Tourism Essentials Credits: (3)
- RT 373D Convention and Meeting Management Credits: (5) OR
- RT 373E Resort Management Credits: (5)
- RT 480 Tourism Administration Credits: (4)

Department-approved electives: Credits 8

Total Credits: 27

#### Wine Trade and Tourism Minor

#### **Program Director**

Dorothy Chase, PhD

This cross-disciplinary program prepares individuals for employment in many areas of the wine industry, including tourism, hospitality services, retailing, wine sales, marketing, and tasting room and event management.

#### **Admission Requirements**

Admission to the minor requires admission to the Wine Trade Professional Certificate Program. Students must be 21 years of age or older and must apply for acceptance into the program. Permission of the GWS certificate advisor is required.

#### **Financial Obligations**

Because the Global Wine Study (GWS) courses are in a self-supported program: no tuition waiver programs apply for GWS courses. Additional course fees and continuing education tuition apply. Tuition for GWS classes may be higher than regular CWU tuition. Tuition for the FCSG and RT courses will be at the regular CWU tuition rate and waivers can be applied to the FCSG and RT courses.

#### Required Courses

- GWS 302 Fundamentals of Viticulture and Enology Credits: (4)
- GWS 303 Major Wine Regions of the World Credits: (4)
- GWS 304 Wine Marketing and Branding Credits: (4)
- GWS 406 Professional Wine Analysis Credits: (3)
- RT 371 Tourism Essentials Credits: (3)
- RT 452 Regional Wine Tourism Credits: (4)

Choose an additional 7 credits from the following courses with advisement:

- FCSG 230 Program and Event Budgeting Credits: (2)
- FCSG 320 Program Management and Planning Credits: (4)
- RT 330 Sustainable Resources for Recreation and Tourism Credits: (3)
- RT 373D Convention and Meeting Management Credits: (5)
- RT 373E Resort Management **Credits:** (5)
- RT 374 Festivals and Events **Credits:** (3)
- RT 386 International Travel II **Credits:** (3)
- RT 405 Hospitality Catering **Credits:** (3)
- RT 471 Tourism Planning and Sustainable Development Credits: (3)
- RT 473 Air Travel and Tourism Credits: (3)
- RT 480 Tourism Administration Credits: (4)
- RT 484 Legal Liability and Risk Management Credits: (4)
- RT 490 Cooperative Education **Credits:** (1-12) Credits: (3-4)

Total Credits: 29

## Career and Technical Education Courses CTE 292. Work-site Learning

Practicum (1-12). One university credit is awarded for every 40 hours of work experience. Practicum may be paid or unpaid. Prerequisite: Successful acceptance into a CTE work-site learning program.

CTE 310. Introduction to Career and Technical Education (4). An entry-level course that introduces students to career and technical education careers, the assessment process, and requirements for program completion. Grade will either be S or U.

#### Consumer Management Courses FCSC 298. Special Topics (1-6). FCSC 371. Consumer Awareness

(3). Consumer aids, protection, and information; problems of quality and quantity. Consumer decisions, how consumption influences the market.

## FCSC 398. Special Topics (1-6). FCSC 472. Life Management (5).

Study of family in human ecosystem. Emphasis on physiological and psychological well-being and management of resources. Solve practical family problems.

**FCSC 491. Workshop** (1-6). May be repeated for credit.

FCSC 498. Special Topics (1-6). FCSC 499. Seminar (1-5). May be repeated for credit.

Family and Consumer Sciences Education Courses

FCSE 298. Special Topics (1-6). FCSE 326. Curriculum in Career and Technical Education for Family and Consumer Sciences.

(3). Instructional organization and classroom procedure in vocational family and consumer sciences programs.

FCSE 398. Special Topics (1-6). FCSE 422. Impact of Education Reform on FCS (2). Student will use program of study content knowledge to improve a community situation. Prerequisite: FCSE 326.

FCSE 426. Methods and Materials of Teaching Family and

#### Consumer Sciences (3).

Application of the philosophy, purposes, teaching techniques, and assessment of family and consumer sciences programs in the secondary schools.

Prerequisites: FCSE 326 and EDCS 311.

FCSE 491. Workshop (1-6). Course content identified by title in the university class schedule. May be repeated for credit under different titles.

FCSE 498. Special Topics (1-6). FCSE 499. Seminar (1-5).

#### Family and Consumer Sciences General Courses

#### FCSG 205. FCS Entry Assessment

(1). This course consists of self-assessment and assessment by the faculty of writing skills, speaking skills, visual/ graphic skills, and knowledge of theory and research. Grade will either be S or U.

FCSG 220. Leadership in Human Development (4). This highly interactive (challenge course, community service) course focuses on developing students' leadership skills that provide a base for improved communication in both personal and professional situations.

FCSG 230. Program and Event
Budgeting (2). Budget processes,
terminology, and formats will be
covered along with the
preparation of basic budgets for
events and programs.

FCSG 296. Individual Study (1-6).
FCSG 305. Family and Consumer
Sciences Student Leadership (1).
Students engage in leadership
development through
identifying, organizing,
conducting and assessing course
activities. Elective credit for
major. May be repeated up to 6
credits. Grade will either be S or

FCSG 320. Program Management and Planning (4). A holistic approach to program management. Content deals with planning, organizing, and controlling programs. For example: special events, recreation, product development, construction, and business.

## FCSG 379. Professional Development and Internship Planning (3). Students will explore career options and networks within their industry, develop materials for a job search, and acquire skills related to professionalism.

## FCSG 405. FCS Exit Assessment (1). During last quarter of their program, students are assessed on writing skills, speaking skills, visual/ graphic skills, and knowledge of theory and research. Prerequisite: FCSG 205.

Grade will either be S or U.

FCSG 419. Applied Research and Evaluation (3). Basics of research design including problem identification, research and evaluation similarities and differences, sampling, survey development, methods and application, implementation, data analysis, and review of published research.

FCSG 420. Program Promotion and Advertising (5). Provides students with skills through practical exercises, lectures, demonstrations, and examples to enable them to use marketing concepts and tools to develop effective campaigns.

FCSG 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S

FCSG 496. Individual Study (1-6).

#### Family Studies Courses FS 101. Skills for Marriage (4).

or U. By permission.

Designed to provide preparation for marriage and other long-term committed relationships. Teaches relational skills (e.g., communication and conflict management) and critically examines the role of marriage in contemporary society.

FS 232. Child Development (3).

Developmental characteristics of children with emphasis from

conception to eight years. Includes observation techniques. FS 232 and EDEC 232 are crosslisted courses; students may not receive credit for both.

## FS 234. Introduction to Family Studies (4). Origins and historical development of families, cultural variations, contemporary trends. Draws upon information and insight from numerous root disciplines to explore family

FS 235. Relationships and Personal Development (3). Development of interpersonal relationships from initial encounters to stable commitments. Major focus on interaction patterns in intimate relationships. FS 235 and PSY 235 are cross-listed courses; students may not receive credit for both.

## FS 298. Special Topics (1-6). FS 305. Junior Seminar (1).

structure and function.

Preparation for practicum/ internship and service learning. This course is required of any family studies major in a volunteer, practicum, or internship experience.

Prerequisite: family studies majors only.

FS 310. Contemporary Family
Issues (4). An introduction to
social issues that impact family
life. Current issues pertaining to
individual and family
relationships are assessed from
an interdisciplinary perspective.
SB-Found Human Adaptations
(W)

#### FS 320. Theories of Family

Dynamics (4). Internal dynamics of family functioning, including processes by which families deal with change, stress, and conflict. Major theoretical orientations to the study of family, and an introduction to the scientific process. Prerequisite: FS 101 and FS 234, and admission to a family studies major.

#### FS 333. Culture and Marriage (4).

The reciprocal relationships between the biophysical and cultural components in mating, nurturing and sexual access. Cross-cultural patterns in marriage. FS 333 and ANTH 333 are cross-listed courses; students may not receive credit for both.

#### FS 334. Family Problems and

Mediation (4). Problems arising out of the interaction of family members. Mediation techniques, family policy, and theories and ethics in studying families. FS 334 and FS 554 are layered courses; students may not receive credit for both.

#### FS 335. Divorce and Remarriage

(3). Personal, family, and legal aspects of divorce and remarriage; historical antecedents and trends. Prerequisite: FCSF

## FS 336. Parent Education and Guidance (3). Study of parent education models and methods of teaching parent education in community and school settings. Prerequisite: FCSF 234.

FS 337. Human Sexuality (4). The biophysical, psychosocial, and behavioral aspects of sexuality with emphasis on making responsible sexual decisions and promoting healthy relationships. Prerequisite: sophomore standing or above. SB3 S&B-Found Human Adaptations

#### FS 398. Special Topics (1-6). FS 403. Family Communication (4).

This course is designed to provide an overview of family dynamics and the processes that influence family communication and family functioning. FS403, COM 403 and FS503 are crosslisted courses; students may not receive credit for both.

#### FS 405. Senior Seminar (1).

Seminar on professionalism, ethics, and professional networking. Course required for any student in a family studies practicum or internship. Co- or prerequisite: FS 305.

#### FS 419. Research in Family Studies

(4). Methods of research used in studying families and relationships, including measurement, research design, ethics, sampling, and casual inference. Students will complete a research project emphasizing application of material. FS 419 and FS 519 are equivalent courses; students may not receive credit for both. Prerequisites: FS 101 and FS 234.

### FS 432. Theories in Child Development (3). Assists the

student in formulating his or her own general assumptions about the nature of child development through study of various theoretical viewpoints and current issues. EDEC 432 and FS 432 are cross-listed courses, students may not receive credit for both.

#### FS 433. Family Life Education (4).

The broad objectives, trends, methods and materials of family life education programs in various settings. FS 433 and FS 533 are equivalent courses; students may not receive credit for both. Prerequisite: FS 234.

FS 435. Family Gerontology (4). A review of the research literature on families in later life, focusing on family interactions and building family strengths.

Prerequisite: FS 234.

#### FS 439. Families and Public Policy

(4). Impact of governmental policies on families; policy implications of changes in the structure and composition of families. FS 439 and FS 539 are equivalent courses; students may not receive credit for both.

Prerequisites: FS 101 and FS 234.

#### FS 490. Cooperative Education (1-

12). A contracted field experience with business, industry, government, or social service agency. Requires a cooperative learning agreement. May be repeated for a total of 20 credits. Grade will either be S or U. By permission.

#### FS 491. Workshop (1-6).

#### FS 492. Family Studies Practicum

(1-6). Supervised practicum experience for family studies major. Prerequisite: family studies major only. May be repeated up to 15 credits.

FS 498. Special Topics (1-6). FS 499. Seminar (1-5).

## Interior Design Courses FCSH 166. Applied Creativity (3).

The creative process; blocks to creativity, creative problem solving, principles and elements of design in housing and interiors.

#### FCSH 265. Interior Design

Fundamentals (4). The design process, space planning, color analysis, evaluating existing spaces, style trends, and scale drawings. Prerequisite: FCSH

FCSH 298. Special Topics (1-6).
FCSH 366. History of Housing and
Furniture I (3). Survey of historic
interiors, cabinetmakers,
decorative arts, furniture from
the antiquity to the middle of the
1700s

FCSH 367. Family Housing (3). An evaluative study of the design, quality, and cost of housing environment.

FCSH 392. Housing Practicum (6-12). Work study experience in various aspects of the housing profession. Prerequisite: FCSH 265. May be repeated up to 12 credits

### FCSH 398. Special Topics (1-6). FCSH 464. Bath Design (4).

Fundamental skills and knowledge are applied to a design problem related to functional, structural, and aesthetic qualities of interior environments, specifically residential bathroom design.

FCSH 465. History of Housing and Furniture II (3). Survey of historic interiors, cabinetmakers, decorative arts, furniture from the late 1700s to the present.

#### FCSH 466. Housing Issues (4).

Cultural factors and social responsibility in housing; evaluating special needs in space planning;

economic/ environmental issues in family and group housing.

FCSH 467. Furnishings (5). The different manufacturing and marketing processes of furniture will be explored. Underlying concepts and preparations of documents used by designers for furniture purchases and resale.

#### FCSH 480. Kitchen Design (4).

Fundamental skills and knowledge are applied to a design problem related to functional, structural, and aesthetic qualities of interior environments, specifically residential kitchen design. Prerequisite: FCSH 392.

#### FCSH 485. Residential Lighting

(4). Students will be introduced to the lighting and electrical systems that affect the interior environment and acquire a

working knowledge of architectural lighting planning and electrical drawings. Prerequisite: FCSH 392.

**FCSH 491. Workshop** (1-6). May be repeated for credit.

FCSH 492. Housing Practicum (6-12). A work study course including practical experience in a phase of housing of the student's choice, accompanied with a seminar. Prerequisite: FCSH 265. May be repeated up to 12 credits.

FCSH 498. Special Topics (1-6). FCSH 499. Seminar (1-5).

#### Apparel, Textiles and Merchandising Courses FCSA 280. Basic Sewing

**Techniques** (3). Basic clothing construction theory, techniques, and teaching methods covering basic garment components: collars, sleeves, bodices, pleats, etc.

## FCSA 289. Northwest Field Experience in Apparel and

**Textiles** (3). An applied study of clothing, textiles, fashion merchandising, and design through regional field visits to meet with fashion professionals within a range of careers. By permission.

FCSA 298. Special Topics (1-6).
FCSA 301. Introduction to the
Fashion Industry (4). Overview
of the history, structure, and
operation of the fashion industry.
Provides knowledge and skills
for effective development in
understanding the dynamics of
the fashion industry.

FCSA 351. Sociocultural Aspects of Apparel (4). Clothing in relation to individual and group behavior patterns; personal and social meanings attributed to dress; and cultural patterns of technology, aesthetics, ritual, morality, and symbolism. Prerequisites: PSY 101, SOC 107, and ANTH 107. The influence of cultural ideals and standards on dress.

#### FCSA 353. Sewn Product Analysis

(3). Investigation of apparel quality through identification of product standards and specifications, performance, appearance, design, and production. Prerequisites: FCSA

280 and FCSA 355, and junior or senior standing.

FCSA 355. Consumer Textiles (4). Study of natural and synthetic textiles: generic classification, fiber-forming substances, morphology, fabrication, finishing and dyeing processes, properties, and performances. Ten dollar material fee.

FCSA 379. Internship Planning (1-5). This course is designed for internship planning.

## FCSA 381. Fashion Show Production (2). Preparation, production, and evaluation of special fashion related events. Professional learning experiences will include modeling techniques, organization and directing procedures. May be repeated up to 4 credits.

FCSA 388. Apparel Construction II (3). Fundamental concepts of flat pattern and draping design theories and techniques. Design and execution of draped and flat patterned samples and garment structures will be required. Includes translation of garment ideas from conception through production and merchandising. Prerequisite: FCSA 280 and admissions to the fashion merchandising major or minor or the apparel design minor. May be repeated up to 6 credits. May be repeated up to 6 credits.

FCSA 389. Fashion Trend Analysis (3). Fashion forecasting; reflecting the acceptance or rejection of trends; analysis of socioeconomic, demographic, media, and fashion influences. Students will have an opportunity to travel to market. Prerequisites: either FCSA 301 or MKED 301.

#### FCSA 398. Special Topics (1-6). FCSA 452. History of Fashion (4).

Historical changes in fashion and costume design from Egyptian period through Eastern civilization to present. Social, political, and religious influences on fashions. FCSA 452 and TH 452 are cross-listed courses; students may not receive credit for both

#### FCSA 485. International

Merchandising (4). Emphasis on international retailing and global trade. Focus on cross-cultural

differences, work environments, policies, and regulations. FCSA 485 and RMT 485 are cross-listed courses; students may not receive credit for both. Prerequisite: RMT 330.

FCSA 487. Fashion Merchandising
Exit Assessment (1). During the
last quarter of their program,
students are assessed on program
outcomes and portfolios are
created for internship and job
interviews. Grade will either be S
or U.

#### FCSA 488. Fashion Line

**Development** (3). Production of an apparel line from conceptualization to completion. Design concepts will be executed through storyboards, identification of target market, merchandising strategy, and completion of muslin samples. A final project of three original designs will be showcased at the annual fashion show. Prerequisite: FCSA 388 and admissions to the fashion merchandising major or minor or the apparel design minor. May be repeated up to 6 credits.

#### FCSA 489. Retail Buying (4).

Principles of buying and selling merchandise; analysis of consumer demand, stock inventories and open-to-buy. Prerequisite: RMT 330.

#### FCSA 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. 40 hours required per credit. Prerequisite: FCSA 379. May be repeated up to 20 credits.

FCSA 491. Workshop (1-6). May be repeated for credit.
FCSA 498. Special Topics (1-6).

**FCSA 498. Special Topics** (1-6). **FCSA 499. Seminar** (1-5).

#### Global Wine Studies Courses GWS 202. A Social History of Beer, Wine, and Distilled Spirits (4).

This course looks at alcohol production/consumption from early societies to its present-day industry. Students debate health

issues of alcohol, environmental issues, and quality of life issues associated with the wine, beer, and spirits.

### GWS 302. Fundamentals of Viticulture and Enology (4).

Fundamentals of viticulture and enology, techniques and practices, wine styles, and grape varietals. Health issues associated with wine, basics of wine, and food pairing.

GWS 303. Major Wine Regions of the World (4). Major wine regions of the world. Identification of major grape varietals and wine styles, label regulations, and legal issues. Viniculture and winemaking regulations, climate, soils, and other factors affecting each

GWS 304. Wine Marketing and Branding (4). Regulations and legalities, marketing, branding, public relations, consumer behavior, and business planning in the wine industry.

GWS 402. Issues in Vinticulture and Enology (3). This course covers advanced techniques in viticulture and enology practices, product quality control and quality assurance, and worker protection. Prerequisite: GWS 302 or permission of instructor.

GWS 403. The Global Wine Industry (5). Traditional and emerging wine regions: globalization, classification and legal systems, trade structures, international agreements, consumption habits, patterns, and trends. Prerequisite: GWS

303. By permission.

GWS 404. The International Wine Trade (5). Accounting and finance, global supply chain, distribution, retail, intellectual property rights, legal issues, wine auctions and investments, journalism and ratings.

Prerequisites: GWS 304 and ACCT 301.

GWS 405. Beverage and Food Pairing for the Sommelier (4).

Overview of major beverages and service standards related to the world of fine wines in a dining environment. Fundamentals of food pairing with major wine varietals, wine styles, and other

industry beverages of the world. Must be 21 years of age or older prior to the start of class. Prerequisite: GWS 303.

GWS 406. Professional Wine
Analysis (3). Evaluation and
assessment of global wines.
Component format for
organoleptic properties including
appearance, aroma and palate.
Must be 21 years of age or older
prior to the start of class. Graded

# GWS 407. Beverage Management and Service for the Sommelier (4). Basics of the wine and beverage cellar, menu pricing and creation of a wine and beverage list, sales techniques with a practical beverage industry approach, and service standards pertaining to the beverage industry and sommeliers. Must be 21 years of age or older prior to the start of class. Prerequisite: GWS 303.

GWS 408. Advanced Sensory
Analysis (4). Assessment of
viticulture and winemaking
techniques in wine, identification
of provenance, fraud, age and
potential for investment. Must be
21 years of age or older prior to
the start of class. Prerequisites:
GWS 402 and GWS 406.

GWS 409. Applied Professional
Tasting Analysis (4). This course will combine lecture and tasting for wines, beers, spirits, and liqueurs for students who are interested in a career path as sommelier to work in the dining industry. Students will learn proper tasting techniques for each beverage along with appropriate aging and service for a dining establishment. Must be 21 years of age or older prior to the start of class. Prerequisite: GWS 303.

#### GWS 410. Wine Faults (3).

Chemical, physical, and biological faults and flaws found in wine from the vineyard, winery, distribution, retail, and consumer. Product recalls and legalities of faulty wines. Prerequisites: GWS 402 and GWS 406. By permission.

#### **GWS 412. Advanced Wine Regions**

(3). Study of lesser known vineyard areas around the world including unusual grape

varietals, regulations, quality designations, and wines made for specific markets. Prerequisite: GWS 303.

#### **GWS 452. Regional Wine Tourism**

(4). Wine tourism is an american growth industry. Unlike in Europe, support for wine tourism in the USA is regional. This course offers an academic and hands-on approach to regional wine tourism that will assist RT and GWS graduates. GWS 452 and RT 452 are cross-listed courses, students may not receive credit for both. Prerequisites: GWS 302 and RT 371.

#### **GWS 490. Cooperative Education**

(1-12). An individualized contracted field experience with business, industry or government agencies in the wine industry. A learning agreement is created to identify and plan the directed and supervised study. Must be 21 years of age or older prior to the start of class. Prerequisite: admission to the global wine studies major. May be repeated for credit. Grade will either be S or U.

GWS 491. Workshop (1-6).

GWS 492. Field Experience (1-6).

Prerequisite: admission to the global wine studies major. By permission.

**GWS 498. Special Topics** (1-6). **GWS 499. Seminar** (1-6).

## Recreation and Tourism Courses RT 201. Introduction to Recreation

and Tourism (3). History, organizational structures, goals and objectives, policies and procedures within agencies, organizations, and businesses in the private, voluntary, government, and tourism sectors.

RT 222. Recreation Programming and Activities (3). The essential skill of recreation programming will be developed. Games and activities appropriate for playgrounds, camps, and community centers are learned, along with socialization, education, trust building, and outdoor adventure. Prerequisite: admission to the RT major or minor.

RT 272. Lodging Operations I (3). Examines the rooms division and

front office functions critical to hotel operations. Includes the guest cycle, personnel supervision, sales techniques in the reservation process, and hotel organization and operation.

RT 275. Career Development (2). Students will explore career options and networks within the tourism industry and develop materials for a job search.

#### RT 286. International Travel I (3).

Overview North and South America destinations and their travel, tourism, hospitality, and recreation industries. Touristic importance including economic, political, population, geography, social systems, and cultural characteristics. May be repeated for credit.

RT 292. Practicum (1-3). Forty onthe-job hours of practical experience per 1 credit hour earned. Four additional hours may be applied toward the recreation tourism elective area. A minimum of one credit must be taken as a service-learning activity. May be repeated for credit.

**RT 296. Individual Study** (1-6). **RT 298. Special Topics** (1-6). **RT 299. Seminar** (1-5).

RT 300. Challenge Course
Leadership (4). Students will
develop leadership skills using
the challenge course. Specifically,
students will learn and use
facilitation techniques to improve
group and individual interaction.

RT 309. Facility Planning and
Sustainable Design (4). Study of
basics of site and facility
development including laws and
regulations, procedures,
sustainable concepts, site
analysis, populations, universal
design, and utility of design.

RT 330. Sustainable Resources for Recreation and Tourism (3). The framework of sustainability is used to examine how values, policy, management, and practices direct and affect the use of recreation and tourism areas that are both natural resource-based and part of the built environment.

RT 337. Tour and Interpretive Program Development (3). Methods, techniques, and skills used in the planning, development, and presentation of resource based interpretive programs and visitor tours. This course will include theoretical understanding of the interpretive process and practice of new skills.

### RT 350. Tourism and Recreation for Special Groups (2).

Distinguishing needs of special populations, mentally ill, disabled, aged, and others. Attention to the ADA. Observations of selected population groups.

### RT 355. Sustainable Tourism: Contemporary Issues (2).

Students will explore contemporary issues, trends, policies, and practices shaping the tourism field, and how principles of sustainable tourism are affecting tourism planning, management, and operations. Prerequisite: junior standing or above.

#### RT 360. Outdoor Survival (3).

Students will gain an introductory knowledge in winter survival. Specifically, students will gain a hands-on experience in learning to protect themselves and gain a sense of self-control in a harsh environment.

#### RT 371. Tourism Essentials (3).

Students will survey the global travel and tourism system, including consumer demand and motivations, tourism suppliers and intermediaries, modes of travel, visitor attractions, marketing and entrepreneurship, destinations, and impacts of tourism on people and communities. Prerequisite: RT 201.

#### RT 373A. Supervision in the Hospitality Industry (3). Basics of supervising programs, personnel, and facilities with emphasis on practical supervisory skill development.

RT 373D. Convention and Meeting Management (5). Students will be presented with the mechanics of planning and managing meetings and conventions of a business nature.

**RT 373E. Resort Management** (5). Presentation of management

topics applied to the hospitality industry.

## RT 374. Festivals and Events (3). Students will learn the purposes, mechanics, and leadership skills required for planning and executing community festivals and special events of a social nature.

RT 377. The Gaming and Casino Industry (3). An overview of the casino industry including: traditional casinos, riverboats, historical perspective, legal, social, cultural and economic impacts, Native American gaming, regulation and control of gaming, and future trends in gaming industry.

## An overview of the cruise industry including: cruise lines, ships, history of cruising, human

RT 379. Cruise Line Industry (3).

resource practices, marketing, design, terminology, and future trends.

trends.

# RT 380. Supervision in the Hospitality Industry (5). This is a broad based course on the role and functions of a supervisor. It presents strategies for supervising programs, facilities, and especially personnel. Case studies are used to practice supervisory skill development. Prerequisite: junior standing or above.

# RT 381. Recreational Sports Management (3). Organization and implementation of recreational sports programs in community recreation settings. Emphasis on facilities, personnel, materials and supplies, tournament bracketing and other practical considerations.

# RT 382. Community Recreation (3). Preparation for positions in community-based organizations to include non-profits and municipalities, grant writing, board-staff relations, community capacity building, and social marketing. Prerequisite: junior standing or above.

## RT 386. International Travel II (3). Overview of selected Europe and Africa destinations and their travel, tourism, hospitality, and recreation industries. Touristic importance, including economic, political, population, geography,

social systems, and cultural characteristics.

#### RT 393A. Leisure Service Agency Visitations: Public Recreation Agencies (1-3). Field visits, usually from two to three days in duration. Review of facilities, programs, and clientele with agency

leader/ supervisor/ manager.
May be repeated for credit under

# RT 393M. Leisure Service Agency Visitations: Community Centers (1-3). Field visits, usually from two to three days in duration. Review of facilities, programs, and clientele with agency leader/ supervisor/ manager. May be repeated for credit under different subtitle.

# RT 393N. Rt Vis:Destinations (1-3). Field visits, two to three days in duration. Review of facilities, programs and clientele with agency leader/ supervisor/ manager. May be repeated for credit under different titles. May be repeated up to 3 credits.

# RT 393Q. Leisure Service Agency Visitations: Transportation (1-3). Field visits, usually from two to three days in duration. Review of facilities, programs, and clientele with agency leader/ supervisor/ manager. May be repeated for credit under different subtitle.

#### RT 398. Special Topics (1-5). RT 405. Hospitality Catering (3).

Basics of off-premise catering including menu planning, budgeting, logistics, and marketing. NUTR 405, RT 405, and RT 505 are equivalent courses; students may not receive credit for more than one.

#### RT 431. Resident Camp Programming (3). Methods, techniques, and skills used in the organization and operation of a resident camp program.

# RT 452. Regional Wine Tourism (4). Wine tourism is an american growth industry. Unlike in Europe, support for wine tourism in the USA is regional. This course offers an academic and hands-on approach to regional wine tourism that will assist RT and GWS graduates. GWS 452 and RT 452 are cross-listed

courses, students may not receive credit for both. Prerequisites: GWS 302 and RT 371.

### RT 471. Tourism Planning and Sustainable Development (3).

The planning process is studied in connection with the development of sustainable tourism, taking into consideration the impact of development on the economic, social, fiscal, environmental, and political fabric of communities.

#### RT 473. Air Travel and Tourism

(3). Examines the airline industry, its components and methods of operation; the interaction with other segments of the industry. Procedures for working with the airlines. Prerequisite: RT 201.

#### RT 474. Lodging Operations II (2). Analysis of hotel performance

Analysis of hotel performance and forecasting, with tools typically used in a lodging environment.

#### RT 475. Professionalism in

Tourism (2). Students will develop skills related to professionalism in the tourism industry along with assessing themselves in order to successfully enter their careers. Prerequisite: admission to the RT major or minor.

#### RT 479. Cruise Line Workshop (2).

Students will learn the ports, ports of call, and cruise lines of the Pacific Northwest. A visitation will be made to selected cruise offices and ports. Prerequisite: RT 379. By permission.

#### RT 480. Tourism Administration

(4). Contemporary problems and issues, basic applied research, organizational development, policy formulation, human resources, inventory, and program personnel evaluation processes. Prerequisites: FCSG 220 and HRM 381 or MGT 380, senior standing, and admission to the RT major or minor.

#### RT 484. Legal Liability and Risk

Management (4). Aspects of personnel law, premises in liability, Americans with Disabilities, and procedures for managing risk for the recreation and tourism professional.

### **RT 485. Events Administration** (4). This capstone course includes a

study of contemporary issues within the field of event planning and coordination, basic applied evaluation, organizational development, policy formulation, human resources, inventory, and applied program and event planning. Prerequisites: RT 309, RT 380 or HRM 381, RT 484, senior standing, and admission to the recreation and tourism major or minor.

#### RT 486. International Travel III (3).

Overview of selected Asia, Australia, and South Pacific destinations and their travel, tourism, hospitality, and recreation industries. Touristic importance including economic, political, population, geography, social systems, and cultural characteristics.

#### RT 487. Outdoor Recreation Issues

(3). This course addresses recent and breaking issues in the outdoor recreation field. The course involves readings and discussions in both the classroom and field environments.

Prerequisite: RT 330.

#### RT 488. Recreation Management

(4). Contemporary issues, basic applied evaluation, organizational development, policy formulation, human resources, inventory, and program planning. Prerequisites: FCSG 220, senior standing, and admission to the recreation and tourism major or minor.

#### RT 490. Cooperative Education (1-

12). An individualized, contracted field experience with business, industry, government, or social service agencies. A learning agreement is created by the student to identify and plan the directed and supervised study under the guidance of a tourism mentor. Forty hours required per credit. Prerequisites: admission to the recreation and tourism major or minor, a minimum GPA of 2.25 in the major, and permission of advisor. May be repeated for credit. Grade will either be S or U.

RT 491. Workshop (1-6). RT 496. Individual Study (1-6). RT 498. Special Topics (1-6). RT 499. Seminar (1-5).

#### Film and Video Studies Program

College of Arts and Humanities
Ellensburg
Bouillon Hall, room 224
509-963-1067
www.cwu.edu/ film-video

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff Program Director

Michael R. Ogden, PhD, communication

#### **Professors**

Liahna Armstrong, PhD, English Toni Culjak, PhD, English Roxanne Easley, PhD, history Stella Moreno, PhD, foreign languages Michael R. Ogden, PhD, communication Steven Olson, PhD, English Michael J. Smith, MFA, theatre arts

#### **Associate Professors**

Christina Barrigan, MFA, theatre arts
Lois Breedlove, MA, communication
Jeffrey Dippmann, PhD, philosophy and religious studies
Robert Fordan, MA, communication
Matt Manweller, PhD, political science
Lene Pederson, PhD, anthropology
Dieter Romboy, PhD, foreign languages
Christopher Schedler, PhD, English

#### **Assistant Professors**

Steven Jackson, MA, communication Maria Sanders, MFA, communication

#### Lecturers

Helen Harrison, communication Jon Ward, communication

#### **Program Information**

The Film and Video Studies Program is an innovative, interdisciplinary, undergraduate program leading to a BA in film and video studies. Students complete a sequence of core courses and choose a specialization in critical studies, production or screenwriting. Minors are available in critical studies and screenwriting.

#### **Program Standards**

A film and video studies specialization or minor can be selected by students using the normal major or minor declaration process and with assistance from a faculty advisor. Any student who has taken COM 201 and FVS 250 and passed with a combined B average or better and has a minimum CWU grade point average of 2.4 or higher may be admitted to this program. Students must maintain a 2.4 GPA or higher with a minimum grade of C- in all courses counted toward fulfilling the film and video studies major or minor requirements.

#### Majors, Specializations and Minors

The Film and Video Studies Program provides students the opportunity to pursue a course of study in either the critical study of film, the production and technical aspects of the moving image or writing for the screen. The film and video studies program employs a scholarly, creative, and professional approach to the study of both film and television and seeks to help each student discover his or her talent as an independent critic, artist, and communicator. The program provides an education in the history and theory of film, television, and digital media art forms and basic learning experiences in production within the context of a liberal arts education.

The film and video studies specializations require a sequence of core courses. Students are strongly encouraged to complete the core (except for FVS 489) prior to the beginning of their junior year. After completing the core (23 credits excepting FVS 489), students will be required to choose one of three specialization focusing on either critical studies which examines the history, theory, criticism and aesthetics of both film and television (50 credits), production (50 credits), which exposes students to the fundamentals of the production processes in film and video, or screenwriting (50 credits), allowing students to develop mastery in a variety of narrative screenplay and teleplay writing disciplines. Students may choose to pursue a double specialization in critical studies and either production or screenwriting, or a double specialization in production and screenwriting: however, they may count only the core requirements toward satisfying the requirements of both specializations. Minors are also offered in critical studies and screenwriting.

The program encourages students to look at moving images from the vantage point of other disciplines. To this end, the film and video studies program includes courses from a number of other departments and programs on campus, including anthropology, communication, English, foreign languages, philosophy, political science, religious studies, sociology, and theatre arts.

#### Bachelor of Arts

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

#### Film and Video Studies Major, BA

Students must maintain a 2.4 GPA or higher with a minimum grade of C- in all courses counted toward fulfilling the film and video studies major or minor requirements.

Film and Video Studies Core Requirements

- COM 201 Media and Culture Credits: (4)
- COM 321 Visual Communication Credits: (4)
- COM 330 Media Aesthetics Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)
- FVS 250 Introduction to Film and Video Studies Credits: (5)
- FVS 489 Senior Colloquium Credits: (2)

Total Core Credits: 25

Select one of the following specializations - Credits 50 Critical Studies Production

Total Credits: 75

#### **Critical Studies Specialization**

The critical studies specialization explores the history, theory, and criticism of film and television. Students examine cinema's role as a unique 20th century art form and the contributions of moving image media as cultural practices of enduring social significance. In the critical studies specialization, they explore film and television texts in relation to the world these texts represent; not only the varied meanings of these texts, but also the processes by which these meanings are constructed. Students will develop the skills to analyze the power and responsibility of American and international film and television and new media technologies from formal, aesthetic, historical, social, and ideological perspectives.

To complete the learning experience, all students pursuing the critical studies specialization are expected to compile a portfolio. FVS 489 "Senior Colloquium" is designed to facilitate this goal. Those students wishing to continue on to graduate school may also want to complete an independent writing project. FVS 496 "Individual Study" is designed to fill this role.

Students must maintain a 2.4 GPA or higher with a minimum grade of C- in all courses counted toward fulfilling the film and video studies major or minor requirements.

Film and Video Studies Core Requirements

- COM 201 Media and Culture Credits: (4)
- COM 321 Visual Communication Credits: (4)
- COM 330 Media Aesthetics Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)
- FVS 250 Introduction to Film and Video Studies Credits: (5)
- FVS 489 Senior Colloquium Credits: (2)

Total Core Credits: 25

#### Required Courses

- COM 353 History of Narrative Film **Credits:** (4) OR ENG 353 History of Narrative Film (4)
- COM 354 History of Television Credits: (4) OR ENG 354 History of Television (4)
- ENG 360 World Cinema Credits: (5)
- ENG 461 Studies in Film and Culture Credits: (5)
- ENG 462 Studies in Film and/ or Television Genres Credits: (5)
- ENG 463 Studies in the Film Auteur **Credits:** (5)

Select two International Cinema courses: Credits: 8

- AST 465 Indian Cinema Credits: (4)
- CHIN 461 Chinese Cinema Credits: (4)
- FR 460 French Cinema Credits: (4)
- GERM 464 German Cinema Credits: (4)
- JAPN 462 Japanese Cinema Credits: (4)
- RUSS 462 Russian Cinema Credits: (4)
- SPAN 446 Hispanic Cinema Credits: (4)

Elective Courses in Critical Studies Credits: 14

Course credits taken above not used to satisfy a requirement may be used as elective credits. Students may repeat the following variable topic courses with different topics: ENG 461, ENG 462 and ENG 463.

- COM 267 Screenwriting Fundamentals **Credits:** (4) OR ENG 267 Screenwriting Fundamentals (4)
- COM 355 History of Documentary Credits: (4) OR ENG 355 - History of Documentary (4)
- COM 357 Scriptwriting for Serial Media **Credits:** (4) OR ENG 357 Scriptwriting for Serial Media (4)
- COM 369 Mass Media and Society Credits: (4)
- COM 456 History and Practice of Convergent Gaming Credits: (4)
- COM 469 Media and Cultural Studies Credits: (4)
- FVS 490 Cooperative Education Credits: (1-12)
- FVS 491 Workshop **Credits:** (1-6)
- FVS 492 Practicum **Credits:** (2)

- FVS 496 Individual Study Credits: (1-6)
- FVS 498 Special Topics Credits: (1-6)
- FVS 499 Seminar Credits: (1-6)
- PHIL 402 Ethics and Film **Credits:** (5)
- POSC 441 Politics and Film Credits: (5)
- RELS 402 Religion and Film **Credits:** (5)
- TH 166 Theory of Play Production Credits: (3)

Total Credits: 75

#### **Production Specialization**

The production specialization is designed to build specific skills in media production from a strong foundation of general knowledge in film and television. Students can choose from a wide range of courses that offer both introductory as well as more advanced study in all aspects of mediated storytelling, from writing and producing to directing, cinematography, and editing. The production specialization emphasizes exploration of the student's personal creative voice through hands-on productions. This process allows students to develop skills in all areas of the craft, exploring both the creative and technical aspects of film/ video production.

All students in the production specialization begin by making short programs, then progress to more complex productions while learning the collaborative nature of film/video production through crew experiences. Students are encouraged to experiment with traditional narrative structures, documentary, multi-camera television production, and/or new media as the curriculum allows and their interests dictate. Student projects can range from traditional films to the most intensely personal experimental works.

To complete the learning experience and help students prepare for the job market, all students pursuing the production specialization are strongly encouraged to take advantage of internship opportunities and are required to compile a portfolio. FVS 489 - Senior Colloquium and FVS 490 - Cooperative Education are designed to facilitate these goals. Those students wishing to continue on to graduate film school may also want to complete an independent film or video production project. FVS 492 - Practicum is designed to fill this role.

Students must maintain a 2.4 GPA or higher with a minimum grade of C- in all courses counted toward fulfilling the film and video studies major or minor requirements.

Film and Video Studies Core Requirements

- COM 201 Media and Culture Credits: (4)
- COM 321 Visual Communication Credits: (4)
- COM 330 Media Aesthetics Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)
- FVS 250 Introduction to Film and Video Studies Credits: (5)
- FVS 489 Senior Colloquium Credits: (2)

Total Core Credits: 25

#### Required Courses

- COM 322 Introduction to Studio Production Credits: (4)
- COM 341 Introduction to Field Production Credits: (4)
- COM 346 Production Management for Film and Video Credits: (4)

#### Select One

- COM 267 Screenwriting Fundamentals Credits: (4)
- ENG 263 Introduction to Creative Writing **Credits:** (5)
- ENG 267 Screenwriting Fundamentals Credits: (4)
- TH 330 Introduction to Playwriting Credits: (4)

#### Select One

- COM 328 Scriptwriting for Interactive Entertainment Credits: (4)
- COM 337 Documentary Scriptwriting Credits: (4)
- COM 357 Scriptwriting for Serial Media Credits: (4)
- COM 447 Narrative Screenwriting I Credits: (4)
- ENG 357 Scriptwriting for Serial Media Credits: (4)

#### Select One

- COM 431 Editing for Television and Film **Credits:** (4)
- COM 432 Directing TV and Film Credits: (4)

#### Select One

- COM 422 Advanced Multi-camera Production Credits: (4)
- COM 440 Corporate Media Production Credits: (4)
- COM 441 Documentary Production Credits: (4)

#### Select One

- COM 353 History of Narrative Film Credits: (4)
   OR ENG 353 History of Narrative Film (4)
- COM 354 History of Television Credits: (4) OR ENG 354 - History of Television (4)
- COM 355 History of Documentary Credits: (4) OR ENG 355 - History of Documentary (4)

#### Select from the following: Credits 6

- COM 452 Applied Video Production Credits: (1-2)
- FVS 490 Cooperative Education Credits: (1-12)
- FVS 492 Practicum Credits: (2)

Elective Courses in Production: Credits 12

Course credits taken above not used to satisfy a requirement may be used as elective credits. Students may repeat the following variable topic courses with different topics: COM 315, ENG 461, ENG 462, and ENG 463.

- ANTH 351 Visual Anthropology Credits: (4)
- COM 315 Studies in Communication Credits: (1)
- COM 369 Mass Media and Society Credits: (4)
- COM 382 History of American Journalism Credits: (4)
- COM 456 History and Practice of Convergent Gaming Credits: (4)
- COM 457 Narrative Screenwriting II Credits: (5)
- COM 460 Communication Law Credits: (4)
- COM 467 Narrative Screenwriting III Credits: (5)
- COM 469 Media and Cultural Studies Credits: (4)
- ENG 461 Studies in Film and Culture **Credits:** (5)
- ENG 462 Studies in Film and/ or Television Genres Credits: (5)
- ENG 463 Studies in the Film Auteur Credits: (5)
- ENG 467 Advanced Narrative Screenwriting Credits: (4)
- FVS 491 Workshop Credits: (1-6)
- FVS 496 Individual Study Credits: (1-6)
- FVS 498 Special Topics Credits: (1-6)
- FVS 499 Seminar **Credits:** (1-6)
- PHIL 402 Ethics and Film **Credits:** (5)
- TH 144 Foundations of Acting Credits: (3)
- TH 166 Theory of Play Production Credits: (3)
- TH 244 Basic Acting 1 Credits: (3)
- TH 268 Lighting Technology Credits: (3)
- TH 329 Directing I Credits: (3)
- TH 356 Stage Sound Credits: (3)
- TH 368 Stage Lighting Credits: (3)
- TH 430 Script Writers Workshop Credits: (4)
- TH 474 Acting for Film and Television **Credits:** (4)

Total Credits: 75

#### **Screenwriting Specialization**

Students who elect to pursue the screenwriting specialization will learn the key elements of creating scripts for film, serial media (TV, Webisodes, Mobisodes) and video games. Starting with the fundamentals, students will focus on story structure, plot, scene development, characterization and dialogue. As students advance through the required and elective courses, they will begin to hone their voice through a series of writing assignments designed to guide students toward mastering the basics of narrative storytelling in an environment designed to simulate the world of the professional screenwriter.

To complete the learning experience and help students prepare for the job market, all students pursuing the screenwriting specialization are expected to compile a portfolio. COM 327 Scriptwriter in Development and Production and FVS 489 Senior Colloquium are designed to facilitate this goal.

Those students wishing to continue on to graduate film school may also want to complete an independent scriptwriting project. FVS 492 Practicum and FVS 496 Individual Study are designed to fill this role.

Film and Video Studies Core Requirements

- COM 201 Media and Culture Credits: (4)
- COM 321 Visual Communication Credits: (4)
- COM 330 Media Aesthetics Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)
- FVS 250 Introduction to Film and Video Studies Credits: (5)
- FVS 489 Senior Colloquium Credits: (2)

Total Core Credits: 25

#### Required Courses

- COM 267 Screenwriting Fundamentals Credits: (4)
   OR ENG 267 Screenwriting Fundamentals (4)
- COM 327 Scriptwriter in Development and Production Credits: (4)
- COM 357 Scriptwriting for Serial Media Credits: (4)
   OR ENG 357 Scriptwriting for Serial Media (4)
- COM 447 Narrative Screenwriting I Credits: (4)
- COM 457 Narrative Screenwriting II Credits: (5)
- COM 467 Narrative Screenwriting III Credits: (5)

Select one of the following: Credits: 4

- COM 328 Scriptwriting for Interactive Entertainment Credits: (4)
- COM 337 Documentary Scriptwriting Credits: (4)
- COM 356 Writing for Screen Genre **Credits:** (4)

Select one of the following: Credits: 4

- COM 353 History of Narrative Film **Credits:** (4) OR ENG 353 History of Narrative Film (4)
- COM 354 History of Television Credits: (4) OR ENG 354 History of Television (4)
- COM 355 History of Documentary Credits: (4) OR ENG 355 History of Documentary (4)

Elective Courses in Screenwriting: Credits: 16

Course credits taken above not used to satisfy a requirement may be used as elective credits. Students may repeat the following variable topic courses with different topics: ENG 461, ENG 462, and ENG 463.

- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 350 Persuasion and Culture Credits: (4)
- COM 369 Mass Media and Society Credits: (4)
- COM 456 History and Practice of Convergent Gaming Credits: (4)
- ENG 263 Introduction to Creative Writing Credits: (5)
- ENG 304 English Linguistics **Credits:** (5)
- ENG 320 English Grammar Credits: (5)
- ENG 360 World Cinema Credits: (5)
- ENG 364 Fiction Writing **Credits:** (5)
- ENG 366 Creative Nonfiction Writing Credits: (5)

- ENG 461 Studies in Film and Culture Credits: (5)
- ENG 462 Studies in Film and/ or Television Genres Credits: (5)
- ENG 463 Studies in the Film Auteur **Credits:** (5)
- ENG 464 Advanced Fiction Writing Credits: (5)
- ENG 466 Advanced Creative Nonfiction Writing Credits: (5)
- FVS 491 Workshop Credits: (1-6)
- FVS 492 Practicum **Credits:** (2)
- FVS 496 Individual Study **Credits:** (1-6)
- FVS 498 Special Topics Credits: (1-6)
- FVS 499 Seminar **Credits:** (1-6)
- TH 107 Introduction to Theatre **Credits:** (4)
- TH 144 Foundations of Acting Credits: (3)
- TH 166 Theory of Play Production Credits: (3)
- TH 313 Writing for Children's Theatre **Credits:** (3)
- TH 330 Introduction to Playwriting Credits: (4)
- TH 430 Script Writers Workshop Credits: (4)

Total Credits: 75

#### **Critical Studies Minor**

Students wishing to explore the history, theory, and criticism of film and television in addition to their major course of study, are encouraged to minor in critical studies. In this minor students examine cinema and television's role as a unique twentieth-century art form and as cultural practices of enduring social significance. FVS majors may not take this minor due to overlapping of courses. Students must maintain a 2.4 GPA or higher with a minimum grade of C- in all courses counted toward fulfilling the film and video studies major or minor requirements.

#### Required Courses

- COM 201 Media and Culture Credits: (4)
- COM 321 Visual Communication Credits: (4)
- COM 330 Media Aesthetics Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)
- FVS 250 Introduction to Film and Video Studies Credits: (5)

Select one of the following - Credits: 4

- COM 353 History of Narrative Film **Credits:** (4) OR ENG 353 History of Narrative Film (4)
- COM 354 History of Television **Credits:** (4) OR ENG 354 History of Television (4)
- COM 355 History of Documentary Credits: (4) OR ENG 355 History of Documentary (4)

Select one of the following - Credits: 5

- ENG 461 Studies in Film and Culture **Credits:** (5)
- ENG 462 Studies in Film and/ or Television Genres Credits: (5)
- ENG 463 Studies in the Film Auteur Credits: (5)

Total Credits: 32

#### **Screenwriting Minor**

The screenwriting minor offers students a solid foundation in traditional screenplay format, conventional cinematic storytelling, theoretical approaches to screenwriting, adaptation of other media to the screen and screenwriting for non-traditional story structures.

Film and video studies majors specializing in production or critical studies who wish to add the screenwriting minor may not use these courses to satisfy elective requirements in their specializations.

#### Required Courses

- COM 201 Media and Culture Credits: (4)
- COM 267 Screenwriting Fundamentals **Credits:** (4) OR ENG 267 Screenwriting Fundamentals (4)

- COM 447 Narrative Screenwriting I Credits: (4)
- COM 457 Narrative Screenwriting II Credits: (5)
- COM 467 Narrative Screenwriting III Credits: (5)
- ENG 344 Film Theory and Criticism Credits: (5)

Select one of the following: Credits: (4)

- COM 327 Scriptwriter in Development and Production Credits: (4)
- COM 328 Scriptwriting for Interactive Entertainment Credits: (4)
- COM 337 Documentary Scriptwriting Credits: (4)
- COM 356 Writing for Screen Genre **Credits:** (4)
- COM 357 Scriptwriting for Serial Media Credits: (4)
   OR ENG 357 Scriptwriting for Serial Media (4)

Total Credits: 36

#### Film and Video Studies Courses FVS 250. Introduction to Film and

Video Studies (5). Overview of film and video studies, including film viewing and analysis, motion picture language, film genres, and production aspects. Emphasis on the social context, cultural influences, and aesthetic qualities of film. Prerequisite: ENG 101 with a grade of C- or higher. AH-Aesthetic Experience (W)

### FVS 489. Senior Colloquium (2). Students prepare end-of-major

portfolios, which illustrate the competence in critical and theoretical analysis of film and video production. Grade will either be S or U.

# FVS 490. Cooperative Education (1-12). Practical experience in career fields in Film and Video Studies. Individual contract field experience with business, industry, government, or non-profit organization. Requires a student learning plan, cooperating employer supervision, and faculty

coordination. May be repeated for a total of 12 credits. Grade will either be S or U.

FVS 491. Workshop (1-6).
FVS 492. Practicum (2). Practice planning instruction, teaching, and assessing learning.
Prerequisites: major status and program director approval. May be repeated for credit. Grade will either be S or U.

FVS 496. Individual Study (1-6). FVS 498. Special Topics (1-6). FVS 499. Seminar (1-6).

#### **Finance and Supply Chain Management Department**

College of Business Ellensburg (E) Shaw-Smyser Hall, room 303 CWU-Des Moines (D) CWU-Lynnwood (L) 509-963-2032 Fax: 509-963-2875

www.cwu.edu/finance-supply

See website for how this program may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Eldon Johnson, PhD (L)

#### **Professors**

Eldon Johnson, PhD, finance (L)

#### **Associate Professors**

Ozden Bayazit, PhD, supply chain management (L) Gary Richardson, PhD, finance (E) Michael Young, PhD, finance (E)

#### **Assistant Professors**

Deepak Iyengar, PhD, supply chain management (E) Ke Ke, PhD, supply chain management (D) Yong Joo Lee, PhD, supply chain management (E) Kun Liao, PhD, supply chain management (L) Samuel Otim, PhD, management information systems (E) Carlo Smith, PhD, supply chain management (E) Fang Wang, PhD, finance (D)

#### Staff

Shirley Hood, secretary senior

#### **Bachelor of Science in Business Administration Program**

The Department of Finance and SCM and the Department of Management jointly support the bachelor of science in business administration-general business specialization and business minor. The department offers coursework leading to the bachelor of science in business administration (BSBA) degree. In addition to the university general education requirements, the BSBA major is comprised of three principal components:

- Pre-admission courses that provide foundation knowledge and skills needed for further study in business
- Business core courses that build on the pre-admission group and focus on decision making in the main functional areas of business
- Specialization courses that allow for advanced study in one of the functional areas.

Students matriculating in Ellensburg select a 25-credit specialization within the BSBA program in one of six areas: finance, general business, human resource management, management and organization, marketing management, or supply chain management. Students matriculating at a university center are limited to the 25-credit general business specialization.

#### Program Goals for BSBA

The departments have identified overall educational outcomes related to knowledge, values, and skills for all BSBA graduates. Following are the outcomes for the bachelor of science in business administration (BSBA) programs:

- 1. Knowledge-based educational outcomes. Upon completion of the BSBA program, students should:
  - Have a working knowledge of business administration that will aid them in private, government, or non-profit careers and/or prepare them for additional study
- 2. Values-based educational outcomes. Upon completion of the BSBA program, students should:
  - Comprehend ethical issues and be able to apply an ethical decision-making framework to business decisions
- 3. Skills-based educational outcomes. Upon completion of the BSBA program, students should:
  - Function effectively when in teams both as a leader and as a member
  - Demonstrate effective oral communication skills
  - Demonstrate effective written communication skills
  - Apply quantitative and qualitative critical thinking skills to develop, access, and use information to analyze business problems and propose feasible solutions

#### **Transfer Credits and Prior Learning Assessment**

Equivalent lower-division (100-200 level) courses may be transferred toward meeting the pre-admission requirements. Upper-division (300- to 400-level) courses may also be transferred toward meeting the business core and specialization requirements, but only with the approval of the department chair and the college dean (or designee).

#### Repeat Policy

Business administration courses may be repeated only once.

#### Service to Other Majors

Students majoring outside of the College of Business who are required to take courses in this college for either their major or minor will be eligible to enroll on a space-available basis. These students will be given priority over other non-college majors wishing to enroll in upper-division courses.

#### BSBA with a Specialization in Finance

#### Advisors:

Bruce Bagamery, PhD Eldon Johnson, DBA Gary Richardson, PhD Fang Wang, MS Michael Young, PhD

Finance builds on the business core and focuses on decision making in three interrelated areas: managerial finance, investments, and financial markets and institutions. The business core and finance specialization courses provide academic preparation for a wide variety of entry-level positions in managerial finance and the financial services industry.

#### Business Administration Core

#### BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

#### Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Specialization Requirements Credits: 25

#### Select one of the following three specializations:

#### (For Finance)

Finance

- General Business
- Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

#### Required Courses

- ECON 330 Money and Banking Credits: (5)
- FIN 470 Intermediate Financial Management **Credits:** (5)
- FIN 475 Investments Credits: (5)

Select a minimum of 10 credits from the following - Credits: 10 (with no more than 5 credits from ECON classes)

- BUS 490 Cooperative Education Credits: (1-12)
   or one other course approved in advance by a financial advisor Credits: (5)
   Credits: (1 to 6)
- ECON 310 International Economics Credits: (5)
- ECON 332 Public Finance Credits: (5)
- ECON 352 Managerial Economics Credits: (5)
- FIN 466 Working Capital Management Credits: (5)
- FIN 474 Personal Financial Planning Credits: (5)
- FIN 476 Advanced Investments Credits: (5)
- FIN 477 International Finance **Credits:** (5)
- FIN 478 Management of Financial Institutions Credits: (5)
- FIN 479 Derivative Securities and Risk Management Credits: (5)

Finance Specialization Total Credits: 99-100

#### BSBA with a Specialization in General Business (FIN)

**Advisors:** All full-time faculty in the department.

This specialization is intended for the student who wishes to tailor a "unique" set of specialization courses to his or her needs or for the student who desires a broad-based "generalist" track within the business administration major. Twenty-five upper division elective credits are required, including at least 20 credits from business (BUS), finance (FIN), human resource management (HRM), management (MGT), marketing (MKT), management information systems (MIS), or supply chain management (SCM) courses. The remaining five credits may be accounting (ACCT) or economics (ECON). The student is limited to 10 credits from any one area and the specialization must include at least 10 credits of 400-level courses.

#### Business Administration Core

BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR

- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems **Credits:** (5)
- MKT 362 Essential Marketing Concepts Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)

Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

Specialization Requirements Credits: 25

Select one of the following three specializations:

(For Finance)

- Finance
- General Business
- Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

General Business Specialization Credits: 25

Business Administration with a Specialization in General Business Total Credits: 99-100

#### BSBA with a Specialization in Supply Chain Management

#### Advisors:

Ozden Bayazit, PhD Ke Ke, PhD Yong Joo, Lee, PhD Kun Liao, PhD Carlo Smith, PhD

Supply chain management (SCM) builds on the business core and prepares students for careers as analysts, decision makers and managers in any and all segments of the organization's supply, production and distribution chain. Students who complete this program will have a fundamental understanding of the systematic, integrated nature of the creation and delivery of goods and services, and the manner in which the supply, production and distribution chain includes or involves other internal and external entities. Students will be able to solve problems and make decisions in this environment by using concepts from accounting, economics and other business administration areas, computing and analytical skills, and appropriate quantitative and qualitative models.

#### Business Administration Core

#### BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

#### Business Core Requirements Total Credits: 30

• FIN 370 - Introductory Financial Management **Credits:** (5)

- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts **Credits:** (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Specialization Requirements Credits: 25

Select one of the following three specializations:

#### (For Finance)

- Finance
- General Business
- Supply Chain Management

Select one of the following six specializations:

#### (For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

#### Required Courses

- SCM 425 Procurement and Supply Management Credits: (5)
- SCM 435 Advanced Topics in Operations and Supply Chain Management Credits: (5)
- SCM 475 Global Supply Chain Management Credits: (5)
- SCM 480 Supply Chain Strategy Credits: (5)

#### Minimum of 5 credits from the following - Credits: 5

- ACCT 305 Cost Accounting Credits: (5)
- BUS 490 Cooperative Education Credits: (1-12)
   Credits: (1-6)
- ECON 352 Managerial Economics Credits: (5)
- MGT 384 Introduction to International Business Credits: (5)
- MGT 484 International Management Credits: (5)
  OR one other course approved in advance by SCM advisor Credits: (5)
- SCM 324 Quality and Continuous Improvement Credits: (5)

Supply Chain Management Total Credits: 99-100

#### **Supply Chain Management Certificate Program**

#### Advisors:

Ozden Bayazit, PhD Ke Ke, PhD Yong Joo Lee, MS Kun Liao, PhD Samuel Otim, PhD Carlo Smith, PhD

The certificate program provides the opportunity for the student to gain knowledge and skills in the full spectrum of supply chain activities—supplier relationships, purchasing management, operations and inventory management, logistics and transportation, quality management, and information technology. Typical job titles include: purchasing/ supply manager, procurement manager, materials manager, contracts manager, purchasing agent, senior buyer and buyer/ planner.

#### Required Courses

- MIS 386 Management Information Systems Credits: (5)
- SCM 425 Procurement and Supply Management Credits: (5)
- SCM 435 Advanced Topics in Operations and Supply Chain Management Credits: (5)
- SCM 475 Global Supply Chain Management Credits: (5)

#### Select a minimum of 5 credits from - Credits: 5

- ACCT 305 Cost Accounting Credits: (5)
- BUS 490 Cooperative Education Credits: (1-12)
- MGT 384 Introduction to International Business Credits: (5)
- MGT 484 International Management Credits: (5)
- SCM 324 Quality and Continuous Improvement Credits: (5)
- SCM 480 Supply Chain Strategy **Credits:** (5)

Certificate Program Total Credits: 25

#### Additional Notes

This program is open to current accounting, economics, finance, management, marketing and operations supply chain students, CWU students in other academic programs who have completed business pre-admission courses and persons with bachelors' degrees in other fields who have completed business pre-admission courses. The courses in the certificate program may be used as part of the BS Business Administration program. A cumulative GPA of 3.0 must be earned in the program to be eligible for the certificate.

#### **Business Minor (FSCM)**

The business minor provides students with an introduction to several key areas of business administration. Business minors are only available to students with declared majors. Declaration forms, with instructions, are available online, in department and in center offices. Students must earn a cumulative grade point average of 2.25 in courses allowed in fulfilling the busin ess administration minor requirements.

#### **Business Minor Core**

#### Required Courses

- ACCT 252 Managerial Accounting Credits: (5) OR
- ACCT 301 Financial Accounting Analysis **Credits:** (5)
- BUS 241 Legal Environment of Business Credits: (5)
- BUS 374 Personal Investments Credits: (5) OR
- ECON 201 Principles of Economics Micro **Credits:** (5)
- HRM 381 Management of Human Resources Credits: (5)
- MKT 360 Principles of Marketing Credits: (5)
- MGT 380 Organizational Management Credits: (5)

Total Credits: 30

## **Finance Courses**

# FIN 364. Personal Finance (5).

Broad spectrum course covering financial issues encountered by individuals throughout their lives. Topics include but are not limited to: Preparing a personal budget, money management, investments, retirement planning, and insurance. This course cannot be used as a College of Business upper division course. Those students desiring to use this as a general elective course outside the College of Business requirements please e-mail cbadvising @cwu.edu.

# FIN 370. Introductory Financial Management (5). An

introduction to financial decision making. Topics include financial statement analysis, time value of money, risk and return, securities valuation, capital budgeting, cost of capital, and capital structure. Prerequisite: admission to a business, accounting, or economics major with a specialization in general economics, managerial economics, or economic and business forecasting, or an actuarial science major who has completed ACCT 251, ECON 201, MATH 172, MATH 173, and BUS 221 or MATH 311 with grades no lower than a C (2.0). MATH 311 may be taken concurrently.

# FIN 466. Working Capital

Management (5). Course covers the management of current assets and current liabilities, describes the nature and types of short-term credit instruments, and incorporates a significant use of Excel. Prerequisite: FIN 370.

FIN 470. Intermediate Financial Management (5). A review, consolidation, and extension of the FIN 370 class. Additional focus on the theory, practice, and analysis of the firm's investing and financing activities as these activities relate to the value creation process. Prerequisites: FIN 370 and admission to a business administration or accounting major.

# FIN 474. Personal Financial Planning (5). Introduction to full range of financial planning decisions, including: budgeting,

investing, tax planning, risk management, employee benefits, retirement, and estate planning. Prerequisites: FIN 370 and admission to the business administration or accounting

FIN 475. Investments (5). Principles of investment valuation. Topics include a survey of securities and securities markets, analysis of risk, expected return, timing, and selection of stocks and bonds in a portfolio context. Prerequisites: FIN 370 and admission to a business administration, accounting, or actuarial science major.

# FIN 476. Advanced Investments

(5). Portfolio theory, construction, and administration. Cases may be used to analyze key investment decisions and to relate theories and concepts to real-world situations. Prerequisites: FIN 475 and admission to a business administration or accounting major.

# FIN 477. International Finance (5).

Financial decision making in an international setting. Explores both traditional areas of finance and recent innovations in financial management from the perspective of the multinational corporation. Prerequisites: FIN 370 and admission to a business administration or accounting major.

FIN 478. Management of Financial Institutions (5). Asset-liability management process; investment and financing activities of banks, savings and loans, and credit unions. Prerequisites: FIN 370 and admission to a business administration or accounting major.

FIN 479. Derivative Securities and Risk Management (5). Survey of characteristics, markets, and pricing of options, futures, and other derivative securities and their use in managing risk for large and small businesses and investors, domestically and internationally. Prerequisites: FIN 370 and admission to a business administration or accounting major.

# **Management Information Systems Courses**

# MIS 386. Management

Information Systems (5). Use of computer-based information systems in all functional areas of business. Computer and information technology, resources, management, and enduser decision making, and system development. Prerequisites: admittance to a business, accounting, or economics major, with a specialization in either general economics, or economic and business forecasting.

MIS 420. Database Systems in

# Business (5). Database systems theories. Logical data modeling, physical database design and implementation for business process improvement, and

process improvement, and effective business decision making. Structured query language. Prerequisite: MIS 386 and admission to either the business administration or accounting major.

# **Supply Chain Management Courses**

# SCM 310. Supply Chain

Management (5). Adoption of a supply chain orientation toward business management which emphasizes the inter-functional and inter-firm relationships that contribute to improving coordination of operations and performance of organizations that participate in various types of supply chains. OSC 323 and SCM 310 are equivalent courses; students may not receive credit for both. Prerequisites: admittance to a business, accounting, or economics major, and a specialization in economic and business forecasting.

# SCM 324. Quality and Continuous

Improvement (5). Development and deployment of quality management and continuous improvement practices. Qualitative, analytical, and statistical methods which integrate managerial, technical, behavioral, and economic perspectives. Prerequisites: SCM 310, admission to either the business, accounting, or economics major, and a

specialization in economic and business forecasting.

# SCM 425. Procurement and Supply

Management (5). Purchasing processes, procurement cycle analysis, research to support purchasing decisions, supplier relationship development and management, negotiations, commodity planning, costing, pricing, and value analysis related to the purchasing of products and services.

Prerequisites: SCM 310, admission to either the business, accounting, or economics major, and a specialization in economic and business forecasting.

SCM 435. Advanced Topics in Operations and Supply Chain Management (5). Advanced methods and models for planning, management, and decision making involving aspects of supply chain management operations including inventory, transportation, location, purchasing, and other related analyses. Emphasizes integration and coordination of resources for productivity improvement. Prerequisites: SCM 310, admission to either the business, accounting, or economics major, and a specialization in economic and business forecasting.

SCM 475. Global Supply Chain Management (5). Global supply chain activities emphasizing integration of transportation, inventory, warehousing, facility location, customer service, materials handling, packaging, and information. Analysis of product and service delivery and

the associated trade, cultural, and legal factors and influences. Prerequisites: SCM 310 and admission to either the business administration or accounting major.

SCM 480. Supply Chain Strategy

(5). Integration of concepts learned throughout supply chain curriculum into a combined analysis of comprehensive cases incorporating strategic and tactical decision making throughout the supply chain planning and implementation process. Prerequisites: SCM 310 and SCM 435 and admission to a business, accounting, or economics major, and a specialization in economic and business forecasting.

# **Foreign Languages Department**

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 102 509-963-1218 Fax: 509-963-1959

www.cwu.edu/foreign-language

See website for how these programs can be used for educational and career purposes.

# Faculty and Staff

# Chair

Rodney Bransdorfer, PhD

# **Professors**

Rodney Bransdorfer, PhD, Spanish, applied linguistics Nathalie Kasselis, PhD, Spanish Natalie Lefkowitz, PhD, Spanish, applied linguistics Stella Moreno, PhD, Spanish Joshua S. Nelson, PhD, Japanese

# **Associate Professors**

Dieter Romboy, PhD, German Eric Mayer, PhD, Spanish

# **Assistant Professors**

Dinara Georgeoliani, PhD, Russian Alejandro Lee, PhD, Spanish

# **Emeritus Faculty**

Elbert E. Bilyeu, PhD, Spanish Eva-Marie Carne, PhD, German Kelton W. Knight, PhD, French M. Nancy Lester, PhD, Spanish Carlos E. Martin, PhD, Spanish Christian Immo Schneider, PhD, German Rosco N. Tolman, PhD, Spanish

### Lecturers

Steve Cook, BA, American sign language Yuanxia Liu, MA Chinese Laurie Moshier, DA, French Mariko Okada-Collins, MA, Japanese

## Staff

Lindsay Groce, secretary senior

# **Department Information**

The Department of Foreign Languages offers four BA degrees with specializations and minors in Chinese, French, German, Japanese, and Russian. Four BA degrees and two minors are available in Spanish. Teacher certification may also be completed in the target language(s). Course offerings provide (1) an introduction to the nature of the language as a facet of culture; (2) an acquaintance with the literature and culture of the aforementioned languages; and (3) proficiency in speaking, comprehension, and writing.

For non-majors or minors, the first—and second—year sequences are designed to provide basic proficiency in a foreign language. The department recommends that all majors include some organized study in a foreign country where their major language is spoken.

# **Admission to Department Programs**

- 1. Students planning to major or minor must meet with an advisor in the foreign languages department for details about admission requirements, and complete an application form.
- 2. Potential majors must have a grade point average of at least 3.0 in second-year language courses.
- 3. Potential minors must have a grade point average of at least 2.5 in second-year language courses.
- 4. The foreign languages department reserves the right to modify these requirements as the needs of the department change. Any changes would supersede policies previously published in this catalog.

# **Departmental Standards**

Students in non-teaching majors and minors must earn a minimum grade of C+ in each course allowed toward fulfilling the major and/ or minor. Students in teaching majors must earn a minimum grade of B in each course allowed toward fulfilling the major.

# **Departmental Honors**

To earn honors in the Department of Foreign Languages, the student must be a major, at least a first quarter senior, and have a GPA of 3.4 in the foreign language in question. Aspirants must apply in writing to the department chair.

# **Core Course Requirements**

Only courses numbered 200 and above will count toward a major or minor. For students with sufficient preparation the 200 level sequence may be challenged for credit but not waived. Those pursuing a foreign language broad area major or foreign language teaching broad area major will be required to earn at least 10 credits in a study abroad program where the courses are taught in the target language. Students pursuing a Spanish Broad Area major or a Spanish Teaching Broad Area major will be required to earn 10 credits in a study abroad program where the courses are taught in Spanish. Students planning to study abroad must see their advisor prior to departure to ensure the applicability of the proposed course of study. All upperdivision foreign language classes not listed as requirements are approved electives.

# Bachelor of Arts Foreign Language Majors with Specializations

Chinese

German

Russian

French

Japanese

# Foreign Language Broad Area Major, BA

This major does not require a minor. At least 10 credits in the target language must be earned abroad, in a country where the target language is spoken.

# Required Courses

- Completion of the Foreign Language Major courses Credits: (45)
- Electives in language and/ or literature Credits: (15)

# Foreign Language Majors with Specializations, BA

German

Russian

French

Japanese

# Foreign Language Major

This major requires a minor.

# Required Courses

- 251, 252, 253 Second Year Credits: (15)
- 301 Introduction to Literature Credits: (3)
- 310 Civilization and Culture Credits: (3)
- Language electives Credits: (15)
- Literature/ Culture electives Credits: (9)

\*301 and 310 may be taken at an approved exchange institution.

Total Credits: 45

# Foreign Language: Teaching Major, BA

Completion of this major and passing the West E and ACTFL oral and written proficiency exams for French, German, Japanese, and Russian satisfies the endorsement for designated world language.

This major requires a minor and is open only to students pursuing a teaching certificate. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

## Required Courses

- 251, 252, 253 Second Year Credits: (15)
- 301 Introduction to Literature Credits: (3)
- 310 Civilization and Culture Credits: (3)
- 385 Phonetics or Approved Substitute Credits: (3)
- Language electives Credits: (12)
- Literature/ Culture electives Credits: (9)

\*301 and 310 may be taken at an approved exchange institution.

- FNLA 481 Methods and Materials for Language Teaching Credits: (4)
- FNLA 482 Second- and Foreign-language Acquisition Credits: (4) OR
- FNLA 483 Sociolinguistics **Credits:** (4) OR ANTH 483 Sociolinguistics Credits: (4)

Total Credits: 53

# Spanish Broad Area Major, BA

This major does not require a minor. At least 10 credits in Spanish must be earned abroad, in a country where Spanish is spoken.

# Required Courses

- Completion of Spanish Major courses Credits: (47)
- Department-approved electives Credits: (16)

Total Credits: 63

# Spanish Major, BA

This major requires a minor.

# Required Courses

- Spanish Language electives Credits: (8)
- Spanish Literature/ Culture electives Credits: (12)

- SPAN 301 Introduction to Spanish and Latin American Literature Credits: (4)
- SPAN 310 Hispanic Civilizations and Cultures **Credits:** (4)
- SPAN 341 Spanish Composition and Grammar I Credits: (4) OR
- SPAN 345 Spanish for Spanish Speakers I Credits: (4)

# Second Year Spanish Credits: 15

- SPAN 251 Second-year Spanish Credits: (5)
- SPAN 252 Second-year Spanish Credits: (5)
- SPAN 253 Second-year Spanish Credits: (5)

Total Credits: 47

# Spanish Teaching Major, BA

Completion of this major and passing the West E and ACTFL oral and written proficiency exam for Spanish satisfies the endorsement for designated world language.

This major requires a minor and is open only to students pursuing a teaching certificate. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum. Of the 16 elective credits, students must complete at least four approved elective credits in Spanish language courses and at least eight approved elective credits in Spanish literature or culture courses.

# Required Courses

- Department-approved electives Credits: (16)
- FNLA 481 Methods and Materials for Language Teaching Credits: (4)
- SPAN 301 Introduction to Spanish and Latin American Literature Credits: (4)
- SPAN 310 Hispanic Civilizations and Cultures Credits: (4)
- SPAN 341 Spanish Composition and Grammar I Credits: (4) OR
- SPAN 345 Spanish for Spanish Speakers I Credits: (4)
- SPAN 385 Spanish Phonetics Credits: (4)

# Second Year Spanish Credits: 15

- SPAN 251 Second-year Spanish Credits: (5)
- SPAN 252 Second-year Spanish Credits: (5)
- SPAN 253 Second-year Spanish Credits: (5)

# Select Either

- ANTH 483 Sociolinguistics Credits: (4)
- FNLA 482 Second- and Foreign-language Acquisition Credits: (4)
- FNLA 483 Sociolinguistics **Credits:** (4)

Total Credits: 55

# **American Sign Language Minor**

A program designed for students who wish to develop advanced level proficiency in American Sign Language. This minor is of benefit to students planning to work in education, human services, and many other career fields.

# Required Courses

- ASL 251 Second-year American Sign Language Credits: (5)
- ASL 252 Second-year American Sign Language Credits: (5)
- ASL 253 Second-year American Sign Language Credits: (5)
- ASL 301 American Sign Language Literature **Credits:** (5)
- ASL 310 Deaf Culture **Credits:** (5)
- ASL 343 American Sign Language in Education Credits: (5)

Total Credits: 30

# **Foreign Language Minors**

Chinese German

# Russian French Japanese

Courses must be numbered 200 or above.

# Required Courses

- 251, 252, 253 Credits: (15)
- 341 Credits: (3)
- 343 or 345 Credits: (2)
- Department-approved electives Credits: (7)

Total Credits: 27

# **Spanish Minor**

Courses must be numbered 200 or above.

Required Courses

- Department-approved electives Credits: (8)
- SPAN 341 Spanish Composition and Grammar I Credits: (4) OR
- SPAN 345 Spanish for Spanish Speakers I Credits: (4)

Second Year Spanish Credits: 15

- SPAN 251 Second-year Spanish Credits: (5)
- SPAN 252 Second-year Spanish Credits: (5)
- SPAN 253 Second-year Spanish Credits: (5)

Total Credits: 27

# American Sign Language Courses ASL 151, American Sign Language

(5). Conversational approach with intensive visual/ manual drill. Firm foundation in basic signs and structural principles of the language. Students may not receive credit for both ASL 151,152, 153, and EDSE 427, 428, 429. Courses must be taken in sequence.

# ASL 152. American Sign Language

(5). Conversational approach with intensive visual/ manual drill. Firm foundation in basic signs and structural principles of the language. Students may not receive credit for both ASL 151,152, 153 and EDSE 427, 428, 429. Prerequisite: ASL 151. Courses must be taken in sequence.

# ASL 153. American Sign Language

(5). Conversational approach with intensive visual/ manual drill. Firm foundation in basic signs and structural principles of the language. Students may not receive credit for both ASL 151,152, 153 and EDSE 427, 428, 429. Prerequisite: ASL 152. Courses must be taken in sequence.

# ASL 251. Second-year American Sign Language (5). How signers construct meaning and messages in ASL, grammatical variation, and discourse strategies is covered with special focus on increasing non-manual behavior. Courses must be taken in

sequence.

ASL 252. Second-year American Sign Language (5). How signers construct meaning and messages in ASL, grammatical variation, and discourse strategies is covered with special focus on increasing non-manual behavior. Prerequisite: ASL 251. Courses must be taken in sequence.

ASL 253. Second-year American Sign Language (5). How signers construct meaning and messages in ASL, grammatical variation, and discourse strategies is covered with special focus on increasing non-manual behavior. Prerequisite: ASL 252. Courses

must be taken in sequence.

ASL 301. American Sign Language Literature (5). Introduces aspects of ASL literature, including poetry, narrative, humor and folklore. Students will develop knowledge of the literary history of ASL and will acquire skills in comprehending and producing

ASL literary texts. Prerequisite: ASL 253.

# ASL 310. Deaf Culture (5).

Overview of the cultural development and linguistic history of the Deaf. Provides a comprehensive study of the deafworld through analysis of historical events, sociolinguistic factors that affect ASL and current issues. Prerequisite: ASL 253. Permission of instructor.

ASL 343. American Sign Language in Education (5). Overview of current practices concerning the use of ASL in the educational setting. Topics explored will include manually coded English systems, bilingual bicultural education, and language acquisition in deaf children. Prerequisite: ASL 253.

Foreign Language Courses FNLA 298. Special Topics (1-6). FNLA 398. Special Topics (1-6). FNLA 401. Introduction to Romance Linguistics (3).

Analysis of the phonology, morphology, and syntax of the romance languages. Prerequisite: Two years of a romance language. Credits to be counted toward either French or Spanish major or minor.

# FNLA 481. Methods and Materials for Language Teaching (4).

Emphasizes the practical concerns of second- and foreign-language instruction. Explores as a group the theory underlying approaches incorporated into personalized teaching styles. Prerequisites: at least two 300-level courses or equivalent in a foreign language.

FNLA 482. Second- and Foreignlanguage Acquisition (4). This course explores second and foreign language acquisition/ learning from an applied linguistics perspective. Prerequisite: FNLA 481. The focus of this course will be on the learner.

# FNLA 483. Sociolinguistics (4).

Concepts and methods of sociolinguistic analysis in first and second languages. Will examine differences among cultures in the relationship between language usage and inequality. ANTH 483 and FNLA 483 are cross-listed courses; students may not receive credit for both. Prerequisites: either ANTH 180, ENG 180, ANTH 381, or FNLA 481.

FNLA 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. Department consent.

FNLA 491. Workshop (1-6). FNLA 496. Individual Study (1-6). FNLA 498. Special Topics (1-6).

# Chinese Courses CHIN 151. First-year Chinese (5).

Courses must be taken in sequence. Conversational approach with intensive oral-aural drill. A firm foundation in basic structural principles of the language is necessary.

CHIN 152. First-year Chinese (5).

Courses must be taken in sequence. Conversational approach with intensive oralaural drill. A firm foundation in basic structural principles of the language is necessary.
Prerequisite: CHIN 151.

# CHIN 153. First-year Chinese (5).

Courses must be taken in sequence. Conversational approach with intensive oral-aural drill. A firm foundation in basic structural principles of the language is necessary.

Prerequisite: CHIN 152.

# CHIN 251. Second-year Chinese

(5). Graduated readings in modern Chinese writings with discussion conducted in Chinese. Courses must be taken in sequence.

# CHIN 252. Second-year Chinese

(5). Graduated readings in modern Chinese writings with discussion conducted in Chinese. Prerequisite: CHIN 251. Courses must be taken in sequence.

# CHIN 253. Second-year Chinese

(5). Graduated readings in modern Chinese writings with discussion conducted in Chinese. Prerequisite: CHIN 252. Courses must be taken in sequence.

CHIN 298. Special Topics (1-6). CHIN 301. Chinese Literature in Translation (4). A survey of Chinese literature in translation.

Chinese literature in translation.
CHIN 301 and AST 301 are
equivalent courses; students may
not receive credit for both.

# CHIN 341. Intermediate Composition and Grammar (3). Prerequisite: CHIN 253. Should

be taken in sequence.

# CHIN 343. Intermediate

**Conversation** (2). Prerequisite: CHIN 253. Should be taken in sequence.

CHIN 398. Special Topics (1-6).

CHIN 461. Chinese Cinema (4). An examination of the history, aesthetic achievements, major directors and themes, and cultural explorations of Chinese cinema. Includes films from mainland China, Taiwan, and Hong Kong. Prerequisite: FVS 250.

CHIN 496. Individual Study (1-6). CHIN 498. Special Topics (1-6).

# French Courses

# FR 151. First-year French (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural

principles of the language. Courses must be taken in sequence.

# FR 152. First-year French (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural principles of the language. Prerequisite: FR 151. Courses must be taken in sequence.

# FR 153. First-year French (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural principles of the language. Prerequisite: FR 152. Courses must be taken in sequence.

# FR 251. Second-year French (5).

Thorough review of French grammar and graduated readings in modern French prose with discussions conducted in French. Courses must be taken in sequence.

# FR 252. Second-year French (5).

Thorough review of French grammar and graduated readings in modern French prose with discussions conducted in French. Prerequisite: FR 251. Courses must be taken in sequence.

# FR 253. Second-year French (5).

Thorough review of French grammar and graduated readings in modern French prose with discussions conducted in French. Prerequisite: FR 252. Courses must be taken in sequence.

# **FR 298. Special Topics** (1-6).

FR 301. Introduction to French
Literature (3). This course is
designed as a transition course to
prepare students for the
advanced literature courses.
Appreciation of literature and
methods of analysis will be
taught on a basic level through
the careful examination of
specific texts. Prerequisite: FR

FR 341. Intermediate Composition and Grammar (3). Prerequisite: FR 253. Should be taken in sequence with FR 441.

FR 343. Intermediate Conversation (2). Prerequisite: FR 253.

FR 398. Special Topics (1-6).

FR 442. Translation and

253.

**Interpretation** (2). Prerequisite: FR 342.

FR 455. French Poetry Through the Ages (3). Selected masterpieces

from the Middle Ages to the present.

# FR 460. French Cinema (4). Students will view and analyze French films as a backdrop to the discussion of the history of

French cinema.

**FR 491. Workshop** (1-6). May be repeated for credit.

FR 496. Individual Study (1-6). FR 498. Special Topics (1-6).

# **German Courses**

# GERM 151. First-year German (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural principles of the language. Courses must be taken in sequence.

# GERM 152. First-year German (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural principles of the language. Prerequisite: GERM 151. Courses must be taken in sequence.

# GERM 153. First-year German (5).

Conversational approach with intensive oral-aural drill. Firm foundation in the basic structural principles of the language. Prerequisite: GERM 152. Courses must be taken in sequence.

# GERM 251. Second-year German

(5). Graduated readings in modern German prose with discussion conducted in German. Thorough review of German grammar. Courses must be taken in sequence.

# GERM 252. Second-year German

(5). Graduated readings in modern German prose with discussion conducted in German. Thorough review of German grammar. Prerequisite: GERM 251. Courses must be taken in sequence.

# **GERM 253. Second-year German**

(5). Graduated readings in modern German prose with discussion conducted in German. Thorough review of German grammar. Prerequisite: GERM 252. Courses must be taken in sequence.

# GERM 298. Special Topics (1-6). GERM 301. Introduction to

**German Literature** (3). Selected pieces of German literature characteristic of the Middle Ages

to the present. Prerequisite: GERM 253.

GERM 310. German Civilization and Culture (3). The background, development, and especially the present-day situation of the German-speaking areas of the world. Prerequisite: GERM 253.

# **GERM 341. Intermediate**

Composition and Grammar (3). Prerequisite: GERM 253. Should be taken in sequence with GERM 441

# **GERM 343. Intermediate**

**Conversation** (2). Prerequisite: GERM 253.

# **GERM 344. Intermediate**

**Conversation** (2). Prerequisite: GERM 343.

# **GERM 385.** German Phonetics (3).

Designed to show how German is pronounced, and how to attain accuracy, which approximates native-like pronunciation as much as possible. Provides an opportunity to improve pronunciation. Prerequisite: GERM 341.

# GERM 398. Special Topics (1-6).

**GERM 442. Translation and Interpretation** (2). Prerequisite:
GERM 342.

# **GERM 454. The German Narrative**

(3). The German short story, novelle, and novel.

# GERM 464. German Cinema (4).

An examination of the history, aesthetic achievements, major directors and themes, and cultural explorations of German cinema.

**GERM 491. Workshop** (1-6).

GERM 496. Individual Study (1-6). GERM 498. Special Topics (1-6).

# Japanese Courses

# JAPN 151. First-year Japanese (5).

Conversational approach with intensive oral-aural drill. Foundation in basic structural principles of the language. Courses must be taken in sequence.

# JAPN 152. First-year Japanese (5).

Conversational approach with intensive oral-aural drill. Foundation in basic structural principles of the language. Prerequisite: JAPN 151. Courses must be taken in sequence.

# JAPN 153. First-year Japanese (5).

Conversational approach with

intensive oral-aural drill. Foundation in basic structural principles of the language. Prerequisite: JAPN 152. Courses must be taken in sequence.

# JAPN 251. Second-year Japanese

(5). Graduated readings in modern Japanese writings with discussion conducted in Japanese. Courses must be taken in sequence.

# JAPN 252. Second-year Japanese

(5). Graduated readings in modern Japanese writings with discussion conducted in Japanese. Prerequisite: JAPN 251. Courses must be taken in sequence.

# JAPN 253. Second-year Japanese

(5). Graduated readings in modern Japanese writings with discussion conducted in Japanese. Prerequisite: JAPN 252. Courses must be taken in sequence.

# JAPN 298. Special Topics (1-6).

JAPN 341. Intermediate Composition and Grammar (3). Prerequisite: JAPN 253.

# JAPN 342. Intermediate

**Composition and Grammar** (3). Prerequisite: JAPN 341.

# JAPN 343. Intermediate

**Conversation** (2). Prerequisite: JAPN 253.

# JAPN 344. Intermediate

**Conversation** (2). Prerequisite: JAPN 343.

# JAPN 398. Special Topics (1-6).

JAPN 442. Translation and Interpretation (4). Translation into English of Japanese textual material drawn from a wide range of sources. Prerequisite: JAPN 342.

# JAPN 462. Japanese Cinema (4). An

examination of the history, aesthetic achievements, major directors and themes, and cultural explorations of Japanese cinema. Includes close look at Japan's leading auteur directors.

JAPN 496. Individual Study (1-6). JAPN 498. Special Topics (1-6).

# Latin Courses

LAT 151. Latin (5). Translation, declension, and conjugation approach using oral-aural drill. Firm foundation in the basic structural principles.

- LAT 152. Latin (5). Translations, declension, and conjugation approach using oral-aural drill. Firm foundation in the basic principles of the language continuing from Latin 151. Prerequisite: LAT 151.
- LAT 153. Latin (5). Translations, declension, and conjugation approach using oral-aural drill. Firm foundation in the basic principles of the language continuing from LAT 152. Prerequisite: LAT 152.

# **Russian Courses**

# RUSS 151. First-year Russian (5).

Conversational approach with intensive oral-aural drill. Firm foundation in basic structural principles of the language. Courses must be taken in sequence.

# RUSS 152. First-year Russian (5).

Conversational approach with intensive oral-aural drill. Firm foundation in basic structural principles of the language. Prerequisite: RUSS 151. Courses must be taken in sequence.

# RUSS 153. First-year Russian (5).

Conversational approach with intensive oral-aural drill. Firm foundation in basic structural principles of the language. Prerequisite: RUSS 152. Courses must be taken in sequence.

# RUSS 251. Second-year Russian

(5). Thorough review of Russian grammar and graduated readings in Russian prose and poetry with discussions conducted in Russian. Courses must be taken in sequence.

# RUSS 252. Second-year Russian

(5). Thorough review of Russian grammar and graduated readings in Russian prose and poetry with discussions conducted in Russian. Prerequisite: RUSS 251. Courses must be taken in sequence.

# RUSS 253. Second-year Russian

(5). Thorough review of Russian grammar and graduated readings in Russian prose and poetry with discussions conducted in Russian. Prerequisite: RUSS 252. Courses must be taken in sequence.

RUSS 298. Special Topics (1-6).

# RUSS 341. Intermediate Composition and Grammar (3).

Prerequisite: RUSS 253. Should be taken in sequence with RUSS 441

# **RUSS 342. Intermediate**

Composition and Grammar (3). Prerequisite: RUSS 341. Should be taken in sequence with RUSS 441.

RUSS 398. Special Topics (1-6). RUSS 441. Advanced Composition and Grammar (3). Prerequisite: RUSS 342.

# **RUSS 445. Topics in Russian**

Language (2). This course is based on a systematic and functional approach to Russian grammar; from morphology to syntax and text. Prerequisite: RUSS 253 May be repeated up to 6 credits.

# RUSS 462. Russian Cinema (4).

Explores the cultural and historical context of Soviet and post -Soviet film, including exchanges between art and politics, expressions of national identity, depictions of ethnicity, gender and class, and the development of cinematic institutions.

RUSS 496. Individual Study (1-6).

# **Spanish Courses**

# SPAN 151. First-year Spanish (5).

Develop elementary skills in listening, speaking, reading, and writing. For students with the equivalent of fewer than two years high school Spanish. Courses must be taken in sequence.

# SPAN 152. First-year Spanish (5).

Develop elementary skills in listening, speaking, reading and writing. For students with the equivalent of fewer than two years high school Spanish. Prerequisite: SPAN 151. Courses must be taken in sequence.

# SPAN 153. First-year Spanish (5).

Develop elementary skills in listening, speaking, reading, and writing. For students with the equivalent of fewer than two years high school Spanish. Courses must be taken in sequence. Prerequisite: SPAN 152.

**SPAN 181. Intensive Review of First-year Spanish** (5). Intensive

review of first-year Spanish for students with the equivalent of two years of high school Spanish who wish to continue with second-year Spanish. Prerequisite: either at least two years of high school spanish, SPAN 151, or SPAN 152.

# SPAN 251. Second-year Spanish

(5). Develop intermediate skills in listening, speaking, reading, and writing. Courses must be taken in sequence.

# SPAN 252. Second-vear Spanish

(5). Develop intermediate skills in listening, speaking, reading, and writing. Courses must be taken in sequence. Prerequisite: SPAN 251.

# SPAN 253. Second-year Spanish

(5). Develop intermediate skills in listening, speaking, reading, and writing. Courses must be taken in sequence. Prerequisite: SPAN 252.

# SPAN 298. Special Topics (1-6). SPAN 301. Introduction to Spanish

and Latin American Literature (4). This transitional course will prepare students for advanced literature courses by introducing the tools for analysis and critique of literary works in the various genres. Lectures, readings, and discussions will be conducted in Spanish. Prerequisites: SPAN 341 or SPAN 345.

# SPAN 310. Hispanic Civilizations and Cultures (4). This course focuses on the study of major historical and cultural events that have shaped Spanish-speaking societies. Lectures, readings, and discussions conducted in Spanish. Prerequisites: SPAN 341 or SPAN 345.

SPAN 341. Spanish Composition and Grammar I (4). Development of writing skills through the practice of grammar, vocabulary, and rhetorical devices. SPAN 341 and SPAN 345 are equivalent courses; students may not receive credit for both. Prerequisite: SPAN 253

# SPAN 342. Spanish Composition and Grammar II (4). Further development of writing skills through the practice of grammar, vocabulary, and rhetorical devices. SPAN 342 and SPAN 346 are equivalent courses; students

may not receive credit for both. Prerequisite: SPAN 341.

# SPAN 343. Spanish Conversation (4). Development of speaking and listening skills through the practice of grammar, vocabulary, and communicative strategies. Prerequisite: SPAN 253.

- SPAN 345. Spanish for Spanish
  Speakers I (4). Grammar,
  composition and conversation for
  academic purposes for heritage
  speakers of Spanish. SPAN 341
  and SPAN 345 are equivalent
  courses; students may not receive
  credit for both. Prerequisite:
  SPAN 253.
- SPAN 346. Spanish for Spanish
  Speakers II (4). Further
  development of grammar,
  composition, and conversation
  for academic purposes for
  heritage speakers of Spanish.
  SPAN 342 and SPAN 346 are
  equivalent courses; students may
  not receive credit for both.
  Prerequisite: SPAN 345.
- SPAN 385. Spanish Phonetics (4). Analysis of the Spanish sound system. Students will learn to describe, recognize, and produce the sounds of standard Latin American Spanish. Other dialects will also be examined. Prerequisite: SPAN 253.
- SPAN 398. Special Topics (1-6). SPAN 415. Don Quixote (4). This course will focus on the novel Don Quixote (1605, 1615) by Miguel de Cervantes. Prerequisite: SPAN 301.
- SPAN 432. Advanced Spanish Composition and Grammar (4). Advanced grammar, composition, and stylistics through textual analysis and essay writing. Prerequisites: SPAN 342 or SPAN 346.
- SPAN 442. Spanish Translation and Interpretation (4). This course illustrates the specific semantic and syntactic aspects of Spanish in translation by examining a variety of texts and materials. Lectures, readings, and discussions in both English and Spanish. Prerequisites: SPAN 342 or SPAN 346.
- SPAN 445. Spanish Medieval
  Literature (4). This course
  analyzes the most representative
  works, literary genres, and

movements of the Spanish Middle Ages. Lectures, readings, and discussions conducted in Spanish. Prerequisite: SPAN 301.

SPAN 446. Hispanic Cinema (4). Focuses on the analysis of films that represent different aesthetics and genres of Spanish, Latin American, and U.S. Latino filmmaking. The course is offered in English to students of any discipline, and is a literature elective for spanish majors and minors. Film critiques will be written in Spanish for Spanish majors and minors.

- SPAN 449. Spanish Golden Age
  Literature (4). Novel, theatre, and
  poetry in 16th- and 17th-century
  Spain, including works by
  Cervantes, Lope de Vega,
  Calderon, or Quevedo.
  Prerequisite: SPAN 301.
- SPAN 456. The Spanish and Latin Short Story (4). Study of the short-story genre represented in works by major modern and contemporary Spanish and Latin American writers. Lectures, readings, and discussions conducted in Spanish. Prerequisite: SPAN 301.
- SPAN 457. Latin American Theater
  (4). Study of dramatic and performance theories and of theatrical pieces from Latin American playwrights.
  Prerequisite: SPAN 301. Lectures, readings, and discussions conducted in Spanish.
- SPAN 459. Latin American Poetry
  (4). Study of literary conventions of poetry and the major contemporary Latin American poets. Prerequisite: SPAN 301. Lectures, readings, and discussions conducted in Spanish.
- SPAN 466. Spanish Poetry (4). Study of poetic theories and of main developments in the poetry of Spain. Prerequisite: SPAN 301.
- SPAN 467. Spanish and Latin
  American Literature and Film
  (4). Literary criticism of major
  contemporary Spanish and Latin
  American fiction and its
  reflection in film. Prerequisite:
  SPAN 301. Lectures, readings,
  and discussions conducted in
  Spanish.

**SPAN 491. Workshop** (1-6).

SPAN 496. Individual Study (1-6). SPAN 498. Special Topics (1-6).

# Foreign Studies Courses FNST 111. First-year Foreign

Language (1-6). Offered only in study abroad programs. Courses must be taken in sequence, although a student may enroll in more than one at a time in the case of intensive courses. Interested students should contact the Department of Foreign Languages or the Office of International Studies and Programs. May be repeated for credit.

# FNST 112. First-year Foreign

Language (1-6). Offered only in study abroad programs. Courses must be taken in sequence, although a student may enroll in more than one at a time in the case of intensive courses. Interested students should contact the Department of Foreign Languages or the Office of International Studies and Programs. May be repeated for credit.

# FNST 113. First-year Foreign Language (1-6). Offered only in study abroad programs. Courses must be taken in sequence, although a student may enroll in more than one at a time in the case of intensive courses. Interested students should contact the Department of Foreign Languages or the Office of International Studies and

credit.

FNST 211. Second-year Foreign

Language (1-6). Offered only in study abroad programs. May be repeated for credit.

Programs. May be repeated for

- FNST 212. Second-year Foreign Language (1-6). Offered only in study abroad programs. May be repeated for credit.
- FNST 213. Second-year Foreign Language (1-6). Offered only in study abroad programs. May be repeated for credit.
- FNST 310. Culture and
  Civilization (1-6). Major aspects
  of the culture, philosophy and
  way of life of the host country
  will be emphasized. Offered only
  in study abroad programs. May
  be repeated for credit.

# FNST 311. Third-year Foreign

Language (1-6). A study of grammar, conversation, and/or composition at the third-year level. Offered only in study abroad programs. May be repeated for credit.

# FNST 312. Third-year Foreign

Language (1-6). A study of grammar, conversation, and/or composition at the third-year level. Offered only in study abroad programs. May be repeated for credit.

# FNST 313. Third-year Foreign

Language (1-6). A study of grammar, conversation, and/or composition at the third-year level. Offered only in study

abroad programs. May be repeated for credit.

FNST 320. Literature (1-6). An indepth study of one or more authors, periods, or genres of the literature of the host country. Offered only in study abroad programs. May be repeated for credit.

# FNST 411. Fourth-year Foreign

Language (1-6). A study of grammar, conversation, and/or composition at the fourth-year level. Offered only in study abroad programs. May be repeated for credit.

FNST 412. Fourth-year Foreign Language (1-6). A study of grammar, conversation, and/or composition at the fourth-year level. Offered only in study abroad programs. May be repeated for credit.

# FNST 414. Fourth-year Foreign

Language (1-6). A study of grammar, conversation, and/or composition at the fourth-year level. Offered only in study abroad programs. May be repeated for credit.

FNST 420. Literature (1-6). An indepth study of one or more authors, periods, or genres of the literature of the host country. Offered only in study abroad programs. May be repeated for credit.

# **Geography Department**

College of the Sciences Ellensburg Dean Hall, room 301 509-963-1188 Fax: 509-963-1047

www.cwu.edu/geography

See website for how this program may be used for educational and career purposes.

# Faculty and Staff

# Chair

James Huckabay, PhD

# **Professors**

Anthony Gabriel, PhD, hydrology, lake and river ecosystems, coastal and wetlands management Robert Hickey, PhD, environmental impacts, coastal zones, GIS, Australia

James Huckabay, PhD, energy resources, climatology, resource conflict management, Europe Robert Kuhlken, PhD, land-use planning, cultural ecology, historical geography, Oceania

Karl Lillquist, PhD, physical geography, geomorphology, soils, environmental change in arid and alpine watersheds Morris Uebelacker, PhD, human geography, Yakima River basin, field methods

# **Assistant Professors**

John Bowen, PhD, economic geography, transportation geography, Asia Jennifer Lipton, PhD, cultural ecology, remote sensing, climate change, Latin America Mathew Novak, PhD, urban land-use planning, historial geography, GIS Michael Pease, water resources, watershed planning and analysis, North America Craig Revels, PhD, cultural-historical geography, landscape, Latin America Megan Walsh, PhD, biogeography, paleoecology, NW fire history, climate change

# Senior Lecturer

Elaine Glenn, MS, political geography, world regional geography, Middle East

# Lecturer

Clay Arango, PhD, environmental geography, field methods, aquatic landscapes

# **Emeritus Faculty**

Joel M. Andress, PhD James Brooks, PhD Dee Eberhart, MA Kenneth Hammond, PhD Nancy Hultquist, PhD Martin Kaatz, PhD George Macinko, PhD John Ressler, PhD

### Staff

David Cordner, instructional technician Marilyn Mason, secretary senior

# **Department Information**

An understanding of geography is integral to an educated person's ability to live and act effectively in today's changing world. A broad range of factors (human and physical, natural and technological) is at work shaping the future of our planet, and it is the mission of the Department of Geography to prepare students to be active participants in that rapidly developing future. Geography's traditional concern with the interrelatedness of natural and human environments and reasons for their differences from place to place provides important insights into many of the complex problems facing society today.

The department stresses flexibility in the selection of course sequences for majors and encourages study in related departments among the social and natural sciences. We are active participants in the following university programs: Environmental Studies, Energy Studies, Asia/ Pacific Studies, Latin American Studies, International Studies and Programs, and the Resource Management Graduate Program. The department also maintains a well-appointed Geographic Information Systems (GIS) laboratory which benefits majors from other programs in addition to geography.

If you choose to major in geography, you will be required to take a core sequence of six courses. Beyond those core classes, you may then select, with guidance from a faculty advisor, a coherent sequence of coursework in geography and related fields that will best enable you to achieve your goals in life. Graduates from our program work in positions as diverse as middle school teacher, avalanche forecaster, highway or urban planner and GIS supervisor, and many of them continue on to graduate school.

The department is committed to a liberal education as well as to professional training pertaining to resource planning and environmental management. In meeting those commitments, we offer the geographer's way of "seeing" the interrelationships of human life and habitat. Our students learn to see a holistic Earth and its many components-environmental and social—along with the processes that shape them. The department encourages imagination and creativity, while providing our graduates with the skills necessary to deal with issues, at scales ranging from local to global.

All students who wish to major in geography must:

- 1. Have a 2.25 minimum GPA in all coursework taken up to the time of admission
- 2. Apply for acceptance into the geography major
- 3. Upon acceptance into the program, meet with their assigned advisor to develop a major contract
- 4. Earn a C or better grade in each of the courses in their major contract

# **Geography Core Requirements**

GEOG 101 - World Regional Geography 5
GEOG 107 - Introduction to Physical Geography 5
GEOG 108 - Introduction to Human Geography 5
GEOG 203 - Introduction to Maps and Cartography 4
GEOG 250 - Natural Resource
Conservation 4
GEOG 489 - Geography Capstone 2
Geography Core Total Credits: 25

The geography major includes two options: BA - 45 credits, and BA - 60 credits

# Geography Major, BA (45 credits)

NOTE: Students seeking a BA degree must complete one year college or university study or two years high school study of a single foreign language.

All students who wish to major in geography must:

- 1. Have a 2.25 minimum GPA in all coursework taken up to the time of admission.
- 2. Apply for acceptance into the geography major.
- 3. Upon acceptance into the program, meet with their assigned advisor to develop a major contract;
- 4. Earn a C or higher grade in each of the courses in their major contract.

The major of 45 credits is recommended for students who wish to develop a broad knowledge of geography yet retain the overall flexibility to prepare themselves for a variety of employment opportunities or graduate study. Students taking this major are required to have a second major.

# Geography Core Requirements

- GEOG 101 World Regional Geography Credits: (5)
- GEOG 107 Introduction to Physical Geography Credits: (5)
- GEOG 108 Introduction to Human Geography Credits: (5)
- GEOG 203 Introduction to Maps and Cartography Credits: (4)
- GEOG 250 Natural Resource Conservation Credits: (4)
- GEOG 489 Geography Capstone Credits: (2)

Geography Core Total Credits: 25

# Required Courses

Department-approved electives Credits: (20)

Must include an upper-division geography course in each of the five subfields: regional, physical, human, resource, and techniques.

Total Credits: 45

# Geography Major, BA (60 credits)

NOTE: Students seeking a BA degree must complete one year college or university study or two years high school study of a single foreign language.

This major of 60 credits is intended for students who wish to develop depth and breadth in a particular portion of geography in preparation for a career or graduate study in geography. Students may choose one of several areas of emphasis within the geography major.

Areas of emphasis include: geotechniques, global and area studies, physical geography, urban and regional planning, and environmental / resource geography. Recommended electives for each of these emphases are listed on the department's web page. In consultation with a departmental advisor, students may choose a specialization and design a program of component courses which best fits specific career goals and aspirations.

# Geography Core Requirements

- GEOG 101 World Regional Geography Credits: (5)
- GEOG 107 Introduction to Physical Geography Credits: (5)
- GEOG 108 Introduction to Human Geography Credits: (5)
- GEOG 203 Introduction to Maps and Cartography Credits: (4)
- GEOG 250 Natural Resource Conservation Credits: (4)
- GEOG 489 Geography Capstone Credits: (2)

# Geography Core Total Credits: 25

# Required Courses

Department-approved electives Credits: (35)

Must include one upper-division geography course in each of the five subfields: regional, physical, human, resource, and techniques.

Total Credits: 60

# **Geographic Information Systems (GIS) Certificate**

The GIS certificate provides recognition for students completing the required number of GIS-related classes at a high level of competence (minimum average GPA of 2.7). Certification will provide students with a powerful tool to assist their future job searches.

# Required Courses

- GEOG 203 Introduction to Maps and Cartography Credits: (4)
- GEOG 303 Introductory GIS Credits: (5)
- GEOG 404 Intermediate GIS Credits: (5)
- GEOG 410 Airphoto Interpretation **Credits:** (5)
- GEOG 430 Remote Sensing Credits: (5)

Choose from the following electives - Credits: 8

A minimum of 8 credits taken from the list of electives. All electives must be approved by the certificate director.

- Other electives as approved by the director.
- CMGT 267 Plane Surveying Credits: (3)
- CS 110 Programming Fundamentals I Credits: (4)
- CS 111 Programming Fundamentals II Credits: (4)
- CS 301 Data Structures Credits: (4)
- GEOG 409 Quantitative Methods in Geography Credits: (5)
- GEOG 413 Computer Cartography Credits: (4)
- GEOG 417 Advanced GIS Credits: (4)
- GEOG 485 Topics in GIS and Remote Sensing Credits: (4)
- GEOG 490 Cooperative Education **Credits:** (1-12) (with a GIS focus)
- GEOG 496 Individual Study **Credits:** (1-6) (with a GIS focus)

Total Credits: 32

# **Geography Minor**

All students who wish to minor in geography must:

- 1. Apply for acceptance into the geography minor;
- 2. Have a 2.25 minimum GPA in all coursework taken up to the time of admission;
- 3. Earn a C or higher grade in each of the courses required for the minor.

# Required Courses

- Any upper-division geography courses Credits: (7)
- GEOG 101 World Regional Geography Credits: (5)
- GEOG 107 Introduction to Physical Geography Credits: (5)
- GEOG 108 Introduction to Human Geography Credits: (5)
- GEOG 203 Introduction to Maps and Cartography Credits: (4)
- GEOG 250 Natural Resource Conservation Credits: (4)

Total Credits: 30

# Geography Courses GEOG 101. World Regional

Geography (5). Regions and nations of the world together with the changing elements of the physical and human environment that support them. SB-

Perspective on World Culture

# GEOG 107. Introduction to

Physical Geography (5). The complex weather, climate, water, landforms, soils, and biota of Earth's physical environments over space and time. Four hours of lecture and two hours of laboratory each week. NS-Patterns&Connection Natural

**GEOG 108. Introduction to Human** 

Geography (5). Distribution and spatial variation of population, settlement patterns, cultural elements of language, religion, and lifeways, and the economic and political organization of the

planet. SB-Found Human Adaptations

GEOG 203. Introduction to Maps and Cartography (4). Basic introduction to the principles of cartographic communication. Emphasis on using and understanding a wide variety of general purpose, topographic,

and thematic map types. **GEOG 215. Concepts of GIS** (3).

Basic principles and uses of geographic information systems (GIS). Practice with the use of GIS in solving land management and evaluation problems. Two hours lecture and four hours laboratory per week.

# **GEOG 250. Natural Resource**

Conservation (4). The meaning of resources and conservation; population growth and its implications for land management, public control, and environment quality; attitudes

regarding the use of resources; conservation thought and activities in the United States.

# GEOG 265. Geography of the African Diaspora (5).

Examination of the physical and cultural geography, humanenvironment interactions, land scapes, and regional diversity of the African Diaspora.

GEOG 273. Geography of Rivers

(5). Global, regional, and local physical and cultural patterns and processes within river basins. NS-Application Natural Science

GEOG 279. Geography of the West

(1-12). In-depth field examination of the complex, physical, human, and resource issues of one or more of the varied subregions of western North America. May be repeated for up to 12 credits under a different topic.

GEOG 290. Cooperative Education Field Experience (1-5).

Individualized field experience with business, industry, government, or other agency. Requires a student learning plan, cooperating employer supervisors, and faculty coordinator. Prerequisite: sophomore standing or above. May be repeated for up to 10 credits. Grade will either be S or U. By permission.

# Applications, scope, and benefits of Geographic Information Systems (GIS), classification and components of GIS; data acquisition; data management; data errors; implementation considerations; applied

GEOG 303. Introductory GIS (5).

experience using GIS software. Students will be given a computer literacy test during the first week of class. Continued enrollment is dependent upon passing the test. Prerequisites: computer literacy, and GEOG 203, or GEOG 210, or ANTH 323, or BIOL 360.

# **GEOG 304. Economic Geography**

(5). Geographic survey of human livelihood and interaction with the environment. Agriculture, industry, and urbanization are examined in the context of an increasingly interdependent world system.

# GEOG 305. Introduction to Land Use Planning (5). Investigation into the process and practice of urban and regional planning. Emphasis on historical development, legal foundations, and techniques of planning in the United States.

# **GEOG 306. Transportation** Geography and Planning (4). Introduction to the planning and spatial analysis of transportation networks. Evaluation of the economic, environmental, and social consequences of major transportation modes. Application of transportation planning principles at the local, regional, and national scales.

# GEOG 308. Cultural Geography (5). Consequences of cultural diversity in the human occupation of the Earth and the interactions of human and natural systems.

# GEOG 310. Introduction to Landscape Analysis (5).

Application of concepts and techniques of landscape analysis. Specific landscapes are analyzed utilizing various techniques including remotely sensed imagery, historical records, and field observation and measurement

# **GEOG 346. Political Geography**

(4). The spatial structure of political units. The effect of political, economic, social, and Earth resource factors on the areas, shapes, and boundaries of these units, and on the distribution of populations and institutions.

# GEOG 352. Geography of North **America** (5). Examination of the physical and cultural geography, human-environment interactions, landscapes, and regional diversity of the United States, Canada, and Mexico.

# GEOG 355. Geography of the Pacific Northwest (4).

Examination of the physical and cultural geography, humanenvironment interactions, landscapes, and regional diversity of the Pacific Northwest.

GEOG 361. Soils (5). Properties, factors, processes, and classification of Earth's soils, past and present. Four hours lecture and three hours of laboratory or field trips each week. GEOG 361 and GEOG 461 are layered courses; students may not receive credit for both. Prerequisite: GEOG 107.

# GEOG 365. Geography of Africa

(5). Examination of the physical and cultural geography, humanenvironment interactions, landscapes, and regional diversity of Africa, with an emphasis on Subsaharan Africa.

# GEOG 366. Geography of the Middle East (5). Examination of the physical and cultural geography, human-environment interactions, landscapes, and regional diversity of the Middle East.

# GEOG 371. Geography of Europe (5). Examination of the physical and cultural geography, humanenvironment interactions,

landscapes, and regional diversity of Europe.

# GEOG 373. Water Resources (4). Foundation course for understanding the physical and social dimensions of water resource use on a global scale. Special attention paid to issues in the American West, GEOG 107 is

# GEOG 379. Geography of the West (1-12). In-depth field examination of the complex physical, human, and resource issues of one or more of the varied sub-regions of western North America. May be repeated for up to 12 credits under a different topic.

# GEOG 382. Hydrology (5).

recommended.

Provides a comprehensive introduction to both the global and local hydrologic cycle. Covers constituent processes, their measurements and quantitative relationships, plus basic water quality parameters. GEOG 382 and GEOG 482 are layered courses; students may not receive credit for both. Prerequisite: GEOG 107.

# GEOG 386. Geomorphology (5).

Descriptive and interpretive examination of the Earth's landforms and the processes and factors that shape these features over space and time. Four lectures and three hours laboratory or field trips each week. GEOG 386, GEOG 486, and GEOL 386 are cross-listed courses; students may not receive credit for more than one. Prerequisites: (GEOL 101 or GEOL 102 or GEOL 103) and 101LAB or GEOG 107.

# GEOG 387. Biogeography (5). Investigates the functional relationships between

biophysical processes and their spatial and temporal patterns at various scales. Introduces approaches to land systems analysis focusing upon ecosystems. GEOG 387 and GEOG 487 are layered courses, students may not receive credit for both. Prerequisite: GEOG 107.

# GEOG 388. Climatology (5).

Elements, factors and processes affecting Earth's climates, present, past, and future. Four hours lecture and two hours

laboratory/ field per week. Course fee required. GEOG 388 and GEOG 488 are layered courses, students may not receive credit for both. Prerequisite: GEOG 107.

GEOG 398. Special Topics (1-6). GEOG 399. Seminar (1-5).

GEOG 404. Intermediate GIS (5).

Applied concepts, principles, and operation of fundamental GIS applications, including raster-vector data models, topology, digitizing, and various analytical techniques such as overlay, buffers, and Boolean queries. Lecture and practical applications. ANTH 404, GEOL 404, and GEOG 404 are cross-listed courses; students may not receive credit for more than one. Prerequisites: either GEOG 303, GEOL 303, or ANTH 303.

- GEOG 405. Advanced Topics in Land Use Planning (3). Selected issues and problems in land use planning and environmental control. Topics may include growth management, small town and rural planning, or coastal zone management. Prerequisite: GEOG 305. May be repeated for credit under a different subtitle.
- GEOG 407. Advanced Topics in Physical Geography (3). Topics will vary; consult with instructor. May be repeated for credit under a different topic. May be repeated up to 6 credits.
- GEOG 408. Advanced Topics in Human Geography (3). Focuses on the content of GEOG 308 in greater detail with particular emphasis on land use in non industrial societies. Topics will vary; consult with instructor.
- GEOG 409. Quantitative Methods in Geography (5). Quantitative analysis assessment in geography and resource management.

  Emphasis on spatial statistics.

  Prerequisites: MATH 130 or post-baccalaureate/ graduate student standing.
- GEOG 410. Airphoto

Interpretation (5). Introduction to airborne photography and the tools and techniques to apply this photography to geographical issues. Three hours lecture and two hours laboratory per week. Course fee required.

Prerequisites: GEOG 203, or GEOL 210.

**GEOG 413. Computer Cartography** 

(4). Computerized mapmaking basics of contour, choropleth, 3-D, and other thematic maps from digitizing to final color product. Applied experience using cartographic software.

Prerequisites: GEOG 203, or GEOL 210, or ANTH 323, or BIOL 360.

- GEOG 415. Geography of Oceania
  (3). Examination of the physical and cultural geography, humanenvironment interactions, landscapes, and regional diversity of Australia, New Zealand, and the Pacific Islands.
- GEOG 417. Advanced GIS (4).
  Advanced GIS principles, techniques, analysis, and application. Lecture and practical hands-on experience. Applied experience using GIS software. GEOG 417, ANTH 417 and GEOL 417 are cross-listed courses; students may not receive credit for more than one. Prerequisites: GEOG 404, GEOL 404, or ANTH 404.
- GEOG 422. Geography of Food and Agriculture (4). Overview of food and agriculture as it relates to specific geographic regions, production regimes, trade, and cuisine. Domestic and international issues explored through lecture and field study. Prerequisite: junior standing or above.
- GEOG 425. Field Methods in Geography (5). Theory of, and practice in, geography field methods via in-depth field research projects. Topics include field observation, data collection, and data interpretation. Two hours lecture and five hours field per week.
- **GEOG 427. Environmental**

Archaeology (4). Analyses of sediments and plant and animal remains from archaeological sites are used to explore relationships between humans and their environments. Case studies combine natural and physical sciences to study long-term change in landscapes and ecosystems. ANTH427/ 527 AND GEOG427/ 527 are cross-listed

courses. Graduate credit requires an additional research paper to be specified in syllabus. Prerequisites: ANTH 120 or GEOG 107.

GEOG 430. Remote Sensing (5).

Principles of acquisition, analysis, and use of remotely sensed data (LANDSAT, SPOT, Ikonos, etc.). Applied experience using image processing software. Three hours lecture and three hours laboratory per week. GEOG 430, GEOL 430, and GEOL 530 are cross-listed courses; students may not receive credit for more than one course. Prerequisites: GEOG 410 or GEOL 210.

- GEOG 440. Ecology and Culture
  (4). Investigation into
  interdependent environmental
  and human cultural systems.
  Traditional agroecologies and
  subsistence strategies;
  contemporary problems of
  resource management, social
  equity, political ecology, and
  sustainable development. GEOG
  440 and ANTH 440 are crosslisted courses; students may not
  receive credit for both.
- GEOG 441. Climate Change:
  Human and Biophysical
  Dimensions (4). A critical
  analysis and examination of past,
  contemporary and future
  scenarios of climate change with
  a particular focus on the
  biophysical environment and
  human societies.
- GEOG 442. Alternative Energy
  Resources and Technology (5).
  Overview of energy systems,
  with focus on wind, biomass,
  solar, biodiesel, geothermal, and
  sustainable energy systems.
  Includes energy production and
  conversion. Field trips. GEOG
  442 and IET 442 are cross-listed
  courses; students may not receive
  credit for both. Prerequisite:
  junior standing.
- GEOG 443. Energy Policy (5). Legal, institutional, and economic frameworks for regional, national, and international energy decisions. Department Consent Required
- **GEOG 445. Natural Resources Policy** (4). Development and significance of policies affecting

resource management in the United States.

# GEOG 448. Geographic Approaches to Environmental Resource Analysis (5).

Examination of the techniques and methodologies used for the evaluation and sustainable management of environmental resources from a variety of perspectives. Prerequisites: GEOG 107 and GEOG 250.

# **GEOG 450. Arid Environments** (5). Physical, human, and resource

Physical, human, and resource geography of Earth's arid settings. Prerequisite: GEOG 107.

GEOG 451. Mountain Environments (5). Physical, human, and resource geography of mountain settings. Prerequisite: GEOG 107.

# **GEOG 452. Coastal Environments**

(5). Physical, human, and resource geography of coastal environments. Emphasis on physical processes, resource issues, and environmental management of coastal environments. Prerequisite: GEOG 107.

# GEOG 453. Riparian and Wetlands Analysis (5). Physical, human,

Analysis (5). Physical, human, and resource geography of wetland environments. Emphasis on physical processes, resource issues, and environmental evaluation and management of wetland environments.

Prerequisite: GEOG 107.

# **GEOG 454. Forest Environments**

(5). Examinations of topics related to global forest including forest ecology, disturbance regimes, biogeography, and management issues. Case studies will focus on western U.S. forest and highlight the use of geospatial techniques to study forest change. Prerequisites: GEOG 107.

# GEOG 460. Geography of International Trade (5).

Geographic basis of international trade with special emphasis on the Pacific Northwest.

Prerequisite: GEOG 304. Field trips required.

GEOG 461. Soils (5). Properties, factors, processes, and classification of Earth's soils, past and present. Four hours lecture and three hours of laboratory or

field trips each week. GEOG 361 and GEOG 461 are layered courses; students may not receive credit for both. Prerequisite: GEOG 107.

# **GEOG 465. Wine: A Geographical Appreciation** (3). World overview of grape and wine industry emphasizing geographic themes. Includes all-day field trip to Yakima Valley viticultural area. May be repeated for credit.

GEOG 470. Geography of Latin America (4). Examination of the physical and cultural geography, human-environment interactions, landscapes, and regional diversity of Latin America.

Grade will either be S or U.

# GEOG 472. Geography of Russia and the Newly Independent States (4). Examination of the physical and cultural geography, human environment interaction, landscapes, and regional diversity of Russia and the newly independent states that once comprised the USSR.

GEOG 473. Watershed Analysis and Planning (4). Examination of water resource analysis, development, management, and planning in the United States. Focus on contemporary problems, trends, and case studies. Prerequisite: GEOG 373.

# GEOG 474. Geography of China

(4). Examination of the physical and cultural geography, human-environment interactions, landscapes, and regional diversity of China.

# GEOG 475. Geography of Asia (5). Examination of the physical and cultural geography, humanenvironment interactions, landscapes, and regional diversity of Asia.

GEOG 479. Geography of the West (1-12). In-depth field examination of the complex physical, human, and resource issues of one or more of the varied subregions of western North America. May be repeated for credit under a different title by permission of department chair.

# GEOG 481. Urban Geography (5). The spatial and size distribution of cities as explained by their historical development and major functions. Analysis of the internal

structure of cities and the results of urban growth. Prerequisite: GEOG 304.

# GEOG 482. Hydrology (5).

Provides a comprehensive introduction to both the global and local hydrologic cycle. Covers constituent processes, their measurements and quantitative relationships, plus basic water quality parameters. GEOG 361 and GEOG 461 are layered courses; students may not receive credit for both. Prerequisite: GEOG 107.

# GEOG 485. Topics in GIS and Remote Sensing (4). Special topic classes in GIS and remote sensing. Applied experience using GIS or image processing software. Prerequisites: GEOG 303 and 430.

# GEOG 486. Geomorphology (5). Descriptive and interpretive examination of Earth's landforms, and the processes and factors that shape these features over space

and time. Four lectures and three hours laboratory or field trips each week. GEOG 386, GEOG 486, and GEOL 386 are crosslisted courses; students may not receive credit for more than one. By permission only.

# GEOG 487. Biogeography (5).

Investigates the functional relationships between biophysical processes and their spatial and temporal patterns at various scales. Introduces approaches to land systems analysis focusing upon ecosystems. GEOG 387 and GEOG 487 are layered courses, students may not receive credit for both. Prerequisite: GEOG 107.

# GEOG 488. Climatology (5).

Elements, factors and processes affecting Earth's climates, present, past, and future. Four hours lecture and two hours laboratory/ field per week. Course fee required. GEOG 388 and GEOG 488 are layered courses, students may not receive credit for both. Prerequisite: GEOG 107.

# **GEOG 489. Geography Capstone**

(2). Assessment of past coursework and exploration of future opportunities.

Prerequisites: senior standing

and admission to a geography major.

**GEOG 490. Cooperative Education** 

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be

repeated for credit. Grade will either S or U.

**GEOG 491. Workshop** (1-6).

GEOG 492. Geography Teaching

Experience (1-3). Experience in classroom, laboratory, and/ or field teaching. May be repeated for credit with permission of department chair.

GEOG 493. Geography Field

**Experience** (1-12). Individual or group off-campus experience in the field study of geographical phenomena. May be taken more than once by permission of

department chair under a different title.

GEOG 494. Applied GIS Project

(2-6). GIS projects in anthropology, biology, geography, geology, and resource management. ANTH 494, GEOL 494 and GEOG 494 are cross-listed courses; students may not receive credit for more than one.

GEOG 496. Individual Study (1-6). GEOG 498. Special Topics (1-6). GEOG 499. Seminar (1-5).

# **Geological Sciences Department**

College of the Sciences Ellensburg Lind Hall, room 108B 509-963-2702 Fax: 509-963-2821

www.geology.cwu.edu

See website for how these programs could be used for educational and career purposes.

# **Faculty and Staff**

Chair

Lisa L. Ely, PhD

# **Professors**

Wendy A. Bohrson, PhD, volcanology, isotope geochemistry, igneous petrology
Lisa L. Ely, PhD, geomorphology, paleohdrology, and quaternary geology
Carey Gazis, PhD, environmental geochemistry, stable isotope geochemistry, and hydrogeology
Jeffrey Lee, PhD, active and regional tectonics, structural geology
Timothy I. Melbourne, PhD, seismology, continental dynamics
M. Meghan Miller, PhD, crustal deformation, GPS geodesy, active tectonics, and remote sensing
Charles M. Rubin, PhD, paleoseismology, earthquake hazards, and active tectonics

# **Assistant Professors**

Anne Eggers, PhD, Earth science education and structural geology Audrey Huerta, PhD, geodynamics, climate, and mountain building Susan Kaspari, PhD, climate and environmental variability and glaciochemistry Chris Mattinson, PhD, mineralogy and petrology

# **Faculty Research Associates**

Jonathan Glen, PhD, geophysics and paleomagnetism Walter Szeliga, PhD, geophysics and GPS geodesy Carrie Whitehill, PhD, structural geology and tectonics Paul Winberry, PhD, glacier dynamics, seismology

# Lecturers

Keegan Fengler, MS, earthquakes Marie Ferland, PhD, marine statigraphy, climate change Winston Norrish, PhD, petroleum geology Marc Noel, MS petrology

# **Emeritus Professors**

Robert D. Bentley, PhD, structural geology, igneous and metamorphic petrology, regional geology of the Pacific Northwest James Hinthorne, PhD, mineralogy, geochemistry, spatial information systems

## Staff

Rex Flake, tiltmeter engineer, PANGA network engineer and geologist Andrew Miner, PANGA network engineer and geologist Moriah Kauer, secretary
V. Marcelo Santillan, scientific programmer and GPS data analyst Craig Scrivner, systems analyst Linda Shepard, fiscal specialist
Nick Zentner, instructional technician supervisor

# **Department Information**

Geosciences encompass the scientific study of the origin and evolution of the earth. Energy, mineral and water resources, geologic hazards, pollution of natural waters, and earthquake prediction are just a few of the pressing societal concerns that are addressed by geoscientists. The geological sciences program has two major parts: (1) solid-earth geosciences, such as rocks, minerals, deformation, and tectonic evolution of the Earth's crust; and (2) Earth processes over the last 10,000 years, such as active faulting, environmental geochemistry, hydrogeology and water resources, geologic hazards, seismology, surface processes, and volcanology. Field, laboratory, and computer skills are essential to the study of the geological sciences. Research in the geosciences is active and varied, with faculty and students interacting closely. BS and BA degrees are offered in geology and a BS degree in environmental geological sciences. A BA in Earth sciences is also offered, and is intended for future secondary school teachers. Minors in geology and Earth sciences are also available to supplement careers in other fields.

Students who declare a major in geology must register with the department and work out a specific program of study with the chairperson or an assigned advisor. Course programs can be tailored to the student's needs and interests with the aid of an academic advisor. Other course requirements may be modified in cases where past performance indicates superior ability. Students must be evaluated for math placement upon declaration of the major with the goal of establishing proficiency at the MATH 154 level early in the major program.

# Earth Science Teaching Major, BA

This major satisfies the criteria for an endorsement in earth and space science and qualifies students to teach Earth and space science at the high school, middle, or junior high school levels. Students should seriously consider working toward endorsement in a second area, such as biology, chemistry, general science, middle-level science, middle-level mathematics, physics, or mathematics. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum with the exception of EFC 416 and EFC 350 (44 total credits required). Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students must pass the WEST-E exam for Earth and space science to receive an Earth and space science endorsement.

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

# Required Courses

- CHEM 111 Introduction to Chemistry **Credits:** (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1) and
- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 200 Earth's Evolution and Global Change **Credits:** (5)
- GEOL 210 Introduction to Geologic Field Methods **Credits:** (4)
- GEOL 302 Oceans and Atmosphere Credits: (4)
- GEOL 320 Rocks and Minerals Credits: (5)
- GEOL 350 Teaching Northwest Geology Credits: (4)
- GEOL 370 Stratigraphy Credits: (5)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- GEOL 386 Geomorphology Credits: (5)
- GEOL 492B Laboratory Experience Teaching Earth Science Credits: (2)
- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- PHYS 101 Introductory Astronomy I **Credits:** (5)
- SCED 324 Science Education in Secondary Schools I Credits: (3)
- SCED 325 Science Education in Secondary Schools II Credits: (3)

- SCED 401 Interdisciplinary Secondary Science Inquiry Credits: (5)
- SCED 487 Teaching Secondary Science Seminar Credits: (2)

### Select Either

- GEOL 101 Physical Geology Credits: (4) OR
- GEOL 103 Geology of Washington Credits: (4)

Total Credits: 71

# Geology Major, BA

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

The BA degree is designed for students planning professional careers in the geosciences and for those preparing to incorporate geosciences into broader careers such as teaching, resource management, environmental planning, business, or law. The BA degree may be an appropriate prerequisite for some graduate programs, but a BS is generally recommended for those in the geological sciences. Election of this major will allow students to choose supporting courses from disciplines such as computer science, mathematics, and physics or other physical or biological sciences, or from disciplines as diverse as anthropology, environmental studies, or geography.

# Required Courses

- GEOL 101 Physical Geology Credits: (4)
   OR GEOL 103 Geology of Washington (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 210 Introduction to Geologic Field Methods Credits: (4)
- GEOL 305 Quantitative Reasoning for Geoscientists Credits: (4)
- GEOL 320 Rocks and Minerals **Credits:** (5)
- GEOL 346 Mineralogy Credits: (5)
- GEOL 360 Structural Geology Credits: (5)
- GEOL 370 Stratigraphy **Credits:** (5)
- GEOL 487 End-of-major Review Seminar Credits: (1)
- GEOL 489 Geologic Field Methods **Credits:** (6-12)

# Electives selected from the following: (17-20)

- GEOL 377 Regional Natural History Credits: (2)
- GEOL 377LAB Regional Natural History **Credits:** (3)
- GEOL 423 The Cryosphere **Credits:** (5)
- GEOL 432 Field Geodetic Techniques **Credits:** (3)
- GEOL 434 Petroleum Geology Credits: (5)
- GEOL 441 Climate Variability and Climate Change Credits: (5)
- GEOL 452 Geophysics Credits: (4)
- GEOL 453 Seismology Credits: (5)
- GEOL 456 Geodynamics Credits: (5)
- GEOL 463 Tectonic Investigations Credits: (2)
- GEOL 463LAB Tectonic Field Investigation Credits: (3)
- GEOL 474 Quaternary Geology Credits: (4)
- GEOL 475 Petrography and Petrogenesis Credits: (5)
- GEOL 478 Volcanology Credits: (5)
- GEOL 480 Geochemistry Credits: (4)
- GEOL 483 Isotope Geochemistry **Credits:** (5)
- GEOL 484 Geochronology **Credits:** (5)
- GEOL 488 Senior Colloquium in Geology Credits: (4)

# Must take at least one of the following courses:

- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- GEOL 386 Geomorphology **Credits:** (5)
- GEOL 415 Earthquake Geology and Neotectonics Credits: (5)

- GEOL 425 Environmental Geochemistry Credits: (5)
- GEOL 445 Hydrogeology Credits: (5)
- GEOL 452 Geophysics Credits: (4)

# Allied Science Requirements for Bachelor of Arts Degree

• MATH 154 - Pre-calculus Mathematics II Credits: (5)

Select 10 credits from the following: (10)

- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- CHEM 112 Introduction to Organic Chemistry Credits: (4)
- CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1)
- CHEM 113 Introduction to Biochemistry Credits: (4)
- CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II **Credits:** (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

BA Allied Science Total Credits: 15

Bachelor of Arts Total Credits: 77-86

# **Environmental Geological Sciences Major, BS**

Required Courses

• GEOL 101 - Physical Geology Credits: (4)

OR GEOL 103 - Geology of Washington (4)

OR GEOL 108 - Introduction to Environmental Geology (5)

- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 210 Introduction to Geologic Field Methods Credits: (4)
- GEOL 305 Quantitative Reasoning for Geoscientists Credits: (4)
- GEOL 320 Rocks and Minerals **Credits:** (5)
- GEOL 370 Stratigraphy Credits: (5)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- GEOL 386 Geomorphology **Credits:** (5)
- GEOL 425 Environmental Geochemistry Credits: (5)
  - OR GEOL 483 Isotype Geochemistry (5)
- GEOL 445 Hydrogeology **Credits:** (5)
- GEOL 487 End-of-major Review Seminar Credits: (1)

Electives selected from the following - Credits: 24-25

- BIOL 362 Biomes of the Pacific Northwest **Credits:** (4)
- CHEM 345 Environmental Chemistry Credits: (5)
- GEOG 361 Soils **Credits:** (5)
- GEOG 382 Hydrology **Credits:** (5)
- GEOL 302 Oceans and Atmosphere Credits: (4)
- GEOL 377 Regional Natural History Credits: (2)
- GEOL 377LAB Regional Natural History Credits: (3)
- GEOL 410 Snow Sciences: The Physics of Avalanches Credits: (4)
- GEOL 415 Earthquake Geology and Neotectonics Credits: (5)
- GEOL 423 The Cryosphere **Credits:** (5)
- GEOL 425 Environmental Geochemistry Credits: (5)
- GEOL 430 Remote Sensing Credits: (5)
- GEOL 441 Climate Variability and Climate Change Credits: (5)
- GEOL 474 Quaternary Geology Credits: (4)
- GEOL 478 Volcanology Credits: (5)
- GEOL 483 Isotope Geochemistry **Credits:** (5)
- HIST 454 American Environmental History **Credits:** (5)
- PHIL 306 Environmental Ethics Credits: (5)

Must take at least one of the following courses:

- ECON 462 Environmental and Resource Economics Credits: (5)
- ENST 303 Environmental Management Credits: (5)
- ENST 310 Energy and Society Credits: (5)
- GEOG 305 Introduction to Land Use Planning Credits: (5)
- GEOG 373 Water Resources Credits: (4)
- GEOG 445 Natural Resources Policy Credits: (4)

Total Credits: 73-75

Allied Science Requirements for Bachelor of Science Environmental Geological Sciences Degree

A one year series is required in Chemistry and Mathematics; two quarters are required in Physics.

Chemistry - Credits: (15)

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Physics - Credits: (10)

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II **Credits:** (1)

Mathematics - Credits: (10)

- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)

Allied Science Total Credits: 35

BS Environmental Geological Sciences Total Credits: 108-110

# Geology Major, BS

The BS curriculum in geosciences prepares students for careers in solid-earth geosciences and environmental geology. This program assures adequate preparation in the basic physical sciences and breadth in the geosciences, so that students are well prepared for graduate school and have flexibility in career decisions. The BS requires courses in the geological sciences and

additional courses in mathematics, chemistry, and physics. The BS degree is also appropriate for students who wish to continue in other quantitative scientific fields or directions (e.g., medical school).

# Required Courses

- GEOL 101 Physical Geology Credits: (4)
   OR GEOL 103 Geology of Washington (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 210 Introduction to Geologic Field Methods Credits: (4)
- GEOL 305 Quantitative Reasoning for Geoscientists Credits: (4)
- GEOL 320 Rocks and Minerals Credits: (5)
- GEOL 346 Mineralogy Credits: (5)
- GEOL 360 Structural Geology Credits: (5)
- GEOL 370 Stratigraphy Credits: (5)
- GEOL 487 End-of-major Review Seminar Credits: (1)
- GEOL 489 Geologic Field Methods **Credits:** (6-12)

# Electives selected from the following - Credits: 17-20

- GEOL 377 Regional Natural History Credits: (2)and
- GEOL 377LAB Regional Natural History Credits: (3)
- GEOL 423 The Cryosphere **Credits:** (5)
- GEOL 432 Field Geodetic Techniques Credits: (3)
- GEOL 434 Petroleum Geology Credits: (5)
- GEOL 441 Climate Variability and Climate Change **Credits:** (5)
- GEOL 452 Geophysics Credits: (4)
- GEOL 453 Seismology Credits: (5)
- GEOL 456 Geodynamics Credits: (5)
- GEOL 463 Tectonic Investigations Credits: (2)and
- GEOL 463LAB Tectonic Field Investigation Credits: (3)
- GEOL 474 Quaternary Geology Credits: (4)
- GEOL 475 Petrography and Petrogenesis Credits: (5)
- GEOL 478 Volcanology Credits: (5)
- GEOL 480 Geochemistry Credits: (4)
- GEOL 483 Isotope Geochemistry **Credits:** (5)
- GEOL 484 Geochronology **Credits:** (5)
- GEOL 488 Senior Colloquium in Geology Credits: (4)

# Must take at least one of following courses:

- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
- GEOL 386 Geomorphology Credits: (5)
- GEOL 415 Earthquake Geology and Neotectonics Credits: (5)
- GEOL 425 Environmental Geochemistry Credits: (5)
- GEOL 445 Hydrogeology **Credits:** (5)

# Required Courses Total Credits: 62-71

# Allied Science Requirements for Bachelor of Science Degree

# Chemistry - Credits: (10)

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)

# Physics - Credits: (10)

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)

PHYS 182LAB - General Physics Laboratory II Credits: (1)

Mathematics - Credits: (10)

- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)

Select one of the following: (4-5)

- CHEM 183 General Chemistry III Credits: (4)
- MATH 265 Linear Algebra I Credits: (4)
- MATH 272 Multivariable Calculus I **Credits:** (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)

BS Allied Science Total Credits: 34-35

Bachelor of Science Total Credits: 96-106

# **Geology Minor**

Required Courses

- Department-approved electives Credits: (18-20)
- GEOL 101 Physical Geology Credits: (4) OR GEOL 102 - Geology of National Parks (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 320 Rocks and Minerals Credits: (5)

Total Credits: 33-35

# **Geological Sciences Courses** GEOL 101. Physical Geology (4).

An introduction emphasizing the origin and nature of the common rocks and the continually changing features of the earth's crust. Four lectures per week. Coor prerequisite: GEOL 101LAB. NS-Fund Disc Phys&Biological

# GEOL 101LAB. Physical Geology Laboratory (1). Application of map study to geological processes and land forms, identification of rocks and minerals, and local field trips. Two hours laboratory per week. Co-requisite: GEOL 101 or GEOL 102 or GEOL 103. NS-Fund Disc Phys&Biological (L)

# **GEOL 102. Geology of National**

Parks (4). Fundamentals of geology applied to selected national parks in North America. Four lectures per week. Co- or prerequisite: GEOL 101LAB.

# GEOL 103. Geology of

Washington (4). Fundamentals of geology applied to the state of Washington. Topics include Washington's volcanic, earthquake, tectonic, and glacial activity. Four lectures per week.

Corequisite: GEOL 101LAB, NS-Patterns&Connection Natural

# GEOL 107. Volcanoes,

# Earthquakes, and Civilization

(5). The role of natural geologic processes such as volcanoes, earthquakes, and climate change in shaping the earth, the environment and human civilization. Four hour lecture per week plus required field trips. NS-Patterns&Connection Natural

# **GEOL 108. Introduction to**

Environmental Geology (5).

Interaction between human activity and geological processes. Scientific discussion of global environmental issues such as ozone depletion, climate change, geologic hazards, natural resources, and water use. NS-Application Natural Science

# GEOL 200. Earth's Evolution and Global Change (5). Evolution of

Earth, plate tectonics, life, and climate over the last 4.5 billion years. Three lectures, four hours laboratory per week. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB.

# GEOL 210. Introduction to Geologic Field Methods (4).

Introduction to the basic methods

of geologic field investigation. Emphasis on constructing geologic maps. The class will consist of two weeks in the field, primarily along the eastern front of the Sierra Nevada, California, or other regions in the western United States. The class will be offered during the summer break or as arranged by the instructor. Students will register for the class during the immediately subsequent academic year quarter. Extra fees required. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB.

# GEOL 302. Oceans and

Atmosphere (4). Introduction to Earth's climate and the hydrologic cycle through study of the ocean-atmosphere system. Chemical and physical changes will be studied over time scales ranging from millions of years to days. Will include a field trip. Prerequisite: sophomore standing or above. NS-

Patterns&Connection Natural

# **GEOL 305. Quantitative Reasoning** for Geoscientists (4). An introduction to quantitative methods commonly used for observation, analysis, and

interpretation of geologic features and processes. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB, and MATH 100C or above.

GEOL 320. Rocks and Minerals (5). Identification, classification, and evolution of common igneous and metamorphic rocks. Includes recognition and interpretation of rocks in typical field exposures. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB, and any chemistry course. Three hours lecture and three hours laboratory per week plus required field trips.

GEOL 346. Mineralogy (5).

Physical, chemical, and crystallographic properties, and occurrence of minerals.

Examination and description of hand specimens and crystal models. Theory and practice in optical mineralogy and X-ray diffraction. Prerequisite: GEOL 320. Four lectures and three hours laboratory per week.

GEOL 350. Teaching Northwest
Geology (4). Designed for
students planning to teach in
Washington public schools.
Fundamentals of geology applied
to the Pacific Northwest. May
include student presentations
and teaching practica.
Prerequisites: (either GEOL 101
OR GEOL 102, OR GEOL 103)
and GEOL101LAB, and current
WSP/ FBI fingerprint clearance.
Four hours per week.

GEOL 360. Structural Geology (5). Introduction to the basic principles of rock deformation with an emphasis on the geometry, styles, and mechanics of faulting and folding and the stereographic projection and analysis of geologic structures. Prerequisite: GEOL 200. Three lectures and four hours laboratory per week. Field trips required.

GEOL 370. Stratigraphy (5). Origin of sedimentary rocks, physical processes and stratigraphic principles. Identification of sedimentary rocks in hand sample. Prerequisite: GEOL 200. Four hours lecture and four

hours laboratory per week. Three day field trip required.

GEOL 377. Regional Natural
History (2). Classroom study of
the natural history of a selected
region as preparation for a oneor two-week field trip. Emphasis
will be on developing
background skills to undertake a
field exploration over the quarter
(winter, spring, summer) break.
Subtitles will identify the selected
geographical region (e.g. Baja
California Natural History).
GEOL 377 and BIOL 377 are
cross-listed courses. Prerequisite:
Permission of instructor. May be

repeated for credit under a

different subtitle (region).

**GEOL 377LAB. Regional Natural History** (3). One- or two-week field trip to explore biological and physical patterns and processes in selected regions of North America. Emphasis will be on recording field observations, keeping a field journal, field study techniques, and performing investigations chosen and developed by student participants. Subtitles will identify the region studied. BIOL 377LAB and GEOL377LAB are cross-listed courses. Special fees required. May be repeated for credit under a different subtitle.

GEOL 380. Environmental
Geology and Natural Hazards
(4). Examine interactions between humans and their environment from a geologic perspective, evaluating problems such as geologic hazards and the use of Earth's resources. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB. Four lectures per week and required field trips.

GEOL 386. Geomorphology (5).

Descriptive and interpretive examination of the Earth's landforms, and the processes and factors that shape these features over space and time. Four lectures and three hours laboratory or field trips each week. GEOG 386, GEOG 486, and GEOL 386 are cross-listed courses; students may not receive credit for both. Prerequisites: (either GEOL 101 OR GEOL 102,

OR GEOL 103) and (GEOL101LAB or GEOG 107).

GEOL 388. Field Trips (1-3).

Intensive study of geological phenomena on field trips up to two weeks in length. Three days field work for each credit. Extra fees required. Prerequisite: permission of instructor. Course may be repeated for areas of significantly different geologic content. Grade will either be S or II

GEOL 392. Lab Experience
Teaching Physical Geology (1).
Prerequisites: (either GEOL 101
OR GEOL 102, OR GEOL 103)
and GEOL101LAB. May be
repeated up to 2 credits. Grade
will either be S or U.

GEOL 395. Junior Research (1-6).
Prerequisite: by permission only.
May be repeated for up to 12
credits.

GEOL 396. Individual Study (1-6). GEOL 398. Special Topics (1-6). GEOL 404. Intermediate GIS (5).

Applied concepts, principles, and operation of fundamental GIS applications, including rastervector data models, topology, digitizing, and various analytical techniques such as overlay, buffers, and Boolean queries. Lecture and practical applications. ANTH 404, GEOL 404 and GEOG 404 are crosslisted courses; students may not receive credit for more than one. Prerequisites: either GEOG 303, GEOL 303, or ANTH 303.

GEOL 410. Snow Sciences: The Physics of Avalanches (4). Physical processes in avalanches and snow dynamics; snow pack accumulation, redistribution, meta-morphism, energy balance, ablation, and runoff. Field investigations are required under rigorous outdoor conditions. Three hours lecture and six hours field laboratory per week. By permission.

GEOL 415. Earthquake Geology and Neotectonics (5).
Geomorphology, stratigraphy, and structural geology applied to the study of active faults and folds in a variety of tectonic settings. Relation of seismicity

and geodetic measurements to

geologic structure and active

tectonic processes, including case studies of selected earthquakes. Three hours lecture and four hours laboratory per week. GEOL 415 and GEOL 515 are layered courses; students may not receive credit for both. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB.

# GEOL 417. Advanced GIS (4). Advanced GIS principles, techniques, analysis, and application. Lecture and practical hands-on experience. Applied experience using GIS software. GEOL 417, ANTH 417 and GEOG 417 are cross-listed courses; students may not receive credit for more than one . Prerequisites: GEOG 404, GEOL 404, or ANTH 404

- GEOL 423. The Cryosphere (5).

  Components of the cryosphere (ice sheets, mountain glaciers, ice shelves, global snow cover, sea ice extent, and permafrost/ frozen ground) will be examined, including anticipated changes in the cryosphere due to changing climate. GEOL 423 and GEOL 523 are equivalent courses; students may not receive credit for both. Prerequisites: (either GEOL 101 or GEOL 102 or GEOL 103) and GEOL 101LAB, GEOL 200, GEOL 210, CHEM 181 and CHEM 182.
- GEOL 425. Environmental
  Geochemistry (5). Global
  geochemical cycles, influences of
  rocks and soils on water
  chemistry, behavior of isotopes
  and trace elements. Includes class
  project studying local
  environmental geochemistry
  topic. Three lectures plus one
  three-hour lab per week. GEOL
  425 and GEOL 525 are layered
  courses; students may not receive
  credit for both. Prerequisites:
  CHEM 181, CHEM 181LAB,
  CHEM 182, and CHEM 182LAB.
- GEOL 430. Remote Sensing (5).

  Principles of acquisition, analysis, and use of remotely sensed data (LANDSAT, SPOT, Ikonos, etc.).

  Applied experience using image processing software. Three hours lecture and three hours laboratory per week. GEOL 430, GEOG 430, and GEOL 530 are cross-listed courses; students

may not receive credit for more than one. Prerequisites: GEOG 410 or GEOL 210.

# **GEOL 432. Field Geodetic**

Techniques (3). Training in field geodetic techniques, including scientific application of two or more precision surveying instruments: geodetic GPS, differential GPS, and electronic distance meter. Three hours a week and field project, or one-week field course. GEOL 432 and GEOL 532 are layered courses; students may not receive credit for both. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB, and GEOL 200 and GEOL 210.

# GEOL 434. Petroleum Geology (5). Petroleum geology delivers a comprehensive introduction to the application of geology in the oil and gas industry, including the origin and occurrence of petroleum, application of geology in exploration and production, and the evolution of the industry in the context of global demand. GEOL 434 and GEOL 534 are layered courses; students may not receive credit for both. Prerequisite: GEOL 210.

- GEOL 441. Climate Variability and Climate Change (5). Examine past, present, and future changes in climate, and the factors that contribute to climate change over various timescales. GEOL 441 and GEOL 541 are equivalent courses; students may not receive credit for both. Prerequisite: GEOL 200.
- GEOL 445. Hydrogeology (5).

  Study of the occurrence and movement of ground water using geology, hydrology, and geochemistry, with an emphasis on practical problems in water management. Three hours lecture and three hours laboratory per week. GEOL 445 and GEOL 545 are layered courses; students may not receive credit for both.

  Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB, and MATH 154.
- **GEOL 452. Geophysics** (4). Basic elasticity theory, gravity, and geoid analysis. Terrestrial heat flow and seismology.

Prerequisite: MATH 154. Three hours lecture per week plus four hours of scientific computing lab. No prior Unix experience required.

# GEOL 453. Seismology (5).

Elasticity theory, the wave equation, ray theory, diffraction, waveform modeling, travel time inversion. Data analysis. Three hours lecture per week plus four hours of scientific computing lab. Offered alternate years. GEOL 453 and GEOL 553 are equivalent courses; students may not receive credit for both. Prerequisite: MATH 173.

- GEOL 456. Geodynamics (5). Study of plate tectonics and mountain building processes that shape Earth. Lab includes introduction to Matlab software for analysis and visualization. Required field trip. GEOL 456 and GEOL 556 are layered courses; students may not receive credit for both. Prerequisite: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB. Corequisite: MATH 172.
- GEOL 463. Tectonic Investigations
  (2). Classroom study and analysis of tectonics of a selected region.
  Emphasis will be on developing background skills and knowledge to undertake a tectonic field investigation in GEOL 463LAB.
  GEOL 463 and GEOL 563 are layered courses; students may not receive credit for both.
- GEOL 463LAB. Tectonic Field **Investigation** (3). Tectonic investigation and analysis of select field sites employing a variety of field and laboratory measurements such as mapping, tectonic geomorphology, GPS, and Total Station surveying. Course consists of either weekly local field trips during the quarter or single one-week trip over spring break to another region. GEOL 463LAB and GEOL 563LAB are layered courses; students may not receive credit for both. Co-requisite: GEOL 463.
- GEOL 474. Quaternary Geology
  (4). Study of geological processes affecting Earth's most recent history. Course emphasizes global quarternary environmental change, glacial

epochs, paleoclimatic methods, and dating techniques. GEOL 474 and GEOL 574 are layered courses; students may not receive credit for both. Prerequisites: either GEOG or GEOL 386.

- GEOL 475. Petrography and
  Petrogenesis (5). Petrogenetic,
  hand specimen, and thin section
  study of igneous, metamorphic,
  or sedimentary rocks. Three
  hours lecture and four hours
  laboratory or field work per week
  plus required field trips. GEOL
  475 and GEOL 575 are layered
  courses; students may not receive
  credit for both. Offered in
  alternate years.
- of volcanoes and associated deposits, styles of eruption, physical and chemical controls on eruption mechanisms, and volcanic hazards and hazard mitigation. Three hours lecture and four hours laboratory per week plus required field trips. GEOL 478 and GEOL 578 are layered courses; students may not receive credit for both. Offered in alternate years.
- GEOL 480. Geochemistry (4). An introduction to the branches of geochemistry, including the origin of elements, age dating, isotope geochemistry, and petrochemistry. Four hours lecture per week plus required field trips. Prerequisites: GEOL 320, CHEM 182, CHEM 182LAB, and MATH 154.
- GEOL 483. Isotope Geochemistry

  (5). Covers principles of isotope geochemistry and applications to studies of geological processes such as hydrologic cycling, volcanic petrogenesis, and climate change. Three hours lecture per week plus required laboratory work and field trips. GEOL 483 and GEOL 583 are layered course; students may not receive credit for both. Offered in

alternate years. Prerequisites: CHEM 182, CHEM 182LAB, and MATH 154.

- GEOL 484. Geochronology (5). Principles, analytical methods, and interpretation of several of the most widely applied geochronological methods. Computer-based data analysis of problems in igneous and metamorphic petrology, structural geology, sedimentary geology, geomorphology, paleoseismology, and planetary science. GEOL 484 and GEOL 584 are layered courses; students may not receive credit for both. Prerequisites: MATH 172 and GEOL 346 or permission of the instructor.
- GEOL 487. End-of-major Review Seminar (1). Students must be familiar with the language of geology and possess certain basic geologic skills. Coordinates student participation in program assessment activities and provides a structured avenue for student input into program goals. Prerequisite: senior status and intention to graduate during the current year. Grade will either be S or U.
- GEOL 488. Senior Colloquium in Geology (4). Lecture, reading, and presentation of various topics in geology. Three hours lecture plus three hours of discussion per week.

  Prerequisite: senior standing.
- GEOL 489. Geologic Field
  Methods (6-12). Emphasis is
  placed on observation and
  recording of lithologic and
  structural features, measurement
  of stratigraphic and structural
  sections, applications of various
  survey methods, and plotting
  geologic data on topographic and
  aerial photographs in the field.
  The class will be offered during
  summer or winter break, or as
  arranged by the instructor.

Credits will be carried in concurrent or immediately subsequent academic year quarter. Extra fees required. Prerequisites: (either GEOL 101 OR GEOL 102, OR GEOL 103) and GEOL101LAB, and GEOL 200, and GEOL 360.

- GEOL 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.
- GEOL 491. Workshop (1-6).
  GEOL 492A. Experience Teaching
  Upper-level Geology (2).
  Assisting with instruction in
  upper-level geology major lab or
  field courses. May be repeated
  once for the same course, and up
  to a total of four times. Grade will
  either be S or U.
- GEOL 492B. Laboratory
  Experience Teaching Earth
  Science (2). Course designed for
  future Earth science teachers in
  secondary schools. Assist
  teaching one laboratory section of
  GEOL 101LAB and discuss
  laboratory-teaching methods.
  Grade will either be S or U.
- GEOL 494. Applied GIS Project (2-6). GIS projects in anthropology, biology, geography, geology, and resource management. ANTH 494, GEOL 494 and GEOG 494 are cross-listed courses; students may not receive credit for more than one.
- GEOL 495. Senior Research (1-6). May be repeated up to 12 credits. By permission only. GEOL 496. Individual Study (1-6). GEOL 498. Special Topics (1-6). GEOL 499. Seminar (1-5).

# **History Department**

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 100 509-963-1655 Fax: 509-963-1654 www.cwu.edu/ history

See website for how this program may be used for educational and career purposes.

# **Faculty and Staff**

Chair

Karen J. Blair, PhD

### **Professors**

Karen J. Blair, PhD, 20th century U.S., women's history Roxanne Easley, PhD, Russia, Eastern Europe Daniel Herman, PhD, U.S. pre-1877 Marji Morgan, PhD, 19th century British social and cultural history

## **Associate Professors**

Jason Knirck, PhD, Britain/British Empire, Western Europe Stephen Moore, PhD, Pacific Northwest, foreign relations, social studies education

## **Assistant Professor**

Jason Dormady, PhD, Modern Mexico and Latin America, U.S. Borderlands

# **Visiting Professor**

Brian Carroll, PhD, U.S. Colonial, American Revolution, Native American

## Lecturers

Matthew Gile, MA Albert C. Miller, MA Kenneth Munsell, MA Jalynn Padilla, PhD Ian Stacy, MA

# **Emeritus Professors**

Beverly Heckart, PhD, Germany, Europe Zoltan Kramar, PhD, Ancient World Larry Lowther, PhD, Colonial and Revolutionary America Kent Richards, PhD, American West, Pacific Northwest

# Staff

K. Angie Hill, secretary

# **Department Information**

The history faculty offers courses leading to bachelor of arts and master of arts. Students who declare a major in history must register with the department.

# **History Honors Program**

Qualified students are urged to enter the Department of History's Honors Program. To qualify for the program, students must complete 25 credits in their major and have an overall GPA of 3.0 and 3.25 in history. Honors students will complete the following requirements:

- An elective course in addition to those required for their major in an area of concentration (United States, Europe, or non-western)
- A year of coursework in one departmentally approved foreign language at an accredited college or university. If it is the same language as that taken in high school, the student must complete the coursework at the 200 level
- An honors research paper (25 page minimum) completed during HIST 481. A faculty committee will judge whether the paper meets departmental standards for honors.

Students who complete the above requirements will graduate with departmental honors. Please contact the department chair for more information.

# Bachelor of Arts

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

# History Major (Large Plan), BA

(Note: It is recommended that students who plan to enter graduate school should complete two years of a foreign language at the college level.)

Required Courses: Select from the following - Credits: 20

World Civilization

Western Civilization may be substituted for World Civilization

- HIST 101 World Civilization to 1500 Credits: (5)
- HIST 102 World Civilization: 1500-1815 Credits: (5)
- HIST 103 World Civilization Since 1815 Credits: (5)

# United States History

- HIST 143 United States History to 1865 Credits: (5)
- HIST 144 United States History Since 1865 Credits: (5)

# Other Required Courses Credits: 54

- HIST 302 Historical Methods Credits: (5)
- HIST 481 Understanding History Credits: (4)
  - Upper-division United States history Credits: (5)
  - Upper-division European history Credits: (5)
  - Upper-division African, Asian, Middle Eastern, or Latin American history Credits: (10)
  - HIST 401, 402, 0or 403 History Readings Seminar Credits: (5)
  - Upper-division history electives Credits: (20)

Total Credits: 74

# History Major (Small Plan), BA

(Note: It is recommended that students who plan to enter graduate school should complete two years of a foreign language at the college level.)

\*\*Majors requiring fewer than 60 credits must be accompanied by a minor in order to graduate.

Required Courses: Select from the following - Credits: 20

World Civilization

Western Civilization may be substituted for World Civilization

- HIST 101 World Civilization to 1500 Credits: (5)
- HIST 102 World Civilization: 1500-1815 Credits: (5)
- HIST 103 World Civilization Since 1815 Credits: (5)

# United States History

- HIST 143 United States History to 1865 Credits: (5)
- HIST 144 United States History Since 1865 Credits: (5)

# Other Required Courses Credits: 39

- HIST 302 Historical Methods Credits: (5)
- HIST 481 Understanding History Credits: (4)
  - Upper-division United States history Credits: (5)
  - Upper-division European history Credits: (5)
  - Upper-division African, Asian, Middle Eastern or Latin American history Credits: (10)
  - HIST 410, 402, or 403 History Readings Seminar Credits (5)
  - Upper-division history electives Credits: (5)

Total Credits: 59\*\*

# History/Social Studies Teaching, BA

This major satisfies the endorsements for history and social studies. This major is designed for students in the secondary Teacher Training Program. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

# Required Courses

- HIST 301 Pacific Northwest History Credits: (5)
- HIST 302 Historical Methods Credits: (5)
- HIST 421 Methods and Materials in the Social Studies, Secondary Credits: (5)
   Prior completion of EDCS 311 recommended. Students must be admitted to the Teacher Preparation Program prior to enrolling in this course.
- HIST 481 Understanding History Credits: (4)
- POSC 210 American Politics Credits: (5)

Select from the following - Credits: 20

Western Civilization may be substituted for World Civilization courses

- HIST 101 World Civilization to 1500 Credits: (5)
- HIST 102 World Civilization: 1500-1815 Credits: (5)
- HIST 103 World Civilization Since 1815 Credits: (5)
- HIST 143 United States History to 1865 Credits: (5)
- HIST 144 United States History Since 1865 Credits: (5)

Select from the following - Credits: 15

- Upper-division U.S. history Credits: (5)
- Upper-division European history Credits: (5)
- Upper-division African, Asian, Middle Eastern, or Latin American history Credits: (5)

Select from the following - Credits: 5

- ECON 101 Economic Issues Credits: (5)
- ECON 102 World Economic Issues Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)

Select from the following - Credits: 5

- ANTH 107 General Anthropology Credits: (5)
- SOC 101 Social Problems Credits: (5)
- SOC 107 Principles of Sociology Credits: (5)

Select from the following - Credits: 5

- GEOG 101 World Regional Geography Credits: (5)
- GEOG 107 Introduction to Physical Geography Credits: (5)
- GEOG 304 Economic Geography Credits: (5)
- GEOG 308 Cultural Geography Credits: (5)

Select from the following - Credits: 3-5

- GEOG 352 Geography of North America Credits: (5)
- GEOG 355 Geography of the Pacific Northwest Credits: (4)
- GEOG 371 Geography of Europe **Credits:** (5)
- GEOG 415 Geography of Oceania **Credits:** (3)
- GEOG 470 Geography of Latin America Credits: (4)
- GEOG 474 Geography of China Credits: (4)
- GEOG 475 Geography of Asia Credits: (5)

Total Credits: 77-79

# **History Minor**

Required Courses

Select from the following - Credits: 10

World Civilization

Western Civilization may be substituted.

• HIST 101 - World Civilization to 1500 Credits: (5)

- HIST 102 World Civilization: 1500-1815 Credits: (5)
- HIST 103 World Civilization Since 1815 **Credits:** (5)

# United States History

- HIST 143 United States History to 1865 Credits: (5)
- HIST 144 United States History Since 1865 Credits: (5)

Upper-division History electives - Credits: 20

Total Credits: 30

# History Courses HIST 101. World Civilization to

1500 (5). Origins and development of the major world civilizations to the 15th century. A comparative study of their political, social, and economic institutions, and their religious and intellectual backgrounds. Meets the General Education writing requirement. SB-Perspective on World Culture

HIST 102. World Civilization:
1500-1815 (5). A comparative survey of political, social, economic, and cultural developments. For general education (breadth) credit, it is preferred that a student be enrolled in or have completed ENG 101. Meets the General

Education writing requirement.
SB-Perspective on World Culture
(W)
HIST 103. World Civilization

Since 1815 (5). A comparative survey of political, social, economic, and cultural developments. For general education (breadth) credit, it is preferred that a student be enrolled in or have completed ENG 101. Meets the General Education writing requirement. SB-Perspective on World Culture (W)

HIST 143. United States History to 1865 (5). The Colonial, Revolutionary, and National

periods. Meets the General Education writing requirement. SB-Perspectives on Cultures and experiences of U.S. (W)

HIST 144. United States History Since 1865 (5). Reconstruction, Industrial America, and 20thcentury urban America. Recommended ENG 101. SB-Perspectives on Cultures and experiences of U.S. (W)

HIST 298. Special Topics (1-6). HIST 301. Pacific Northwest

**History** (5). Exploration and settlement; subsequent political, economic, and social history with particular emphasis on Washington.

HIST 302. Historical Methods (5).

Exercises in historical research, critical analysis, and interpretation. Prerequisites: sophomore or junior standing and admission to either the history, history teaching broad area, social science, or social science teaching major. Students must earn a minimum grade of C as a major requirement.

HIST 313. History of Rome 500 B.C. to 500 A. D. (5). Beginning, city-state, republican period; world empire; decline.

HIST 314. Military History of the United States (5). A comprehensive and systematic survey and analysis of the American military experience from Colonial times through the Vietnam War. HIST 314 and MSL 314 are cross-listed courses; students may not receive credit for both.

HIST 315. Muslim Middle East (5).

The origins and spread of Islamic civilization and its interaction with Graeco-Roman, Persian, and Indian civilizations. Crusades and the rise and fall of the Ottoman Empire.

HIST 316. Modern Middle East: 1914 to the Present (5). The Arab revolt, the British-French mandates, nationalism, modernization, independence movements, Arab-Israeli struggle, Palestinians, and oil politics.

# HIST 321. Latin America Through Film, Art, and Music (5).

Analyzes the role of film, art, and music in understanding the social, cultural, and political history of Latin America in the colonial and modern eras.

HIST 322. World Prehistory (4).
Old- and New-world prehistory
from late Pliocene to the early
historic period, including the
ecology and development of
hunting-gathering, agriculture,
and state-level societies. HIST 322
and ANTH 322 are cross-listed
courses; students may not receive
credit for both.

HIST 325. Renaissance and Reformation (5). Survey of European political, social, cultural, and economic revolutions from the 14th to16th centuries; including medieval dissolution, humanism, overseas exploration, Protestantism, and popular culture.

HIST 328. Modern Latin America (5). Analyzes the history of Latin America in the past two centuries, from the Wars of Independence to the present day.

HIST 329. The Tropics and the Modern World (5). Analyzes the history of the modern world through the history of tropical commodities.

HIST 331. Colonial Africa (5).

Africa on the eve of colonial conquest; causes of imperialism; colonial rule and African reactions and initiatives; independence and colonial legacy.

# HIST 332. History of the Black

**Diaspora** (5). This course focuses on the black diaspora. It looks at the movement and impact of black people from Africa to other parts of the world. It examines their contribution to world civilizations and identities.

## HIST 339. Colonial British

**America** (5). Social, cultural, political, and economic life in the British colonies of North America to 1763.

# HIST 341. The United States: Early National Period 1789-1844 (3-5). Explores the cultural shifts and historical ironies that transformed the U.S. between the Revolution and the Civil War, with special attention to the expansion of democracy, empire, industry, slavery, and antislavery. Also examines shifting constellations of class and gender.

- HIST 346. Women in American History (5). A survey of the role of women, their treatment, and response in American society from colonial times to the present.
- HIST 348. Economic History of the United States (5). Economic factors in the development of the American nation from the European background to the present. HIST 348 and ECON 348 are cross-listed courses; students may not receive credit for both.
- HIST 349. Economic History of
  Asia (5). This course analyzes the
  post-war economic development
  of Asia. Dubbed the "Economic
  miracle of the 20th century" by
  the World Bank, the rapid
  economic rise of China, Taiwan,
  Japan, South Korea, India, and
  Singapore will be covered. Topics
  will include industrialization,
  state-society relations, labor
  migration, and the environment.
- HIST 352. The History of the American Family (3). American family patterns from early settlement to the present; demography, gender roles, courtship, marriage, child raising, aging, ethnicity, and alternative lifestyles.
- HIST 370. Medieval European History (5). Survey of Western European history from late

antiquity to the 16th century; political, economic, social, and religious thought and institutions.

- HIST 377. Early Modern Europe, 1600-1789 (5). A survey of the major trends and events in European history during the two centuries leading up to the French Revolution. Topics covered include the Glorious Revolution, the Enlightenment, and the rise of absolutism.
- HIST 380. Modern East Asia (5). A survey of the modern histories of China, Japan, and Korea from 1600 to the present. Imperialism, nationalism, and the rise of communism are covered.
- HIST 381. History of Modern
  Southeast Asia: Colonial Era to
  the Present (5). This is a survey
  course in the political and
  cultural history of modern
  Southeast Asia. It will examine
  European colonialism,
  nationalism, decolonization, and
  post WWII configuration.
- HIST 383. East Asian Civilization (5). A general survey of the development of civilization in China, Japan, and Korea to about 1600.
- HIST 386. The Latin American Colonies (5). Analyzes the history of Latin America and the Caribbean from pre-Columbian times to the Wars of Independence.
- HIST 395. Research in Local
  History (1-6). Comparative local
  history with emphasis on
  research techniques and the
  utilization of sources. May be
  repeated for credit.
- HIST 398. Special Topics (1-6). HIST 401. Readings in U.S. History (5). Readings seminar of United States history. May be repeated for up to 15 credits.
- HIST 402. Reading in European
  History (5). Readings seminar on
  European history. May be
  repeated for up to 15 credits.
- HIST 403. Readings in African, Asian, Middle Eastern, Latin American History (5). Readings seminar on African, Asian, Middle Eastern, or Latin American history. May be repeated for up to 15 credits.

- HIST 421. Methods and Materials in the Social Studies, Secondary (5). Prerequisite: admission to the Teacher Certification Program. EDCS 311 is a recommended prerequisite.
- HIST 422. British Isles to 1763 (5). The British Isles from Roman times to the conclusion of the Seven Years War. Course will cover the rise of the English monarchy, the Renaissance and Reformation in England, and the beginnings of the British Empire. HIST 422 and HIST 522 are layered course; students may not receive credit for both.
- HIST 423. The Irish Revolution (5). History and historiography of the Irish revolution. Topics include the constitutional and revolutionary antecedents, the course of the revolution, and the foundation of the Irish Free State. HIST 423 and HIST 523 are layered courses; students may not receive credit for both.
- HIST 424. Modern Ireland: 1798present (5). The history of Ireland from the revolt of 1798 through the present. Focus will be on the varieties of Irish nationalism, the process of state-building, and the ongoing troubles in the north. HIST 424 and HIST 524 are layered courses; students may not receive credit for both.
- HIST 426. France 1789-1945 (5).
  French history through the lens of revolution. Discussions of the variety of French revolutions (1789, 1792, 1830, 1848, 1870) and concluding with the National Revolution of Vichy France. HIST 426 and HIST 526 are layered courses; students may not receive credit for both.
- HIST 427. Modern Britain and the Empire since 1688 (5). History of Britain and the empire since the Glorious Revolution. Topics include growth of empire, industrialization, political reform, world wars, decolonization, and post-war social changes. HIST 427 and HIST 527 are equivalent courses; students may not receive credit for both.
- HIST 438. Conquests and Compromises: American Indian History since 1492 (5). Discussion and lecture course on interactions

between Native Americans and Europeans in North America since the arrival of Columbus. HIST 438 and HIST 538 are layered courses; students may not receive credit for both.

- HIST 440. The American
  Revolution (5). Causes and
  consequences of the American
  Revolution, 1688-1789. HIST 440
  and HIST 540 are layered courses;
  students may receive credit for
  both.
- HIST 443. The West in American History (5). Exploration, territorial acquisition, patterns of settlement, economic development, and the influence of the frontier on American institutions. HIST 443 and HIST 543 are layered courses; students may not receive credit for both.
- HIST 444. Sectionalism, Civil War, and Reconstruction (5). Slavery, the Old South, sectionalism, the breakdown of the Union, and secession. A military, political, and social history of North and South during the Civil War, and the aftermath of the war. HIST 444 and HIST 544 are layered courses; students may not receive credit for both.
- HIST 445. Introduction to Public History (5). This course examines the venues through which the general public learns American history, with visits and analysis of exhibits and their interpretation.
- HIST 449. History of Women and the West (5). Women in the western United States, with emphasis on the 19th and 20th centuries: myths and stereotypes; women's work; community roles; class and racial/ethnic differences. HIST 449 and HIST 549 are layered courses; students may not receive credit for both.
- HIST 450. Exploring U.S. Cultural History (5). Thematic approach to 19th century cultural transformations in U.S. Selected topics; mesmerism, utopias, true womanhood, women's rights, slave spirituals, confidence men, and gold rushes. HIST 450 and HIST 550 are layered courses; students may not receive credit for both.

- HIST 451. 20th Century U.S.: 1896-1919 (5). Imperialism, progressivism, and World War I. HIST 451 and HIST 551 are layered courses; students may not receive credit for both.
- HIST 452. 20th Century U.S.: 1919-1945 (5). Prosperity and depression; the New Deal and its implications; World War II, origins and conclusion. HIST 452 and HIST 552 are layered courses; students may not receive credit for both.
- HIST 453. 20th Century U.S.: 1945 to the Present (5). Cold War, sedentary 50s, rebellious 60s, the Watergate era. HIST 453 and HIST 553 are layered courses; students may not receive credit for both.
- HIST 454. American
  Environmental History (5).
  Environmental values and practices of the diverse populations of America. HIST 454 and HIST 554 are layered courses; students may not receive credit for both.
- HIST 460. Religion in Latin America (5). Analyzes the relationship between individuals, religious movements, and the state from the pre-Columbian era to the present.
- HIST 462. History of American Foreign Relations: 1900-1941 (5). From the Spanish-American War to Pearl Harbor. HIST 462 and HIST 562 are layered courses; students may not receive credit for both.
- HIST 463. History of American
  Foreign Relations Since 1941 (5).
  From Pearl Harbor to the present.
  HIST 463 and HIST 563 are
  layered course; students may not receive credit for both.
- HIST 464. Latin American
  Revolutions (5). Analyzes
  revolutions and peasant revolts
  in Latin America and the
  Caribbean from 1750 to the
  present. HIST 464 and HIST 564
  are layered courses, students may
  not receive credit for both.
- HIST 465. History of the People's Republic of China (5). Evaluates the historical record of the Chinese Communists in power since the establishment of the People's Republic of China in

- 1949. HIST 465 and HIST 565 are layered courses; students may not receive credit for both.
- HIST 469. History of Russian and Soviet Women (5). Examination of the social status and cultural representations of women in Russia and the Soviet Union from the 17th century to the present. HIST 469 and HIST 569 are layered courses; students may not receive credit for both.
- HIST 472. German History since 1815 (5). A political, socioeconomic, and intellectual study of Germany with special attention to the causes, progress, and aftermath of the National Socialist State. HIST 472 and HIST 572 are layered courses; students may not receive credit for both
- HIST 473. Russia to 1881 (5). The political, social, economic, and cultural development of Russia from ancient times to the assassination of Alexander II. HIST 473 and HIST 573 are layered courses; students may not receive credit for both.
- HIST 474. Russia Since 1881 (5).
  The political, economic, social and cultural history of Russia and the Soviet Union since 1881. HIST 474 and HIST 574 are layered courses; students may not receive credit for both.
- HIST 476. History of Modern East Europe (5). Poland, Czech, Slovak Republics, Austria, Hungary, Romania, Yugoslavia, Bulgaria, Greece, Albania, with special attention to multiethnicity, economic underdevelopment and modernization, political dependence, and nationalism. HIST 476 and HIST 576 are layered courses; students may not receive credit for both.
- HIST 478. Russian Far East (5).
  Russian Far East history from
  16th century Cossak exploration
  to 21st century democracy.
  Topics include the imperial "urge
  to the sea," the Trans-Siberian
  Railway, the Soviet gulag system,
  and Pacific Rim relations.HIST
  478 and HIST 578 are cross-listed
  courses; student may not receive
  credit for both.

# **HIST 481. Understanding History**

(4). Analysis of the nature of history, of the way historians reason, and of the search for meaning in history. Students must earn a minimum grade of C as a major requirement. Prerequisites: HIST 302 and senior standing.

# HIST 481. Senior Thesis (4).

Analysis of the nature of history, of the way historians reason, and of the search for meaning in history. Students must earn a minimum grade of C as a major requirement. Prerequisites: HIST 302 and senior standing.

HIST 483. Modern China (5). The history of China in the 19th and 20th centuries, including the nature of China's response to the West and the Chinese Revolution of the 20th century. Emphasis on internal social and economic

change. HIST 483 and HIST 583 are layered courses; students may not receive credit for both.

HIST 484. Modern Japan (5). The recent historical development of Japan beginning with the collapse of the Tokugawa Shogunate and the resumption of foreign contacts in the mid-19th century. Emphasis is given to the modernization process with its concomitant political, social, economic, and intellectual changes. HIST 484 and HIST 584 are layered courses; students may not receive credit for both.

# HIST 487. The Russian Revolutionary Movement (5). Origins and development of Russian radicalism through the Bolshevik Revolution of 1917. HIST 487 and HIST 587 are layered courses; students may

not receive credit for both.

# HIST 488. Mexico in the Modern

Era (5). Analyzes the modern history of Mexico, from independence to the present day. HIST 488 and HIST 588 are layered courses; students may not receive credit for both.

# HIST 490. Cooperative Education

(1-8). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty coordination. HIST 490 and HIST 590 are layered courses; students may not receive credit for both. May be repeated for credit. Grade will either be S or U. Department consent.

HIST 496. Individual Study (1-6). HIST 498. Special Topics (1-6).

# **Humanities Program**

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 103E erdmanr@cwu.edu

# **Contact Person**

Ruthi Erdman, PhD

# Humanities Courses HUM 101. Exploring Cultures in the Ancient World (5). An

interdisciplinary exploration from literature, history, philosophy, and the arts of selected major ancient civilizations in Asia, Africa, Europe, and the Americas from their beginnings through the 15th century. Prerequisites: ENG 101 with a grade of C- or higher. AH-Literature and Humanities (W)

# HUM 102. Exploring Cultures From 16th through 19th Centuries (5). An

interdisciplinary exploration of selected literature, history, philosophy, and the arts in Asia, Africa, Europe, and the Americas from the 16th through the 19th centuries. Prerequisites: ENG 101 with a grade of C- or higher. AH-Literature and Humanities (W)

HUM 103. Exploring Cultures in Modern and Contemporary Societies (5). An interdisciplinary exploration of literature, history, philosophy, and the arts of selected world civilizations of the 20th century. Prerequisites: ENG 101 with a grade of C- or higher. AH-Literature and Humanities (W)

HUM 398. Special Topics (1-6). HUM 498. Special Topics (1-6).

# **Individual Studies Program**

Undergraduate Studies Ellensburg Barge Hall, room 202 509-963-1689

www.cwu.edu/~avpugrad/individualstudy.html

See website for how this program may be used for educational and career purposes.

# **Program Director**

Tracy L. Pellett, EdD, Associate Vice-President for Undergraduate Studies

# **Program Information**

Students interested in pursuing an area of scholarly inquiry which falls outside the purview of an established academic department or program of the university may apply for admission to the Individual Studies program. This academic program offers students an opportunity to develop, under the guidance of faculty advisors, a major which meets their specific needs. Major areas of study are typically interdisciplinary.

### Admission

Applicants must have completed 60 credit hours of study with a minimum 2.5 cumulative GPA and be in academic good standing for admission. All proposal materials must be submitted to the associate vice president for Undergraduate Studies at least three quarters prior to anticipated graduation, unless approved by the associate vice president for Undergraduate Studies. Proposals are subject to review and approval of an advisory committee which meets quarterly.

# List of Degrees

The active programs available include:

Bachelor of Arts Bachelor of Science Bachelor of Music

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

# **Proposal and Application**

Detailed written procedures directing proposal preparation are available at

www.cwu.edu/~avpugrad/individualstudy.html. The proposal must include a title, statement of purpose, a listing of courses comprising the major, and support from a faculty advisor. The course of study should include a minimum of 60 credits including at least two separate subject areas; 30 of the credits must be upper division. IS 487, End-of-Program Assessment, must be included in the course of study. No more than 15 credits may overlap with a declared minor or second major.

Students must earn a minimum grade of C- in each course counted toward fulfilling major requirements and the overall GPA in the major must be a 2.5.

Individual Studies Courses IS 298. Special Topics (1-6). IS 487. End-of-Program Assessment (1). An individual study for students enrolled in the individual studies major program. Grade will either be S or U. Department consent.

IS 496. Individual Study (1-6). IS 498. Special Topics (1-6).

# **Information Technology and Administrative Management Department**

College of Education and Professional Studies

Shaw-Smyser Hall, Second Floor - IT Management Division, room  $\,223\,$ 

509-963-2611

www.cwu.edu/it-management

See website for how this program may be used for educational and career purposes.

# **Faculty and Staff**

Chair

Robert A. Lupton, PhD

## **Professors**

Lori A. Braunstein, PhD, information technology

Robert A. Lupton, PhD, retail management technology

# **Associate Professor**

Natalie Lupton, PhD, retail management technology and administrative management

David Rawlinson, JD, information technology

## **Assistant Professors**

Chester Claar, PhD, information technology

Bob Shields, PhD, information technology

Hideki Takei, DBA, administrative management and retail management & technology

Robert Trumpy, EdD, LMHC, LCSW, administrative management

Fen Wang, PhD, information technology

# Lecturers

Yvonne Alder, information technology

Brandi Carter-Harrington, MEd, administrative management

Dwayne Douglas, retail management & technology

John Durham, MM administrative management

Terry Linkletter, MS, administrative management and information technology

Mary Minor, information technology

Amy Perry, MEd, information technology

Angela Unruh, MBA, information technology

Phil Upperman, EdD, administrative management

Charles Wahle, MEd, information technology

Mike Wallace, MDiv, administrative management

Shani Watkins, MEd, administrative management

# **Bachelor of Applied Science**

Laurie Stehle, program director

# Staff

Elizabeth Henry, office manager

Ellen Bjorge, office assistant

Dwayne Douglas, internship coordinator

# **Bachelor of Science**

# Information Technology and Administrative Management

**BS-ITAM Program Overview** 

The department offers coursework for the bachelor of science in information technology and administrative management. The BS-ITAM is comprised of two components:

- ITAM core courses that focus on the core knowledge areas of ITAM: networking, web, information management, and human-centered skills
- Specialization courses that allow for advanced study in one of the core knowledge areas or retail management and technology

The program is designed to prepare students for information technology, administrative management, or retail management careers. Students completing this major will take the core courses (61 credits) and select one of the four areas of specialization: network administration and management, web and database administration and management, administrative management, and retail management and technology.

# **BS-ITAM Program Admission Requirements**

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# **BS-ITAM Graduation Requirements**

The following requirements apply to students seeking the BS-ITAM degree: Students must earn a minimum cumulative GPA of 2.3 in the ITAM coursework to be eligible for the degree.

Students must earn a minimum grade of C- in each course.

# **Course Fees**

Most ITAM courses that use computer resources are assessed a course fee of \$25.

# List of Specializations for the BS-ITAM

Students seeking the BS-ITAM take a common set of core courses. Additionally, students must complete a specialization within the BS-ITAM degree: administrative management, network administration and management, Web and database administration and management, or retail management and technology.

# Network Administration and Management Specialization

Network administration and management specialization students become qualified business professionals prepared to pursue careers that apply a wide variety of network administration skills. These qualifications are complemented by business communications and human-centered skills. Graduates of the network administration and management specialization secure positions as network administrators, network analysts, network managers, data communication analysts, network operations analysts, network specialists, network technicians, PC support specialists, PC network engineers, and user support specialists.

# Web and Database Administration and

# **Management Specialization**

Web and database administration and management specialization students become qualified business professionals prepared to pursue careers that apply a wide variety of web and database skills. These qualifications are complemented by business communications and human-centered skills. Graduates of the web and database administration and management specialization secure positions as web administrators, database administrators, web designers, database developers, web page developers, database managers, and web masters.

# Retail Management and Technology Specialization

Retail management and technology specialization students become qualified business professionals prepared to pursue careers in retail environments that infuse information technology in areas such as e-commerce, management, selling, purchasing, operations, and merchandising. These qualifications are complemented by business communications and human-centered skills. Graduates of the retail management and technology specialization secure careers in store operations, store management, IT and e-commerce, sales, distribution and logistics, merchandise buying, and planning and entrepreneurship.

# **Administrative Management Specialization**

Administrative management specialization students become qualified business professionals prepared to pursue careers that apply a blend of management, administrative, and information technology skills in contemporary administrative and information technology environments. The administrative manager supervises office employees, designs office work systems, maintains internal and external communication systems, and compiles meaningful reports from information processing. Their knowledge of IT tools complemented by the soft skills (emotional intelligence and leadership) qualifies them to seek employment in positions requiring the management of data, projects, people, and organizational change. The need for graduates with these skills crosses all types of business including agriculture, construction, finance, retail, government, manufacturing and not-for-profits.

# Information Technology and Administration Minors or Certificates

The information technology and administrative management minors and certificates provide recognition for students who complete the specified minor or certificate courses. Such recognition will benefit students in gaining professional employment or advancing in their current professional positions.

Students fulfilling the requirements for an ITAM program degree specialization cannot earn a minor with the ITAM department. However, students may earn departmental certificates in an area other than their area of specialization.

Students fulfilling the requirements for a degree program outside the ITAM department can earn a minor in the ITAM

# department.

Application forms for minors and certificates can be obtained in the department office or on the ITAM web site at www.cwu.edu/itam

# Minors or certificates are available in the following areas:

- Administrative Management
- Computer Applications
- Information Technology
- Retail Management and Technology
- Web Design and Management

A minimum GPA of 2.3 in the minor and certificate courses must be achieved with a minimum grade of C- in each course.

# **Bachelor of Applied Science**

# Information Technology and Administrative Management

The bachelor of applied science in information technology and administrative management (BAS-ITAM) is designed for students with any applied or technical school degree to gain a baccalaureate degree in a timely fashion. This degree requires significant study in general education at the upper-division level.

# **BAS-ITAM Program Admission Requirements**

Applicants for the BAS-ITAM must meet the following admission requirements before admittance to the program:

- Completion of an applied or technical degree from a community college or technical college with a minimum GPA of 2.3.
- Completion of 20 credits of the CWU "Basic Skills Requirements" (English, math, logic, and computing) or university equivalents or community/ technical college equivalents. A foreign language is not required.
- Identification of a clearly articulated academic and/ or career goal in pursuing the program and approved by the department chair or designee.

# **BAS-ITAM Graduation Requirements**

- Minimum overall GPA of 2.3.
- Completion of CWU Breadth Requirements
- Completion of the BAS-ITAM core requirement courses and one of the BAS-ITAM specialization list of courses with a minimum grade of C- in each course

# List of Specializations for BAS-ITAM program

Students seeking the BAS-ITAM program must take a common set of core courses. Additionally, students entering the BAS-ITAM program must choose a specialization. The IT specialization requires the completion of a two-year IT related degree program with at least 40 approved credits within the IT technical degree to qualify for the specialization. The Administrative Management specialization requires the completion of any two-year applied degree with at least 40 credits in one applied or technical area to qualify.

# Information Technology and Administrative Management, BAS

The bachelor of applied science in information technology and administrative management (BAS-ITAM) is designed for students with any applied or technical school degree to gain a baccalaureate degree in a timely fashion. This degree requires significant study in general education at the upper-division level.

# **BAS-ITAM Program Admission Requirements**

Applicants for the BAS-ITAM must meet the following admission requirements before admittance to the program:

- Completion of an applied or technical degree from a community college or technical college with a minimum GPA of 2.3
- Completion of 20 credits of the CWU "Basic Skills Requirements" (English, math and logic) or university equivalents or community/ technical college equivalents. A foreign language is not required.
- Identification of a clearly articulated academic and/ or career goal in pursuing the program and approved by the department chair or designee.

# **BAS-ITAM Graduation Requirements**

- Minimum overall GPA of 2.3.
- Completion of CWU Breadth Requirements

• Completion of the BAS-ITAM core requirement courses and one of the BAS-ITAM specialization list of courses with a minimum grade of C- in each course

# List of Specializations for BAS-ITAM program

Students seeking the BAS-ITAM program must take a common set of core courses. Additionally, students entering the BAS-ITAM program must choose a specialization. The IT specialization requires the completion of a two-year IT related degree program with a least 40 approved credits within the IT technical degree to qualify for the specialization. The administrative management specialization requires the completion of any two-year applied degree with at least 40 credits in one applied or technical area to qualify.

# **BAS-ITAM** Core Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

Total Core Requirements Credits: 38

# BAS-ITAM Administrative Management Specialization

The Administrative Management Specialization is designed to provide a baccalaureate degree for those with an applied degree from a community college in a timely fashion. It provides administrative and leadership skills for those seeking management positions in any field.

# BAS-ITAM Core Requirements Credits: 38

- ADMG 424 Administrative Management Policy Credits: (4)
- ADMG 471 Contemporary Issues in Administrative Management Credits: (4)
- ADMG 490 Cooperative Education Credits: (1-12)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 359 Advanced Spreadsheet Applications Credits: (3)

NOTE: Must complete 7-10 internship credits. Elective courses may be substituted for those who have more than 2,000 hours work experience in the administrative management field.

Total Credits: 61-64

# BAS-ITAM Information Technology Specialization

The Information Technology Specialization is designed to provide an opportunity for citizens who are information technology professionals with specific technical education to gain a baccalaureate degree in a timely fashion. This baccalaureate degree requires significant study in general education at the upper-division level. This specialization combines human-centered, management skills with IT technical skills - a requirement for those seeking management positions in the IT field.

# BAS-ITAM Core Requirements Credits: 38

- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 376 Project Management and Information Technology Credits: (3)
- IT 461 Systems Analysis Credits: (4)
- IT 462 Systems Design Credits: (4)
- IT 486 Critical Issues in Information Technology Credits: (4)
- IT 490 Cooperative Education Credits: (1-12)

NOTE: Must complete 7-10 internship credits. Elective courses may be substituted for those who have more than 2,000 hours work experience in the information technology field.

Total Credits: 63-66

# Information Technology and Administrative Management Major, BS

# **BS-ITAM Program Overview**

The department offers coursework for the bachelor of science in information technology and administrative management. The BS-ITAM is comprised of two components:

- ITAM core courses that focus on the core knowledge areas of ITAM: networking, web, information management, and human-centered skills
- Specialization courses that allow for advanced study in one of the core knowledge areas or retail management and technology

The program is designed to prepare students for information technology, administrative management, or retail management careers. Students completing this major will take the core courses (61 credits) and select one of the four areas of specialization: network administration and management, web and database administration and management, administrative management, and retail management and technology.

# **BS-ITAM Program Admission Requirements**

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# **BS-ITAM** Graduation Requirements

The following requirements apply to students seeking the BS-ITAM degree: Students must earn a minimum cumulative GPA of 2.3 in the ITAM coursework to be eligible for the degree. Students must earn a minimum grade of "C-" in each course.

## Course Fees

Most ITAM courses that use computer resources are assessed a course fee of \$25.

# List of Specializations for the BS-ITAM

Students seeking the BS-ITAM take a common set of core courses. Additionally, students must complete a specialization within the BS-ITAM degree: administrative management, network administration and management, web and database administration and management, or retail management and technology.

# ITAM Core Requirements

- ADMG 201 Introduction to Business **Credits:** (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 351 Computer Networks **Credits:** (4)
- IT 468 Projects in Database Credits: (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

ITAM BS Major Total Core Credits: 61

# ITAM Administrative Management Specialization, BS

Administrative management specialization students become qualified business professionals prepared to pursue careers that apply a blend of management, administrative, and information technology skills in contemporary administrative and information technology environments. The administrative manager supervises office employees, designs office work systems, maintains internal and external communication systems, and compiles meaningful reports from information processing. Their knowledge of IT tools complemented by the soft skills (emotional intelligence and leadership) qualifies them to seek employment in positions requiring the management of data, projects, people, and organizational change. The need for graduates with these skills crosses all types of business including agriculture, construction, finance, and retail, government, manufacturing and not-for-profits.

# **BS-ITAM Program Admission Requirements**

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# Preadmission Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)

## Preadmission Credits: 14

## Additional Notes

A cumulative GPA of 2.3 in the preadmission courses must be achieved with a minimum grade of "C-" in each course.

# ITAM Core Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 351 Computer Networks Credits: (4)
- IT 468 Projects in Database Credits: (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

# ITAM BS Major Total Core Credits: 61

# Administrative Management Courses - Credits: 28-31

- ADMG 424 Administrative Management Policy Credits: (4)
- ADMG 471 Contemporary Issues in Administrative Management Credits: (4)
- IT 359 Advanced Spreadsheet Applications Credits: (3)
- IT 461 Systems Analysis Credits: (4)
- IT 462 Systems Design Credits: (4)
- ADMG 490 Cooperative Education Credits: (1-12)

Credits: (9-12)

Note: Summer quarter only.

Total Credits: 89-92

# ITAM Network Administration and Management Specialization, BS

Network administration and management specialization students become qualified business professionals prepared to pursue careers that apply a wide variety of network administration skills. These qualifications are complemented by business communications and human-centered skills. Graduates of the network administration and management specialization secure positions as network administrators, network analysts, network managers, data communication analysts, network operations analysts, network specialists, network technicians, PC support specialists, PC network engineers, and user support specialists.

# BS-ITAM Program Admission Requirements

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# Preadmission Requirements

- ADMG 201 Introduction to Business **Credits:** (3)
- ADMG 271 Business Math Applications Credits: (4)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)

#### Preadmission Credits: 14

## Additional Notes

A cumulative GPA of 2.3 in the preadmission courses must be achieved with a minimum grade of "C-" in each course.

# ITAM Core Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 351 Computer Networks **Credits:** (4)
- IT 468 Projects in Database Credits: (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

# ITAM BS Major Total Core Credits: 61

Network Administrative and Management Courses - Credits: 32-35

- IT 376 Project Management and Information Technology Credits: (3)
- IT 461 Systems Analysis Credits: (4)
- IT 463 Computer Network Management Credits: (4)
- IT 464 Directory Services Credits: (4)
- IT 465 Messaging Service Credits: (4)
- IT 467 Network Security Credits: (4)
- IT 490 Cooperative Education Credits: (1-12)

Credits: (9-12)

Note: Summer quarter only.

Total Credits: 93-96

# ITAM Retail Management and Technology Specialization, BS

Retail management and technology specialization students become qualified business professionals prepared to pursue careers in retail environments that infuse information technology in areas such as e-commerce, management, selling, purchasing, operations, and merchandising. These qualifications are complemented by business communications and human-centered skills. Graduates of the retail management and technology specialization secure careers in store operations, store management, IT and e-commerce, sales, distribution and logistics, merchandise buying, and planning and entrepreneurship.

# **BS-ITAM Program Admission Requirements**

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# Preadmission Requirements

- ADMG 201 Introduction to Business **Credits:** (3)
- ADMG 271 Business Math Applications Credits: (4)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)

## Preadmission Credits: 14

#### Additional Notes

A cumulative GPA of 2.3 in the preadmission courses must be achieved with a minimum grade of "C-" in each course.

# ITAM Core Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 351 Computer Networks Credits: (4)
- IT 468 Projects in Database Credits: (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

# ITAM BS Major Total Core Credits: 61

Retail Management and Technology Courses - Credits: 32-35

- RMT 330 Principles of Retailing Credits: (4)
- RMT 335 Retail Information Technology Credits: (4)
- RMT 345 Sustainable Retailing Credits: (3)
- RMT 350 Retailing and E-Commerce Credits: (4)
- RMT 467 Retail Management Credits: (4)
- RMT 485 International Retailing Credits: (4)
- RMT 490 Cooperative Education **Credits:** (1-12)

Credits: (9-12)

Note: Summer quarter only.

Total Credits: 93-96

# ITAM Web and Database Administration and Management Specialization, BS

Web and database administration and management specialization students become qualified business professionals prepared to pursue careers that apply a wide variety of Web and database skills. These qualifications are complemented by business communications and human-centered skills. Graduates of the Web and database administration and management specialization secure positions as Web administrators, database administrators, Web designers, database developers, Web page developers, database managers and web masters.

# **BS-ITAM Program Admission Requirements**

Students must apply and be accepted into the major prior to beginning 300- or 400-level ITAM coursework. Application forms are available in the department office or on the department website.

# Preadmission Requirements

• ADMG 201 - Introduction to Business Credits: (3)

- ADMG 271 Business Math Applications Credits: (4)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)

Preadmission Credits: 14

# Additional Notes

A cumulative GPA of 2.3 in the preadmission courses must be achieved with a minimum grade of "C-" in each course.

# ITAM Core Requirements

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 271 Business Math Applications Credits: (4)
- ADMG 302 Financial Analysis for Administrative and IT Support Credits: (5)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 351 Computer Networks **Credits:** (4)
- IT 468 Projects in Database Credits: (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 366 Customer Relationship Management Credits: (4)

ITAM BS Major Total Core Credits: 61

Web and Database Administration and Management Courses - Credits: 35-38

- IT 376 Project Management and Information Technology Credits: (3)
- IT 381 Web Apps for M-Commerce Credits: (4)
- IT 426 Application of Web Languages Credits: (4)
- IT 428 Web Applications Credits: (4)
- IT 461 Systems Analysis **Credits:** (4)
- IT 462 Systems Design Credits: (4)
- IT 469 Enterprise Database Systems: SQL Credits: (3)
- IT 490 Cooperative Education **Credits:** (1-12)

Credits: (9-12)

Note: Summer quarter only.

Total Credits: 96-99

# **Administrative Management Minor or Certificate**

# Required Courses

- ADMG 201 Introduction to Business Credits: (3)
- ADMG 371 Administrative Management Credits: (4)
- ADMG 372 Leadership and Supervision Credits: (4)
- ADMG 374 Project Management Credits: (5)
- ADMG 385 Business Communications and Report Writing Credits: (5)
- ADMG 424 Administrative Management Policy Credits: (4)

Total Credits: 25

# **Computer Applications Minor or Certificate**

# Required Courses

- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 322 Web Site Construction Credits: (4)
- IT 359 Advanced Spreadsheet Applications Credits: (3)
- IT 381 Web Apps for M-Commerce Credits: (4)
- IT 468 Projects in Database Credits: (4)

Total Credits: 23

# **Information Technology Minor or Certificate**

# Required Courses

- ADMG 374 Project Management Credits: (5)
- IT 228 Introduction to Information Technology Credits: (2)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 351 Computer Networks Credits: (4)
- IT 461 Systems Analysis Credits: (4)

Total Credits: 23

# **Retail Management and Technology Minor or Certificate**

# Required Courses

- ADMG 201 Introduction to Business Credits: (3)
- RMT 330 Principles of Retailing Credits: (4)
- RMT 335 Retail Information Technology **Credits:** (4)
- RMT 340 Principles of Selling Credits: (4)
- RMT 350 Retailing and E-Commerce Credits: (4)
- RMT 467 Retail Management Credits: (4)

Total Credits: 23

# Web Design and Management Minor or Certificate

# Required Courses

- IT 248 Web Fundamentals Credits: (3)
- IT 260 Integrated Information Technology Application Projects Credits: (5)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- IT 322 Web Site Construction Credits: (4)
- IT 381 Web Apps for M-Commerce **Credits:** (4)
- IT 428 Web Applications Credits: (4)

Total Credits: 23

# Administrative Management Courses

# ADMG 201. Introduction to

**Business** (3). Functions, practices, and organization of the business enterprise. ADMG 201 and ADMG 301 are layered course; students may not receive credit for both.

# ADMG 271. Business Math

Applications (4). Business and merchandising mathematics applications. ADMG 271 and ADMG 317 are layered courses; students may not receive credit for both.

# ADMG 301. Introduction to

**Business** (3). Functions, practices, and organization of the business

enterprise. ADMG 201 and ADMG 301 are layered courses; students may not receive credit for both.

# ADMG 302. Financial Analysis for Administrative and IT Support

(5). This course addresses the financial analysis functions necessary for an administrative and IT support manager to

complete requested financial documents. Administrative and IT support staff must understand the basis of financial accounting. Prerequisites: ADMG 271 and junior standing.

ADMG 317. Business Math Applications (4). Business and merchandising mathematics applications. ADMG 271 and ADMG 317 are layered courses; students may not receive credit for both.

# ADMG 355. Workplace Administration (4). Knowledge and skills necessary for working efficiently and effectively in today's workplace. Topics include conference management, office health and safety, records

ADMG 371. Administrative
Management (4). Administrative
management techniques and
practices.

management and scheduling.

ADMG 372. Leadership and Supervision (4). Develop leadership techniques and behavioral traits to improve productivity of supervisors and leaders in the workplace, and enhance interpersonal skills for career success.

ADMG 374. Project Management (5). Development of skills in the core project management areas; scope management, time management, cost management, quality management. Prerequiste: junior standing or above.

ADMG 385. Business
Communications and Report
Writing (5). Planning and writing
skills for business letters,
memoranda, employment, and
reports. Prerequisites: ENG 102
or a direct transfer degree, and
junior standing or above.

ADMG 424. Administrative
Management Policy (4).
Administrative management
policies dealing with technology
and innovation; the analysis,
decision making,
implementation, and control of
these policies; the intent and core
competencies of an organization;
and the competitive integration
of technology. Prerequisites:
ADMG 371, ADMG 372, ADMG
385 and senior standing.

ADMG 471. Contemporary Issues in Administrative Management

(4). This capstone course uses current administrative management literature to focus on a variety of topics pertaining to current issues in administrative management. Prerequisites: ADMG 371, ADMG 372, and ADMG 385.

ADMG 485. Managerial
Communications (3). Advanced written, oral, and non-verbal business communications including proposals, crisis management, international communication, international/domestic etiquette, meeting management, conflict resolution, negotiation, and collaboration. Prerequisite: ADMG 385.

ADMG 490. Cooperative
Education (1-12). An
individualized, contracted field
experience with business,
industry, government, or social
service agencies. This contractual
arrangement involves a student
learning plan, cooperating
employer supervision, and
faculty coordination.
Prerequisite: prior approval.
Offered summers only. May be
repeated for credit. Grade will
either be S or U. Departmental
consent.

**ADMG 491. Workshop** (1-6). May be repeated for credit under different subtitle.

ADMG 493A. Undergraduate Research Practicum (1-3).
Conduct research under direct supervision of a professor with specific learning agreement required. ADMG/ IT/ RMT 493A are cross-listed courses; students may not receive credit for more than one. Prerequisite: permission of department chair. May be repeated for a total of 3 credits. Grade will either be S or

ADMG 493B. Undergraduate
Assistant Practicum (1-3). Assist
in monitoring, supervising,
supporting, and tutoring
instruction under direct
supervision of a professor with
specific learning agreements
required. ADMG/ IT/ RMT 493B
are equivalent courses; students

may only receive credits for one. Prerequisite: permission of department chair. May be repeated for a total of 3 credits. Grade will either be S or U.

**ADMG 496. Individual Study** (1-6). May be repeated for credit. By permission.

**ADMG 498. Special Topics** (1-6). May be repeated for credit under different subtitle. By permission.

**ADMG 499. Seminar** (1-5). May be repeated for credit under different subtitle. By permisson.

# **Information Technology Courses IT 101. Computer Applications** (3).

Basic skills in Windows, word processing, spreadsheets, databases, and presentations. BAS6 Basic Skills F - Computing

IT 204. Word Processing
Applications (3). Developing
microcomputer word-processing
skills for producing business
documents. Not intended for
ITAM majors. Prerequisites: IT
101 or CS 101.

# IT 228. Introduction to Information Technology (2). Exploring information technology principles, practices, and applications in contemporar

technology principles, practices, and applications in contemporary society. Not intended for ITAM majors.

IT 248. Web Fundamentals (3).

Development of web pages and internet skills for business, education, and training environments. Prerequisite: IT 101 or CS 101.

IT 258. Spreadsheet Applications (3). Developing spreadsheets for business and workplace environments. Not intended for ITAM majors.

Prerequisites: IT 101 or CS 101.

# IT 260. Integrated Information Technology Application Projects (5). Developing word processing, spreadsheets, database, and presentation skills to create integrated projects for business and workplace environments. IT 260 and IT 360 are layered courses; students may not receive credit for both. Prerequisites: IT 101 or CS 101.

IT 268. Database Applications (3).

Develop databases for business and workplace environments.

Not intended for ITAM majors. Prerequisites: IT 101 or CS 101.

# IT 288. Business Presentation Applications (2). Develop multimedia graphic presentations for business and workplace environments. Prerequisites: IT 101 or CS 10. Not intended for ITAM majors.

# IT 301. Information Technology Security, Privacy, and Ethics (3). Examination of information technology security and privacy issues in the context of law and ethics. Prerequisite: junior standing or above.

# IT 322. Web Site Construction (4). Design and implementation of the information technology infrastructure needed to operate a business Web site. Prerequisite:

# IT 351. Computer Networks (4). Computer network communications including LAN and WAN Topologies, Protocols and Services, such as TCP/ IP, and Ethernet, within the context of the OSI Reference Model. Prerequisite: junior standing or above.

# IT 359. Advanced Spreadsheet **Applications** (3). Advanced spreadsheets for business applications such as design of multiple sheet workbooks and templates, advanced functions and formulas, enhanced formats, lists, and pivot tables.

Prerequisites: IT 258 or IT 260.

# IT 360. Integrated Information **Technology Application Projects**

(5). Developing word processing, spreadsheets, database, and presentation skills to create integrated projects for business and workplace environments. IT 260 and IT 360 are layered courses; students may not receive credit for both. Prerequisites: IT 101 or CS 101.

# IT 362. Wireless Communications

(3). Broad introduction to wireless communications. Provides students with an exposure to a variety of technologies, standards, and concepts. Prerequisite: IT 351.

# IT 376. Project Management and Information Technology (3). IT project management with a focus on facilitating project

management areas; risk management, procurement management, HR management, and communication management. Microsoft Project will be used. Prerequisite: students must be junior standing or above.

# IT 381. Web Apps for M-

Commerce (4). This course will introduce concepts in developing business web apps for use in mcommerce. Web apps review and development using web app authoring/application software for various operating systems. Prerequisite: IT 322.

# IT 398. Special Topics (1-6).

# IT 426. Application of Web

**Languages** (4). Web languages for the non-computer science student. Prerequisite: IT 322.

IT 428. Web Applications (4). Web application design using Web software such as Dreamweaver. Fireworks, and Flash. Prerequisite: IT 322.

# IT 459. Workstation Administration (4).

Implementation, administration, and troubleshooting workstations as a desktop operating system in any network environment. Prerequisite: IT 453.

# IT 461. Systems Analysis (4).

Feasibility studies of systems, cost analysis, budgets, and tools of systems analysis. Prerequisite: senior standing.

# IT 462. Systems Design (4).

Analyze office information systems through selected analysis tools and procedures. Students will apply this knowledge by designing improved systems. Prerequisite: IT 461.

# IT 463. Computer Network

Management (4). Develop and improve network administration and management skills within a network server environment. Prerequisite: IT 351.

# IT 464. Directory Services (4).

Students will plan, implement, and maintain directory service features including forests, sites, domains, and organizational units to meet network accessibility, performance, and security goals. Prerequisite: IT 463.

# IT 465. Messaging Service (4).

Provides students with the knowledge and skills needed to install and support a reliable, secure e-mail messaging infrastructure in a medium-to large-sized (250 to 5,000 users) corporate environment. Prerequisite: IT 463.

# IT 467. Network Security (4).

Analysis and design of computer network security in the business environment. Prerequisite: IT 463.

# IT 468. Projects in Database (4).

Techniques in database design and management. Prerequisite: IT 260 or IT 268.

# IT 469. Enterprise Database

Systems: SQL (3). Students will learn to write SQL statements, basic database administration, and report writing skills. Prerequisite: IT 468.

# IT 470. Database and the Web (4).

Creating dynamic web pages that interact with a database. Prerequisites: IT 322 and IT 468.

# IT 486. Critical Issues in

Information Technology (4). This seminar format and case study course is intended to expose pre-graduation IT seniors to a variety of topics pertaining to the IT industry. Prerequisites: IT 301 and ADMG 376, senior

# IT 490. Cooperative Education (1-

standing.

12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student-learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

# IT 491. Workshop (1-6).

# IT 493A. Undergraduate Research

Practicum (1-3). Conduct research under direct supervision of a professor with specific learning agreement required. Department requirements must be met. ADMG/ IT/ RMT 493A are cross-listed courses; students may not receive credit for both. May be repeated for a total of 3 credits. Grade will either be S or U.

# IT 493B. Undergraduate Assistant

Practicum (1-3). Assist in monitoring, supervising, supporting, and tutoring instruction under direct supervision of a professor with specific learning agreements required. Department requirements must be met. ADMG/ IT/ RMT 493B are equivalent courses; students may not receive credit for both. May be repeated for a total of 3 credits. Grade will either be S or U. By permission.

IT 496. Individual Study (1-6). IT 498. Special Topics (1-6).

IT 499. S RMT 320. Principles of Merchandising Management for Micro Brewing (5). Emphasis on micro brewing merchandising and operations. Focus within channel on selling, distribution, promotion, policies, and regulations. Prerequisites: admitance to the Craft Beer Trade Certificate Program or permission from the instructor.

# Retail Management and Technology Courses RMT 330. Principles of Retailing

(4). Introduction to retailing including retail stores, merchandising, operations, store location and layout, internal organization, buying, personnel management, inventory control, and sales promotion.

# RMT 335. Retail Information

**Technology** (4). Use of contemporary technology in collecting, analyzing, and interpreting retail management data and writing and presenting retail management reports.

RMT 340. Principles of Selling (4). Introduction to selling, its role in the economy, the sales process, types of selling, planning the sale, and sales organization.

# RMT 345. Sustainable Retailing

(3). This course will introduce principles and practices of sustainable retail operations. The course will enable students to provide guidance, leadership and support to retail organizations in the development, implementation, and assessment of successful sustainable operations.

# RMT 350. Retailing and E-

Commerce (4). Examines the progress and potential of the Internet for the marketing, selling, promoting, and distributing of retail goods and services. Prerequisite: RMT 330.

RMT 366. Customer Relationship
Management (4). Developing
and maintaining strong customer
relationships is paramount to a
successful business. Students
learn to manage prospects and
current customers by using
information technology.
Prerequisite: junior standing or

# RMT 467. Retail Management (4).

Retail store ownership and management, including startup, location, market analysis, customer service, organization, merchandise management, human resource management, sales promotion, and financial planning. Prerequisites: RMT 330 and senior standing.

# RMT 470. Critical Issues in

Retailing (4). Capstone course in retailing that focuses on current retail management and technology literature and case studies. Prerequisites: RMT 330 and senior standing.

# RMT 485. International Retailing

(4). Emphasis on international retailing and global trade. Focus on cross-cultural differences, work environments, policies and

regulations. RMT 485 and FCSA 485 are cross-liisted courses; students may not receive credit for both. Prerequisite: RMT 330.

RMT 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Available summer only. May be repeated for credit. Grade will either be S or U. By permission.

# **RMT 492. Practicum** (5-15).

Prerequisite: permission of department chair. Grade will either be S or U.

# RMT 493A. Undergraduate Research Practicum (1-3). Conduct research under direct supervision of a professor with

supervision of a professor with specific learning agreement required. ADMG/ IT/ RMT 493A are cross-listed courses; students may only receive credit for one. May be repeated for up to 3 credits. Grade will either be S or U. By permission.

# RMT 493B. Undergraduate

Assistant Practicum (1-3). Assist in monitoring, supervising, supporting, and tutoring instruction under direct supervision of a professor with specific learning agreements required. ADMG/ IT/ RMT 493B are equivalent courses; students may only receive credit for one. May be repeated for up to 3 credits. Grade will either be S or U. By permission.

RMT 496. Individual Study (1-6). RMT 498. Special Topics (1-6). RMT 499. Seminar (1-5).

# **Interdisciplinary Studies Program**

# **Interdisciplinary Studies-Social Sciences, BS**

Undergraduate Studies Ellensburg Barge Hall, room 303 509-963-1456

www.cwu.edu/~avpugrad/interdisciplinary.html

See website for how this program may be used for educational and career purposes.

# **Program Directors**

Tracy L. Pellett, EdD, associate vice president for undergraduate studies Stephen Schepman, PhD, director of academic coordination-university centers

# **Program Information**

Interdisciplinary studies-social sciences major is for students whose primary interest in the social sciences requires interdisciplinary programs and course selections which are not possible within single academic programs or established curricula. Program offers students an opportunity to devise an approved, coherent program of study with an academic advisor fulfilling academic or career goals and includes prerequisites consistent with the 300-400-level major coursework. Since the program is a student-designed, interdisciplinary major, course selections will vary. Students in the interdisciplinary studies major must take courses in at least three disciplines within the major.

# **Additional Degree Requirements**

Students must earn a minimum grade of C- in each course in an approved interdisciplinary studies major plan and achieve a minimum 2.25 GPA in the major. Courses in a student's minor or second major may not be included in the interdisciplinary studies major plan without advisor's consent. Students will not be allowed to enroll in IDS 289 and IDS 489 concurrently.

Interdisciplinary Studies-Social Sciences 62 Credit Major

# Required Courses

- 60 credits must be taken from the list of courses approved for the social science major, 45 of which must be upper division. Students in the interdisciplinary studies-social sciences major must take courses in at least three disciplines within the major. No more than 15 credits may be numbered 398, 498, or 490
- IDS 289 Proposal Colloquium Credits: (1)
- IDS 489 Senior Colloquium Credits: (1)

Total Credits: 62

Interdisciplinary Studies-Social Sciences 47 Credit Major

# Required Courses

- 45 credits must be taken from the list of courses approved for the social sciences major, 30 of which must be upper division. Students in the interdisciplinary studies social sciences major must take courses in at least three disciplines within the major. No more than 10 credits may be numbered 398, 498, or 490.
- In addition, a 47 credit major must complete either a traditional departmental minor or a second major.
- IDS 289 Proposal Colloquium Credits: (1)
- IDS 489 Senior Colloquium Credits: (1)

Total Credits: 47

Courses Approved for the Interdisciplinary Studies-Social Sciences Major

Africana and Black Studies (approved courses)

ABS 300 - Black Diaspora Studies

ABS 302 - Hip Hop as Global Culture

ABS 303 - African and African American Fiction as History

ABS 305 - 20th Century Black Women's Literature

ABS 306 - African Women: Models of Empowerment

ABS 310 - Black Diaspora: France and French Caribbean

ABS 400 - Race and Literature

ABS 398 - Special Topics

Anthropology (all courses)

Biology (approved courses)

BIOL 302 and BIOL 304 Communication (all courses) Economics (all courses) English (all 300- and 400-level courses) Environmental Studies (all courses) Ethnic Studies (all courses) Family Studies (all courses) Geography (all courses) Health Education (approved courses) **HED 101 HED 209 HED 210 HED 230 HED 310 HED 317 HED 387 HED 412 HED 450** History (all courses) Humanities (all courses) Information Technology and Administrative Mangement (approved courses) **ADMG 385 ADMG 372** RMT 366 Interdisciplinary Studies - Social Sciences (all courses) Latino and Latin American Studies (all courses) Law and Justice (all courses) Library Science LIB 345 - Library Research Methods Management (approved courses only) HRM 381 - Management of Human Resources MGT 380 - Organizational Management MKT 360 - Principles of Marketing Philosophy (all courses) Political Science (all courses) Psychology (all courses) Religious Studies (all courses) Sociology (all courses) Theatre (all courses) University 301 Women's and Gender Studies (all courses)

# Interdisciplinary Courses IDS 289. Proposal Colloquium (1).

Introduction to the interdisciplinary studies major, interdisciplinary studies degree proposal design and preparation. Grade will either be S or U. By permission.

# IDS 311. Don't Lie to Me:

Contemporary Profiling (5). This course explores and examines the use of profiles is contemporary policing with a focus on violent crimes. The discussions and readings examine what criminal profiling is, what it accomplishes,

and how it is utilized. Criminological theory and applicable research articles are used to examine the legitimacy of profiles and measures deception. Prerequisite: PSY 101 or SOC 107

# IDS 398. Special Topics (1-6). IDS 489. Senior Colloquium (1).

End-of-program assessment; preparation of comprehensive degree report and/ or descriptive portfolio of project. Students must earn at least a C grade to pass this course. Prerequisite: IDS 289, student must have completed a minimum of 165 credits, and admission to the Interdisciplinary Studies: Social Sciences major.

IDS 490. Cooperative Education (112). An individualized,
contracted field experience with
business, industry, government,
or social service agencies. This
contractual arrangement involves
a student learning plan,
cooperating employer
supervision, and faculty
coordination. May be repeated
for credit. Grade will either be S

IDS 498. Special Topics (1-6).

or U. By permission.

**300 |** Page

# **International Programs & Studies**

International Studies Ellensburg International Center, room 101 509-963-3612 Fax 509-963-1558 www.cwu.edu/~intlprog

See website for how these programs may be used for educational and career purposes.

#### **Executive Director**

Michael Launius, PhD

## Staff

Bobbie Peterson, administrative assistant Margareta (Greta) Herman, fiscal specialist Roslyn Moes, international student advisor Clarice Tan, international student recruiter Nicole Burk, program assistant (SEVIS) Jan Powell, office assistant

# **Program Information**

The Office of International Studies and Programs (OISP) coordinates all internationally related activities on campus. This includes maintaining institutional linkages, facilitating faculty exchanges, recruiting international students, providing study abroad/exchange, and academic advising for both international students and American students, promoting English language acquisition through the Asia University America Program (AUAP), and the University English as a Second Language program (UESL), and collaborating with the academic deans and departments in support of the overall internationalization of the university curriculum.

OISP provides a variety of services to all segments of the university in order to meet the diverse needs of CWU's students, faculty, international students, research scholars, and professors. The following services are offered through the OISP: study abroad/ exchange advising (SAEP), advising to international students, English language training through the UESL program, and a unique English language and cultural learning experience for Japanese students from Asia University in Japan through AUAP.

# **Institutional Linkages**

Central and the Office of International Studies and Programs (OISP) maintain active inter-institutional and organizational relationships with the following universities: Anhui University, China; Gunma Prefectural Women's University, Japan; Herzen State Pedagogical University, Russia; University of Pecs, Hungary; various countries in the International Student Exchange Program; Mexico; Kyoto University of Foreign Studies, Japan; Beijing Jiaotong University, China; Queensland University of Technology, Australia; Charles Darwin University, Australia; Griffith University, Australia; Macquarie University, Australia; University of Shimane, Japan; Shimane Women's Junior College, Japan; Takushoku University, Japan; University of Hull, United Kingdom; Universidad Austral de Chile, Chile; Pukyong National University, Korea; Kyundong University, Korea; Ewha Women's University, Korea; various countries in the AHA International; Beijing University, China; Universidad Anahuac del Sur, Mexico; Universite de Pau et des Pays de l'Adour, France; College Consortium for International Studies, various countries; American Institute for Foreign Studies, various countries; Centro de Investigaciones en Medio Ambiente y Salud (CIMAS), Ecuador; University of Washington Cadiz Program, Spain; Universidad Autonoma de Guadalajara, Mexico; Asia University, Japan; American Pacific University, Vietnam and Napier University, Scotland.

Active student and faculty exchange opportunities exist between CWU and these institutions.

# **International Students and Scholars**

International students and scholars receive academic advising, advocacy, and immigration regulations and procedures assistance through OISP. Support services are available to all international students including those here for language training in the UESL department, to take part in an academic year exchange, or to obtain a bachelor or master's degree, in International, and Area Studies.

# **International and Area Studies**

CWU offers Chinese, French, German, Japanese, Russian, and Spanish language courses. Students studying a language are

encouraged to have international experience in order to learn more about the cultural context of the language. Regular degree programs are offered in foreign languages with specializations in Chinese, French, German, Japanese, Russian, and Spanish. The foreign language broad area major may include studying abroad in a country where the target language is taken.

Students can internationalize their undergraduate education by completing a major or minor in Asia/ Pacific Studies and/ or Latino and Latin American Studies Program. There is also a minor in International Studies. These programs of study are interdisciplinary and incorporate courses in anthropology, art, economics, geography, history, languages, philosophy, and political science. Other area-focused courses are also available throughout the academic year.

# **International Studies Minor**

# **Program Director**

Michael Launius, PhD Political Science International Center, room 117

# **Program Information**

The international studies minor program goals are to provide a structured interdisciplinary opportunity for students to develop the analytical skills necessary to understand and evaluate the contemporary international system; to facilitate research and creative activities that focus on international issues; to provide opportunities to directly engage in meaningful crossnational interactions; and to encourage the apprehension of the fundamental commonalities as well as rich diversities that characterize the modern world system.

# Required Courses

- ECON 102 World Economic Issues Credits: (5)
- GEOG 101 World Regional Geography Credits: (5)
- POSC 270 International Politics Credits: (5)

# International Studies Courses

• INTL 110-465 - International Studies Credits: (3)

## Electives Credits: 18

Students must complete at least four of the following courses with no more than two from any one department:

- ANTH 358 Culture and Politics in a Global Economy Credits: (4)
- COM 302 Intercultural Communication Credits: (4)
- ECON 310 International Economics Credits: (5)
- ENG 360 World Cinema Credits: (5)
- GEOG 304 Economic Geography Credits: (5)
- GEOG 460 Geography of International Trade Credits: (5)
- HED 317 International Health Credits: (3)
- MGT 384 Introduction to International Business **Credits:** (5)
- POSC 373 International Politics of the Pacific Rim Credits: (5)
- POSC 375 The Middle East and International Politics Credits: (5)
- POSC 376 International Organization Credits: (3)
- POSC 378 International Political Economy **Credits:** (5)
- POSC 470 Contemporary Issues in International Relations Credits: (3)
- RELS 201 Sacred Books of the World **Credits:** (5)
- SOC 326 Demography of Contemporary World Populations Credits: (5)
- WGS 498 Special Topics Credits: (1-6)

# Other Electives

- INTL 198-498 Special Topics Credits: (1-6)
- INTL 290/ 490 Cooperative Education Credits: (1-6)

Total Credits: 36

# Asia University America Program (AUAP)

International Studies Ellensburg International Center, room 101 509-963-1373 www.cwu.edu/~auap/

See website for how these programs may be used for educational and career purposes.

# **Program Director**

Nicki Kukar, MEd

#### Lecturers

Andrew Cottonwood MA, curriculum coordinator, American and Japanese history Rose Romfo, MA, English literature Sylvia Shriner, MA, TESL

# Staff

Angela (Angie) Wedekind, secretary senior Mark Werdin, MA, English literature, student services coordinator Emily Kutzler, student services assistant

# **Program Information**

The Asia University America Program (AUAP) is a study abroad program for freshman and sophomore students from Asia University in Tokyo, Japan. Two groups of students come to CWU each year for five months. The program is presently ongoing at two other universities in the northwest: WWU and EWU. AUAP provides students from Asia University the opportunity to improve their English skills and experience university life in the U.S. Students attend 18 hours of AUAP class es per week following the required curriculum from Asia University.

# **International Study Courses**

INTL courses are offered only in university-approved study abroad/ exchange programs. Courses may be offered and repeated for credit under different titles.

# Study Abroad and Exchange Program (SAEP)

International Studies Ellensburg International Center, room 101

509-963-3612

www.cwu.edu/~studyabroad

See website for how this program may be used for educational and career purposes.

# **Program Director**

Larry Laffrey, MA

# Staff

Roberta Lowe, secretary senior Ray Bates, study abroad advisor Kylie Gallagher, study abroad advisor

# **Program Information**

Study Abroad and Exchange Programs offers more than 150 international programs in 50 countries and over 170 exchange locations within the U.S. International internships are also available. Programs range in length from 10 days to one year. Programs grant academic credit that can be applied to major, minor, or breadth requirements with departmental approval. Foreign language proficiency is not required and many programs offer coursework in English.

# **SAEP Standards**

Minimum GPA 2.5 or higher; 2.0 for international internships.

Minimum sophomore standing for most programs; freshman standing for some faculty-led programs.

Must be in good academic and disciplinary standing.

Program-specific eligibility criteria are available on the SAEP website at www.cwu.edu/~studyabroad/.

# **Financial Obligations**

Exempt from CWU tuition. Program-specific fees apply. For more information, see the SAEP website at www.cwu.edu/~studyabroad/.

Most types of financial aid apply toward program costs. Aid may be increased if necessary depending on student aid eligibility.

# **International Study Courses**

# INTL 110. Agriculture (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 115. Business or

Management (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# **INTL 120. Education** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# **INTL 125. Engineering** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 130. Fine or Applied Arts (1-

12). Offered only in university-approved, study-abroad/ exchange programs.
Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 135. Foreign Languages (1-

12). Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 140. Health Sciences (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 145. Humanities (1-12).

Offered only in university-

approved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

in university-approved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 155. Math or Computer

Sciences (1-12). Offered only in university-approved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 160. Physical or Life Sciences

(1-12). Offered only in university-approved, study-abroad/ exchange programs.

Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 165. Social Sciences (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 198. Special Topics (1-6).

# **INTL 210. Agriculture** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# INTL 215. Business or

Management (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle.

# **INTL 220. Education** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# **INTL 225. Engineering** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 230. Fine or Applied Arts (1-

12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 235. Foreign Languages (1-

12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 240. Health Sciences (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# **INTL 245. Humanities** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

in TL 250. Law (1-12). Offered only in university-approved, study-abroad/ exchange programs.

Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 255. Math or Computer Sciences (1-12). Offered only in

university-approved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 260. Physical or Life Sciences (1-12). Offered only in university-approved, study-abroad/ exchange programs.

Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 265. Social Sciences (1-12). Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be

different subtitle. May be repeated for credit under different subtitle.

INTL 290. Cooperative Education (1-5). Internship credit offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle. Grade will either be S or U.

# INTL 298. Special Topics (1-6).

**INTL 310. Agriculture** (1-12). Offered only in university-

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 315. Business or

Management (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# **INTL 320. Education** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 330. Fine or Applied Arts (1-12). Offered only in university-approved, study-

abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 335. Foreign Languages (1-12). Offered only in university-approved, study-abroad/ exchange programs.

Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 340. Health Sciences (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 345. Humanities (1-12).

Offered only in universityapproved, studyabroad/ exchange programs.

Courses may be offered under
different subtitle. May be
repeated for credit under
different subtitle.

INTL 350. Law (1-12). Offered only in university-approved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 355. Math or Computer Sciences (1-12). Offered only in university-approved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 360. Physical or Life Sciences (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 365. Social Sciences (1-12).
Offered only in universityapproved, studyabroad/ exchange programs.
Courses may be offered under
different subtitle. May be
repeated for credit under
different subtitle.

INTL 398. Special Topics (1-6). INTL 410. Agriculture (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 415. Business or

Management (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 420. Education (1-12).

Offered only in universityapproved, studyabroad/ exchange programs.

Courses may be offered under
different subtitle. May be
repeated for credit under
different subtitle.

INTL 421. Student Teaching
Abroad (16). Course is available for overseas student teaching placements through an approved CWU program. Course may substitute for CWU student teaching requirement with prior permission of director of field experiences only. Grade will either be S or U. Department consent.

INTL 425. Engineering (1-12).

Offered only in universityapproved, studyabroad/ exchange programs.

Courses may be offered under
different subtitle. May be
repeated for credit under
different subtitle.

INTL 430. Fine or Applied Arts (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 435. Foreign Languages (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 440. Health Sciences (1-12).
Offered only in universityapproved, studyabroad/ exchange programs.
Courses may be offered under
different subtitle. May be

repeated for credit under different subtitle.

# **INTL 445. Humanities** (1-12).

Offered only in universityapproved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

INTL 450. Law (1-12). Offered only in university-approved, studyabroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 455. Math or Computer

Sciences (1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

# INTL 460. Physical or Life Sciences

(1-12). Offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

**INTL 465. Social Sciences** (1-12). Offered only in university-

abroad/ exchange programs. Courses may be offered under different subtitle. May be repeated for credit under different subtitle.

approved, study-

# INTL 490. Cooperative Education

(1-12). Internship credit offered only in university-approved, study-abroad/ exchange programs. Courses may be offered under different titles. May be repeated for credit under different subtitle. Grade will either be S or U.

INTL 498. Special Topics (1-6).

# **Latino & Latin American Studies Program**

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 416E 509-963-3432 Fax 509-963-1561 www.cwu.edu/~la\_studies

See website for how these programs may be used for educational and career purposes.

# Co-Directors

Stella Moreno, PhD, foreign languages Chris Schedler, PhD, English

# **Faculty**

Tracy Andrews, PhD, anthropology Loran Cutsinger, PhD, anthropology Jason Dormady, PhD, history Gilberto Garcia, PhD, political science Alejandro Lee, PhD, foreign languages Jennifer Lipton, MA, geography Eric Mayer, PhD, foreign languages Stella Moreno, PhD, foreign languages Nelson Pichardo, PhD, sociology Craig Revels, PhD, geography Chris Schedler, PhD, English

# **Program Information**

The Latino and Latin American Studies Program (LLAS) seeks to engage CWU students, faculty, staff, and local communities in a study of Latino and Latin American experiences, peoples, and cultures. The LLAS minor provides students with broad, interdisciplinary training in the economic, social, political, and cultural realities of Latino and Latin American peoples. The minor will be extremely valuable for those pursuing careers in business, government, social work, law and justice, and teaching that require engagement with Latino communities in the United States, as well as for those who wish to travel and work in Latin America. Moreover, the Latino and Latin American Studies minor may also serve as preparation for graduate study in multiple academic or professional fields.

# Latino and Latin American Studies Minor

# **General Program Information**

The Latino and Latin American Studies Program (LLAS) seeks to engage CWU students, faculty, staff, and local communities in a study of Latino and Latin American experiences, peoples, and cultures. The LLAS minor provides students with broad, interdisciplinary training in the economic, social, political, and cultural realities of Latino and Latin American peoples. The minor will be extremely valuable for those pursuing careers in business, government, social work, law and justice, and teaching that require engagement with Latino communities in the United States, as well as for those who wish to travel and work in Latin America. Moreover, the Latino and Latin American Studies minor may also serve as preparation for graduate study in multiple academic or professional fields.

# Latino and Latin American Studies Minor

Requirements for minors in Latino and Latin American Studies

- Prerequisite: Spanish, Portuguese, or French language equivalent to the end of the first year (153).
- Required Course (5 credits)
- LLAS 102, An Introduction to Latino and Latin American Studies
- Required Elective Credits (20 credits)
- A total of 20 approved elective credits in at least three different disciplines at the 300 level or above is required (see "List of Approved CWU Courses" below). Courses taken through CWU exchange or study-abroad programs in a Latin American university may be applied for minor program credit. Courses that do not appear on the approved list but contain significant Latino and Latin American content may be used for minor program credit, upon approval of the LLAS director(s).
- An average GPA of 2.0 is required in all program courses.

# List of Approved CWU Courses (By Department/ Program)

- (a) Anthropology
- ANTH 342 Hispanic Cultures of the Western U.S. Credits: (4)
- ANTH 346 Cultures of Latin America and the Caribbean Credits: (4)
- (b) English
- ENG 331 Latina/ o Literature Credits: (5)
- (c) Ethnic Studies
- ETS 350 Survey of Chicano Studies Credits: (5)
- (d) Foreign Languages
- SPAN 301 Introduction to Spanish and Latin American Literature Credits: (4)
- SPAN 310 Hispanic Civilizations and Cultures Credits: (4)
- SPAN 446 Hispanic Cinema Credits: (4)
- SPAN 456 The Spanish and Latin Short Story Credits: (4)
- SPAN 457 Latin American Theater Credits: (4)
- SPAN 459 Latin American Poetry Credits: (4)
- SPAN 467 Spanish and Latin American Literature and Film Credits: (4)
- (e) Geography
- GEOG 470 Geography of Latin America Credits: (4)
- (f) History
- HIST 328 Modern Latin America Credits: (5)
- HIST 386 The Latin American Colonies **Credits:** (5)
- HIST 464 Latin American Revolutions Credits: (5)
- HIST 488 Mexico in the Modern Era **Credits:** (5)
- (g) Latino and Latin American Studies
- LLAS 398 Special Topics Credits: (1-6)
- LLAS 496 Individual Study Credits: (1-6)
- (h) Political Science
- POSC 361 Latin American Politics Credits: (5)

# **Latino and Latin American Studies Courses**

LLAS 102. An Introduction to Latino and Latin American Studies

(5). A multi-disciplinary introduction of Latino and Latin American studies, presented in

three main components: People and the Land, The Environment and the Human Condition, and SocioPolitical Spectrum. SB-Perspective on World Culture (W) LLAS 398. Special Topics (1-6). LLAS 496. Individual Study (1-6).

# Language, Literacy, and Special Education Department

College of Education and Professional Studies
Ellensburg
Black Hall, room 205
509-963-2049
www.cwu.edu/ language-literacy
See website for how these programs may be used for educational and career purposes

# Faculty and Staff

## Chairs

Carol Butterfield, PhD Daniel Fennerty, EdD

# **Professors**

Carol Butterfield, PhD, literacy, TESL Susan Donahoe, PhD, literacy Dan Fennerty, EdD, special education Connie Lambert, PhD, special education

## **Associate Professors**

Yukari Amos, PhD, bilingual education, TESL Janet Finke, PhD, literacy Craig Hughes, PhD, bilingual education, TESLTerrance McCain, PhD, bilingual education, TESL Andrea C. Sledge, PhD, literacy

# **Assistant Professors**

YiShan Lea, EdD, bilingual education, TESL Cristina Santamaria, PhD, special education Janet Spybrook, Ed D, special education Shu-Fei Tsai, PhD, special education Sharryn Walker, PhD, literacy Sandra Wentworth, PhD, special education

# Lecturer

Judy Backlund, MA, literacy

# Staff

Nancy Schnebly

# **Department Information**

Major and/or minor programs in the Department of Language, Literacy, and Special Education include bilingual education/ teaching English as a second language (TESL), literacy, and special education. The courses in these programs are designated by the course prefixes EDBL, EDLT, and EDSE, respectively.

In addition to major and/or minor in LLSE, students must complete the Professional Education Program. Students choosing to complete a major or minor without completing the Professional Education Program must have program approval at the time of declaration.

Students completing a special education major or minor must complete EDCS 424 if they are pursuing a secondary discipline-specific teaching major (or EDLT 308 for those also seeking an elementary-specific teaching major) as part of the Professional Education Program. All students completing a secondary discipline-specific program must complete EDCS 424. All other

education department majors or minors do not require the completion of this course. Also, at least 75 percent of the endorsable major or minor must be completed prior to EDCS 442, Student Teaching.

# **Department Standards**

All students completing an educational endorsement must maintain a 3.0 GPA or higher for the last 45 graded credits. Students must also earn a minimum grade of C in all required education courses.

# **Special Education Majors**

The special education majors offered are specifically designed to prepare teachers for meeting the diverse competencies required for teaching individuals with disabilities. Students electing special education teaching must follow one of the outlined programs. EDSE 302 must be taken prior to or concurrently with EDSE 311.

# Special Education (P-12) Broad Area Major, BAEd

This major is for students planning to earn a teaching certificate with special education P-12 endorsement. Students majoring in special education are only allowed to teach special education unless they have another endorsable major/ minor.

# Required Courses

- EDEL 323 Teaching Elementary School Mathematics Credits: (4)
- EDLT 308 Literacy I Credits: (3)
- EDLT 409 Literacy II Credits: (5)
- EDLT 422 Teaching the Language Arts **Credits:** (4)
- EDSE 310 Introduction to Special Education Credits: (4)
- EDSE 311 Foundations of Special Education Credits: (1)
- EDSE 410 Behavior Management for Students with Disabilities Credits: (3)
- EDSE 411 Assessment of Students with Disabilities Credits: (4)
- EDSE 422 Teaching Strategies, Curriculum, and Materials for Students with Disabilities Credits: (5)
- EDSE 423 Instructional Practices/ Strategies in Literacy and Math for Students with High Incident Disabilities Credits: (4)
- EDSE 426 The Child with Language Disabilities Credits: (3)
- EDSE 431 Individualized Educational programs for Students with Disabilities Credits: (4)
- EDSE 432 Strategies for Working with Students with Low Incidence Disabilities Credits: (3)
- EDSE 433 Pre-school for Students with Developmental Delays Credits: (3)
- EDSE 460 Collaboration with Parents, Paraprofessionals, and Community Agencies Credits: (4)
- EDSE 495 Practicum **Credits:** (5-16) (must be taken for 16 credits)

Total Credits: 70

University <u>General Education</u> and <u>Professional Education/ Core Sequence</u> requirements must also be met for graduation/teacher certification, as well as the completion of an approved university minor.

# Special Education (P-12) Major, BAEd

This major satisfies the endorsement for special education. This major is for students planning to earn a teaching certificate with special education P-12 endorsement. This major requires a minor.

# Required Courses

- Department-approved electives: Credits (3)
- EDSE 310 Introduction to Special Education Credits: (4)
- EDSE 311 Foundations of Special Education Credits: (1)
- EDSE 410 Behavior Management for Students with Disabilities Credits: (3)
- EDSE 411 Assessment of Students with Disabilities Credits: (4)
- EDSE 422 Teaching Strategies, Curriculum, and Materials for Students with Disabilities Credits: (5)
- EDSE 423 Instructional Practices/ Strategies in Literacy and Math for Students with High Incident Disabilities Credits: (4)
- EDSE 426 The Child with Language Disabilities Credits: (3)
- EDSE 431 Individualized Educational programs for Students with Disabilities Credits: (4)

<sup>\*\*</sup> Majors of 60 or more credits do not require an accompanying minor.

- EDSE 432 Strategies for Working with Students with Low Incidence Disabilities Credits: (3)
- EDSE 433 Pre-school for Students with Developmental Delays Credits: (3)
- EDSE 460 Collaboration with Parents, Paraprofessionals, and Community Agencies Credits: (4)
- EDSE 495 Practicum **Credits:** (5-16) Credits: (16)

Total Credits: 57

# **Global Literacy Development Certificate**

Students in the Global Literacy Development Certificate Program will gain knowledge of best practices in literacy development and effective communication strategies. They will be prepared to support professionals in creating and supporting literacy programs in communities across cultures and around the world. This certificate program will be offered at the Ellensburg campus and on-line.

# Required Courses

- COM 365 Organizational Communication Credits: (4)
- EDLT 317 Early Literacy Credits: (3)
- EDLT 321 Teaching Children's Literature Credits: (3)
- EDLT 414 Teaching Literacy in a Multi-Cultural, Multi-Lingual Setting Credits: (3)
- EDLT 418 Literacy and Linguistics Credits: (3)
- EDLT 498 Special Topics Credits: (1-6)
- EDLT 499 Seminar Credits: (1-5)

Total Credits: 18

# Bilingual Education/Teaching English as a Second Language Minor

This minor satisfies the endorsements for bilingual education and English as a second language. This minor serves the goals and requirements of students wishing to teach in classrooms characterized by cultural and linguistic diversity. The bilingual/ TESL minor leads to K-12 endorsements in bilingual education and English Language Learners. Students must demonstrate proficiency in a non-English language in order to meet the bilingual education minor requirements. This is to be demonstrated by passing the foreign language examination assessment required by the State of Washington. Passing this assessment is required before program completion.

Full admission into the Professional Education Program is required before enrollment in any of the EDBL courses.

EDBL 492 requires that four (4) required program courses be completed before enrollment.

# Required Courses

- EDBL 312 Foundations in Bilingual Education Credits: (3)
- EDBL 318 Culture in the Classroom **Credits:** (3)
- EDBL 430 Sheltering Instruction for Linguistically Diverse Students Credits: (3)
- EDBL 433 Educational Linguistics **Credits:** (3)
- EDBL 435 Bilingual Education in the Content Areas Credits: (3)
- EDBL 438 Teaching English as a Second Language **Credits:** (3)
- EDBL 439 Assessment of Linguistically Diverse Students **Credits:** (3)
- EDBL 440 Development of Literacy with Linguistically Diverse Students Credits: (3)
- EDBL 492 Practicum Credits: (1-15) Credits: (3) (Four EDBL courses must be completed before EDBL 492 admission)

Total Credits: 27

# **Literacy Minor**

The literacy minor, with campus and field experiences, is designed to prepare literacy teachers and strengthen background preparation of elementary teachers.

EDLT 308 and EDLT 409 are prerequisites for admittance to the minor. All EDLT 300-level courses DO NOT require acceptance into the TCP. All EDLT 400-level courses require FULL acceptance into the TCP for literacy minors. The minor should be commenced in the junior year.

EDLT 493 also requires permission of the department (designated as the instructor of EDLT 493).

Permission will not be granted until six required courses in the literacy minor, excluding prerequisite courses, are completed or will be completed the quarter prior to enrollment.

# Required Courses

- EDLT 308 Literacy I **Credits:** (3) \*EDLT 308 is a prerequisite for the minor.
- EDLT 409 Literacy II **Credits:** (5) \*EDLT 409 is a prerequisite for the minor.
- EDLT 324 Literacy Across the Curriculum **Credits:** (3)
- EDLT 410 Teaching Word Recognition Skills Credits: (3)
- EDLT 411 Teaching Comprehension Credits: (3)
- EDLT 412 Assessment of Literacy Skills and Processes Credits: (3)
- EDLT 413 Methods and Materials for Literacy Instruction Credits: (3)
- EDLT 414 Teaching Literacy in a Multi-Cultural, Multi-Lingual Setting Credits: (3)
- EDLT 418 Literacy and Linguistics Credits: (3)
- EDLT 493 Literacy Practicum **Credits:** (6) (Requires department permission) A minimum of 6 required literacy minor courses, excluding prerequisites, must be completed for permission.

Elective Courses - Credits: 3

# Selected at least one course.

- EDBL 440 Development of Literacy with Linguistically Diverse Students Credits: (3)
- EDLT 315 Literacy Strategies for Struggling and Advanced Learners Credits: (3)
- EDLT 317 Early Literacy Credits: (3)
- EDLT 319 Storytelling Techniques **Credits:** (3)

Total Credits: 38

# **Special Education Minor**

The special education programs offered are specifically designed to prepare teachers for meeting the diverse tasks required in teaching individuals with disabilities. The minor may serve as a "pre-endorsement" plan for those wishing to add the special education endorsement at a later date. See a special education advisor for your individualized pre-endorsement plan.

# Required Courses

- EDSE 310 Introduction to Special Education Credits: (4)
- EDSE 311 Foundations of Special Education Credits: (1)
- EDSE 410 Behavior Management for Students with Disabilities Credits: (3)
- EDSE 411 Assessment of Students with Disabilities Credits: (4)
- EDSE 422 Teaching Strategies, Curriculum, and Materials for Students with Disabilities Credits: (5)
- EDSE 423 Instructional Practices/ Strategies in Literacy and Math for Students with High Incident Disabilities Credits: (4)
- EDSE 431 Individualized Educational programs for Students with Disabilities Credits: (4)
- EDSE 432 Strategies for Working with Students with Low Incidence Disabilities Credits: (3)
- EDSE 433 Pre-school for Students with Developmental Delays Credits: (3)
- EDSE 460 Collaboration with Parents, Paraprofessionals, and Community Agencies Credits: (4)

Total Credits: 35

# Teaching English as a Second Language (TESL) Minor

This minor satisfies the endorsement for English as a second language. This minor prepares students to teach in classrooms where second language students are enrolled. While the bilingual/ TESL minor leads to a bilingual education endorsement, the TESL minor leads to an English Language Learners endorsement. Students must complete, or have already completed, one year of study in a foreign or second language or the equivalent (at either the high school or university level).

Full admission into the Professional Education Program is required before enrollment in any of the EDBL courses.

EDBL 492 requires that four (4) required program courses be completed before enrollment.

## Required Courses

- Program-approved electives Credits: (3)
- EDBL 312 Foundations in Bilingual Education Credits: (3)
- EDBL 318 Culture in the Classroom **Credits:** (3)
- EDBL 430 Sheltering Instruction for Linguistically Diverse Students Credits: (3)
- EDBL 433 Educational Linguistics Credits: (3)
- EDBL 438 Teaching English as a Second Language Credits: (3)
- EDBL 439 Assessment of Linguistically Diverse Students Credits: (3)
- EDBL 440 Development of Literacy with Linguistically Diverse Students Credits: (3)
- EDBL 492 Practicum Credits: (1-15) Credits: (3) (Four EDBL courses must be completed before EDBL 492 admission)

Total Credits: 27

# **Bilingual Education Courses**

EDBL 296. Individual Study (1-6).

EDBL 298. Special Topics (1-6).

**EDBL 299. Seminar** (1-5).

# EDBL 312. Foundations in

**Bilingual Education** (3).

Education of students whose primary language is other than English. Research on linguistic, social and community issues pertaining to bilingualism and bilingual education. Prerequisite: admission to the Teacher Certification Program.

# EDBL 318. Culture in the

Classroom (3). The importance of culture-based curriculum to children, families and communities, and its creation, use and evaluation. ANTH 130 recommended. Prerequisite: admission to the Teacher Certification Program.

EDBL 396. Individual Study (1-6).
EDBL 398. Special Topics (1-6).
EDBL 401. Principles and Practices
for Educating Linguistically
Diverse Students (3). Required
coursework that provides the
fundamental background in
language and learning theories
needed to educate linguistically
diverse students. The basics of
sheltered instruction are
introduced. Prerequisites: EFC
340 and admission to the Teacher
Certification Program.

EDBL 430. Sheltering Instruction for Linguistically Diverse
Students (3). This course provides teacher candidates the basic competencies and skills needed to make appropriate modifications and accommodations for linguistically diverse students in

content area instruction.

Prerequsites: students must be admitted to the bilingual education/ teaching ESL or teaching ESL or teaching ESL minor, and admitted to the Teacher Certification Program.

# EDBL 432. Second Language Acquisition and Related Methodologies (3). This course examines different theories of second language acquisition and their relationships with the development of the methodologies for teaching a second language. Prerequisite: conditional or full admission to the Teacher Certification Program.

# EDBL 433. Educational Linguistics

(3). Phonology, syntax, and semantics applicable to speech and learning situations in the school. Not recommended for undergraduates with no teaching experience. Prerequisite: full admission to the Teacher Certification Program.

# EDBL 435. Bilingual Education in the Content Areas (3). Designed to develop teacher competency related to the bilingual instruction of coursework in language arts, social studies, science and mathematics in both English and Spanish. The use of ESL in these content areas is emphasized. Taught in English and Spanish. Prerequisite: admission to the Teacher Certification Program.

EDBL 438. Teaching English as a Second Language (3). Prepares teachers in the development and practice of research-based methods and techniques used to assist K-12 English Language Learners in acquiring academic English. Prerequisite: admission to the Teacher Certification Program.

# EDBL 439. Assessment of Linguistically Diverse Students

(3). This course prepares students to use effective assessment programs and techniques with linguistically diverse students in order to improve identification, reclassification, and teaching of such students. Prerequisite: admission to the Teacher Certification Program.

# EDBL 440. Development of Literacy with Linguistically Diverse Students (3). Reading instruction for K-12 students who are speakers of a language other than English. Linguistic theory and information for developing and implementing strategies and techniques for literacy acquisition in English. Prerequisite: full admission to the Teacher Certification Program.

EDBL 492. Practicum (1-15). This course will provide students with experience working in bilingual education and/ or English as a second language settings. Students may accumulate no more than 15 hours of practicum credit. Prerequisite: students must have completed four courses in the Bilingual Ed or Teaching ESL minor, and admission to the Teacher Certification program and current WSP/ FBI fingerprint clearance. May be repeated up to

15 credits. Grade will either be S or U.

EDBL 496. Individual Study (1-6). EDBL 498. Special Topics (1-6). EDBL 499. Seminar (1-5).

Literacy Education Courses
EDLT 296. Individual Study (1-6).
EDLT 298. Special Topics (1-6).
EDLT 299. Seminar (1-5). May be repeated for credit.

EDLT 308. Literacy I (3). First of two courses designed to prepare prospective teachers to teach literacy in elementary school classrooms. Deals with processes and products of the literacy act, methods and materials, assessment procedures, and instruments.

EDLT 315. Literacy Strategies for Struggling and Advanced Learners (3). Techniques for identifying and differentiating instruction for both struggling and advanced literacy learners. Prerequisite: current WSP/FBI fingerprint clearance.

EDLT 317. Early Literacy (3).

Aspects of early literacy acquisition and instruction including language development, phonemic awareness, writing, play and socio-cultural contexts are emphasized. Prerequisite: current WSP/ FBI fingerprint clearance.

EDLT 319. Storytelling Techniques
(3). Storytelling in the integrated curriculum. Students become familiar with a variety of stories and demonstrate the ability to tell stories. Prerequisite: current WSP/ FBI fingerprint clearance.

EDLT 321. Teaching Children's
Literature (3). The types of
literature suited to children in
grades 1-6; includes reading and
evaluation of material from early
folklore to present day books for
children. Prerequisite: current
WSP/ FBI fingerprint clearance.

EDLT 324. Literacy Across the Curriculum (3). For K-12 school teachers, administrators. Focuses on knowledge, strategies and skills needed by K-12 students for efficient and effective use of print and non-print materials across the curriculum. Prerequisite: current WSP/FBI fingerprint clearance.

**EDLT 396. Individual Study** (1-6). May be repeated for credit. By permission.

**EDLT 398. Special Topics** (1-6). May be repeated for credit.

EDLT 409. Literacy II (5). Content and methodology of early literacy, vocabulary development, phonic and structural analysis, comprehension and study skills. Field experience in a local school embedded. Prerequisites: EDLT 308, current WSP/FBI fingerprint clearance, and admission to the Teacher Certification Program.

EDLT 410. Teaching Word
Recognition Skills (3). Methods
for teaching word recognition
skills will be developed.
Decoding as an aid to
comprehension, including
phonetic analysis, context clues,
structural analysis, and sight
vocabulary. Prerequisites: EDLT
308 and EDLT 309, admission to
the Teacher Certification
Program, and current WSP/ FBI
fingerprint clearance.

EDLT 411. Teaching
Comprehension (3).
Comprehension strategies and techniques; techniques for vocabulary development.
Prerequisites: EDLT 308 and EDLT 309, admission to the Teacher Certification Program, and current WSP/ FBI fingerprint

# **EDLT 412.** Assessment of Literacy Skills and Processes (3).

clearance.

Assessment instruments, procedures, and interpretive skills for determining student reading levels and needs. Emphasizes the selection, administration, and interpretation of evaluation tools. Prerequisites: EDLT 308 and EDLT 309, admission to the Teacher Certification Program, and current WSP/ FBI fingerprint clearance.

# EDLT 413. Methods and Materials for Literacy Instruction (3).

Strategies for classroom management, implementation of learning theories. Prerequisites: EDLT 308 and EDLT 309, admission to the Teacher Certification Program, and current WSP/ FBI fingerprint clearance .

EDLT 414. Teaching Literacy in a Multi-Cultural, Multi-Lingual Setting (3). Strategies for teaching literacy and developing language skills in a multi-cultural, multi-linguistic setting. Prerequisites: EDLT 308 and EDLT 309, current WSP/FBI fingerprint clearance, and admission to the Teacher Certification Program.

# **EDLT 418. Literacy and Linguistics**

(3). This course is intended to provide literacy teachers with a general introduction to the major fields of linguistics, including phonology and phonetics, morphology, syntax, semantics, discourse analysis, language acquisition, and dialects. Prerequisites: EDLT 308 and EDLT 309, admission to the Teacher Certification Program, and current WSP/ FBI fingerprint clearance.

EDLT 422. Teaching the Language
Arts (4). Primarily for prospective
elementary school teachers.
Listening, writing, speaking,
spelling, and handwriting
development. Emphasizes
curriculum, methods, materials,
and research. Experienced
teachers see EDEL 531.
Prerequisites: EDLT 308, current
WSP/ FBI fingerprint clearance,
and admission to the Teacher
Certification Program.

# EDLT 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: admission to the Teacher Certification Program. May be repeated for credit. Grade will either be S or U. By permission.

# EDLT 493. Literacy Practicum (6).

Practical experience working with children in classroom settings. Prerequisite: EDLT 308 and EDLT 309, and 6 required courses in the literacy minor. Grade will either be S or U. By permission.

# **EDLT 496. Individual Study** (1-6). May be repeated for credit. Grade will either be S or U. By permission.

EDLT 498. Special Topics (1-6). May be repeated for credit. EDLT 499. Seminar (1-5). May be repeated for credit.

Special Education Courses EDSE 296. Individual Study (1-6). EDSE 302. Introduction to

**Students with Exceptionalities** (3). Designed to introduce effective teaching strategies and strategies for adapting standard instruction to meet the needs of a range of students found in the typical classroom. This course provides information about students considered disabled as well as gifted and students with multicultural heritages. Prerequisites: EFC 340 and admission to the Teacher Certification Program. Through spring 2012 the course is 4 credits, and effective summer 2012 it changes to 3 credits.

**EDSE 310. Introduction to Special** Education (4). Prerequisite to a Special Education course of study. Junior or senior class standing required or permission of instructor. Designed to introduce prospective teachers to the legal requirements of special education including eligibility, programming, and instruction. Skills necessary for collaborative relationships in the multidisciplinary team process will also be emphasized. Prerequisite: current WSP/FBI fingerprint clearance, and conditional or full admission to the Teacher Certification Program.

EDSE 311. Foundations of Special Education (1). Designed to provide prospective teachers with the necessary foundations for successful completion of the special education course of study including end-of-program assessment, undergraduate research, and written and oral communication skills. This course should be taken at the beginning of the special education course of study.

EDSE 396. Individual Study (1-6).

# EDSE 398. Special Topics (1-6). EDSE 410. Behavior Management for Students with Disabilities

(3). Fundamentals of behavior change related to the education of students with disabilities. Monitoring individual student progress and utilizing data collected for program instructional change. Prerequisites: EDSE 310, EDSE 311, current WSP/ FBI fingerprint clearance, and conditional or full admission to the Teacher Preparation Program.

EDSE 411. Assessment of Students with Disabilities (4). Selecting, administering, scoring, and interpreting formal assessment tools. Designing and using informal testing techniques. Prerequisites: EDSE 310, 311, and conditional or full admission to the Teacher Certification Program.

EDSE 422. Teaching Strategies,
Curriculum, and Materials for
Students with Disabilities (5).
Individual, small, and large
group teaching strategies
essential to individualized
education programs, and
selection, evaluation, and
adaptation of commercially
available materials, including
computer applications.
Prerequisites: EDSE 310 and
EDSE 311, either EDSE 410 or
EDSE 411, and admission to the
Teacher Certification Program.

EDSE 423. Instructional

Practices/Strategies in Literacy and Math for Students with High Incident Disabilities (4). Specially designed instructional strategies and programming considerations for students with high incidence special needs in reading, written expression and mathematics. Prerequisites: EDSE 310, EDSE 311, EDSE 410, EDSE 411, current WSP/ FBI fingerprint clearance, and admission to the Teacher Certification Program.

EDSE 426. The Child with
Language Disabilities (3). An
exploration of the child with
language disabilities (age birth-6)
from the perspective of normal
language development,
assessment strategies, and
remedial techniques.

Recommended for teachers of children with mild and severe disabilities. Prerequisites: EDSE 311, current WSP/ FBI fingerprint clearance, and application or admission to the Teacher Certification Program.

EDSE 427. American Sign

Language I (3). Introduces
educational use of ASL including
conversationally relevant signs,
finger-spelling, numbers,
grammatical principles and
features of American Sign
Language. Not accepted as
general education credit.
Prerequisite: admission to the
Teacher Certification Program, or

EDSE 428. American Sign
Language II (3). Educational use of ASL structure emphasized as well as both expressive and receptive skills in finger-spelling and sign emphasized. Not accepted as general education credit. Prerequisites: EDSE 427 and admission to the Teacher Certification Program.

permission of instructor.

# EDSE 431. Individualized Educational programs for Students with Disabilities (4).

Designed to introduce prospective students to the legally and professionally supported process for creating IFSP's and IEP's. Prequisites: EDSE 310, EDSE 311, EDSE 410, EDSE 411 and EDSE 422 and admission to the Teacher Certification Program.

# EDSE 432. Strategies for Working with Students with Low Incidence Disabilities (3).

Designed to introduce prospective teachers to the research supported strategies necessary for effective implementation for students with low incidence disabilities.

Prerequisites: EDSE 310, EDSE 311, EDSE 410, EDSE 411, and admission to the Teacher Certificate Program.

# EDSE 433. Pre-school for Students with Developmental Delays (3).

An overview of services for children with disabilities, aged birth-6, including legislation, risk factors, educational development, alternative delivery systems and intervention approaches and environments. Prerequisites: EDF 302 or EDSE 310, current WSP/ FBI fingerprint clearance, and admission to Teacher Certification Program.

# EDSE 460. Collaboration with Parents, Paraprofessionals, and Community Agencies (4).

Designed to introduce prospective teachers to the legal requirements of special education including eligibility, programming and instruction. Also emphasizing skills necessary for collaborative relationships in the team process. Prerequisite: conditional or full admission to the Teacher Certification Program.

# EDSE 489. Research and Inquiry

(2). Course designed to enhance understanding of research and inquiry skills related to disability

topics and issues for prospective special educators. Prerequisites: EDSE 310, EDSE 311, EDSE 410, EDSE 411, EDSE 422, and admission to the Teacher Certification Program. By permission.

# EDSE 490. Cooperative Education

(1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prior approval required. Prerequisite: current WSP/ FBI fingerprint clearance, and admission to the Teacher Certification Program. May be repeated for credit. Grade will either be S or U.

# **EDSE 491. Workshop** (1-6).

Prerequisite: admission to the Teacher Certification Program or permission of the instructor. May be repeated for credit.

# **EDSE 495. Practicum** (5-16).

Practical experience with children having learning, behavioral or physical disabilities; using behavioral management techniques in an effort to bring the child up to maximum potential as determined by his/ her flexibility, sociality and capacity. Prerequisite: current WSP/ FBI fingerprint clearance. May be repeated up to 16 credits. Grade will either be S or U.

EDSE 496. Individual Study (1-6). EDSE 498. Special Topics (1-6). EDSE 499. Seminar (1-5).

# Law and Justice Department

College of the Sciences Ellensburg Farrell Hall, room 309 CWU-Des Moines (D) CWU-Kent (K) CWU-Lynnwood (L) CWU-Pierce County (PC) CWU-Yakima (Y) 509-963-3208 Fax: 509-963-3205

www.cwu.edu/ law

See website for how these programs may be used for educational and career purposes.

# Faculty and Staff

# Chair

Charles Reasons, PhD, JD

# **University Center Department Directors**

Rodrigo Murataya, PhD (Y) Krystal Noga-Styron, JD (L) Mary Ellen Reimund, LLM (D) Key Sun, PhD (PC)

# **Professors**

Sarah Britto, PhD, criminology, media and fear of crime, restorative justice
J. Michael Olivero, PhD, corrections, criminology
Charles Reasons, PhD, JD, criminology, criminal justice, law, comparative justice
Key Sun, PhD, correctional counseling, comparative criminal justice, psychological criminology

# **Associate Professors**

Rodrigo Murataya, PhD, criminal investigation, police-community relations, police personnel administration Mary Ellen Reimund, LLM, criminal law, alternative dispute resolution, restorative justice

#### **Assistant Professors**

Teresa Francis, LLM, criminal law, correctional law

Krystal Noga-Styron, JD, criminal law, crime and the media

Cody Stoddard, ABD, policing, courts, criminological theory, quantitative methods

## Lecturers

Cathy Busha, JD, family law, legal research, legal writing, paralegal Robert Moore, MA, corrections, correctional counseling Simeon Sungi. LLM, human rights law, criminal justice

# Staff

Michael Hanscom, secretary senior

# **Department Standards**

## Admission to the major and to the minor

- Grade requirement: overall grade point average of 2.25 or higher. The department chair may admit a limited number of students with grade point averages below 2.25 under extenuating circumstances.
- Students applying to the major must submit a major application form.
- The law and justice department reserves the right to modify these requirements in special cases or as the needs of the department change.

# **Exit Requirements**

A minimum grade of C- must be earned in all courses used to fulfill the requirements of the major and of the minor.

## **Bachelor of Arts**

(NOTE: Students seeking a BA degree must complete one year of college/ university study or two years of high school study of a single foreign language.)

(Note: for all 400-level LAJ courses, student must have completed either a DTA or ENG 101 and 102, MATH 101 or 153 or 154 or 164 or 170 or 172, MATH 102 or MATH 130 or PHIL 201 or CS 105 (basic skills in these categories.)

# Law and Justice Core Requirements

LAJ 300 - Administration of Criminal Justice 4

LAJ 302 - Criminal Procedure 4

LAJ 303 - Legal Research 4

LAJ 313 - Criminal Law 4

LAJ 400 - Research Methods in Criminal Justice (4) 4-5 OR

SOC 363 - Methods of Social Research (5) OR

PSY 300 - Research Methods in Psychology (5)

LAJ 401 - Ethics, Diversity, and Conflict in Criminal Justice 4

LAJ 420 - Community and Social Justice 4

LAJ 451 - Crime in America 4

Total Credits: 32-33

# Law and Justice Major, BA

# Admission to the Major and to the Minor

- Grade requirement: overall grade point average of 2.25 or higher. The department chair may admit a limited number of students with grade point averages below 2.25 under extenuating circumstances.
- Students applying to the major must submit a major application form.
- The law and justice department reserves the right to modify these requirements in special cases or as the needs of the department change.

# **Exit Requirements**

A minimum grade of C- must be earned in all courses used to fulfill the requirements of the major and of the minor.

(NOTE: Students seeking a B.A. degree must complete one year college/ university study or two years high school study of a single foreign language.)

# Core Requirements

- LAJ 300 Administration of Criminal Justice Credits: (4)
- LAJ 302 Criminal Procedure Credits: (4)
- LAJ 303 Legal Research Credits: (4)

- LAJ 313 Introduction to Criminal Law Credits: (4)
- LAJ 400 Research Methods in Criminal Justice Credits: (4)OR
- SOC 363 Methods of Social Research Credits: (5) OR
- PSY 300 Research Methods in Psychology Credits: (5)
- LAJ 401 Ethics, Diversity, and Conflict in Criminal Justice Credits: (4)
- LAJ 420 Community and Social Justice Credits: (4)
- LAJ 451 Crime in America Credits: (4)

Core Requirements Total Credits: 32-33

LAJ Electives Credits: 20

Select five (5) upper-division CWU LAJ courses (other than 490, 492, 495, or 496).

Approved Electives Credits: 8

Select eight (8) credits from the list of approved electives. See department for a complete list of approved electives.\*

Total Credits: 60-61

# **Law and Justice Minor**

Required Courses Credits: 12-13

Select three (3) LAJ courses from the LAJ core requirements.

- LAJ 300 Administration of Criminal Justice Credits: (4)
- LAJ 302 Criminal Procedure Credits: (4)
- LAJ 303 Legal Research Credits: (4)
- LAJ 313 Introduction to Criminal Law Credits: (4)
- LAJ 400 Research Methods in Criminal Justice Credits: (4)
- LAJ 401 Ethics, Diversity, and Conflict in Criminal Justice Credits: (4)
- LAJ 420 Community and Social Justice Credits: (4)
- LAJ 451 Crime in America Credits: (4)

LAJ Electives Credits: 12

Select three (3) upper-division CWU LAJ courses (other than 490, 492, 495, or 496).

Total Credits: 24-25

# Law and Justice Courses

LAJ 102. Introduction to Law and Justice (5). This course will focus on the role of law in society and will examine both the criminal and civil law system, as well as, the function of law in social change and social control. SB-Perspectives on Cultures and experiences of U.S.

LAJ 300. Administration of

Criminal Justice (4). The sources of police power and authority in a democratic society, the internal organization and administration of federal, state and local agencies, their interaction with each other, and with the communities they serve.

**LAJ 302. Criminal Procedure** (4). A review of guidelines for police arrest, search, interrogation, and

identification procedures based upon rules of criminal procedure derived from the U.S. Constitution. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ 303. Legal Research (4).

Techniques of legal research; the case system, statutes, court decisions, Shepardizing. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ311. Family Law (4). Marriage, divorce, state regulation, custody, and care and supervision of children. LAJ 300 is recommended.

LAJ 313. Introduction to Criminal Law (4) Scope and nature of law

Law (4). Scope and nature of law; classification of offenses; act and intent; capacity to commit crime

and defenses. Elements of major criminal statutes. LAJ 300 is recommended.

LAJ316. Introduction to Paralegal Studies (4). This course provides an introduction to paralegal studies. It provides analysis of the role of the paralegal and the tasks involved in being a paralegal including interviewing clients and witnesses, legal research, writing, legal writing, and attending trials. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

Practice (4). This course is designed to provide students with a comprehensive overview of civil litigation from investigation through discovery,

trial, and appeal. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ 324. Correctional Law (4). This course examines transitions in prisoner civil rights since the U.S. Supreme Court ruled that inmates hold all rights as other citizens with the exception of those necessarily taken by fact of incarceration. Constitutional issues will be analyzed, including standards for shelter and medical care, discipline, religion, and access to the courts. LAJ 300 is recommened.

# LAJ 326. Correctional Counseling

(4). This course provides an analysis of the role of correctional counselor in rehabilitative efforts with offenders. Course focuses include criminal offender treatment methods and correctional or rehabilitative policy. LAJ 300 is recommened. Prerequisite: admission to the major or minor.

# LAJ 327. Community Corrections (4). Maintaining, supervising, and counseling offenders in the community-based setting. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ 331. Investigation (4). Function and propriety of investigations; methods of gathering evidence. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ 332. Police Community
Relations (4). This course
examines the relationship
between the police and
community and how to make this
relationship a positive one.
Analysis will be made of the
history of police and friction with
various groups in society.
Attempts at positive police
communication and community
participation will also be
examined. LAJ 300 is
recommended. Prerequisite:
admission to the major or minor.

# LAJ 333. Police Personnel Administration (4). History and philosophy of federal, state, and local police personnel programs; overview of personnel functions. LAJ 300 is recommended.

Prerequisite: admission to the major or minor.

LAJ 334. Issues in Policing (4). This course provides a comprehensive examination of the current critical issues and policy dilemmas within the American criminal justice system. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

# LAJ 342. Juvenile Justice Process (4). Includes historical, ideological development of juvenile justice process; analyses policies, mechanisms; examines integrated network of agencies; examines juvenile law, rights, treatment; examines current research. LAJ 300 is recommended. Prerequisite: admission to the major or minor.

LAJ 350. Criminal Justice and the Media (4). An exploration of media messages concerning crime and criminal justice, how these portrayals compare with the operation of the criminal justice system, and how media images influence both individual attitudes and public policy. LAJ 300 is recommended. By permission.

LAJ 351. Preparing for a Law
Enforcement Career (2). This
course provides crucial
information to help students
understand, prepare, compete,
and promote themselves during
the competitive testing and hiring
process for law enforcement
positions. LAJ 300 is
recommended. Prerequisite:
admission to the major or minor.
By permission.

LAJ 353. Great American Trials (4). Famous American trials in history will be explored including the role of attorneys, trial advocacy, and whether justice has been achieved. LAJ 300 is recommended. By permission.

LAJ 398. Special Topics (1-6).
LAJ 400. Research Methods in
Criminal Justice (4). This course examines current research in criminal justice and research methods and statistics. Students will critique current methods.
LAJ 300 is recommended.
Prerequisites: either a DTA or ENG 101 and ENG 102, either

MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172 and either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor.

LAJ 401. Ethics, Diversity, and Conflict in Criminal Justice (4). Introduce students to a multicultural approach to practical legal ethics within the criminal justice system. The course covers law enforcement, corrections, and Alternative Dispute Resolution. LAJ 300 is a recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATh 172, and either MATH 102 or MATH 130, PHIL 201 or CS 105. Department consent.

the Constitution (4). The law is the way a society governs itself and protects the freedom of all citizens. African Americans and the Constitution will examine legal issues engendered with dispute and division. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102 and either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, and PHIL 201 or CS 105.

LAJ 403. Sexual Minorities, the Law, and Justice (4). This course examines sexuality, homosexuality, bisexuality, and transgender/ transexual issues related to the legal system. It provides a political and sociological overview of history, morality, law, and law enforcement practices related to sexual orientation. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and MATH 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130. and either PHIL 201 or CS 105.

LAJ 410. Legal Writing (4). The prelaw or paralegal student will learn fundamental legal writing tools in conjunction with basic rules on correspondence, retainer agreements, and other commonly used documents. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170 or MATH 172, either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor. By permission.

LAJ 420. Community and Social Justice (4). This course will examine the concepts of community justice and restorative justice in the larger context of social justice. Students will explore how community and restorative justice work with the traditional justice system. LAJ 300 is recommended. Prerequisites: either a DTA 101 or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, and either PHIL 201 or CS 105. Student must me admitted to the major or minor.

LAJ 426. Advanced Correctional
Counseling (4). This course will
provide students with specialized
training in theory and techniques
required in the rapidly evolving
practice of correctional
counseling. LAJ 300 is
recommended. Prerequisites:
either a DTA, or ENG 101 and
ENG 102, either MATH 101,
MATH 153, MATH 154, MATH
164, MATH 170, or MATH 172,
either MATH 102 or MATH 130,
either PHIL 201 or CS 105, and
admission to the major or minor.

# LAJ 440. Basic Mediation (4).

Course provides an introduction to the philosophy, practice, and skills required for basic mediation, which are explored through readings, lectures, demonstrations, and skillbuilding role plays. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130. either PHIL 201 or CS 105, and admission to the major or minor. Department consent.

**LAJ 450. Report Writing** (4). Law enforcement and corrections students will learn basic writing

in the context of specialized reports utilized in their fields. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor. Department consent.

LAJ 451. Crime in America (4).

American crime problems in historical perspectives. Social and policy factors affecting crime.

Crime impact and trends, offender, and victim profiles. LAJ 300 is recommended.

Prerequisites: either a DTA or ENG 101 and ENG 102, either

MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor.

LAJ 453. Domestic Violence Issues

(4). This course provides an overview of domestic violence in our society and examines critical issues, including perspectives from the legislature, courts, police, prosecutors, and victims. Significant emphasis on these perspectives in Washington State. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, and PHIL 201 or CS 105. May be repeated for credit.

LAJ 455. Comparative Criminal Justice Systems (4). In this course, students will revisit the U.S. system of criminal justice and learn an appreciation for the criminal justice systems of other countries. By the end of the course students will be able to compare and contrast the different systems and their application, benefits, and weaknesses. LAJ 300 is recommended. Prerequisites: either ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, and PHIL 201 or CS 105.

# LAJ 459. Current Issues (4).

Current legal, correctional, and enforcement issues will be explored. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor. By permission.

LAJ460. Terrorism (4). Survey of domestic terrorism and United States interests in international terrorism, including concepts and theories of terrorism, history of terrorism, terrorist organizations, specific terrorist incidents. investigative techniques, and developing legal issues. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, either PHIL 201 or CS 105, and admission to the major or minor. May be repeated for credit.

LAJ 470. Victimology (4). In this course, students will focus on victims' rights, legal issues pertaining to victims, psychological trauma of crime victims and how to appropriately respond in the field to crime victims. LAJ 300 is recommended. Prerequisites: either a DTA or ENG 101 and ENG 102, either MATH 101, MATH 153, MATH 154, MATH 164, MATH 170, or MATH 172, either MATH 102 or MATH 130, and PHIL 201 or CS 105.

LAJ 490. Cooperative Education (1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. LAJ 300 is recommended. May be repeated for credit. Grade will either be S or U. By permission.

**LAJ 491. Workshop** (1-6).

# LAJ 492. Teaching Experience in Law and Justice (1-4).

Completion of course in which teaching or assisting is to be done and approval of the instructor and department chair. May be repeated up to 8 credits. Grade will either be S or U. By permission.

LAJ 495. Directed Research (1-5). Individual research project. LAJ 300 is recommended. May be repeated up to 10 credits. By permission.

LAJ 496. Individual Study (1-6).

LAJ 498. Special Topics (1-6).

LAJ 499. Seminar (1-5).

# **Library Science Program**

Library Ellensburg James E. Brooks Library, room 206 509-963-1021 Fax 509-963-3684 www.lib.cwu.edu

See website for how these programs may be used for educational and career purposes.

# Faculty and Administration, Dean and Chair

Patricia J. Cutright, M. Librarianship, dean of library services Stephen J. Hussman, MLS, MA, public history, department chair, university archivist/library

# **Professors**

Daniel G. CannCasciato, MLS, head of cataloging department John K. Creech, MLS, reference services Ping Fu, MLIS, MS, computer science, MA East Asian studies, head of library technology services Gerard P. Hogan, MLibr, coordinator of reference services Janice (Jan) L. Jorgensen, MLS, head of government publications department Mary J. Wise, MLS; MEd, cataloging department

# **Associate Professors**

Patrick A. Owens, MLS; MA anthropology, head of collection development Marcus E. Kieltyka, MLIS; MA international political/ economics relations, instruction/ outreach

# Lecturers

Christopher D. Gwyn, MLIS, reference services Mari D. Knirck, MLIS; MA history, lead of serials and electronic resources department Christopher R. Mayer, MLS; MA English, reference services and government publications department

# **Program Information**

At all times, students at Central have access to the library's 1.3 million books, films, government documents, and maps in print, microfiche, microfilm, and online electronic formats. The main library and two branch libraries at the University Centers at Des Moines and Lynnwood maintain subscriptions to over 20,000 newspapers, magazines, and journals in print and online full-text electronic formats, as well as audio recordings in CD, LP, and cassette formats and videos in DVD and VHS formats. The libraries participate in the resource-sharing service that provides our students with access to more than 25 million information items. The libraries' online Cattrax catalog, as well as most full-text access, are available to students from any networked computer, whether on or off campus.

# **Library Science Courses**

# LIB 110. Research Fundamentals

(1). Designed for students new to research at the college level. Course explores knowledge of information sources, more effective searching technique familiarity of services for researchers.

# LIB 345. Library Research Methods and Information Literacy (4).

Development of information literacy skills and theory through a discussion of internal and external information sources; knowledge of the organization of print and non-print resources; and creation of bibliographies, reports, and other academic materials. Open to all students.

LIB 498. Special Topic (1-4).

Course content identified in schedule of classes. May be repeated for credit under different titles. May be repeated up to 6 credits.

# **Management Department**

College of Business Ellensburg (E) Shaw-Smyser Hall, room 329 CWU-Des Moines (D) CWU-Lynnwood (L)

509-963-3339 Fax: 509-963-2875 www.cwu.edu/ business

See the website for how this program could be used for educational and career purposes.

# Faculty and Staff Interim Chair

Marvin L. Bouillon, PhD (E)

## **Professors**

James P. Beaghan, DBA, marketing (D) Laura M. Milner, PhD, marketing (E) James L. Nimnicht, PhD, human resource management (E) Mark Pritchard, PhD, marketing (E)

# **Associate Professors**

James Avey, PhD, human resource management (E) Peter J. Boyle, PhD, marketing (L) F. Lynn Richmond, PhD, management (L)

## **Assistant Professors**

Wendy Cook, PhD, management
S. Duane Hansen, PhD, management
Nancy Graber Pigeon, JD, business law (E)
William Provaznik, PhD, management
Jeffrey L. Stinson, PhD, marketing (E)
Todd Weber, PhD, human resource management (E)
Terry Wilson, PhD, marketing (E)
Keke Wu, PhD, management (E)

# **Bachelor of Science in Business Administration Program**

The Department of Management and the Department of Finance and Supply Chain Management jointly support the bachelor of science in business administration, the general-business specialization and business minor. The department offers coursework leading to the bachelor of science in business administration (BSBA) degree. In addition to the university general education requirements, the BSBA major is comprised of three principal components: 1) pre-admission courses that provide foundation knowledge and skills needed for further study in business; 2) business core courses that build on the pre-admission group and focus on decision making in the main functional areas of business; and 3) specialization courses that allow for advanced study in one of the functional areas.

Students matriculating in Ellensburg select a 25-credit specialization within the BSBA program in one of six areas: finance, general business, human resource management, management and organization, marketing management, or supply chain management. Students matriculating at a university center are limited to the 25-credit general-business specialization.

# Program Goals for BSBA

The departments have identified overall educational outcomes related to knowledge, values, and skills for all BSBA graduates. Following are the outcomes for the bachelor of science in business administration (BSBA) programs:

- 1. Knowledge-based educational Outcomes. Upon completion of the BSBA program, students should:
  - Have a working knowledge of business administration that will aid them in private, government, or non-profit careers and/ or prepare them for additional study
- 2. Values-based educational outcomes. Upon completion of the BSBA program, students should:
  - Comprehend ethical issues and be able to apply an ethical decision-making framework to business decisions

- 3. Skills-based educational outcomes. Upon completion of the BSBA program., students should:
  - Function effectively when in teams both as a leader and as a member
  - Demonstrate effective oral communication skills
  - Demonstrate effective written communication skills
  - Apply quantitative and qualitative critical thinking skills to develop, access, and use information to analyze business problems and propose feasible solutions

# Transfer Credits and Prior Learning Assessment

Equivalent lower-division (100-200 level) courses may be transferred toward meeting the pre-admission requirements. Upper-division (300- to 400-level) courses may also be transferred toward meeting the business core and specialization requirements, but only with the approval of the department chair and the college dean (or designee).

# Repeat Policy

Business administration courses may be repeated only once.

# Service to Other Majors

Students majoring outside of the College of Business who are required to take courses in this college for either their major or minor will be eligible to enroll on a space-available basis. These students will be given priority over other non-college majors wishing to enroll in upper-division courses.

# **Additional Admission Information**

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of C - (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index.

# **Additional BSBA Graduation Requirements**

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 99- to 100-credit in-the-major coursework to be eligible for a degree. In addition, the department requires a minimum GPA of 2.25 in the 59- to 60-credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree, including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

# BSBA with a Specialization in Human Resource Management

# Advisors:

James Avey, PhD Wendy Cook, PhD Nancy Graber Pigeon, JD Jim Nimnicht, PhD Lynn Richmond, PhD Todd Weber, PhD

Students pursuing the HRM specialization will deal with fundamental organizational processes that must be developed and managed for continuous improvement by both HR specialists and by all managers in general. Thus, the study of HR takes on a dual emphasis. First, by pursuing an HR specialization, students will be thoroughly trained to focus decision-making as it pertains to the acquisition, utilization, development and retention of employees. Alternatively, the study of HRM is also applicable as a strong supplement to other specializations or majors.

Business Administration Core

BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in

the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 252 Managerial Accounting Credits: (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

#### Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts **Credits:** (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Specialization Requirements Credits: 25

#### Select one of the following three specializations: (For Finance)

- Finance
- General Business

• Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

#### Human Resource Management Specialization

#### Required Courses

- HRM 381 Management of Human Resources Credits: (5)
- HRM 486 Problems in Human Resource Management Credits: (5)

Select from the following - Credits: 15

- BUS 490 Cooperative Education **Credits:** (1-12) Credits: (1-6)
- ECON 355 Economics of Labor **Credits:** (5)
- HRM 442 Training and Development Credits: (5)
- HRM 445 Organizational Staffing Credits: (5)
- HRM 479 Industrial Relations/ Collective Bargaining Credits: (5)
- HRM 488 Compensation Policy and Administration Credits: (5)
- MGT 386 Principles of Organizational Behavior Credits: (5)

Human Resource Management Total Credits: 99-100

#### BSBA with a Specialization in Management and Organization

#### Advisors:

James Avey, PhD
Wendy Cook, PhD
S. Duane Hansen, PhD
Larry Hughes, PhD
James Nimnicht, PhD
Don Nixon, PhD
William Provaznik, PhD
Lynn Richmond, PhD
Keke Wu, PhD

The management and organization specialization reflects the diverse activities required to productively utilize the organization's resources. The overall focus of this specialization will be on how to effectively coordinate people, technology and structure in order to reach organizational objectives. Studies include both the theory and practice of management as preparation for leadership in public and private organizations.

#### Business Administration Core

#### BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting Credits: (5)
- BUS 221 Introductory Business Statistics **Credits:** (5)
- BUS 241 Legal Environment of Business Credits: (5)

- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

#### Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts **Credits:** (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Specialization Requirements Credits: 25

Select one of the following three specializations: (For Finance)

- Finance
- General Business
- Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management

- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

#### Required Courses

- MGT 386 Principles of Organizational Behavior Credits: (5)
- MGT 484 International Management Credits: (5)

#### Select from the following - Credits: 15

- BUS 490 Cooperative Education Credits: (1-12)
- ECON 352 Managerial Economics Credits: (5)
- HRM 381 Management of Human Resources Credits: (5)
- MGT 383 Contemporary Management Practices Credits: (5)
- MGT 384 Introduction to International Business Credits: (5)
- MGT 385 Organizational Theory Credits: (5)
- MGT 389 Business and Society Credits: (5)
- MGT 394 Legal Considerations in Sport Business Credits: (5)
- MGT 395 Leadership in Sport Organizations Credits: (5)
- MGT 482 Applied Management and Organizational Behavior Credits: (5)
- MGT 483 Organizational Change **Credits:** (5)
- MGT 487 Entrepreneurism and Small Business Management Credits: (5)
- SCM 435 Advanced Topics in Operations and Supply Chain Management Credits: (5)

Management and Organization Total Credits: 99-100

#### BSBA with a Specialization in Marketing Management

#### Advisors:

Jim Beaghan, DBA Peter Boyle, PhD Mark Pritchard, PhD Jeffrey Stinson, PhD

The marketing curriculum provides background for careers in sales, advertising, marketing management, research, analysis, and retail management. Marketing topics include researching and analyzing consumers, market demand, pricing, product distribution, and development, and communication in order to develop marketing strategies and policies. Students must earn a C or better in all required courses.

#### Business Administration Core

#### BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting Credits: (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro **Credits:** (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

- Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.
- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

#### Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management **Credits:** (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)

#### Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

#### Specialization Requirements Credits: 25

Select one of the following three specializations:

(For Finance)

- Finance
- General Business
- Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

#### Total Credits: 99-100

#### Required Courses

- MKT 468 Consumer Behavior Credits: (5)
- MKT 469 Market Research Credits: (5)
- MKT 470 Marketing Problems and Policy Credits: (5)

Select a minimum of 10 credits from the following - Credits: 10

- BUS 490 Cooperative Education Credits: (1-12)
   Credits: (1-6)
- ECON 310 International Economics Credits: (5)
- MKT 364 Marketing Promotion Management Credits: (5)
- MKT 365 International Marketing **Credits:** (5)
- MKT 370 Sports Marketing and Sponsorship Credits: (5)
- MKT 371 Sponsorship and Promotion in Sport Business Credits: (5)
- MKT 372 Revenue Generation and Finance in Sport Business Credits: (5)

Marketing Management Total Credits: 99-100

#### BSBA with a Specialization in General Business

Advisors: All full-time faculty in the department.

This specialization is intended for the student who wishes to tailor a "unique" set of specialization courses to his or her needs or for the student who desires a broad-based "generalist" track within the business administration major. Twenty-five upper division elective credits are required including at least 20 credits must be business (BUS), finance (FIN), human resource management (HRM), management (MGT), marketing (MKT), management information systems (MIS), or supply chain management (SCM) courses. The remaining five credits may be accounting (ACCT) or economics (ECON). The student is limited to 10 credits from any one area and the specialization must include at least 10 credits of 400-level courses.

**Business Administration Core** 

#### BSBA Program Admission Requirements Total Credits: 40

Students must apply and be accepted into the major prior to beginning 300- or 400-level business coursework. At the time of application, the 40 credits of pre-admission coursework should be substantially completed. Application forms are available in the department offices. The completed form must be accompanied by transcripts that reflect all prior college work. Admission shall be based on grades earned in the following courses:

- ACCT 251 Financial Accounting **Credits:** (5)
- ACCT 252 Managerial Accounting **Credits:** (5)
- BUS 221 Introductory Business Statistics Credits: (5)
- BUS 241 Legal Environment of Business Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- MATH 130 Finite Mathematics Credits: (5)
- MATH 153 Pre-calculus Mathematics I Credits: (5) OR
- MATH 154 Pre-calculus Mathematics II Credits: (5) OR
- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5) OR
- MATH 173 Calculus II Credits: (5)

#### Additional Admission Information

A cumulative grade point average of 2.5 in the above courses must be achieved with a minimum grade of "C-" (1.70) in each course. The credit/ no credit option will not be accepted for any of these courses. The applicant must have completed ENG 101/102. These criteria apply to equivalent courses transferred from other institutions.

Students who have met all of the above requirements will be admitted unless the number of applicants exceeds available space. In that case, acceptance will be competitive, based on a selection index. Students in a pre-major status who have not met all of the above requirements may enroll in a business core or specialization course only with permission of the college dean or designee.

#### Additional BSBA Graduation Requirements

The following special rules apply to students seeking the BSBA major:

• Students must earn a minimum cumulative GPA of 2.25 in the 94-95 credit in-the-major coursework to be eligible for a degree. In addition, the Department requires a minimum GPA of 2.25 in the 59-60 credit upper-division component of the in-the-major total.

- Transfer students must complete at least 40 College of Business credits at CWU to be eligible for the BSBA degree including MGT 489. Additionally, students seeking a Human Resource Management specialization must complete HRM 486 at CWU and students seeking a Marketing specialization must complete MKT 470 at CWU.
- The BSBA program requires a single specialization of at least 25 credits. Occasionally a student requests a second specialization. To be eligible for a second specialization, a minimum of 20 unique credits must be completed. Unique in this sense means the credits have not been used as part of any other BSBA specialization.

Business Core Requirements Total Credits: 30

- FIN 370 Introductory Financial Management Credits: (5)
- MGT 382 Principles of Management Credits: (5)
- MGT 489 Strategic Management Credits: (5)
- MIS 386 Management Information Systems Credits: (5)
- MKT 362 Essential Marketing Concepts Credits: (5)
- SCM 310 Supply Chain Management Credits: (5)

Communication Requirement Credits: 4-5

- ADMG 385 Business Communications and Report Writing Credits: (5)
- COM 345 Business and Professional Speaking Credits: (4)
- ENG 310 Technical Writing Credits: (4)

Specialization Requirements Credits: 25

Select one of the following three specializations:

(For Finance)

- Finance
- General Business
- Supply Chain Management

Select one of the following six specializations:

(For Management)

- Finance
- General Business
- Human Resource Management
- Management and Organization
- Marketing Management
- Supply Chain Management

Total Credits: 99-100

General Business Specialization Credits: 25

Business Administration with a Specialization in General Business Total Credits: 99-100

#### **Sport Business Certificate**

#### Advisors

Mark Pritchard, PhD Jeffrey Stinson, PhD

The sport business certificate is designed to augment the student's College of Business degree with a focused examination of the sport business industry. Students will explore the application of marketing, management, law, finance, and other business principles as they apply specifically to the sport industry. The sport certificate will provide curriculum to prepare students for a career in corporate, professional, intercollegiate or amateur sport organizations.

#### Certificate prerequisites:

Is admission to a College of Business major (except BS Economics - General Specialization)

Total Pre-admission Requirements: 40

#### Required Courses

- BUS 499 Seminar **Credits:** (1-5)
- MGT 382 Principles of Management Credits: (5)
- MGT 394 Legal Considerations in Sport Business Credits: (5)
- MGT 395 Leadership in Sport Organizations Credits: (5)

- MKT 362 Essential Marketing Concepts Credits: (5)
- MKT 370 Sports Marketing and Sponsorship Credits: (5)
- MKT 371 Sponsorship and Promotion in Sport Business Credits: (5)
- MKT 372 Revenue Generation and Finance in Sport Business Credits: (5)

Total Certificate Credits: 36

Sport Business Certificate Total Credits: 76

#### **Business Minor (MGT)**

The business minor provides students with an introduction to several key areas of business administration. Business minors are only available to students with declared majors. Declaration forms with instructions are available online and, in department and center offices. Students must earn a cumulative grade point average of 2.25 in courses allowed in fulfilling the business administration minor requirements.

#### **Business Minor Core**

#### Required Courses

- ACCT 252 Managerial Accounting Credits: (5) OR
- ACCT 301 Financial Accounting Analysis **Credits:** (5)
- BUS 241 Legal Environment of Business **Credits:** (5)
- BUS 374 Personal Investments Credits: (5) OR
- ECON 201 Principles of Economics Micro Credits: (5)
- HRM 381 Management of Human Resources Credits: (5)
- MKT 360 Principles of Marketing Credits: (5)
- MGT 380 Organizational Management Credits: (5)

Total Credits: 30

#### **Business Courses**

**BUS 198. Special Topics** (1-6). May be repeated for credit.

#### BUS 221. Introductory Business Statistics (5). Introduction to inferential business statistics. Using probability distributions and information from samples for business decisions.

Prerequisite: MATH 130.

#### BUS 241. Legal Environment of

**Business** (5). An introduction to legal reasoning, ethics in business, the law of contracts, torts, agency, sales, bailments, and personal property. Prerequisite: sophomore standing or above.

#### BUS 298. Special Topics (1-6). BUS 341. Advanced Business Law

(5). The law of negotiable instruments, suretyship, business structures including partnerships and corporations, trusts and estates, bankruptcy and government regulations of business. Prerequisite: BUS 241.

### **BUS 374. Personal Investments** (5). Introduction to investment goals, strategies, and securities, including certificates of deposit,

money market instruments, stocks, bonds, and mutual funds. Additional topics introduced are risk analysis, taxes, and portfolio basics. Does not count for credit in the finance specialization.

#### BUS 396. Individual Study (1-6). BUS 398. Special Topics (1-6).

#### BUS 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

#### BUS 495. Directed Research (1-5).

Prerequisite: permission of instructor. May be repeated for up to 15 credits. Grade will either be S or U.

BUS 496. Individual Study (1-6). BUS 498. Special Topics (1-6). BUS 499. Seminar (1-5).

#### Human Resource Management Courses

#### HRM 381. Management of Human

Resources (5). Selection of personnel, methods of training and retraining workers, wage policy, utilization of human resources, job training, administration of labor contracts, and public relations.

#### HRM 442. Training and

Development (5). Application of training and development concepts and techniques used in assessing training requirements, planning and budgeting training programs, developing and facilitating training, and evaluating results. Prerequisites: HRM 381 and admission to the business administration or accounting major.

#### HRM 445. Organizational Staffing

(5). Applied and conceptual analysis of employee recruitment, selection, placement, retention, and career development.

Prerequisite: HRM 381 and admitted to either the business administration or accounting major.

#### HRM 479. Industrial

#### Relations/Collective Bargaining

(5). Statutory and case law governing labor relations. Contracts and negotiations. Impasse procedures. Arbitration cases and grievance procedures. Contemporary issues and cases. Prerequisites: HRM 381, and either admission to the business administration or accounting major, or permission of the instructor.

#### HRM 486. Problems in Human Resource Management (5).

Analysis and research on selected topics involving contemporary issues in personnel management. This is the capstone course for the HRM specialization. Prerequisites: HRM 381, two other HRM courses, and either admission to the business administration or accounting major, or permission of the instructor.

#### HRM 488. Compensation Policy and Administration (5).

Employee compensation policy and administration is studied on a broad perspective encompassing direct financial payments, employer benefits, and non-financial rewards.

Prerequisites: MGT 382 and admission to the business administration or accounting major.

#### Management Courses MGT 380. Organizational

Management (5). Principles of management class for nonbusiness majors. Introduces students to the history and development of management ideas and contemporary practice. Overview of all the major elements of the managerial function. MGT 380 and MGT 382 are equivalent courses; students may not receive credit for both. Prerequisites: this course is only available to non-business majors. College of business majors or premajors should be enrolling in MGT 382 instead of MGT 380. and MKT 362 instead of MKT

### MGT 382. Principles of Management (5). History of management thought and

practice, challenges of contemporary management, organizational theory, human behavioral aspects of management, introduce strategic management process. Open to Business majors only. MGT 382 and MGT 380 are layered courses; students may not receive credit for both. Prerequisite: admittance to a business major, accounting or economics with a economic and business forecasting specialization.

#### MGT 383. Contemporary Management Practices (5).

Exposure to and experience with contemporary management techniques and practices. Conceptual foundations are examined through case work, applied field activities, and team projects. Prerequisites: MGT 382 and admission to either the business administration or accounting major.

#### MGT 384. Introduction to International Business (5).

Principles underlying international business; national policies influencing world trade and finance; and regional and international institutions.

Prerequisites: either MGT 380 or MGT 382.

#### MGT 385. Organizational Theory

(5). An examination of the sociotechnical system in a task-oriented organization focusing on the total organization as the unit of analysis; technology, structure, work design, and environment as determinants of effectiveness. Prerequisites: MGT 382 and admission to either the business administration or accounting major.

#### MGT 386. Principles of Organizational Behavior (5).

Applied and conceptual analysis of behavior within organizations. Involves leadership, motivation, communications, group processes, decision-making, climate, and culture.

Prerequisites: MGT 380 or MGT 382.

#### MGT 389. Business and Society

(5). Ethics and social responsibility in an increasingly complex economic, political, social, and technological

environments. Prerequisites: MGT 380 or MGT 382.

#### MGT 394. Legal Considerations in Sport Business (5). An

exploration of the relationship between sports and the law. Issues to be explored include liability, legal rights of employees and athletes, as well as managing the legal risk in the sports profession. Prerequisite: admission to either the business, accounting, or economics major.

#### MGT 395. Leadership in Sport

Organizations (5). Examination of historical and current practices in leading sport organizations, including coaching, owning, managing, and playing.

Prerequisites: MGT 382 and admission to either the business, accounting, or economics major.

#### MGT 482. Applied Management and Organizational Behavior (5).

Application of training and development practices to the personal and professional growth of the human resource. Individual and small group exercises give students the opportunity to apply and experience a variety of management concepts and practices. Prerequisites: MGT 382 and admission to either the business administration, or accounting major.

#### MGT 483. Organizational Change

(5). Managing problem solving and change in organizations. An integration and application of theories adapted to organizational behavior. Prerequisites: MGT 382 and admission to either the business administration or accounting major.

#### MGT 484. International

Management (5). A comparative study of management in selected countries as well as an analysis of key managerial problems encountered in the multinational corporation. Prerequisites: MGT 382 and admission to either the business administration, or accounting major.

#### MGT 487. Entrepreneurism and Small Business Management (5).

Investigation of entrepreneurism and small business management issues. Students learn to perform

feasibility studies and develop business plans. Small business challenges in marketing, finance, etc., will also be addressed. Prerequisites: MGT 382 and admission to either the business administration, or accounting major.

#### MGT 489. Strategic Management

(5). Basic policy decisions involved in managing the total enterprise. Prerequisites: FIN 370, MGT 382, MKT 362, SCM 310, either MIS 386 or ACCT 455, and admission to either the accounting or business administration major. It is strongly recommended that students not enroll until the quarter of graduation.

#### Marketing Courses MKT 360. Principles of Marketing

(5). Principles of marketing class for non-business majors. Explores the function and processes of marketing, introducing students to the fundamental marketing concepts. MKT360 and MKT362 are equivalent courses; students may not receive credit for both. Prerequisites: this course is only available to non-business majors. College of business majors or premajors should be enrolling in MGT 382 instead of MGT 380 and MKT 362 instead of MKT 360.

#### MKT 362. Essential Marketing

Concepts (5). Introduction to the principles of marketing, creating, communicating, and delivering superior customer value, choosing target markets, managing customer relations.

MKT360 and MKT362 are equivalent courses; students may not receive credit for both.

Prerequisites: admittance to a business, accounting, or economics major, and a specialization in economic and business forecasting.

MKT 364. Marketing Promotion Management (5).

Communication problems of marketing goods and services to consumers and industrial buyers; advertising management, personal selling, and sales promotion; analysis for the promotion mix; and public interest in marketing communication. Prerequisites: MKT 362 with a grade of C or higher, and admission to business administration, accounting, or economics major.

#### MKT 365. International Marketing

(5). Marketing functions involved in doing business internationally, environmental conditions affecting international trade, and problems of securing employment internationally. Prerequisites: MKT 362 with a grade of C or higher, and admission to business administration, accounting, or economics major.

MKT 370. Sports Marketing and **Sponsorship** (5). This course takes a strong industry focus to the study of sports marketing. Work examines the range of promotional strategies and tactics used by different leagues/ sport businesses to attract and retain sports fans. Additional topics include the nature of effective sports sponsorship campaigns. Prerequisites: MKT 362 with a grade of C or higher, and admission to business administration, accounting, or economics major.

#### MKT 371. Sponsorship and Promotion in Sport Business (5).

Examination of sport sponsorship, sales, implementation, and evaluation; communication between sport sellers and consumers through advertising, sales promotion, public relations, and other forms of communication. Prerequisites: MKT 362 and admission to either

the business, accounting, or economics major.

#### MKT 372. Revenue Generation and Finance in Sport Business

(5). Examination of historical and current practice in revenue generation and financing of sport organizations, including public and private sources of revenue. Prerequisites: MKT 362 and admission to either the business, accounting, or economics major.

#### MKT 398. Special Topics (1-6). MKT 468. Consumer Behavior (5).

An introduction to analysis of the consumer as a basis for marketing decisions. The analysis concerns who buys what, how the consumer uses the product, the significance of the product to the consumer, and the buying process. Prerequisites: MKT 362 with a grade of C or higher, and admission to either business administration, accounting, or economics major.

#### MKT 469. Market Research (5).

Application of research to economic and business problems; tools of research design; planning investigations; gathering, organizing, and interpreting data; and presentation of findings. (Not open to students with credit in ECON 426.) Prerequisites: MKT 362 with a grade of C or higher, and admission to business administration, accounting, or economics major.

# MKT 470. Marketing Problems and Policy (5). The capstone course for the marketing specialty. Uses case analysis and other techniques to develop marketing decision skills and policy determination abilities. Prerequisites: senior standing, MKT 362, MKT 468, and MKT 469, all with a grade of C or higher, and one marketing elective course, and admission to business administration or accounting major. By permission.

#### **Mathematics Department**

College of the Sciences Ellensburg Bouillon Hall, room 108 509-963-2103

Fax: 509-963-3226

www.cwu.edu/math

See website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Timothy Englund, PhD

#### **Professors**

Stuart F. Boersma, PhD, differential geometry, general relativity Timothy Englund, PhD, group theory, representation theory, statistics Stephen P. Glasby, PhD, computational algebra, representation theory James D. Harper, PhD, harmonic analysis Scott M. Lewis, PhD, mathematics education, history of mathematics Cen-Tsong Lin, PhD, probability and mathematical statistics, actuarial science Michael Lundin, PhD, mathematics education Aaron Montgomery, PhD, topology, algebra

#### **Associate Professors**

Christine Black, PhD, mathematics education Yvonne Chueh, PhD, actuarial science, statistics W. Dan Curtis, PhD, applied mathematics Jonathan Fassett, PhD, topology, dynamical systems Kathryn Temple, PhD, actuarial science Teri Willard, EdD, mathematics education

Mark Oursland, EdD, mathematics education

#### **Assistant Professors**

James Bisgard, PhD, analysis Richard Hilliard, MS, mathematics Dominic Klyve, PhD, computational number theory, history of mathematics Jane Whitmire, PhD, mathematics education

#### Senior Lecturer

Douglas Olson, MS, mathematics Richard Trudgeon, MA, administration and curriculum Dale Width, MA, history

#### Lecturers

Fred McDonald, MT, finance, accounting Janet Shiver, PhD, mathematics education Stephen Stein, PhD, educational administration Bruce Woodcock, MA, education

#### Staff

Debbie Thomas, secretary

#### **Department Information**

Mathematics is an expanding and evolving body of knowledge as well as a way of perceiving, formulating, and solving problems in many disciplines. The subject is a constant interplay between the worlds of thought and application. The student of mathematics will find worthy challenges and the subsequent rewards in meeting them.

The general student will find preparatory courses in pre-calculus mathematics and traditional mathematics courses such as calculus, linear algebra, geometry, abstract algebra, and analysis. Also, more specialized courses in discrete mathematics, number theory, and the history of mathematics are offered. Special needs of computer science majors, elementary education majors, and general education requirements are also met by courses in the mathematics department.

For those desiring concentrated work in mathematics, the mathematics department offers four programs leading to bachelor's degrees. A bachelor of arts or bachelor of science in mathematics prepares the student as a mathematician for industry or graduate work. A bachelor of arts in secondary teaching prepares the student to teach at the junior, middle, or high school

levels. A bachelor of science in mathematics with an actuarial science specialization prepares the student to work as an actuary or in applied statistics. Mathematics minor and a secondary teaching minor are also available.

One graduate degree is offered: the master of arts for teachers. This is described in the graduate section of the catalog.

All programs (major, minor, including electives) must be on file and approved by the department at least one academic year preceding graduation.

#### **Admission and Placement Notes**

- 1. Enrollment in MATH 100C, MATH 101, MATH 102, MATH 130, and MATH 164 requires a satisfactory score on one of the following tests: SAT, ACT, COMPASS Test, or the Intermediate Assessment Test. The scores on the SAT or ACT tests must have been achieved within the last three years before math placement. The student with insufficient test scores is encouraged to enroll in developmental classes. For more information drop by the Math Center in Hertz Hall, room 101 or call 509-963-1834.
- 2. Students who wish to enroll in pre-calculus (MATH 153 or MATH 154) or calculus (MATH 170 or MATH 172) and who have not had the necessary prerequisite course at a college or university must take the mathematics placement test. Students will be placed in accordance with their results on this test as determined by the mathematics department. Students may be placed into pre-calculus I (MATH 153) if they received a B or better in a one-year high school calculus course. See the mathematics department for more details.
- 3. Admission to any mathematics course having prerequisites requires either a suitable math placement test score or a grade of 2.0 or better in each listed prerequisite to that course.

#### Admission Requirements for Mathematics Teaching Secondary Program

Admission to the mathematics teaching secondary major or certificate program is selective. A cumulative grade point average of 2.50 is required in the pre-admission courses listed below. Further, students must successfully complete MATH 272 and MATH 265 by spring quarter of the academic year of their acceptance into the program. A completed application must include the standard major application form and a mathematics-advisor-approved graduation plan.

Students planning to major or take the certificate in secondary mathematics teaching must first take MATH 172, MATH 173, MATH 265, and MATH 272; be accepted as a mathematics education major or accepted into the certificate program; and be preliminary accepted into the Professional Education Program to enroll in MATH 299E, Orientation Seminar: Secondary Mathematics, fall quarter.

Students interested in the Secondary Mathematics Teaching Program need to meet with a mathematics education advisor during their first quarter at CWU.

#### **Pre-admission Requirements**

Applicants for admission into the Secondary Mathematics Teaching Program:

- 1. Must have completed English and Math basic skills courses or have completed an AA degree.
- 2. Must have completed MATH 272 and MATH 265, with a grade of C or better, before enrolling MATH 299E.
- 3. Must be preliminarily accepted into the Professional Education Program.

#### Admission Requirements for Mathematics Major and Minor

Admission to any major in the mathematics department will be considered after the first two quarters of calculus are taken (MATH 172 and MATH 173). Transfer students with the calculus background will generally take and successfully complete (2.0 or better) 10 hours of math beyond calculus to be admitted to a major. Application forms are available from the mathematics department office. Students must meet with an advisor in the mathematics department before being considered for major or minor. In addition, students must earn a minimum grade of C in any course that fulfills a major or minor requirement.

#### Mathematics: Teaching Secondary Major, BA

This major satisfies the endorsement for mathematics. Students taking this major are required to complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum.

#### Required Courses

• MATH 172 - Calculus I **Credits:** (5)

- MATH 173 Calculus II Credits: (5)
- MATH 260 Sets and Logic Credits: (5)
- MATH 265 Linear Algebra I Credits: (4)
- MATH 272 Multivariable Calculus I Credits: (5)
- MATH 299E Orientation Seminar: Secondary Mathematics Credits: (2)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MATH 320 History of Mathematics Credits: (3)
- MATH 322 Assessment of Student Learning for Mathematics Teachers Credits: (5)
- MATH 324 Methods and Materials in Mathematics-Secondary Credits: (5)
- MATH 325 Instructional Practices for Teaching Mathematics Credits: (4)
- MATH 331 Continuous Models **Credits:** (3)
- MATH 332 Discrete Models Credits: (4)
- MATH 355 College Geometry I **Credits:** (4)
- MATH 360 Algebraic Structures I Credits: (3)
- MATH 361 Algebraic Structures II Credits: (3)
- MATH 430 Introduction to Theory of Numbers **Credits:** (3)
- MATH 455 College Geometry II Credits: (3)
- MATH 499E Senior Seminar: Secondary Mathematics Credits: (4)

Total Credits: 75

#### Middle-level Mathematics and Science Teaching Major, BA

This major is designed for students who wish to teach mathematics and science at the middle level (grades 4-9). The coursework provides experiences in math and science content and pedagogy including field experience and addresses the Washington State competencies for middle level math teachers and the Washington State competencies for middle level science teachers. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum (50 total credits required). Students must successfully demonstrate competency equivalent to the completion of MATH 154 prior to acceptance into this major. Students with strong high school mathematics preparation should take the math placement exam. According to the results of the exam students may satisfy the MATH 153 and MATH 154 requirement. Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students who complete this major and receive a passing score on the WEST-E exams for middle-level mathematics and science are eligible to receive both the middle-level math and science endorsements.

#### Required Courses

Science Credits: 32-33

- BIOL 101 Fundamentals of Biology Credits: (5)
   Select either:
- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) Select either:
- PHYS 106 Physics Inquiry Credits: (5) OR
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
   Select either:
- GEOL 101 Physical Geology Credits: (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1) OR
- GEOL 103 Geology of Washington **Credits:** (4) AND GEOL 101LAB - Physical Geology Laboratory (1) Select either:
- PHYS 101 Introductory Astronomy I Credits: (5) OR
- PHYS 102 Introductory Astronomy II Credits: (4)
- SCED 301 Interdisciplinary K-8 Science Inquiry Credits: (5)
- SCED 354 Science, Society and the Teaching Community Credits: (3)

Mathematics Credits: 27

- MATH 130 Finite Mathematics Credits: (5)
- MATH 164 Foundations of Arithmetic **Credits:** (5)
- MATH 170 Intuitive Calculus **Credits:** (5)
- MATH 232 Discrete Modeling for Middle-level Teachers Credits: (4)
- MATH 250 Intuitive Geometry for Elementary Teachers Credits: (4)
- MATH 486 Mathematics, Problem Solving, and Teaching Credits: (4)

#### Integrated Math and Science Credits: 3

- MATH 323 Teaching Middle School Mathematics and Science Credits: (3) OR
- SCED 323 Teaching Middle School Mathematics and Science Credits: (3)

#### Education Credits: 7

- EDEL 477 Middle School Students and Their Environment Credits: (4)
- EDEL 478 Developmentally Responsive Curriculum in the Middle Grades Credits: (3)

#### Advisor-approved Elective Credits: 3-4

#### Approved courses:

- EDEL 323 Teaching Elementary School Mathematics Credits: (4)
- MATH 324 Methods and Materials in Mathematics-Secondary Credits: (5)
- SCED 322 Science Education in the Elementary School Credits: (4)
- SCED 324 Science Education in Secondary Schools I Credits: (3)

Total Credits: 72-74

#### **Mathematics Actuarial Science Major, BS**

An actuary uses specialized mathematical skills from probability and statistics to define, analyze, and solve financial and social problems. Actuaries create and manage insurance programs that reduce the adverse financial impact of both expected and unexpected things that happen to people, such as illnesses, accidents, and death. In addition, actuaries design pension programs, making sure there are sufficient resources to pay retirement and death benefits while also charging participants in the insurance or retirement plan a fair price.

The bachelor of science in actuarial science is listed below and is designed to prepare a student in both the mathematics and business areas necessary for success in the rigorous but rewarding actuarial profession.

#### Required Courses

- ACCT 251 Financial Accounting **Credits:** (5)
- CS 110 Programming Fundamentals I Credits: (4)
- CS 367 Advanced Visual Basic Programming Credits: (4)
- ECON 201 Principles of Economics Micro Credits: (5)
- ECON 202 Principles of Economics Macro Credits: (5)
- FIN 370 Introductory Financial Management **Credits:** (5)
- FIN 475 Investments **Credits:** (5)
- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MATH 265 Linear Algebra I Credits: (4)
- MATH 272 Multivariable Calculus I **Credits:** (5)
- MATH 273 Multivariable Calculus II **Credits:** (5)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- MATH 410A Advanced Statistical Methods I Credits: (3)
- MATH 410B Advanced Statistical Methods II Credits: (3)
- MATH 411A Probability Theory Credits: (4)
- MATH 411B Mathematical Statistics I Credits: (3)
- MATH 411C Mathematical Statistics II Credits: (3)
- MATH 414 Time Series Analysis Credits: (3)
- MATH 418A Financial Mathematics I Credits: (3)
- MATH 418B Financial Mathematics II Credits: (3)
- MATH 418C Financial Mathematics III Credits: (3)

• MATH 440 - Mathematical Theory of Financial Economics Credits: (5)

Select one of the following sequences - Credits: 9

#### Loss Models

- MATH 417A Loss Models I Credits: (3)
- MATH 417B Loss Models II Credits: (3)
- MATH 417C Loss Models III **Credits:** (3) **OR**

#### Actuarial Mathematics

- MATH 419A Actuarial Mathematics I Credits: (3)
- MATH 419B Actuarial Mathematics II Credits: (3)
- MATH 419C Actuarial Mathematics III Credits: (3)

Total Credits: 104

#### **Mathematics Major, BS**

#### Required Courses

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MATH 260 Sets and Logic Credits: (5)
- MATH 265 Linear Algebra I Credits: (4)
- MATH 272 Multivariable Calculus I Credits: (5)
- MATH 273 Multivariable Calculus II Credits: (5)
- MATH 499S Senior Seminar Credits: (2)

Select two of the following sequences - Credits: 18-19

(One of which must be abstract algebra or advanced analysis):

Introduction to Probability Theory and Mathematical Statistics - Credits: 10

- MATH 411A Probability Theory Credits: (4)
- MATH 411B Mathematical Statistics I Credits: (3)
- MATH 411C Mathematical Statistics II Credits: (3)

#### Introduction to Topology - Credits: 9

- MATH 451 Topology I Credits: (3)
- MATH 452 Topology II Credits: (3)
- MATH 453 Topology III Credits: (3)

#### Abstract Algebra - Credits: 9

- MATH 461 Abstract Algebra I **Credits:** (3)
- MATH 462 Abstract Algebra II Credits: (3)
- MATH 463 Abstract Algebra III **Credits:** (3)

#### Advanced Analysis - Credits: 9

- MATH 471 Advanced Analysis I **Credits:** (3)
- MATH 472 Advanced Analysis II Credits: (3)
- MATH 473 Advanced Analysis III Credits: (3)

#### Applied Analysis - Credits: 9

- MATH 475 Applied Analysis I **Credits:** (3)
- MATH 476 Applied Analysis II Credits: (3)
- MATH 477 Applied Analysis III Credits: (3)

Department-approved upper-division electives - Credits: 11

Total Credits: 60-61

Students in the 93-to 94-credit major are also required to take:

- MATH 311 Statistical Concepts and Methods Credits: (5)
- MATH 365 Linear Algebra II Credits: (3)
- MATH 376 Differential Equations I **Credits:** (3)
- MATH 377 Differential Equations II Credits: (3)

Select one from the following - Credits: 4

- CS 105 The Logical Basis of Computing Credits: (4)
- CS 110 Programming Fundamentals I Credits: (4)

Lab science sequence culminating in calculus-based course - Credits: 15

Total Credits: 93 to 94

#### **Mathematics Minor**

Required Courses

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)

#### Electives

• At least 12 credits of electives in mathematics at the 200 level or above, which MUST include at least one of MATH 260 or MATH 265. Credits: (12)

Total Credits: 22

#### **Middle-level Mathematics Teaching Minor**

This minor is designed for students who wish to teach math at the middle level (grades 5-9). Completion of this minor results in a middle-level math endorsement for Washington State. The coursework provides experiences in math content and pedagogy including field experience and addresses the Washington State competencies for middle-level math teachers. This program is only open to students admitted to majors that are endorsable or currently hold teaching endorsements. Students must be accepted into the Teacher Certification Program and have completed MATH 153 and MATH 154 prior to acceptance into this program. Students with a strong high school mathematics preparation should take the Math Placement Exam. According to the results of the exam, students may satisfy the MATH 153 and/ or MATH 154 requirements. Students completing this minor are required to demonstrate knowledge, skill, and dispositions proficiency through a program portfolio prior to student teaching. Students must pass the WEST-E exam for middle level mathematics to receive the middle level math endorsement.

#### Required Courses

- MATH 130 Finite Mathematics Credits: (5)
- MATH 164 Foundations of Arithmetic **Credits:** (5)
- MATH 170 Intuitive Calculus Credits: (5)
- MATH 232 Discrete Modeling for Middle-level Teachers **Credits:** (4)
- MATH 250 Intuitive Geometry for Elementary Teachers Credits: (4)
- MATH 323 Teaching Middle School Mathematics and Science Credits: (3)
- MATH 486 Mathematics, Problem Solving, and Teaching Credits: (4)
- EDEL 323 Teaching Elementary School Mathematics Credits: (4)
- EDEL 477 Middle School Students and Their Environment Credits: (4)
- EDEL 478 Developmentally Responsive Curriculum in the Middle Grades Credits: (3)

Total Credits: 41

#### **Mathematics Courses**

MATH 100A. Pre-algebra (5). This course is designed to prepare students for college mathematics. Symbolic, graphical, and numeric representations will be studied to

understand and apply the concepts underlying algebra. Prerequisite: must receive advising from the university math center. Credits will not be

allowed toward meeting bachelor's degree requirements. Grade will be XC

MATH 100B. Introductory Algebra (5). This course is designed to

prepare students for college mathematics. Symbolic, graphical, and numeric representations will be studied to understand and apply the concepts of algebra. Prerequisite: must receive advising from the university math center. Credits will not be allowed toward meeting bachelor's degree requirements. Grade will be XC

#### MATH 100C. Intermediate

Algebra (5). This course is designed to prepare students for college-level precalculus mathematics. Symbolic, graphical, and numeric representations will be studied to understand and apply the concepts needed to be successful in precalculus. Credits will not be allowed toward meeting bachelor's degree requirements. Prerequisite: must receive advising from the university math center.

MATH 101. Mathematics in the Modern World (5). Selected topics from the historical development and applications of mathematics together with their relationship to the development of our present society. Prerequisites: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class. Basic Skills 4 - Math

#### MATH 102. Mathematical

Decision Making (5). Selected topics from probability, statistics and mathematical decision making with real-world application. Prerequisites: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class. Basic Skills 5 - Logic

#### MATH 130. Finite Mathematics (5).

The language of sets, counting procedures, introductory probability, and decision making, introductory descriptive statistics. Meets General Education "reasoning" requirement and prepares

student for introductory statistics courses in various departments. Prerequisites: either at least 500 on the SAT, 19 on the ACT, a Compass test score of either 50-Pre-Algebra, 26-Algebra, 31-College Algebra, or 31-Trigonometry, or completed MATH 100B or a higher level math class. Basic Skills 5 - Logic

#### MATH 153. Pre-calculus

Mathematics I (5). A foundation course which stresses those algebraic and elementary function concepts together with the manipulative skills essential to the study of calculus. Prerequisites: either MATH 100C with a grade of C or higher; or a score of 18 or higher on the Intermediate Math Placement Test, or a score of 66 or higher on the Compass Algebra test. Basic Skills 4 - Math

#### MATH 154. Pre-calculus Mathematics II (5). A

continuation of MATH 153 with emphasis on trigonometric functions, vectors, systems of equations, the complex numbers, and an introduction to analytic geometry. Prerequisites: MATH 153 with a grade of C or higher, a score of 17 or higher on the Advanced Math Placement Test, or a score of 46 or higher on the Compass College Algebra Test. Basic Skills 4 - Math

#### MATH 155. Pre-Calculus Review

(5). An accelerated review of topics necessary for success in calculus with a focus on linear, quadratic, rational, exponential, trigonometric functions, and their inverses. Intended only for students continuing to calculus. Prerequisite: COMPASS score of 46+ on college algebra or 31+ on trigonometry or advanced math placement.

#### MATH 164. Foundations of

Arithmetic (5). Structure of the real number system. Properties of and operations on integers, rationals, decimal representation, percentages, proportion, graphing, and elementary problem solving. Recommended for the prospective elementary school teacher. Prerequisites: 45 earned credits, and either at least a 500 on the SAT. a 19 on the

ACT, or a score of 50 on the Compass test. Basic Skills 4 -Math

#### MATH 170. Intuitive Calculus (5).

An intuitive approach to the differential and integral calculus specifically designed for students in the behavioral, managerial, and social sciences. Prerequisites: MATH 153 with a grade of C or higher or a score of 19 or higher on the Advanced Placement Test. Not open to students with credit for MATH 172 or higher. Basic Skills 4 - Math

# MATH 172. Calculus I (5). Theory, techniques, and applications of differentiation and integration of the elementary functions. Prerequisites: MATH 154 with a grade of C or higher, a score of 19 on the Advanced Math Placement Test, or a score of 46 or higher on the Compass Trigonometry test. Basic Skills 4 - Math

MATH 173. Calculus II (5). Theory, techniques, and applications of differentiation and integration of the elementary functions.

Prerequisite: MATH 172 with a grade of C or higher.

#### MATH 232. Discrete Modeling for Middle-level Teachers (4).

Discrete models including recurrence relations finite differences, logic, applications of graph theory, applications of linear programming, and simple combinatorics. Prerequisites: MATH 164 and MATH 250.

#### MATH 250. Intuitive Geometry for Elementary Teachers (4). An

intuitive approach to the geometry topics relative to the elementary school curriculum. Prerequisite: MATH 164 with a grade of C or higher.

#### MATH 260. Sets and Logic (5).

Essentials of mathematical proofs, including use of quantifiers and principles of valid inference. Set theory as a mathematical system.

Prerequisites: MATH 173 with a grade of C or higher or MATH 172 and CS 301 with grades of C or higher.

MATH 264. Functions for Middlelevel Teachers (5). Analyze and create algebraic models of functions on both continue and discrete systems. Apply function techniques to solve problems. Apply knowledge of functions and of society to communicate concepts of mathematical functions to a diverse group of middle school students. Prerequisites: MATH 100C with a grade of C or higher or a score of 18 or higher on the Intermediate Math Placement Test.

#### MATH 265. Linear Algebra I (4).

Vector spaces, linear systems, matrices, and determinants. Prerequisite: MATH 173 with a grade of C or higher.

## MATH 272. Multivariable Calculus I (5). Differential and integral calculus of multivariable functions and related topics. Prerequisite: MATH 173 with a

grade of C or higher.

## MATH 273. Multivariable Calculus II (5). Differential and integral calculus of multivariable functions and related topics. Prerequisite: MATH 272 with a

#### MATH 274. Principles of Calculus for Middle-level Teachers (3).

grade of C or higher.

Demonstrate a conceptual and procedural understanding of the fundamental elements of calculus including limits, continuity, differentiation, and integration. Apply knowledge of calculus and society to communicate concepts of motion mathematics to a diverse group of middle school students. Prerequisites: MATH 154 or MATH 264.

#### MATH 275. Calculus for Secondary Teachers (5).

Conceptual and procedural understanding of the fundamental elements of calculus including limits, continuity, differentiation, and integration of single and multivariable functions. Prerequisite: MATH 173. Substitute for MATH 272 only for students in an endorsement or certification-only program. By permission.

#### MATH 298. Special Topics (1-6). MATH 299E. Orientation Seminar: Secondary Mathematics (2).

Introductory seminar for new mathematics education students focusing on problem solving, technical presentation of solutions, and electronic portfolio preparation. Prerequisites: admission to the teaching secondary math major, and application to the Teacher Certification Program. Corequisite: EFC 210.

MATH 311. Statistical Concepts and Methods (5). Hands-on activities for exploring data. Surveys, planned experiments, and observational studies. Modeling, sampling distributions, and statistical inference. MINITAB statistical computing language introduced and used extensively. Prerequisites: MATH 130 or MATH 173 with a grade of C or higher.

#### MATH 320. History of Mathematics (3) A study of

Mathematics (3). A study of the development of mathematics and the personalities involved. Prerequisite: MATH 260 with a grade of C or higher.

#### MATH 321. Math WEST-E Prep

(2). Prerequisite: Students must be admitted into the mathematics education major or minor. Fully online course designed to prepare teacher candidates for the WEST-E in mathematics. Topics include mathematical processes, number and operation, algebra and function, measurement and geometry, statistics and probability, discrete mathematics and calculus. Prerequisite: MATH 265 with a C or higher. Grade will either be S or U.

#### MATH 322. Assessment of Student Learning for Mathematics

Teachers (5). Candidates will create assessment plans organized around big ideas and essential questions from the Washington State Standards of Student Assessment. Finally, candidates will learn how to develop and implement assessment tasks to identify their student's mathematical performance and plan further instruction. Prerequisite: EFC 210, EFC 310, and MATH 299E.

#### MATH 323. Teaching Middle School Mathematics and Science

(3). Prospective teachers will learn and use the methods and materials needed to teach middle school students mathematics and

science with emphasis on the use of experiments, manipulatives, problems solving, cooperative learning and communication of understanding. MATH 323 and SCED 323 are cross-listed courses, students may not receive credit for both. Prerequisites: MATH 324 or EDEL 323 or SCED 324 or SCED 322, current WSP/ FBI fingerprint clearance, and application to the Teacher Certification Program.

## MATH 324. Methods and Materials in MathematicsSecondary (5). Prerequisites: EFC 320, MATH 322, current WSP/FBI fingerprint clearance, and conditional or full admission to the Teacher Certification Program. Corequisite: EFC 210.

# MATH 325. Instructional Practices for Teaching Mathematics (4). Mathematics teacher candidates will practice planning, teaching, and assessing mathematics activities with emphasis on standard-based curriculum, problems solving, teaching for understanding, equity, and technology. Candidates will discuss and implement technology to improve their impact on student learning. Prerequisite: EFC 320, and

#### **MATH 330. Discrete Mathematics**

MATH 324.

(5). Topics from logic, combinatorics, counting techniques, graph theory, and theory of finite-state machines. Prerequisite: MATH 260 with a grade of C or higher.

#### MATH 331. Continuous Models

(3). Students will use multiple integrals, line integrals, and differential equations to model physical situations. Prerequisite: MATH 272 with a grade of C or higher.

#### MATH 332. Discrete Models (4).

Discrete models including graph theory, difference equations, and the models of social choice, inherent logic combinatorics, and algebra. Prerequisite: admission to the mathematics education major or minor.

#### MATH 355. College Geometry I

(4). An inductive and deductive approach to intuitive geometry, modern Euclidean geometry,

history of geometry, and axiomatic systems in geometry. Prerequisite: admission to the mathematics education major or minor.

#### MATH 360. Algebraic Structures I

(3). First course in the structure of algebraic systems includes the study of real number systems and other algebraic systems in the development of group theory. Prerequisite: admission to the mathematics education major or minor.

#### MATH 361. Algebraic Structures II

(3). The second course in the structure of algebraic systems, including rings, modules, and fields, and their associated morphisms.

#### MATH 364. Axiomatic Systems (4).

An introduction to the idea of an axiomatic system, including concepts such as consistency and completeness. This course is designed to provide students with the proof writing skills required for more advanced courses Prerequisite: MATH 260 with a grade of C or higher.

#### MATH 365. Linear Algebra II (3).

Vector spaces, linear transformations, bilinear and quadratic forms, eigenvalues, eigenvectors, similarity, inner products, and norms.

Prerequisites: MATH 260 and MATH 265 with grades of C or higher.

#### MATH 371. Advanced Calculus

(4). The basic concepts of the real numbers and calculus are presented from an axiomatic standpoint. This course also offers basic proof writing skills that are necessary for more advanced mathematics.

Prerequisites: MATH 260 and 272 with grades of C or better.

#### MATH 372. Complex Analysis.

Arithmetic of complex numbers and functions of a complex variable, linear fractional transformations, Cauchy-Reimann equations, contour ingration, Cauchy's theorem, residue theorem, power series and applications. Prerequisites: MATH 260 and MATH 273 with grades of C or higher.

#### **MATH 376. Differential Equations**

I (3). Elementary methods of

solutions of ordinary differential equations. Some numerical methods for solving ordinary differential equations with applications. Prerequisites: MATH 265 and MATH 272 with grades of C or higher.

#### MATH 377. Differential Equations

II (3). Elementary methods of solutions of ordinary differential equations. Some numerical methods for solving ordinary differential equations with applications. Prerequisite: MATH 376 with a grade of C or higher.

#### Methods I (3). A thorough treatment of regression and correlation. Chi-square and other enumeration statistics. Non-

MATH 410A. Advanced Statistical

enumeration statistics. Nonparametric statistical principles of experimental design. Examples will be from a variety of fields. Prerequisite: MATH 311 with a

grade of C or higher.

#### MATH 410B. Advanced Statistical

Methods II (3). A thorough treatment of regression and correlation. Chi-square and other enumeration statistics. Non-parametric statistical principles of experimental design. Examples will be from a variety of fields. Prerequisite: MATH 410A with a grade of C or higher.

#### MATH 411A. Probability Theory

(4). Principal topics include: combinatorial theory, conditional probability, random variables, expectation and moments, generating functions, various discrete and continuous distributions, law of large numbers, central limit theorem. Prerequisite: MATH 273 with a grade of C or higher.

#### MATH 411B. Mathematical

Statistics I (3). Derived distributions, point and interval estimation, hypothesis testing. Correlation and regression theory. Distribution free methods. Bayesian inference. Prerequisite: MATH 411A with a grade of C or higher.

#### MATH 411C. Mathematical

Statistics II (3). Derived distributions, point and interval estimation, hypothesis testing. Correlation and regression theory. Distribution free methods. Bayesian inference.

Prerequisite: MATH 411B with a grade of C or higher.

#### MATH 413. Introduction to

Stochastic Processes (5). The Wiener Process, conditional probability and conditional expectation. Stationary and evolutionary processes. Various Poisson processes. Renewal counting processes. Discrete parameter Markov chains. Prerequisite: MATH 411A with a grade of C or higher.

#### **MATH 414. Time Series Analysis**

(3). Model building, parameter estimation, diagnostic checking of time series data; ARIMA models and forecasting. Analysis of seasonal models. Co- or prerequisite: MATH 410B.

#### MATH 416A. Actuarial Science

Problems II (1-2). Students discuss and present problems in probability and mathematical statistics important for actuaries. Prerequisite: MATH 411B with a grade of C or higher. May be repeated up to 3 credits.

#### MATH 416B. Actuarial Science

Problems III (2). Review of topics in financial mathematics important for actuaries, including time value of money, annuities, loans, bonds, and derivatives markets. Co- or prerequisite: MATH 418C.

#### MATH 417A. Loss Models I (3).

Modeling process, calibration, and evaluation. Analyzing data, determining a suitable model including parameter values, and providing measures. Prerequisite: MATH 411A with a grade of C or higher.

#### MATH 417B. Loss Models II (3).

Modeling process, calibration, and evaluation. Analyzing data, determining a suitable model including parameter values, and providing measures of confidence for decisions based upon the model. Prerequisite: MATH 417A with a grade of C or higher.

#### MATH 417C. Loss Models III (3).

Modeling process, calibration, and evaluation. Analyzing data, determining a suitable model including parameter values, and providing measures of confidence for decisions based upon the model. Prerequisite:

MATH 417B with a grade of C or higher.

#### MATH 418A. Financial

Mathematics I (3). Fundamental concepts and calculations for cash flows as a basis for future use in reserving, valuation, pricing, asset/liability management, investment, and capital budgeting. Prerequisite: MATH 173 with a grade of C or higher.

#### MATH 418B. Financial

Mathematics II (3). Fundamental concepts and calculations for cash flows as a basis for future use in:reserving, valuation, pricing, asset/ liability management, investment, and capital budgeting. Prerequisite: MATH 418A with a grade of C or higher.

#### MATH 418C. Financial

Mathematics III (3). Introduction to financial instruments, including derivatives, and the concept of no-arbitrage as it relates to financial mathematics. Introduction to financial economics and key terms: derivatives, forwards, short and long positions, cal and put options, spreads, collars, hedging, arbitrage, and swaps. Prerequisite: MATH 418B with a grade of C or higher.

#### MATH 419A. Actuarial

Mathematics I (3). Mathematics of analyzing and pricing insurance, annuities, and pension products. Life contingencies, risk theory, and techniques in reserving and valuation. Prerequisite: MATH 411A with a grade of C or higher.

#### MATH 419B. Actuarial

Mathematics II (3). Mathematics of analyzing and pricing insurance, annuities, and pension products. Life contingencies, risk theory, and techniques in reserving and valuation. Prerequisite: MATH 419A with a grade of C or better.

#### MATH 419C. Actuarial

Mathematics III (3). Mathematics of analyzing and pricing insurance, annuities, and pension products. Life contingencies, risk theory, and techniques in reserving and valuation.

Prerequisite: MATH 419B with a grade of C or higher.

MATH 430. Introduction to Theory of Numbers (3). Euclidean algorithm, fundamental theorem of arithmetic, Diophantine equations, primitive roots and indices, and other number theory topics. Prerequisite: MATH 260 with a grade of C or higher.

#### MATH 440. Mathematical Theory of Financial Economics (5).

Concepts, principles, and techniques needed for the professional actuarial SOA/ CAS Exam MFE are covered in this course. Topics to explore include interest rate models, bond price models, rational valuation of derivative securities, and deltahedging as risk management techniques. Prerequisites: MATH 411B and MATH 418C.

MATH 451. Topology I (3). An introduction to point-set and algebraic topology. Topics may include metric spaces, topological spaces, homotopy theory, and the fundamental group.

Prerequisites: MATH 260 and MATH 265 with grades of C or higher.

MATH 452. Topology II (3). An introduction to point-set and algebraic topology. Topics may include metric spaces, topological spaces, homotopy theory, and the fundamental group. Prerequisite: MATH 451 with a grade of C or higher.

MATH 453. Topology III (3). An introduction to point-set and algebraic topology. Topics may include metric spaces, topological spaces, homotopy theory, and the fundamental group.

#### MATH 455. College Geometry II

(3). Introduction to non-Euclidean geometry including history, deductive reasoning, and topics in hyperbolic and elliptical geometry. Prerequisites: MATH 355 and MATH 260 with grades of C or higher.

#### MATH 461. Abstract Algebra I (3).

Algebraic structures such as groupoids, groups, rings, and fields. Prerequisites: MATH 260 and MATH 265 with grades of C or higher.

MATH 462. Abstract Algebra II (3). Algebraic structures such as

groupoids, groups, rings, and fields. Prerequisite: MATH 461 with a grade of a C or higher.

#### MATH 463. Abstract Algebra III

(3). Algebraic structures such as groupoids, groups, rings, and fields. Prerequisite: MATH 462 with a grade of C or higher.

#### MATH 471. Advanced Analysis I

(3). Further development of properties of calculus. Prerequisites: MATH 260 and MATH 273 with grades of C or higher.

#### MATH 472. Advanced Analysis II

(3). Further development of properties of calculus.
Prerequisite: MATH 471 with a grade of C or higher.

#### MATH 473. Advanced Analysis III

(3). Further development of properties of calculus.
Prerequisite: MATH 472 with a grade of C or higher.

#### MATH 475. Applied Analysis I (3).

Selected topics from advanced analysis especially useful to the engineer, chemist, physicist, and applied mathematician.

Prerequisite: MATH 376 with a grade of C or higher.

#### MATH 476. Applied Analysis II

(3). Selected topics from advanced analysis especially useful to the engineer, chemist, physicist, and applied mathematician. Prerequisite: MATH 475 with a grade of C or higher.

#### MATH 477. Applied Analysis III

(3). Selected topics from advanced analysis especially useful to the engineer, chemist, physicist, and applied mathematician. Prerequisite: MATH 476 with a grade of C or higher.

#### MATH 486. Mathematics, Problem Solving, and Teaching (4).

Written and oral projects to show mastery in teaching the middlelevel math concepts from a problem solving approach. Prerequisites: MATH 164, MATH 250, MATH 153, and MATH 154.

#### MATH 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan,

cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

MATH 491. Workshop (1-6). The title of the workshop and the credit to be earned shall be determined at the time the workshop is approved. Designed to give an opportunity for

individual and group study of problems in mathematics. May be repeated for credit.

#### MATH 495. Undergraduate

**Research** (1). May be repeated up to 5 credits.

MATH 496. Individual Study (1-6).

MATH 498. Special Topics (1-6).

**MATH 499. Seminar** (1-5).

MATH 499E. Senior Seminar:

Secondary Mathematics (4).

Individualized projects using oral presentations and written

electronic portfolio to show mastery in all program outcomes for teaching secondary mathematics. Prerequisite: MATH 325.

#### MATH 499S. Senior Seminar (2).

Individualized projects using oral presentations and written portfolio to show mastery in all program outcomes for mathematics.

#### **McNair Scholars Program**

Undergraduate Studies Ellensburg Farrell Hall, room 136 509-963-2869 www.cwu.edu/ mcnair

See website for how these programs may be used for educational and career purposes

#### **Program Director**

Karen Francis-McWhite, MA

#### **Faculty Coordinator**

Ian Buvit, PhD

#### Staff

Kristina Owens, secretary senior

#### **Program Information**

The Ronald E. McNair Scholars Program at CWU is funded by a grant from the Department of Education under the TRIO Programs.

This is an academically rigorous program, not a scholarship. The program is designed to provide underrepresented (low-income and first-generation, and/ or ethnic minority) students with the training and opportunity to prepare for and successfully apply to graduate school programs. To this end, admitted scholars are required to complete graduate school preparation seminars. The goal of the program is for scholars to attain their doctorates and teach at universities.

A cornerstone of this program is the linking of scholars with faculty mentors. Students are expected to complete a summer research internship under the supervision of a research mentor. Scholars also have the option of a teaching internship during one academic quarter and/or pursuing a leadership development track during their second year as a McNair Scholar.

CWU students are encouraged to apply to the McNair Scholars Program as sophomores or juniors and are selected on the basis of their academic excellence, career objectives and faculty recommendations.

#### **Admission Requirements**

Students must meet the following eligibility requirements:

- Be a U.S. citizen or permanent resident;
- Be a low-income student who is also a first-generation college student; or must be a member of a group that is
  underrepresented in graduate education (African American, American Indian/ Alaskan Native, Hispanic/ Latino, or
  Native Hawaiian/ Pacific Islander);
- Be currently enrolled as an undergraduate in a degree program at CWU
- Must have completed 90 quarter credits by the time you begin the McNair Scholars Program
- Must have at least one year remaining before graduation
- Must have a minimum cumulative GPA of 2.9 and a major GPA of at least 3.1
- Must express a desire to attain a PhD

Complete an application, complete with form, two letters of recommendation, and a personal statement. Application materials and deadlines are available on the program website.

#### McNair Scholars Courses

MCNA 301. Creating a Research

Project (1). A seminar designed to guide McNair Scholar students through the steps of writing a research proposal. Prequisite: admission to the McNair Scholar Program. May be repeated up to 2 credits. Grade will either be S or

MCNA 302. Finding a Graduate

School (1). A seminar designed to assist McNair Scholar students

research and locate graduate schools in their field of study. Prerequisite: MCNA 301. May be repeated up to 2 credits. Grade will either be S or U.

MCNA 303. Completing the Graduate School Application (1).

A seminar designed to assist McNair Scholar students through completing their graduate school application materials.

Prerequisite: MCNA 302. May be

repeated up to 2 credits. Grade will either be S or U.

MCNA 395. Undergraduate Research Methods (2). An

introduction to research methods in preparation for an undergraduate summer research internship. Prerequisite: admission to the McNair Scholars Program. Grade will either be S or U.

#### **Military Science Department**

(Army Reserve Officers' Training Corps)

College of Education and Professional Studies Ellensburg Peterson Hall, room 202 509-963-3518 Fax 509-963-3588 www.cwu.edu/ army

See website for how these programs may be used for educational and career purposes.

#### **Faculty and Staff**

Chair

LTC Michael A. Quitania, infantry

#### **Professor**

LTC Michael A. Quitania, military intelligence, Command General Staff College

#### **Assistant Professors**

MAJ Jay R. Cook, engineer, BS, environmental management CPT Dale A. Wright, armor, BA, business management

#### Instructors

MSG Victor Vicente, infantry SFC Isaiah L. Brown, air defense artillery

#### Staff

Kevin I. Bannister, supply technician David M. Mirro, human resource technician Angela Moore, secretary senior Deborah J. Newton, human resource technician

#### **Department Information**

The Department of Military Science's courses are designed to prepare scholars, athletes, and junior leaders for commissioning in the U.S. Army. Students who complete the Military Science Program and meet commissioning requirements will be eligible for a commission as a second lieutenant in the U.S. Army, Army Reserve, or Army National Guard. The on-campus instructional program is designed to fit into the regular academic schedule of the university and is taught by Army professors and instructors.

The academic program consists of military science, leadership labs, and off-campus summer training. Academic studies include courses in basic military tactics, principles of leadership, officership, communication, personnel and logistics management, staff management procedures, physical conditioning, land navigation, and military law. Various training activities are scheduled each quarter to further familiarize the student with the ROTC Program.

Textbooks and uniform items are furnished through the Department of Military Science. The MSL 100 and MSL 200 classes are open to any student to explore their military interests and are non-contractual. Advancement to MSL 300 and MSL 400 courses to complete a minor in military science is by permission only.

Upon completion of the military science core (OPTION 1, 2, or 3; see below) requirements, leadership development and assessment course, and receipt of a bachelor's degree, students seeking an officer commission are able to select full-time employment (active Army) or part-time employment through the Army National Guard or the Army Reserve.

Additional information concerning the Military Science Program may be obtained by writing: Central Washington University, Military Science, Peterson Hall, 400 E. University Way, Ellensburg, Washington 98926-7569, stopping by the military science department in Peterson Hall, room 202, calling 509-963-3518, or by visiting the military science website at <a href="https://www.cwu.edu/~roo/">www.cwu.edu/~roo/</a>.

**POST BACHELOR'S DEGREE FELLOWSHIPS:** Graduating seniors may compete for several fully-funded Army graduate fellowships.

**TRANSFER STUDENTS:** Students transferring from other institutions, including community colleges considering entrance in the Military Science Program must make an appointment for a departmental interview for candidacy and scholarships.

**GRADUATE STUDENTS:** Graduate students interested in obtaining a commission as a second lieutenant should contact the Department of Military Science in Peterson Hall for academic planning and application.

**VETERANS:** Veterans are encouraged to contact one of the military science academic advisors for information and outline of benefits available while participating in the ROTC program.

**SCHOLARSHIPS:** ROTC scholarships pay tuition and required fees. They're awarded on merit–academic achievements, extracurricular activities, and personal interviews. Four-, three- and two-year scholarships are available each academic year to qualified students. Applications can be obtained from the military science department.

**STIPENDS:** All fully contracted cadets receive a stipend (\$300 freshman, \$350 sophomore, \$450 junior, \$500 senior) for each academic month plus an allowance for books and other educational items. Non-scholarship students can receive the stipend as a contracted cadet during their last two years.

SPECIAL TRAINING OPPORTUNITIES: Summer training opportunities are through the Department of the Army Schools. The available schools include: airborne (parachute) training, air assault training, Northern Warfare School, and special forces. Additionally, Cadet Troop Leadership Training (CTLT) is also available to all cadets who have completed the military science minor core, been accepted in the military science minor, completed the MSL 301, 302, and 303 courses of study, and the leader development and assessment course. CTLT provides leadership experience in an active Army unit for two weeks prior to returning for the senior year of college study. CTLT is available in the U.S., Europe, and the Pacific Rim. Specialized training opportunities are by permission only.

#### Prerequisites for Advancement to the Military Science Minor

- 1. Admission into the MSL minor will be based upon an overall grade point average (GPA) of 2.5.
- 2. The department chair may admit a limited number of students with GPAs under 2.5.
- 3. Students seeking the military science minor must complete all application requirements prior to declaring military science as a minor.
- 4. Complete the core requirements with a GPA of 3.0 or higher.
- 5. The Department of Military Science reserves the right to modify these requirements in special cases.

#### **Military Science Minor**

Participation in this minor is contingent upon completion of the ROTC core (Option 1, 2 or 3) listed above and acceptance as a contracted student in the advanced course in the Army ROTC program. Application may be made at the military science department, Peterson Hall.

Military Science Minor Core

#### Option 1

No military obligation is incurred under Option 1 or Option 3.

#### Required Courses

- MSL 101 Foundations of Officership Credits: (1)
- MSL 102 Basic Leadership Credits: (2)
- MSL 103 Advanced Leadership Credits: (2)
- MSL 201 Individual Leadership Studies Credits: (2)
- MSL 202 Leadership and Teamwork Credits: (2)
- MSL 211 Land Navigation Credits: (2)

Military Science Core Total Credits: 11

#### Option 2

#### Required Courses

- Select 3 credits from the list of approved electives Credits: 3
- MSL 292 Leader's Training Course, Internship Credits: (8)
   (This course can be taken as non-credit)

Military Science Core Total Credits: 11

#### Option 3

No military obligation is incurred under Option 1 or Option 3.

Verification of completion of prior military service initial entry program. This option is by permission only. See department for further information.

#### Required Courses

- HIST 314 Military History of the United States Credits: (5)
- MSL 301 Leadership and Problem Solving Credits: (3)
- MSL 302 Leadership and Ethics Credits: (3)
- MSL 303 Leadership and Small Group Tactics Credits: (3)
- MSL 401 Leadership and Management Credits: (4)
- MSL 402 Officership Credits: (4)
- MSL 403 Officership II Credits: (2)

Select from the following - Credits: 2-5

- CS, Any Course Credits: (4-5)
- IT 101 Computer Applications Credits: (3)

Total Credits: 26-29

#### **Military Science Courses**

MSL 101. Foundations of
Officership (1). Introduces
students to issues and
competencies that are central to a
commissioned officer's
responsibilities. Establishes
framework for understanding
officership, leadership, Army
values, and life skills, such as
physical fitness and time
management. Open to all
students.

MSL 102. Basic Leadership (2). Establishes foundation of basic fundamentals such as problem solving, communications, briefings, effective writing, goal setting, techniques for improving listening and speaking skills, and an introduction to counseling. Open to all students.

MSL 103. Advanced Leadership
(2). Studies in problem solving, communications, effective writing, goal setting, techniques

of listening, advanced speaking skills and professional

counseling. Open to all students. **MSL 201. Individual Leadership** 

Studies (2). Students identify successful leadership characteristics through personal experience and observation of others during hands-on team building exercises. Explores persuasion techniques and the continuum of guidance to determine leadership styles. Open to all students.

#### MSL 202. Leadership and

Teamwork (2). Examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. Open to all students.

MSL 211. Land Navigation (2).
Principles of land navigation and orienteering with practical field

applications.

#### MSL 212. Leadership Laboratory

(1). Practical experience in leadership and basic military skills. May be repeated for credit.

MSL 292. Leader's Training Course, Internship (8). Basic military skills and leadership techniques taught at Ft. Knox, Kentucky, during the summer. Qualifies the student for enrollment in the ROTC advanced course. Training emphasizes leadership development and can be taken in place of the basic course. Students receive pay, food, lodging, and travel expenses to and from Ft. Knox. By permission.

#### MSL 293. Ranger Challenge

**Training** (2). Prepares students to compete as a team member on the CWU Ranger Challenge team. Corequisite: PEF 118.

MSL 296. Individual Studies in Military Science (1-15).

MSL 298. Special Topics (1-6).

#### MSL 301. Leadership and Problem

Solving (3). Students conduct self-assessment of leadership style, develop personal fitness regimen, and learn to plan and conduct individual/ small unit tactical training while testing reasoning and problem solving techniques. Students receive direct feedback on leadership abilities. Required for commissioning. Prerequisite: MSL 102.

#### MSL 301LAB. Military Science and Tactics III Laboratory (1).

Corequisite: MSL 301. Requires concurrent enrollment in MSL 301. Practical experience and application in first aid, weapons, communications, and advanced land navigation.

#### MSL 302. Leadership and Ethics

(3). Students learn small-group leadership methods with emphasis on problem solving and dealing with situational change required for commissioning. Prerequisite:

#### MSL 302LAB. Military Science and Tactics III Laboratory (1).

Practical experience and application in small-unit leadership techniques, and small-unit tactics. Corequisite: MSL 302.

MSL 303. Leadership and Small Group Tactics (3). Students learn and demonstrate small-unit tactics and land navigation methods while using advanced problem-solving techniques. Emphasis on decision making and communication skills. Required for commissioning. Prerequisite: MSL 302.

#### MSL 303LAB. Military Science and Tactics III Laboratory (1).

Practical experience integration of small-unit tactics, land navigation, techniques of fire support, and military skills. Corequisite: MSL 303.

#### MSL 314. Military History of the United States (5). A

comprehensive and systematic survey and analysis of the American military experience from colonial times through the Vietnam War. MSL 314 and HIST 314 are cross-listed courses; students may not receive credit for both.

#### MSL 392. Leader Development and Assessment Course

**Preparation** (2). Practical exercise in small-unit leadership and tactics. Prepares the student for leader development and assessment course. Prerequisite: MSL 302.

#### MSL 398. Special Topics (1-6). MSL 401. Leadership and

Management (4). Develops student proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management, methods of effective staff collaboration, and developmental counseling techniques. Required for commissioning. Prerequisite: MSL 303.

# MSL 402. Officership (4). Study includes case analysis of military culture and practical exercises on establishing a command climate. Students must complete a quarter-long Senior Leadership Project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Required for commissioning. Prerequisite:

#### MSL 403. Officership II (2).

MSL 401.

Emphasis on analyzing case and situational studies which cover contemporary leadership problems. Required for commissioning. Prerequisite: MSL 402.

MSL 492. Leader Development and Assessment Course

**Internship** (8-15). Practical exercise in small-unit leadership and tactics. Five-week camp at Ft. Lewis, Washington. Required for

commissioning. Prerequisites: MSL 301, MSL 302, and MSL 303. May be repeated for credit.

#### **Music Department**

College of Arts and Humanities Ellensburg Jerilyn S. McIntyre Music Building

509-963-1216 Fax: 509-963-1239 www.cwu.edu/ music

See website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Todd Shiver, DMA

#### **Associate Chair**

Chris Bruya, MM, jazz studies

#### **Professors**

Joseph Brooks, MM, clarinet, saxophone, woodwind methods
Larry D. Gookin, MM, bands, low brass, music education, conducting
Carrie Rehkopf-Michel, MM, violin, chamber music, Kairos String Quartet
John Michel, MM, cello, chamber music, pedagogy, Kairos String Quartet
Hal Ott, DM, flute, literature
John F. Pickett, DM, piano, literature, pedagogy
Vijay Singh, MAT, jazz studies, choir, voice
Jeffrey Snedeker, DMA, horn, brass methods, music history, theory

#### **Associate Professors**

Nikolas Caoile, DMA, orchestra, conducting Mark Goodenberger, MM, percussion John Harbaugh, MME, trumpet, jazz studies Daniel Lipori, DMA, music history, bassoon, double reed methods Bret Smith, PhD, music education, string pedagogy

#### **Assistant Professors**

Gayla Blaisdell, PhD, voice, opera Mark Lane, MM, music education, band Elaine Ross, PhD, theory, composition Gary Weidenaar, DMA, choir, conducting, music education

#### Lecturers

Tim Betts, MM, viola, Kairos String Quartet
Tor Blaisdell, MM, voice
James Durkee, MM, guitar, music literature
Brent Hages, BM, oboe
Jon Hamar, MM, string bass
Sidney Nesselroad, DMA, voice
Heather Netz, MM, violin, music appreciation, Kairos String Quartet
John Neurohr, DMA, trombone, theory
Kristen Neurohr, DMA, theory
Curtis Peacock, MM, tuba, euphonium, history of jazz
Barbara Pickett, MM, piano, class piano
Maria Roditeleva-Wibe, PhD, music history, theory, world music
Florie Rothenberg, DMA, clarinet

Melissa Schiel, DMA, voice Leslie Schneider, MM, music education Emelie Spencer, MM, voice, theory

#### Staff

Marcie Brown, program assistant Star Heger, fiscal specialist Allen Larsen, hall manager, audio technician, web manager Harry Whitaker, piano technician Tinja Wyman, office supervisor

#### **Department Information**

#### **Mission Statement**

The Department of Music is a community of artists, scholars, and educators dedicated to achieving the highest standards of musical knowledge, performance, and teaching. The department is committed to preparing students for careers in music, providing the opportunity to become literate, skilled, knowledgeable, and confident music educators, performers, and practitioners, able to influence and enrich the musical lives of the communities in which they serve. The department provides opportunities for the general student to study music as an essential part of a liberal arts education and engage in artistic experiences, serve as a leader for K-12 music education, and provide opportunities for the general public to experience music performances of the highest quality in a broad range of styles and genres.

#### **Department Vision**

The Department of Music will be recognized and respected for its challenging curriculum and supportive environment, for the excellence of its student, ensemble, and faculty performances, and for the fulfillment of its motto: "Where teaching is a performing art."

#### Accreditation

The department is an institutional member of the National Association of Schools of Music (NASM).

#### **Admission Requirement**

All entering students who plan to pursue either a major or minor in the music department must audition for acceptance into the program before a faculty committee. See the department's website for audition information.

#### **Common Exit Requirements**

All music majors must pass a keyboard proficiency exam as a graduation requirement. Music education majors will not be scheduled for student teaching until this proficiency is completed.

#### Standards

Music education majors must meet the standards for acceptance into the Professional Education Program.

#### **Required Participation:**

- 1. All entering music majors with no previous college music theory credits must pass an online exam in music fundamentals as a prerequisite for MUS 144, the first quarter of the theory sequence (fee required).
- 2. All entering music majors with college credits in music theory must take an in-house diagnostic theory exam, which will be given during the transfer student orientation sessions and before the fall quarter begins. Credit for previous college theory courses may be given based on the results of this exam. Details about both exams can be found on the department website. All music majors must enroll in a large ensemble appropriate to their major performance area during each quarter of enrollment as a full-time student. Enrollment in either Women's Choir or Men's Choir can be substituted for enrollment in a choral large ensemble for a maximum of three quarters.

#### **Graduation Requirements**

- 1. All music majors must pass the required piano proficiency exam. MUS 154A (Piano Class III) must be retaken until this requirement is fulfilled.
- 2. All music majors must attend four (4) convocations and an average of eight (8) recitals/ concerts for each Fall, Winter, and Spring quarter that they are in residence.

#### **Departmental Honors**

Consult the department website for information about the departmental honors program.

#### **Certification Programs**

The department offers post-baccalaureate students the opportunity to earn Teaching Certification in three endorsement areas. To enter the certification program, a baccalaureate degree in music is required. Endorsement for certification requires

completion of all courses listed in the CWU curricular requirements of each specialization. Consultation with the faculty music education specialist is mandatory for students entering this program.

#### **Department Fees**

All fees are billed to students' accounts.

A \$75 fee for 1 credit and \$125 fee for 2 credit for each quarter of enrollment in MUS 164, 264, or 364 (Individual applied instruction).

A \$125 fee for each quarter of enrollment in MUS 464 (Individual applied instruction).

A \$75 fee for 2 credits and \$125 fee for 4 credits for each quarter of enrollment in MUS 564 and 664 (Individual applied instruction).

A \$75 fee for each quarter of enrollment in X71 (Secondary applied instruction).

A \$40 fee each quarter for students enrolled in Vocal Jazz I

A \$40 fee for each scheduled student recital

A \$15 fee for each MUS 252, 253, and 254 (Class Instrumental Methods) course

A \$5 annual locker fee

A \$5 fee for students enrolled in Percussion Ensemble

A university \$25 tech fee covers use of electronic equipment used in all music courses. Part-time students enrolled in theory, class piano, composition, or electronic music courses will be assessed this fee.

#### **Applied Music (Individual Lessons)**

Student advancement through performance levels (164-464) is determined by jury examination, conducted at the end of the quarter in which a level change is attempted. Students studying at the 364 level must present a full recital as a graduation requirement. Students studying at the 464 level must present at least a one-half recital as a graduation requirement. See the Undergraduate Handbook for policies regarding applied music study. The handbook is available on the department website at www.cwu.edu/~music. Applied music requirements differ according to the degree.

#### **Ensemble Participation**

Participation in performance ensembles is an essential part of the music major experience. Rehearsing and performing as part of a band, orchestra, or choir provides many benefits. It develops musical listening and performing skills, expands knowledge of repertoire, including contemporary and traditional works, provides the opportunity to learn the style characteristics of historical periods and elements of musical structures, and promotes cohesiveness in the musical community.

For future music directors and educators, the ensemble directors serve as models of how to develop such ensembles and how to utilize efficient and productive rehearsal techniques. To ensure that all music majors derive full benefit of this experience, participation in a large ensemble (defined below) appropriate to the major performing area is required of all music majors every quarter in residence as a full-time student, regardless of the number of credits required in each degree.

When circumstances justify not being in a large ensemble, a large ensemble participation waiver form, available in the music department office and signed by the applied instructor/advisor and ensemble director must be submitted for approval by the department chair.

Only the following are designated as large ensembles: Wind Ensemble, MUS 266/ 466; Choir, MUS 267/ 467; Chamber Choir, MUS 268/ 468; Orchestra, MUS 277/ 477; Marching and Concert Band, MUS 287/ 487 (fall quarter only); Concert Band, MUS 288/ 488.

#### **Bachelor of Music - Composition Major**

Bachelor of music in composition is intended for students whose primary interest is in composition and for those who intend to pursue graduate work in music theory or composition. Audition requirement: Submit 2 or 3 short contrasting compositions and demonstrate proficiency on a primary instrument. (Formal declaration of a major in composition cannot occur until the end of the first-year theory sequence 146 and 146A with the grade of at least a B- in all theory courses, completion of MUS 120, and permission of instructor.) Transfer students may bypass MUS 120 with permission based upon composition knowledge, submissions, and sufficient audition on primary instrument. It will normally take transfer students three years to compete the degree requirements.

#### **Bachelor of Music - Music Education with Specializations**

All students majoring in music education will be reviewed and counseled by the Music Education Committee during each year of full-time enrollment. The purpose of these reviews is to assist the student in developing all the skills necessary to be an effective music educator. One year before student teaching, the student's accomplishments are reviewed by the entire music faculty. In order to receive an endorsement to student teach, the student must receive a satisfactory evaluation in all areas of music study. All music education majors must pass the required piano proficiency examination prior to endorsement for student teaching. Students taking this major must apply for admission into the Teacher Certification Program with the education foundations and curriculum department and are required to complete the Professional Education Program requirements offered through the education foundations and curriculum department.

#### **Music Courses**

Performance activities are designated by the following code:

- A. Piano
- B. Voice
- C. Strings
- D. Woodwinds
- E. Brass
- F. Organ
- G. Percussion
- H. Guitar
- I. Recorder
- K. Harpsichord
- L. Mixed

#### Music Jazz Specialization, BA

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

#### BA Music Core Requirements

#### Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 Credits: (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 Credits: (3)
- MUS 246 Theory 6 **Credits:** (3)

#### Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

#### Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 35

#### Required Courses

Ensembles - Credits: 6

Large Ensemble (minimum) Credits: (6)

Only the following are designated as large ensembles: MUS 267-467 (choir), MUS 268-468 (chamber choir) MUS 266-466 (wind ensemble), MUS 277-477 (orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (symphonic band).

Jazz Ensembles - Credits: 12

Choose from - Credits: (6)

- MUS 210 Vocal Jazz Choir Credits: (1)
- MUS 410 Vocal Jazz Choir Credits: (1)

Jazz Combos - Credits: (6)

- MUS 218 Jazz Combo Credits: (1)
- MUS 418 Jazz Combo Credits: (1)

Applied Music - Credits: 12

Individual Instruction - Credits: (12)

- MUS 164 Major Applied Area (Individual Instruction) Credits: (1-2)
   Must be taken for 1-2 credits.
- MUS 264 Major Applied Area (Individual Instruction) **Credits:** (1-2) Must be taken for 3 credits.
- MUS 366 Applied Jazz (Individual Instruction) Credits: (1)
   Must be taken for 6 credits.

Additional Courses - Credits: 15

- MUS 255 Keyboard Harmony and Improvisation Credits: (1)
- MUS 353 Jazz Improvisation I **Credits:** (1)
- MUS 354 Jazz Improvisation II Credits: (1)
- MUS 355 Jazz Improvisation III Credits: (1)
- MUS 356 Jazz Styles Credits: (3)
- MUS 357 Jazz Composition and Arranging Credits: (3)
- MUS 485 Choral Arranging Credits: (3)
   OR MUS 486 Jazz Band Arranging (3)
- MUS 495 Senior Project Credits: (2)

Total Credits: 80

#### Music Major, BA

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

BA Music Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 Credits: (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 35

#### Required Courses

Ensembles - Credits: 12

Large Ensemble (minimum) Credits: (12)

Only the following are designated as large ensembles: MUS 267-467 (choir), MUS 268-468 (chamber choir), MUS 266-466 (wind ensemble), MUS 277-477 (orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (symphonic band).

Applied Music - Credits: 12

Individual Instruction - Credits: (12)

MUS 164, 264, and 364 (1-2 credits)

(Note: at least two credits of 364 on primary instrument or at least two credits of 264 on primary instrument and additional 164 credits on a secondary instrument)

Upper-division Music Theory - Credits: 3

MUS 340 - Form and Analysis Credits: (3)

Conducting - Credits: 3

• MUS 341 - Conducting I Credits: (3)

Upper-division Music Theory - Credits: 3

#### Choose one:

- MUS 379 Philosophy of Music Credits: (3)
- MUS 382 Survey of Chamber Music Credits: (3)
- MUS 384 Survey of Choral Music Credits: (3)
- MUS 385 Survey of Opera Credits: (3)
- MUS 386 Survey of 20th-century Music **Credits:** (3)

Additional Courses - Credits: 2

• MUS 495 - Senior Project Credits: (2)

Total Credits: 70

#### **Music Composition Major, BM**

Bachelor of music in composition is intended for students whose primary interest is in composition and for those who intend to pursue graduate work in music theory or composition. Audition requirement: Submit 2 or 3 short contrasting compositions and demonstrate proficiency on a primary instrument. (Formal declaration of a major in composition cannot occur until the end of the first-year theory sequence 146 and 146A with the grade of at least a B- in all theory courses, completion of MUS 120, and permission of instructor.) Transfer students may bypass MUS 120 with permission based upon composition knowledge, submissions, and sufficient audition on primary instrument. It will normally take transfer students three years to compete the degree requirements.

#### BM Composition Core Requirements

#### Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS 144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A) and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 Credits: (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 Credits: (3)
- MUS 245 Theory 5 Credits: (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Ensemble - Credits: 20

Large Ensembles Credits (14-16)

Only the following are designated as large ensembles: MUS 267-467 (Choir), MUS 268-468 (Chamber Choir), MUS 266-466 (Wind Ensemble), MUS 277-477 (Orchestra), MUS 287-487 (Marching and Concert Band-fall quarter only) and MUS 288-488 (Symphonic Band).

Chamber Ensembles (4-6)

Applied Music - Credits: 13

Individual Instruction Credits: (12)

MUS 164, 264, and 364 (at least 2 credits of 364 are required)

• MUS 300 - Recital Performance **Credits:** (1) (Must be concurrently enrolled in 364)

Upper-division Music Theory - Credits: 9

- MUS 340 Form and Analysis Credits: (3)
- MUS 343 Counterpoint I **Credits:** (3)
- MUS 422 Orchestration Credits: (3)

Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives **Credits:** (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 83

#### Additional Required Courses

Music Composition - Credits: 24

- MUS 120 Composition 1 Credits: (3)
- MUS 220 Composition 2 Credits: (2)
- MUS 320 Composition 3 Credits: (2)
- MUS 420 Composition 4 Credits: (3)
   (Full Composition Recital is required to complete MUS 420)

Secondary Applied Area (Keyboard) - Credits: 4

- MUS 171A Secondary Applied Area Piano **Credits:** (1) Credits: (3) (If piano is major applied area then select another area for study)
- MUS 255 Keyboard Harmony and Improvisation Credits: (1)

Additional Courses - Credits: 8

- Music Electives Credits: (3)
- MUS 347 Electronic Music Credits: (2)
- MUS 423 Advanced Orchestration Credits: (3)
- MUS 440 Analytical Techniques II Credits: (3)
- MUS 485 Choral Arranging **Credits:** (3)
- MUS 486 Jazz Band Arranging Credits: (3)

Total Required Course Credits: 36

Total Credits: 128

#### Music Education Major with Specializations, BM

All students majoring in music education will be reviewed and counseled by the Music Education Committee during each year of full-time enrollment. The purpose of these reviews is to assist the student in developing all the skills necessary to be an effective music educator. One year before student teaching, the student's accomplishments are reviewed by the entire music faculty. In order to receive an endorsement to student teach, the student must receive a satisfactory evaluation in all areas of music study. All music education majors must pass the required piano proficiency examination prior to endorsement for student teaching. Students taking this major must apply for admission into the Teacher Certification Program with the education foundations and curriculum department and are required to complete the Professional Education Program requirements offered through the education foundations and curriculum department.

BM Music Education Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

#### Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Ensembles - Credits: 22

Only the following are designated as large ensembles: MUS 267-467 (Choir), MUS 268-468 (Chamber Choir), MUS 266-466 (Wind Ensemble), MUS 277-477 (Orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (Symphonic Band).

Applied Music - Credits: 11

Individual Instruction - Credits (11) MUS 164, 264, and 364 (at least 2 credits of 364 are required)

 MUS 300 - Recital Performance Credits: (1) (Must be concurrently enrolled in 364)

Upper-division Music Theory - Credits: 3

MUS 422 - Orchestration Credits: (3)
 OR Choral Music Specialization may take MUS 340 - Form and Analysis (3)

Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II **Credits:** (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives **Credits:** (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 78

Specializations are: Broad Area Choral Music Instrumental Music

#### Music Education Major, Broad Area Specialization, BM

All students majoring in music education will be reviewed and counseled by the Music Education Committee during each year of full-time enrollment. The purpose of these reviews is to assist the student in developing all the skills necessary to be an effective music educator. One year before student teaching, the student's accomplishments are reviewed by the entire music faculty. In order to receive an endorsement to student teach, the student must receive a satisfactory evaluation in all areas of music study. All music education majors must pass the required piano proficiency examination prior to endorsement for student teaching. Students taking this major must apply for admission into the Teacher Certification Program with the education foundations and curriculum department and are required to complete the Professional Education Program requirements offered through the education foundations and curriculum department.

This major satisfies the endorsements for music-general, music-instrumental, and music-choral, K-12. To qualify for student teaching, the following courses must be completed: MUS 325, MUS 329, MUS 341, and MUS 342.

BM Music Education Core Requirements

#### Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 Credits: (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Ensembles - Credits: 22

Only the following are designated as large ensembles: MUS 267-467 (Choir), MUS 268-468 (Chamber Choir), MUS 266-466 (Wind Ensemble), MUS 277-477 (Orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (Symphonic Band).

Applied Music - Credits: 11

Individual Instruction - Credits (11) MUS 164, 264, and 364 (at least 2 credits of 364 are required)

• MUS 300 - Recital Performance Credits: (1) (Must be concurrently enrolled in 364)

Upper-division Music Theory - Credits: 3

MUS 422 - Orchestration Credits: (3)
 OR Choral Music Specialization may take MUS 340 - Form and Analysis (3)

Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 78

Required Courses: Credits 19

- Music Electives Credits (1)
- MUS 171 Secondary Applied Area (Individual Instruction) Credits: (1)
   (Must be voice for non-voice primary applied area or instrumental for voice primary applied area)
- MUS 253C Class Instrumental Methods Strings I Credits: (1)
- MUS 253D Class Instrumental Methods Woodwinds I Credits: (1)
- MUS 253E Class Instrumental Methods Brass I Credits: (1)
- MUS 253G Class Instrumental Methods Percussion I Credits: (1)
- MUS 254B Class Vocal Methods Credits: (1)
- MUS 254C Class Instrumental Methods Strings II Credits: (1)
- MUS 254D Class Instrumental Methods Woodwinds II Credits: (1)
- MUS 254E Class Instrumental Methods Brass II Credits: (1)
- MUS 323 Choral Music Education Credits: (3)
- MUS 325 Instrumental Music Education Credits: (3)
- MUS 329 General Music Methods Credits: (3)

Total Music Credits: 97

#### Music Education Major, Choral Music Specialization, BM

All students majoring in music education will be reviewed and counseled by the Music Education Committee during each year of full-time enrollment. The purpose of these reviews is to assist the student in developing all the skills necessary to be an effective music educator. One year before student teaching, the student's accomplishments are reviewed by the entire music faculty. In order to receive an endorsement to student teach, the student must receive a satisfactory evaluation in all areas of music study. All music education majors must pass the required piano proficiency examination prior to endorsement for student teaching. Students taking this major must apply for admission into the Teacher Certification Program with the education foundations and curriculum department and are required to complete the Professional Education Program requirements offered through the education foundations and curriculum department.

This major satisfies the endorsements for Music-General and Music-Instrumental, K-12. To qualify for student teaching, the following courses must be completed: MUS 325, MUS 329, MU 341, and MUS 342.

BM Music Education Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 Credits: (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

#### Ensembles - Credits: 22

Only the following are designated as large ensembles: MUS 267-467 (Choir), MUS 268-468 (Chamber Choir), MUS 266-466 (Wind Ensemble), MUS 277-477 (Orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (Symphonic Band).

Applied Music - Credits: 11

Individual Instruction - Credits (11) MUS 164, 264, and 364 (at least 2 credits of 364 are required)

MUS 300 - Recital Performance Credits: (1)
 (Must be concurrently enrolled in 364)

Upper-division Music Theory - Credits: 3

MUS 422 - Orchestration Credits: (3)
 OR Choral Music Specialization may take MUS 340 - Form and Analysis (3)

Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 78

Required Courses Credits: 13

- MUS 240 Diction in Singers I (Intro to IPA, Italian, Latin, English) Credits: (2)
- MUS 241 Diction for Singers 2 (Advanced IPA and German) Credits: (2) OR MUS 242 Diction for Singers 3 (Advanced IPA and German) Credits: (2)
- MUS 323 Choral Music Education Credits: (3)
- MUS 329 General Music Methods Credits: (3)
- MUS 425B Pedagogy, Vocal Credits: (3)

Total Credits: 91

#### Music Education Major, Instrumental Music Specialization, BM

All students majoring in music education will be reviewed and counseled by the Music Education Committee during each year of full-time enrollment. The purpose of these reviews is to assist the student in developing all the skills necessary to be an effective music educator. One year before student teaching, the student's accomplishments are reviewed by the entire music faculty. In order to receive an endorsement to student teach, the student must receive a satisfactory evaluation in all areas of music study. All music education majors must pass the required piano proficiency examination prior to endorsement for student teaching. Students taking this major must apply for admission into the Teacher Certification Program with the education foundations and curriculum department and are required to complete the Professional Education Program requirements offered through the education foundations and curriculum department.

This major satisfies the endorsements for Music-General and Music-Instrumental, K-12. To qualify for student teaching, the following courses must be completed: MUS 325, MUS 329, MU 341, and MUS 342.

BM Music Education Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 Credits: (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Ensembles - Credits: 22

Only the following are designated as large ensembles: MUS 267-467 (Choir), MUS 268-468 (Chamber Choir), MUS 266-466 (Wind Ensemble), MUS 277-477 (Orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (Symphonic Band).

Applied Music - Credits: 11

Individual Instruction - Credits (11)

MUS 164, 264, and 364 (at least 2 credits of 364 are required)

MUS 300 - Recital Performance Credits: (1)
 (Must be concurrently enrolled in 364)

Upper-division Music Theory - Credits: 3

MUS 422 - Orchestration Credits: (3)
 OR Choral Music Specialization may take MUS 340 - Form and Analysis (3)

Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II **Credits:** (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 78

Required Courses Credits: 14

- MUS 253C Class Instrumental Methods Strings I Credits: (1)
- MUS 253D Class Instrumental Methods Woodwinds I Credits: (1)
- MUS 253E Class Instrumental Methods Brass I Credits: (1)
- MUS 254B Class Vocal Methods Credits: (1)

- MUS 254C Class Instrumental Methods Strings II Credits: (1)
- MUS 254D Class Instrumental Methods Woodwinds II Credits: (1)
- MUS 254E Class Instrumental Methods Brass II **Credits:** (1)
- MUS 325 Instrumental Music Education Credits: (3)
- MUS 329 General Music Methods Credits: (3)

Total Credits: 92

#### Music Keyboard Performance Major, BM

Student advancement through performance levels (164-464) is determined by jury examination.

BM Performance Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 Credits: (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Applied Music - Credits: 29

#### Individual Instruction

- MUS 164 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 264 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 300 Recital Performance Credits: (1) (Must be concurrently enrolled in 364)
- MUS 364 Major-applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 400 Recital Performance Credits: (1) (Must be concurrently enrolled in 464)
- MUS 464 Major Applied Area (Individual Instruction) Credits: (3) (Must be taken for 9 credits)

Upper-division Music Theory - Credits: 3

• MUS 340 - Form and Analysis **Credits:** (3)

#### Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 73

Required Courses

Ensembles - Credits: 21

Large Ensembles (6-12)

Only the following are designated as large ensembles: MUS 266-466 (wind ensemble), MUS 268-468 (chamber choir), MUS 277-477 (orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (symphonic band). Note: All ensemble courses have 200-level and 400-level numbers. The 200-level numbers are freshmen and sophomores, the 400-level numbers are used by juniors and seniors.

Chamber Ensembles (9-15)

Upper-division Music Theory - Credits: 6

- MUS 343 Counterpoint I Credits: (3)
- MUS 422 Orchestration Credits: (3)

Additional Courses - Credits: 21

- Music Electives Credits: (7)
- MUS 292 Accompanying Practicum Credits: (1-3)
   Must be taken for 4 credits
- MUS 425A Pedagogy (Studio Piano) Credits: (3)
- MUS 426A Literature (Studio Piano) Credits: (3)
- MUS 492 Accompanying Practicum Credits: (1-3)
   Must be taken for 4 credits

Total Credits: 118

#### Music Percussion/Wind/String Performance Major, BM

Student advancement through performance levels (164-464) is determined by jury examination.

BM Performance Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 Credits: (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 **Credits:** (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

#### Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

#### Applied Music - Credits: 29

#### Individual Instruction

- MUS 164 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 264 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 300 Recital Performance Credits: (1) (Must be concurrently enrolled in 364)
- MUS 364 Major-applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 400 Recital Performance Credits: (1) (Must be concurrently enrolled in 464)
- MUS 464 Major Applied Area (Individual Instruction) Credits: (3) (Must be taken for 9 credits)

#### Upper-division Music Theory - Credits: 3

• MUS 340 - Form and Analysis Credits: (3)

#### Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

#### Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)
- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

#### Total Core Credits: 73

#### Required Courses

#### Upper-division Music Theory - Credits: 3

• MUS 422 - Orchestration Credits: (3)

#### Additional Courses Credits: 12

- Music Electives Credits: (6)
- MUS 425 Pedagogy (Studio) Credits: (3)
  - C, D, E, or G, Pedagogy (Studio)
  - (G) In appropriate performance area: C=string, D=woodwinds, E=brass, G=percussion.
- MUS 426 Literature (Studio) Credits: (3)
  - C, D, E, or G, Literature (Studio)
  - In appropriate performance area: C=string, D=woodwinds, E=brass, G=percussion.

#### Ensembles - Credits: 30

#### Large Ensemble (20-24)

Only the following are designated as large ensembles: MUS 267-467 (choir), MUS 268-468 (chamber choir), MUS 266-466 (wind ensemble), MUS 277-477 (orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (symphonic band).

#### Chamber Ensemble (6-10)

Total Credits: 118

#### Music Vocal Performance Major, BM

Student advancement through performance levels (164-464) is determined by jury examination. Prior to completion of the bachelor's degree, vocal performance majors must:

- 1. Demonstrate the ability to translate musical texts in French and German
- 2. Demonstrate competency in French or German equal to the successful completion of French 153 or German 153.

#### BM Performance Core Requirements

Music Theory - Credits: 21

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 **Credits:** (3)
- MUS 145A Aural Skills 2 Credits: (1)
- MUS 146 Theory 3 Credits: (3)
- MUS 146A Aural Skills 3 Credits: (1)
- MUS 244 Theory 4 Credits: (3)
- MUS 245 Theory 5 **Credits:** (3)
- MUS 246 Theory 6 **Credits:** (3)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Applied Music - Credits: 29

#### Individual Instruction

- MUS 164 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 264 Major Applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 300 Recital Performance Credits: (1) (Must be concurrently enrolled in 364)
- MUS 364 Major-applied Area (Individual Instruction) Credits: (1-2) (Must be taken for 6 credits)
- MUS 400 Recital Performance Credits: (1) (Must be concurrently enrolled in 464)
- MUS 464 Major Applied Area (Individual Instruction) Credits: (3) (Must be taken for 9 credits)

Upper-division Music Theory - Credits: 3

• MUS 340 - Form and Analysis Credits: (3)

#### Conducting - Credits: 6

- MUS 341 Conducting I Credits: (3)
- MUS 342 Conducting II Credits: (3)

#### Music History - Credits: 11

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2)
- MUS 372 Music History 1 Credits: (3)

- MUS 373 Music History 2 Credits: (3)
- MUS 374 Music History 3 Credits: (3)

Total Core Credits: 73

Additional Required Courses

Ensemble - Credits: 30

Large Ensemble (20-24)

Only the following are designated as large ensembles: MUS 267-467 (choir), MUS 268-468 (chamber choir), MUS 266-466 (wind ensemble), MUS 277-477 (orchestra), MUS 287-487 (marching and concert band-fall quarter only), and MUS 288-488 (symphonic band).

Chamber Ensemble (6-10)

Additional Courses - Credits: 13-17

- Music electives Credits (0-2)
- MUS 240 Diction in Singers I (Intro to IPA, Italian, Latin, English) Credits: (2)
- MUS 241 Diction for Singers 2 (Advanced IPA and German) Credits: (2)
- MUS 242 Diction for Singers 3 (Advanced IPA and French) Credits: (2)
- MUS 425B Pedagogy, Vocal Credits: (3)
- MUS 462 Opera Production Credits: (1-3)

Total Credits: 118

#### **Music Minor**

Required Courses

Ensembles - Credits: 6

• Large ensemble or chamber ensemble - Credits: (6)

Applied Music - Credits: 3

• Individual Instruction - Credits: (3) (MUS 164 or MUS 264)

Class Piano - Credits: 3

A waiver of this requirement can be obtained by demonstrating sufficient keyboard skills to designated piano faculty members.

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III Credits: (1)

Music Theory - Credits: 12

Students must pass an online fundamental exam with 75% (\$10 fee) or take and pass (75%) an online fundamental course (\$99 fee) to enroll in MUS144. Students must take a placement exam to waive any of the following courses. Concurrent enrollment of the following is required: (MUS 144, 144A, 152A), (MUS 145, 145A, 153A), and (MUS 146, 146A, 154A). A grade of C or better is required in both the written and aural components to continue in the theory sequence.

- MUS 144 Theory 1 **Credits:** (3)
- MUS 144A Aural Skills 1 Credits: (1)
- MUS 145 Theory 2 Credits: (3)
- MUS 145A Aural Skills 2 Credits: (1)

- MUS 146 Theory 3 **Credits:** (3)
- MUS 146A Aural Skills 3 Credits: (1)

Additional Required Courses - Credits: 2-3

- MUS 359 Survey of Music in Cross-cultural Perspectives Credits: (2) OR
- MUS 379 Philosophy of Music Credits: (3)

Music Electives - Credits: 6

Total Credits: 32-33

#### Non-profit Organization Administration Minor (MUS)

The minor in non-profit organization administration is an interdisciplinary minor designed to provide an understanding of the organization, financing and management issues in non-profit organizations. It is designed to complement majors in artistic, advocacy and educational endeavors. The minor provides practical, hands-on skills as well as discussion of the issues facing non-profit organizations.

Non-profit Organization Administration Minor

Required Courses: Credits (13)

- ACCT 301 Financial Accounting Analysis **Credits:** (5)
- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 427 Grant Writing and Fundraising Credits: (4)

Select 12 credits from the following electives:

- ANTH 360 Introduction to Museum Studies Credits: (4)
- ANTH 361 Museum Exhibit Design Credits: (4)
- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 270 Introduction to Public Relations Credits: (4)
- COM 315 Studies in Communication Credits: (1)
- COM 348 Publication Design Credits: (4)
- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 365 Organizational Communication Credits: (4)
- COM 370 Writing for Public Relations Credits: (4)
- COM 371 Event Planning and Management Credits: (4)
- COM 375 Interviewing Principles and Techniques Credits: (4)
- COM 487 Advanced Public Relations Seminar Credits: (4)
- COM 492 Communication Practicum Credits: (2)
- TH 350 Theatre Management Credits: (3)
- TH 351 Theatre Management Credits: (3)
- TH 360 Stage Management Credits: (3)

Choose one from the following: Credits (5)

- ANTH 490 Cooperative Education Credits: (1-12)
- ART 490 Cooperative Education Credits: (1-12)
- COM 490 Cooperative Education Credits: (1-12)
- MUS 490 Cooperative Education Credits: (1-12)
- TH 490 Cooperative Education Credits: (1-12)

Total Credits: 30

#### **Music Courses**

Performance activities are designated by the following code:

- A. Piano
- B. Voice
- C. Strings
- D. Woodwinds
- E. Brass
- F. Organ
- G. Percussion
- H. Guitar
- I. Recorder
- K. Harpsichord
- L. Mixed

#### MUS 101. History of Jazz (5).

America's only indigenous art form, late 1800s to present.
Emphasis on artists and cultural/ societal forces shaping music's evolution. Extensive listening, reading; required attendance of performances. AH-Aesthetic Experience

#### MUS 102. Introduction to Music

(5). Fundamental musical concepts (melody, harmony, rhythm, form, etc.) through illustrations of the instrumental and vocal music of major composers from the earliest period through the present day. AH-Aesthetic Experience

# MUS 103. History of Rock and Roll (5). America's second indigenous musical art form, after jazz, 1950's to present. Emphasis on artists and cultural/ societal forces shaping music's evolution. Extensive listening, reading; required online discussion. Minimum technology requirements for

online course.

MUS 104. Introduction to Musical Studies (3). Attitudes and concepts relevant to the music profession. Listening repertoire and reference materials.

Designed for entering music majors. BAS1 Basic Skills A - GenEd Colloq

## MUS 120. Composition 1 (3). Introduction to composition

addressing such topics as phrase structure, melodic development, modulations, textures, and transitions. Small compositional projects emphasizing certain stylistic traits for piano and other genres. Prerequisites: MUS 145 and MUS 145A with a C or

higher. May be repeated up to 3 credits.

#### MUS 143. Introduction to Music

Theory (3). Introduction of fundamental music theory: scales, keys, meter, and rhythm, triads, ear-training, and keyboard fundamentals. Course is designed for non-majors seeking basic musical skills, and for music majors with limited theoretical backgrounds. Does not count toward a music degree.

MUS 144. Theory 1 (3). Basic theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, and rhythm. This course is the first in the six-course harmony sequence. Courses must be taken in sequence. Prerequisite: online fundamental exam with 75% or higher, or successful completion of the online fundamental course. Corequisite: MUS 152A.

MUS 144A. Aural Skills 1 (1). Basic fundamental concepts of common-practice period melody, harmony, and rhythm through ear training, sight-singing, dictation, rhythm, and basic keyboard applications. This course is the first in the three quarter, first year aural skills sequence. Courses must be taken in sequence. Prerequisite: online fundamental exam with 75% or higher, or successful completion of the online fundamental course. Co-requisite: MUS 152A.

MUS 145. Theory 2 (3). Basic theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, rhythm, and voice leading as demonstrated through analytical and compositional perspectives. This course is the second in the six-course harmony sequence. Courses must be taken in sequence. Prerequisites: MUS 144 and MUS 144A with grades of C or higher. Co-requisite: MUS 145A and MUS 152A or MUS 153A

MUS 145A. Aural Skills 2 (1). Basic fundamental concepts of common-practice period melody, harmony, and rhythm through ear training, sight-singing,

dictation, rhythm, and basic keyboard applications. This course is the second in the three quarter, first year aural skills sequence. Courses must be taken in sequence. Prerequisites: MUS 144 and MUS 144A with grades of C or higher. Co-requisite: MUS 145A and MUS 152A or MUS 153A.

MUS 146. Theory 3 (3). Basic theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, rhythm, and voice leading as demonstrated through analytical and compositional perspectives. This course is the third in the six-course harmony sequence. Courses must be taken in sequence. Prerequisite: MUS 145 and MUS 145A with grades of C or higher. Co-requisite: MUS 146A and MUS 154A or MUS 153A or MUS 154A.

MUS 146A. Aural Skills 3 (1). Basic fundamental concepts of common-practice period melody, harmony, and rhythm through ear training, sight-singing, dictation, rhythm, and basic keyboard applications. This course is the third in the three quarter, first year aural skills sequence. Courses must be taken in sequence. Prerequisite: MUS 145 and MUS 145A with grades of C or higher. Co-requisite: MUS 146A and MUS 154A or MUS 153A or MUS 154A.

MUS 152A. Class Piano I (1).
Group instruction providing beginning skills to prepare for the piano proficiency requirement and to reinforce music theory concepts. Co-requisites: MUS 144 and MUS 144A. Grade will either be S or U.

#### MUS 153A. Class Piano II (1).

Group instruction providing beginning/ intermediate skills to prepare for the piano proficiency requirement and to reinforce music theory concepts.

Prerequisite: MUS 152A. Grade will either be S or U.

MUS 154. Class Instruction (1).

Each course prerequisite to the next numeral (A.) Piano I, II, III; (B.) Voice I, II; (H.) Guitar I, II.

May be repeated for credit.

#### MUS 154A. Class Piano III (1).

Group instruction providing intermediate skills to prepare for the piano proficiency requirement and to reinforce music theory concepts.

Prerequisite: MUS 153A. May be repeated up to 3 credits. Grade will either be S or U.

MUS 154B. Class Voice for the **Non-major** (1). This course is designed for the non-major beginning voice student. Through group instruction the fundamentals of proper vocal production will be introduced and practiced; concepts of breathing, resonance and articulation. Students will prepare group songs and individual solos by the end of the quarter. Prerequisite: each course prerequisite to the next numeral (A.) Piano I, II, III; (B.) Voice I, II; (H.) Guitar I, II. May be repeated for credit.

#### MUS 164. Major Applied Area (Individual Instruction) (1-2). Instruction available in performance areas A-H and K. May be repeated for credit. Department Consent Required

## MUS 171. Secondary Applied Area (Individual Instruction) (1).

Private study on instruments secondary to a student's major performance area. Intended particularly for beginning students who wish to develop additional skills on an instrument or in voice to enrich their total music background. Instruction available in performance areas A-I and K. One credit any quarter, may be repeated. May be repeated for credit.

MUS 171A. Secondary Applied Area Piano (1). Private study on instruments secondary to a student's major performance area. Intended particularly for beginning students who wish to develop additional skills on an instrument or in voice to enrich their total music background. One credit any quarter, may be repeated. May be repeated for credit. By permission.

MUS 198. Special Topics (1-6). MUS 210. Vocal Jazz Choir (1). Must attend all scheduled rehearsals and performances. An ensemble specializing in performance of repertoire from jazz choir tradition established in the Northwest and beyond. Limited to SATB singers and rhythm-section instruments. Prerequisite: student must be freshmen or sophomore standing. May be repeated for credit.

#### MUS 211. Women's Choir (1).

Prerequisite: student must be freshmen or sophomore standing. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit.

#### MUS 213. Flute Choir (1).

Prerequisite: students must be freshmen or sophomore standing. Previous experience in flute performance and permission of instructor. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit.

#### MUS 214. Brass Choir (1).

Prerequisite: student must be freshmen or sophomore standing. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit.

#### MUS 215. Chamber Orchestra (1).

Prerequisites: student must be freshmen or sophomore standing. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit. By permission.

#### MUS 217. Chamber Music

Ensemble (1). One hour coaching plus two hours of rehearsal per week plus all scheduled rehearsals and performances. Instruction available in performance areas A,C-I and L. By permission.

#### MUS 218. Jazz Combo (1).

Performance in jazz combos in various configurations.
Prerequisite: student must be freshmen or sophomore standing.
May be repeated for credit.

#### MUS 220. Composition 2 (2).

Intermediate study in composition. Prerequisite: 3 credits of MUS 120. May be repeated up to 6 credits.

MUS 225. Foundations of Music Education (3). Provides basis for

combining musical, teaching, and methodological knowledge to create effective learning experiences as an instructional leader. Prerequisite: MUS 146 with a grade of C or higher.

#### MUS 228. Men's Choir (1).

Prerequisites: student must be freshmen or sophomore standing. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit.

#### MUS 229. Percussion Ensemble (1).

Prerequisite: student must be freshmen or sophomore standing. Two hours of rehearsal per week plus all scheduled rehearsals and performances. May be repeated for credit.

#### MUS 232. Big Band (1).

Prerequisites: student must be freshmen or sophomore standing. Must attend all scheduled rehearsals and performances. MUS 432 for juniors and seniors. May be repeated for credit. By permission.

#### MUS 235. Laboratory Choir (1).

Two hours of rehearsal per week plus all scheduled rehearsals and performances. Open to all students to participate as singers. May be repeated for credit. By permission.

## MUS 240. Diction in Singers I (Intro to IPA, Italian, Latin,

English) (2). A fundamental course to teach the singer and choral director the International Phonetic Alphabet symbols, the correct execution of Italian, Latin, and English sounds, and the basic pronunciation rules of the three languages.

## MUS 241. Diction for Singers 2 (Advanced IPA and German) (2).

A course designed to teach the singer and choral director the International Phonetic Alphabet symbols as specifically applied to the German languages, the correct execution of German sounds, and the basic pronunciation rules of German. Prerequisite: MUS 240.

## MUS 242. Diction for Singers 3 (Advanced IPA and French) (2).

A course designed to teach the singer and choral director the International Phonetic Alphabet symbols as specifically applied to the French language, the correct execution of French sounds and the basic pronunciation rules of French. Prerequisite: MUS 240.

#### MUS 244. Theory 4 (3).

Intermediate theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, rhythm, and voice leading as demonstrated through analytical and compositional perspectives. This course integrates written topics and ear training, singing, dictation, rhythm, and practical keyboard applications. This is the fourth in the six-course harmony sequence. Courses must be taken in sequence. Prerequisites: MUS 146 and MUS 146A with grades of C or higher.

- MUS 245. Theory 5 (3). Advanced theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, rhythm, and voice leading as demonstrated through analytical and compositional perspectives. This course integrates written topics and ear training, singing, dictation, rhythm, and practical keyboard applications. This is the fifth in the six-course harmony sequence. Courses must be taken in sequence. Prerequisite: MUS 244 with a C or higher.
- MUS 246. Theory 6 (3). Advanced theoretical concepts dealing with fundamental elements of common-practice period melody, harmony, rhythm, and voice leading as demonstrated through analytical and compositional perspectives. This course integrates written topics and ear training, singing, dictation, rhythm, and practical keyboard applications. This is the sixth in the six-course harmony sequence. Courses must be taken in sequence. Prerequisite: MUS 245 with a C or higher.

#### MUS 252D. Class Instrumental Methods: Double Reeds (1).

Techniques and methods in applied instruction in music education. May be repeated for credit

MUS 253C. Class Instrumental Methods Strings I (1). Lower strings (cello and bass).

Techniques and methods in applied instruction for music education. May be repeated for credit.

#### MUS 253D. Class Instrumental Methods Woodwinds I (1). Lower woodwinds (single reeds). Techniques and methods in

applied instruction for music education. May be repeated for credit.

MUS 253E. Class Instrumental

Methods Brass I (1). Lower brass (trombone and tuba). Techniques and methods in applied instruction for music education. May be repeated for credit.

#### MUS 253G. Class Instrumental Methods Percussion I (1).

Techniques and methods in applied instruction for music education. May be repeated for

#### MUS 254B. Class Vocal Methods

(1). A course designed to teach the music education student the fundamentals of group vocal instruction: basic vocal anatomy and physiology, common approaches to vocal technique instruction, how to prepare songs in English and foreign languages, and beginning vocal performance strategies.

MUS 254C. Class Instrumental Methods Strings II (1). Upper strings (violin and viola). Techniques and methods in applied instruction for music education. May be repeated for credit.

#### MUS 254D. Class Instrumental Methods Woodwinds II (1).

Upper woodwinds (flute). Techniques and methods in applied instruction for music education. May be repeated for credit.

MUS 254E. Class Instrumental Methods Brass II (1). Upper brass (horn and trumpet). Techniques and methods in applied instruction for music education. May be repeated for

MUS 255. Keyboard Harmony and **Improvisation** (1). For instrumental, choral, and studio teachers providing practical/ working knowledge of keyboard harmony, chord voicing, bass line construction,

and improvisation in jazz and pop genres. Prerequisites: MUS 146 and MUS 154A.

MUS 261. Opera Workshop (1). A class leading to the performance of scenes and single acts from opera. Prerequisite: student must be freshmen or sophomore standing. May be repeated for credit. By permisson.

#### MUS 262. Opera Production (1-3).

A class leading to performance of a complete opera. Prerequisite: student must be freshman or sophomore standing. May be repeated up to 9 credits.

#### MUS 264. Major Applied Area (Individual Instruction) (1-2).

Instruction available in performance areas A-H and K. Prerequisite: MUS 164 (A-H, and K) in appropriated applied area. May be repeated for credit. Department Consent Required

#### MUS 266. Wind Ensemble (1-2).

Prerequisite: students must be freshmen or sophomore standing. Open to students with demonstrated proficiency on band instruments by audition or permission of the instructor. Five hours of rehearsal per week plus all scheduled rehearsals and performances. One credit if offered one term only during summer session. May be repeated for credit.

MUS 267. Choir (1-2). Prerequisite: student must be freshmen or sophomore standing. Open to all students by audition. Five hours rehearsal per week plus all scheduled rehearsals and performances. One credit if offered one term only during summer session. May be repeated for credit.

#### MUS 268. Chamber Choir (2).

Prerequisite: student must be freshmen or sophomore standing. Open to all students by audition. Three hours rehearsal per week plus all scheduled rehearsals and performances. May be repeated

#### MUS 271. Secondary Applied Area (Individual Instruction) (1).

Private study on instruments secondary to a student's major performance area. Intended particularly for intermediate students who wish to develop

additional skills on an instrument or in voice to enrich their total music background. Instruction available. One credit any quarter, may be repeated.

#### MUS 277. Orchestra (1-2).

Prerequisite: students must be freshmen or sophomore standing. Open to all students proficient on orchestral instruments by permission of director. Five hours of rehearsal per week plus all scheduled rehearsals and performances. One credit if offered one term only during summer session. May be repeated for credit.

MUS 287. Marching and Concert Band (2). Prerequisite: students must be freshmen or sophomore standing. Fall quarter only. Five hours of rehearsal per week plus all scheduled rehearsals and performances. This band functions as a marching band and is organized into a concert band at completion of the football season. May be repeated for credit.

#### MUS 288. Symphonic Band (2).

Prerequisite: students must be freshmen or sophomore standing. Winter and spring quarters only. Five hours of rehearsal per week plus scheduled rehearsals and performances. During winter and spring quarters the symphonic band will present several formal concert programs. May be repeated for credit.

#### MUS 292. Accompanying

Practicum (1-3). Prerequisite: students must be freshmen or sophomore standing. By assignment of instructor. Minimum three hours of rehearsal weekly per credit plus performances. May be repeated for credit.

MUS 296. Individual Study (1-6). MUS 298. Special Topics (1-6).

MUS 299. Seminar (1-5).

MUS 300. Recital Performance (1).

Recital performance required for completion of degrees requiring 364-level applied study.
Prerequisite: at least 1 credit of MUS 364 (any letter). Corequisite: MUS 364. Grade will either be S or U.

MUS 304. Introduction to Musical Studies for Transfer Students (2). 1. An introduction to the techniques of research in music;2. A brief survey of concepts in world music.

#### MUS 320. Composition 3 (2).

Advanced study in composition. Prerequisite: six units of MUS 220. May be repeated up to 6 credits.

## MUS 321. Administration and Assessment in Music Instruction

(3). Prepares students to advocate for, organize, and administer comprehensive music programs in schools; deliver and manage classroom music instruction; and assess student musical learning. Prerequisites: MUS 225 and MUS 264 (Applied Study).

#### MUS 323. Choral Music Education

(3). Philosophy, methods, and materials. Individual research and presentation of teaching unit in class. Prerequisite: MUS 341.

MUS 325. Instrumental Music Education (3). Philosophy and psychology of music education through methods and materials; observation of teachers in the rehearsal, individual research. Prerequisite: admission to the Teacher Certification Program.

#### MUS 326. Music in the Classroom

(3). For the general classroom teacher. (Not for music majors or minors.). Techniques used in helping children to develop musically through singing, rhythmic activities, creative activities, listening, and playing instruments. Prerequisite: admission to the Teacher Certification Program.

#### MUS 329. General Music Methods

(3). Materials, methods, and instructional techniques for general music, grades K-12. Prerequisites: MUS 146 and MUS 146A with grades of C or higher, and current WSP/FBI fingerprint clearance.

## MUS 330. Literature and Materials for General Music Teaching (2).

Covers instructional materials and resources for teaching general music in individual and group settings. Prerequisite: MUS 329.

## MUS 331. Literature and Materials for Choral Music Teaching (2).

Covers instructional materials and resources for teaching

choral/vocal music in individual and group settings. Prerequisites: MUS 323 and MUS 341.

## MUS 332. Literature and Materials for Instrumental Music

Teaching (2). Covers instructional materials and resources for teaching instrumental music in individual and group settings. Prerequisites: MUS 325 and MUS 341.

#### MUS 340. Form and Analysis (3). Analysis of the structure of tonal music from both a historical and

theoretical perspective. Prerequisite: MUS 246 with a grade of C or higher.

#### MUS 341. Conducting I (3).

Fundamental principles of baton techniques, practical experience in conducting. Prerequisite: MUS 146.

MUS 342. Conducting II (3). A continuation of MUS 341 and conducting literature of junior-senior high school performing groups. Prerequisite: MUS 341.

#### MUS 343. Counterpoint I (3).

Independent melodic line, harmonic background, motive structure, and two-point counterpoint as practiced by the composers of the 18th and 19th centuries. Written exercises and analysis. Prerequisite: MUS 244.

# MUS 344. Theory Review (3). A complete review of traditional harmony from rudiments of music through chromatic harmony. Prerequisite: MUS 246

#### MUS 346. Counterpoint II (3).

Three-voice counterpoint, imitation in three voices, the three-voice invention, and the trio sonata Prerequisite: MUS 343.

#### MUS 347. Electronic Music (2).

Study of contemporary technologies and techniques as used to compose music. Prerequisite: MUS 246. May be repeated for credit.

## MUS 348. Applications of Music Technology for the Professional

(3). A course exploring the applications of technology for the music educator, composer, and performer. Includes website design, software for teaching, notation, administration, public relations, recording technology, electronic instruments, and

electronic composition. Prerequisites: MUS 146 with a grade of C or higher and admission to a music major or minor.

#### MUS 353. Jazz Improvisation I (1).

Beginning basic jazz improvisation techniques for upper-division wind, percussion, guitar, acoustic bass, and keyboard instruments. Prerequisites: MUS 246 and MUS 255. May be repeated for credit.

#### MUS 354. Jazz Improvisation II (1).

Intermediate basic jazz improvisation techniques for upper-division wind, percussion, guitar, acoustic bass, and keyboard instruments.

Prerequisites: MUS 246, MUS 255, and MUS 353. May be repeated for credit.

#### MUS 355. Jazz Improvisation III

(1). Advanced basic jazz improvisational techniques for upper-division wind instruments, percussion, guitar, acoustic bass, and keyboard instruments. Prerequisite: MUS 354. May be repeated for up to 2 credits.

MUS 356. Jazz Styles (3). A survey of jazz history with regard to evolution of jazz styles. Course activities include analysis, transcription, guided listening, imitative composition, research and essay writing. Prerequisite: MUS 246.

MUS 357. Jazz Composition and Arranging (3). Development of skills in songwriting, melody and chord progression, construction, and arranging in the jazz idiom through student projects and score analysis. Prerequisites: MUS 246 and MUS 255.

## MUS 359. Survey of Music in Cross-cultural Perspectives (2).

An introduction to ethnomusicology: the cultural context of music with emphasis on Africa, Asia, Native North and South America, Oceania. ANTH 359 and MUS 359 are equivalent courses; students may not receive credit for both.

## MUS 364. Major-applied Area (Individual Instruction) (1-2).

Instruction available in performance areas A-H and K. Prerequisite: MUS 264 (A-H, and

K) in appropriated applied area. May be repeated for credit.

## MUS 366. Applied Jazz (Individual Instruction) (1).

Private study on instruments secondary to a student's major performance area. Intended particularly for advanced students who wish to develop additional skills on an instrument or in voice to enrich their total music background. Instruction available in performance areas A-E, G and H. Prerequisites: at least two quarters at the MUS 264 level and admission to the BA music jazz specialization. One credit any quarter, may be repeated.

MUS 370. Applied Area
(Individual Instruction:
Secondary or Major
Supplementary) (1). Private
study in area secondary to major
performance area, or
supplemental instruction in
major performance area.
Intended for advanced students
who wish to develop additional
performance skills to enrich their
total music background. May be
repeated for credit. By
permission.

MUS 372. Music History 1 (3). Study of music history. The first in a three-quarter sequence. Prerequisites: MUS 146 with a C or higher, and MUS 154A.

MUS 373. Music History 2 (3). A study of music history. The second of a three-quarter sequence. Prerequisites: MUS 244 and MUS 372.

MUS 374. Music History 3 (3). A study of music history. The third of a three-quarter sequence. Prerequisites: MUS 245 and MUS 373

MUS 379. Philosophy of Music (3). Great music as a source of insights into human beings and the world. MUS 379 and PHIL 379 are equivalent courses;

students may not receive credit for both.

#### MUS 380. Music History Review

(3). A review of the material presented in the required undergraduate music history sequence. Specifically intended for graduate students. The final exam will be equivalent to the graduate music history

diagnostic examination. May not be used to satisfy upper-division undergraduate or graduate degree requirements. Required for graduate students not passing Music History diagnostic test. Grade will either be S or U.

MUS 382. Survey of Chamber Music (3). Prerequisite: MUS 372.

MUS 383. Survey of Symphonic Music (3). Prerequisite: MUS 372.

MUS 384. Survey of Choral Music (3). Prerequisite: MUS 372.

MUS 385. Survey of Opera (3). Prerequisite: MUS 372.

MUS 386. Survey of 20th-century Music (3). Prerequisite: MUS 372.

MUS 398. Special Topics (1-6).

MUS 400. Recital Performance (1).

Recital performance required for the completion of degrees requiring MUS 464-level applied study. Prerequisite: 3 credits of any MUS 464. Co-requisite: any MUS 464. Grade will either be S or U.

MUS 410. Vocal Jazz Choir (1). An ensemble specializing in performance of repertoire from jazz choir tradition established in the Northwest and beyond. Prerequisite: junior standing or above. Must attend all scheduled rehearsals and performances. For juniors and seniors. Limited to SATB singers and rhythm section instruments. May be repeated for credit.

## MUS 411. Women's Choir (1). Prerequisite: junior standing or above. May be repeated for credit.

MUS 413. Flute Choir (1). Previous experience in flute performance and permission of instructor.

Two hours of rehearsal per week plus all scheduled rehearsals and performances. Prerequisite: junior standing or above. May be repeated for credit.

#### MUS 414. Brass Choir (1).

Prerequisite: junior standing or above. See MUS 214 for description. May be repeated for credit.

MUS 415. Chamber Orchestra (1).

Prerequisite: junior standing or above. See MUS 215 for description. May be repeated for credit.

MUS 417. Chamber Music Ensemble (1). Prerequisite:

permission of instructor. One hour coaching plus two hours rehearsal per week plus all scheduled rehearsals and performances. Instruction available in performance areas A, C-F. H and L.

#### MUS 418. Jazz Combo (1).

Prerequisite: junior standing or above. Performance in jazz combos in various configurations. May be repeated for credit.

#### MUS 420. Composition 4 (3). Prerequisite: 6 credits of MUS 320. May be repeated up to 9 credits.

#### MUS 422. Orchestration (3). Instrumentation. Prerequisites: MUS 246 with a grade of C or higher and MUS 372. May be repeated for credit.

#### MUS 423. Advanced Orchestration (3). Study of various scores and treatises. Individual projects. Prerequisite: MUS 422A.

#### MUS 424. Jazz Music Education (3). Course is designed to give music educators the tools and knowledge to direct a jazz program in a public school setting. Prerequisite: admission to the Teacher Certification Program.

#### MUS 425. Pedagogy (Studio) (3). Teaching methods and materials. Instruction available in performance areas A-E,G,and H. By permission.

- MUS 425A. Pedagogy (Studio Piano) (3). Teaching methods and materials. By permission.
- MUS 425B. Pedagogy, Vocal (3). Teaching methods and materials. By permission.
- MUS 425H. Pedagogy (Studio Guitar) (3). Teaching methods and materials. By permission.

#### MUS 426. Literature (Studio) (3). Literature related to the specific applied area for teaching and performance purposes. Instruction available in performance areas A-E, and G. By permission.

#### MUS 426A. Literature (Studio **Piano**) (3). Literature related to the specific applied area for teaching and performance purposes. By permission.

MUS 426H. Literature (Studio Guitar) (3). Literature related to the specific applied area for teaching and performance purposes. By permission.

#### MUS 428. Men's Choir (1). Prerequisite: junior standing or

above. May be repeated for credit. MUS 429. Percussion Ensemble (1).

#### Prerequisite: junior standing or above. See MUS 229 for description. May be repeated for

credit.

#### MUS 432. Big Band (1).

Prerequisite: junior standing or above. Must attend all scheduled rehearsals and performances. MUS 232 for freshmen and sophomores. May be repeated for credit.

MUS 435. Laboratory Choir (1). See MUS 235 for description. May be repeated for credit.

#### MUS 440. Analytical Techniques II

(3). Emphasis on 20th century music, including contemporary extrapolations from Schenker's methods, pitch class, and parametric analysis techniques. Prerequisite: MUS 340.

#### MUS 461. Opera Workshop (1-2).

A class leading to the performance of scenes or single acts from opera. Prerequisites: junior standing or above. May be repeated for credit. By permission.

#### MUS 462. Opera Production (1-3).

A class leading to performance of a complete opera. MUS 462 and MUS 562 are layered courses; students not receive credit for both. Prerequisite: junior standing for above. May be repeated for credit.

#### MUS 464. Major Applied Area (Individual Instruction) (3).

Instruction available in performance areas A-H and K. Prerequisite: MUS 364 A-E, G, H, and L. Additional fee's required. Lessons available in applied areas. May be repeated for credit.

#### MUS 466. Wind Ensemble (1-2).

Prerequisites: junior standing or above. See MUS 266 for description. One credit if offered one term only during summer session. May be repeated for credit. By permission.

MUS 467. Choir (1-2). Prerequisite: junior standing or above. Open to all students by audition. Five

hours rehearsal per week plus all scheduled rehearsals and performances. One credit if offered one term only during summer session. May be repeated for credit.

#### MUS 468. Chamber Choir (2).

Prerequisite: junior standing or above. See MUS 268 for complete description. May be repeated for credit.

#### MUS 477. Orchestra (1-2).

Prerequisite: junior standing or above. Open to all students proficient on orchestral instruments by permission of director. Five hours of rehearsal per week plus all scheduled rehearsals and performances. One credit if offered one term only during summer session. May be repeated for credit.

#### MUS 480. Reed Making for **Double Reed Instruments** (1).

#### MUS 485. Choral Arranging (3).

Course will focus skills needed to write and arrange music junior and senior high school vocal ensembles.

#### MUS 486. Jazz Band Arranging (3).

Orchestration/ arranging techniques in the jazz band idiom, including writing for smaller jazz ensembles, specialized instrumentation, and the big band. Especially useful for music educators. Prerequisites: MUS 246 and MUS

## MUS 487. Marching and Concert

Band (2). Prerequisite: junior standing or above. Fall quarter only. May be repeated for credit.

#### MUS 488. Symphonic Band (2).

Prerequisite: junior standing or above. Winter and spring quarters only. See MUS 288 for description. May be repeated for credit.

#### MUS 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

MUS 491. Workshop or Clinic (1-

MUS 492. Accompanying

**Practicum** (1-3). Prerequisite: junior standing or above. By assignment of instructor.

Minimum of three hours of

rehearsal weekly per credit plus performances. May be repeated for credit.

MUS 495. Senior Project (2).

Students are required, as a senior project, to present a recital,

composition, or piece of research. May be repeated for credit. MUS 496. Individual Study (1-6). MUS 498. Special Topics (1-6). MUS 499. Seminar (1-5).

#### **Nutrition Exercise and Health Sciences Department**

College of Education and Professional Studies Ellensburg Dorothy Purser Hall., room 101 509-963-1912

Fax: 509-963-1848

www.cwu.edu/health-science

See website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

Chair

Vincent M. Nethery, PhD

#### **Clinical Physiology Director**

Timothy R. Burnham, PhD

#### **Emergency Medical Services- Paramedicine Director**

Keith A. Monosky, PhD

#### **Exercise Science Director**

Timothy R. Burnham, PhD

#### Food and Nutrition Sciences Director

David L. Gee, PhD

#### **Professors**

Ethan R. Bergman, PhD, RD, dietetics, sports nutrition
Leonardo J. D'Acquisto, EdD, sport physiology, kinesiology, human anatomy
David L. Gee, PhD, nutrition & metabolism, nutrition and chronic diseases, sports nutrition
Vincent M. Nethery, PhD, clinical physiology, sport physiology, environmental physiology, human anatomy

#### **Associate Professors**

Timothy R. Burnham, PhD, clinical physiology, sport physiology, human anatomy Linda Cashman, MS, RD, dietetics Susan Hawk, PhD, RD, dietetics, clinical nutrition

Keith A. Monosky, PhD, MPM, EMT-P, emergency medical services, emergency services management, health policy Charilaos Papadopoulos, PhD, clinical physiology, sport physiology, physical activity interventions

#### **Assistant Professors**

Virginia Bennett, PhD, RD, cultural nutrition, developmental nutrition Michael Everett, PhD, EMT-P, emergency medical services Kelly Pritchett, PhD, RD, sports nutrition, clinical nutrition, eating disorders Robert Pritchett, PhD, sport physiology, environmental physiology Tracy Watkins, MBA, CHE, food service management

#### Lecturers

Susan Brunner, MS, AT-C, athletic training-sports medicine, exercise physiology, human anatomy Abigial Larson, PhD, RD, clinical physiology, exercise physiology, clinical and sport nutrition James Pierce, EMT-P, emergency medical services Danielle Szabo, ND, human anatomy, human physiology, nutrition

#### Staff

Rhonda Busch-Gehlen, assistant to the chair

Bryan Contreras, MS, instructional classroom support technician-clinical physiology and exercise science

Lucinda Engel, instructional classroom support technician - food science

Edith Fowler, office manager

Lori Hauser, office assistant, EMS-Paramedicine

#### **Department Information**

The Department of Nutrition, Exercise, and Health Sciences prepares students in a variety of professions that focus on the physical and functional abilities of humans. Human functioning is the overriding theme of all curricula offerings. In addition to didactic aspects, many classes provide experiential learning through structured laboratories, practicums, and internships. All programs provide opportunities to interact with faculty and to participate in both undergraduate and graduate research.

#### NEHS offers the following undergraduate degrees:

Bachelor of Science: Clinical Physiology Bachelor of Science: Exercise Science

Bachelor of Science: FSN-Dietetics Specialization

Bachelor of Science: FSN-Nutrition Science Specialization Bachelor of Science: FSN-Foods and Nutrition Specialization Bachelor of Applied Science: Food Service Management

Bachelor of Science: Paramedics

#### NEHS offers the following supporting minors:

Exercise Science Athletic Training Nutrition

Food Service Management

#### NEHS offers the following certificate programs:

Paramedic

Emergency Medical Technician

Dietetic Internship (Accredited by the American Dietetic Association-Commission on Accreditation for Dietetic Education)

#### **NEHS offers the following graduate degrees** – (For details: See Graduate Studies and Research section:

Master of Science: Exercise Science Master of Science: Nutrition

#### **Admission Requirements**

To be admitted to a major or minor, all students must:

- Meet with an advisor in the specific program of interest. Because of the variety of options and the pre-admission requirements of programs, it is advisable to meet with an advisor early to plan the program schedule and to facilitate timely graduation.
- Complete specific pre-admission requirements (see individual programs).
- Complete and file a major application with the department office, signed by the academic advisor and the program director. Application forms can be obtained from the advisor or the department office.
- Complete and file with the department office, a program of study that lists the required and elective courses necessary for program completion. Course of study forms can be obtained from the academic advisor.

#### **Student Scholarly Activities:**

The department is student oriented and all programs provide a wide range of laboratory and field experiences as part of specific degree requirements and degree options. Students who engage early in optional learning experiences gain a better understanding of their profession, are more competitive in the job market, and increase their chances for gradu ate school admission.

#### **Student Organizations:**

Exercise Science Club: All EXSC students are required to join the EXSC Club. This student-run organization meets regularly to discuss academic planning and career opportunities, performs service activities, and plans recreational outings. Nutrition Science Club: The NSC provides opportunities for students to use their knowledge and skills in performing service activities, learn about career opportunities, discuss academic planning, and engage in recreational activities.

**EMT Club:** The EMT Club is a student organization that is purposed to provide basic life support services to on-campus activities as a means of first-line-response. The EMT Club is comprised of current students that are certified emergency

medical technicians. The EMT Club is supervised by a faculty member of the Paramedic Program and is provided the necessary emergency medical equipment and continuing education to provide essential emergency medical services.

#### Fees:

Additional fees are assessed for many of the department's laboratory and field experience courses. These fees are used to partially support materials purchased and transportation costs.

#### **Graduation Requirements**

- Satisfactory completion of all requirements of the university and of the specific degree program of study.
- Application for the bachelor's degree must be filed by the second Friday of the quarter preceding the quarter in which the degree is to be received. Instructions and deadlines are available through Registrar Services.

#### Food Service Management, BAS

The BAS food service management degree is designed for those who are interested in obtaining the skills for managing a food service located in establishments such as a restaurant, hotel, university dining, hospital, public school district, or resort facilities.

#### **Admission Requirements**

Prior to being admitted, the student entering the BAS Food Service Management Program will have:

- Taken at least 20 credits of general education basic skills courses, including IT 101 or equivalent course
- Taken course equivalencies to NUTR 101, NUTR 240, 240LAB, and ECON 201

Prior to graduation students must have completed a minimum of 1,000 hours of documented work experience in a food service setting which includes the approximately 500 hours completed in the NUTR 490 Cooperative Education experience. The documented work experience must be approved by the food service management advisor and the department chair.

#### Required Courses

- ADMG 385 Business Communications and Report Writing Credits: (5)
- ECON 201 Principles of Economics Micro Credits: (5)
- HRM 381 Management of Human Resources Credits: (5)
- MGT 380 Organizational Management Credits: (5)
- MKT 360 Principles of Marketing Credits: (5)
- NUTR 101 Introduction to Human Nutrition Credits: (5)
- NUTR 240 Introduction to Foods Credits: (2)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)
- NUTR 342 Quantity Food Production and Service Credits: (4)
- NUTR 342LAB Quantity Food Production and Service Laboratory Credits: (1)
- NUTR 448 Food Service Systems Management Credits: (4)
- NUTR 490 Cooperative Education Credits: (1-12) (Must be taken for 12 credits)

Department-approved upper-division electives - Credits: 6

#### Choose from the following:

- ADMG 372 Leadership and Supervision Credits: (4)
- GWS 302 Fundamentals of Viticulture and Enology Credits: (4)
- GWS 303 Major Wine Regions of the World Credits: (4)
- GWS 304 Wine Marketing and Branding Credits: (4)
- GWS 406 Professional Wine Analysis Credits: (3)
- NUTR 340 Management of Food Resources Credits: (2)
- NUTR 340LAB Management of Food Resources Laboratory Credits: (1)
- NUTR 345 Developmental Nutrition Credits: (3)
- NUTR 349 Nutrition and Aging Credits: (3)
- NUTR 405 Hospitality Catering Credits: (3)
- NUTR 446 Sports Nutrition and Weight Control Credits: (3)
- NUTR 447 Nutrition and Society Credits: (3)
- RMT 330 Principles of Retailing Credits: (4)
- RMT 340 Principles of Selling Credits: (4)

#### Clinical Physiology Major, BS

#### **Program Director**

Timothy Burnham, PhD

#### **Faculty**

Susan Brunner, MS, AT-C
Timothy Burnham PhD
Bryan Contreras, MS
Leonardo D'Acquisto, EdD
David L. Gee, PhD
Abigail Larson, PhD, RD
Keith A. Monosky, PhD, MPM, EMT-P
Vincent Nethery, PhD
Charilaos Papadopoulos, PhD
Kelly Pritchett, PhD, RD
Robert Pritchett, PhD
Danielle Szabo, ND

The bachelor of science in clinical physiology prepares students to enter clinical areas of health and allied health care where exercise is an integral part of prophylactic and rehabilitative programs. Such areas include cardiopulmonary rehabilitation, specialized metabolic disorder clinics, athletic training/ sports medicine, and as exercise physiology assistants to physical therapists. Many clinical jobs require a master's degree and/ or additional certification. This degree also prepares students for eligibility to enter graduate school or specialized post-graduate certification programs in several areas including physical and occupational therapy, physical therapy assistant, physician assistant, athletic training, and master/ doctoral level studies in integrated human physiology, and exercise science. Additional courses may be required to satisfy all pre-requisites for admission eligibility to some graduate and professional programs.

#### Pre-admission Requirements

A grade of C+ or better is required for all pre-admission courses.

All pre-admission courses except EXSC 250 may satisfy general education requirements.

- BIOL 201 Human Physiology Credits: (5)
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1) OR
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)AND
- EXSC 350 Anatomical Kinesiology **Credits:** (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- MATH 130 Finite Mathematics Credits: (5)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

Pre-admission Total Credits: 25

#### Required Courses

- BIOL 355 Human Anatomy and Physiology Credits: (5)
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- CHEM 112 Introduction to Organic Chemistry Credits: (4)
- CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1) OR
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1) AND
- CHEM 113 Introduction to Biochemistry Credits: (4)
- CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1) OR
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1) AND
- EXSC 348 Prevention and Treatment of Athletic Injuries Credits: (4)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)

- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- EXSC 446 Sports Nutrition and Weight Control Credits: (3)
- EXSC 450 Physiology of Exercise **Credits:** (4)
- EXSC 450LAB Physiology of Exercise Laboratory **Credits:** (1)
- EXSC 455 Fitness Assessment and Exercise Prescription Credits: (4)
- EXSC 455LAB Fitness Assessment and Exercise Prescription Laboratory Credits: (1)
- EXSC 456 Administration of Programs for Special Populations Credits: (4)
- EXSC 490 Cooperative Education Credits: (1-12)
- EXSC 495B Practicum: Clinical Credits: (2)
- PSY 362 Introductory Statistics Credits: (5)

#### Required Courses Total Credits: 65

Choose from the following electives:

- BIOL 322 Introductory Microbiology Credits: (5)
- BIOL 323 Microbiology Credits: (5)
- EMS 443 Myocardial Disease and Basic Electrocardiography Credits: (4)
- EXSC 438 Therapeutic Exercise Credits: (3)
- EXSC 452 Advanced Athletic Training Credits: (3)
- EXSC 457 Exercise Adherence Strategies **Credits:** (3)
- NUTR 344 Medical Nutrition Therapy I Credits: (3)
- NUTR 433 Macronutrients Credits: (3)
- NUTR 444 Medical Nutrition Therapy II Credits: (3)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)
- PSY 449 Abnormal Psychology Credits: (4)
- PSY 478 Physiological Psychology **Credits:** (4)

Total Elective Credits: 20

Total Credits: 110

#### **Exercise Science Major, BS**

#### **Program Director**

Timothy Burnham, PhD

#### **Faculty**

Susan Brunner, MS, AT-C
Timothy Burnham PhD
Bryan Contreras, MS
Leonardo D'Acquisto, EdD
Abigail Larson, PhD, RD
Vincent Nethery, PhD
Charilaos Papadopoulos, PhD
Kelly Pritchett, PhD, RD
Robert Pritchett, PhD
Danielle Szabo, ND

The Exercise Science Program prepares student to enter career areas where exercise is an integral part of general health and human performance. Such areas include corporate health-wellness, private health-fitness clubs, diverse non-profit fitness-wellness agencies such as YMCA, and athletic performance including strength and conditioning.

#### **Admission Requirements**

Admission to the bachelor of science in exercise science is selective. For details on eligibility for admission, please see program components noted below, paying special attention to pre-admission requirements.

A "C" or better grade is required for all courses in major and minor programs.

#### Required Pre-admission Courses

- EMS 245 First Aid Credits: (3)
- EXSC 254 Foundations of Fitness Credits: (3)
- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)

#### Additional Required Courses

- COM 345 Business and Professional Speaking Credits: (4)
- EXSC 318 Aerobic Fitness Credits: (3)
- EXSC 348 Prevention and Treatment of Athletic Injuries Credits: (4)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)
- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- EXSC 360 Scientific Principles of Strength Training Credits: (4)
- EXSC 446 Sports Nutrition and Weight Control Credits: (3)
- EXSC 450 Physiology of Exercise **Credits:** (4)
- EXSC 450LAB Physiology of Exercise Laboratory Credits: (1)
- EXSC 455 Fitness Assessment and Exercise Prescription Credits: (4)
- EXSC 455LAB Fitness Assessment and Exercise Prescription Laboratory Credits: (1)
- EXSC 456 Administration of Programs for Special Populations Credits: (4)
- EXSC 457 Exercise Adherence Strategies Credits: (3)
- EXSC 461 Current Issues in Fitness and Exercise Science Credits: (2)
- EXSC 464 Management of Fitness Facilities and Programs Credits: (4)
- EXSC 490 Cooperative Education Credits: (1-12) Credits: (10-12)
- EXSC 495A Practicum: Fitness Centers/ Clubs Credits: (2) OR
- EXSC 495B Practicum: Clinical Credits: (2) OR
- EXSC 495C Practicum: Management Credits: (2)
- EXSC 495D Practicum: Laboratory Assessment Credits: (2)
- HED 324 Non-infectious Disease Credits: (4)
- IT 101 Computer Applications Credits: (3)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

Total Credits: 83-85

#### Food Science and Nutrition Major with Specialization, BS

#### **Program Director**

David Gee, PhD

#### **Faculty**

Susan Adams, MS, RD Virginia Bennett, PhD, RD Ethan Bergman, PhD, RD Linda Cashman, MS, RD David Gee, PhD Susan Hawk, PhD, RD Kelly Pritchett, PhD, RD

The bachelor of science in food science and nutrition prepares students for employment or advanced study in one of several professions in the broad area of foods and nutrition. To complete degree requirements, students must complete the required core courses listed below. Students must also complete courses listed in their chosen specialization (foods and nutrition, dietetics, nutrition science).

#### **Admission Requirements**

Students wishing to attain full admission to the BS in food science and nutrition major must meet the following requirements:

• Successful completion of NUTR 101, Introduction to Human Nutrition, NUTR 240, Introduction to Foods and NUTR 240LAB, Introduction to Foods Laboratory with a grade of B (3.0) or higher.

• Students must receive a grade of C (2.0) or higher in all of the other major courses.

In addition to the requirements listed above, students wishing to enter any of the food science and nutrition specializations must successfully complete CHEM 111, Introduction to Chemistry, CHEM 111LAB, Chemistry Laboratory or CHEM 181, General Chemistry I and CHEM 181LAB, General Chemistry Laboratory I, and MATH 100C, Intermediate Algebra, or their equivalents, before being admitted to the major. Students must consult with a major advisor for approval of the program specialization.

Students are highly encouraged to complete at least five credits of NUTR 490, Cooperative Education.

Food Science and Nutrition Core Requirements

- NUTR 101 Introduction to Human Nutrition Credits: (5)
- NUTR 240 Introduction to Foods Credits: (2)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)
- NUTR 344 Medical Nutrition Therapy I Credits: (3)
- NUTR 345 Developmental Nutrition Credits: (3)
- NUTR 446 Sports Nutrition and Weight Control Credits: (3)
- NUTR 447 Nutrition and Society Credits: (3)

#### Select either

- EDCS 312 Educational Statistics Credits: (4) OR
- PSY 362 Introductory Statistics Credits: (5)

Core Total Credits: 25-26

Select one of the following specializations:

#### Foods and Nutrition Specialization

The foods and nutrition specialization prepares students for a wide variety of careers in the food and nutrition industry including food processing companies (quality assurance and product development positions), food distributors, food brokerage companies, restaurant and institutional food service, pharmaceutical sales, and nutrition positions not requiring being a registered dietitian. It is highly recommended that students discuss possible minors with their academic advisor that would complement this specialization and enhance employment opportunities. Possible minors include food service management, exercise science, community health education, business, and administrative management. Students interested in applying to nursing programs following the completion of this degree are recommended to take BIOL 355 and BIOL 356, Human Anatomy and Physiology, instead of BIOL 201, Human Physiology and BIOL 220, Introductory Cell Biology, plus BIOL 322, Introductory Microbiology.

#### Required Courses

- FSN Core Requirements Credits: 25-26 (see above)
  - BIOL 201 Human Physiology Credits: (5)
  - CHEM 111 Introduction to Chemistry Credits: (4)
  - CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
  - CHEM 112 Introduction to Organic Chemistry Credits: (4)
  - CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1)
  - CHEM 113 Introduction to Biochemistry Credits: (4)
  - CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1)
  - NUTR 340 Management of Food Resources Credits: (2)
  - NUTR 340LAB Management of Food Resources Laboratory Credits: (1)
  - NUTR 342 Quantity Food Production and Service Credits: (4)
  - NUTR 342LAB Quantity Food Production and Service Laboratory Credits: (1)
  - NUTR 343 Foods and Nutrition Professionalism Credits: (1)
  - NUTR 347 Introduction to Nutrition Education Credits: (3)
  - NUTR 348 Nutrition Interview Credits: (1)
  - NUTR 349 Nutrition and Aging Credits: (3)
  - NUTR 433 Macronutrients Credits: (3)
  - NUTR 440 Experimental Foods **Credits:** (2)
  - NUTR 440LAB Experimental Foods Laboratory Credits: (1)
  - NUTR 445 Experimental Food Research Credits: (1)

- NUTR 445LAB Experimental Food Research Laboratory Credits: (1)
- NUTR 448 Food Service Systems Management Credits: (4)

Total Credits: 73-74

#### **Dietetics Specialization**

The dietetics specialization, plus three additional courses (PSY 101, ECON 101, and ANTH 130 or 357) fulfills the requirements of the American Dietetic Association for a Didactic Program in Dietetics (DPD). The DPD is currently accredited by the American Dietetic Association Commission on Accreditation for Dietetics Education (CADE, 120 South Riverside Plaza Ste. 2000, Chicago, IL 60606-6995, 312-899-0040, ext, 5400), a specialized accrediting body recognized by the Council on Postsecondary Accreditation and the United States Department of Education. Completion of this program qualifies the student to apply for admission to a CADE-accredited Supervised Practice Experience also known as a dietetic internship. Following this the student is eligible to sit for the registration examination. Passing the registration exam qualifies the graduate to become a registered dietitian (RD).

Total pre-specialization major requirements - Credits: 47-48

Prior to being admitted into the dietetics specialization, students shall apply to the BS in food science and nutrition major with a specialization in foods and nutrition and must then complete the following courses:

- FSN Core Requirements Credits: 25-26
- BIOL 201 Human Physiology **Credits:** (5)
- CHEM 111 Introduction to Chemistry Credits: (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
- CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1)
- CHEM 113 Introduction to Biochemistry Credits: (4)
- CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1)
- CHEM 112 Introduction to Organic Chemistry Credits: (4)
- NUTR 343 Foods and Nutrition Professionalism Credits: (1)
- NUTR 348 Nutrition Interview Credits: (1)

#### Additional Courses

In addition to successfully completing all of the pre-specialization courses, applicants to this specialization must have an overall GPA of at least 3.0 at the time of application and a GPA in all of the pre-major classes of 3.0. Students planning on entering the dietetics specialization are encouraged to declare their major in the BS food science and nutrition with a foods and nutrition specialization as early in their studies as possible so that they may be assigned a major advisor and receive proper advising in this field.

- BIOL 220 Introductory Cell Biology **Credits:** (5)
- BIOL 322 Introductory Microbiology Credits: (5) OR
- BIOL 323 Microbiology Credits: (5)
- ENG 310 Technical Writing Credits: (4)
- MGT 380 Organizational Management Credits: (5)
- NUTR 340 Management of Food Resources Credits: (2)
- NUTR 340LAB Management of Food Resources Laboratory Credits: (1)
- NUTR 342 Quantity Food Production and Service Credits: (4)
- NUTR 342LAB Quantity Food Production and Service Laboratory Credits: (1)
- NUTR 347 Introduction to Nutrition Education Credits: (3)
- NUTR 349 Nutrition and Aging Credits: (3)
- NUTR 433 Macronutrients Credits: (3)
- NUTR 440 Experimental Foods **Credits:** (2)
- NUTR 440LAB Experimental Foods Laboratory Credits: (1)
- NUTR 442 Nutrition Assessment Laboratory Credits: (2)
- NUTR 443 Metabolism and Micronutrients Credits: (5)
- NUTR 444 Medical Nutrition Therapy II Credits: (3)
- NUTR 445 Experimental Food Research Credits: (1)

- NUTR 445LAB Experimental Food Research Laboratory Credits: (1)
- NUTR 448 Food Service Systems Management Credits: (4)

Total Credits: 102-103

#### Additional Information

Students wishing to apply for admission into a CADE-accredited dietetic internship must complete the above major requirements plus the following three courses: ANTH 130, Introduction to Cultural Anthropology (5) OR ANTH 357, Medical Anthropology: Cross-Cultural Perspectives on Health and Healing (4), and ECON 101, Economic Issues (5), and PSY 101, General Psychology (5). These courses may also meet breadth requirements at Central Washington University.

The requirement for CHEM 111, 111LAB, Introduction to Chemistry and Laboratory, may be met by satisfactorily completing CHEM 181, 181LAB, 182, 182LAB, and 183, 183LAB General Chemistry and Laboratory. The requirement for CHEM 112, 112LAB, Introduction to Organic Chemistry and Laboratory, may be met by satisfactorily completing CHEM 361, 361LAB, 362, Organic Chemistry and Laboratory. The requirement for CHEM 113, 113LAB, Introduction to Biochemistry, may be met by satisfactorily completing CHEM 431, 431LAB and 432, Biochemistry and Laboratory. The requirement for BIOL 201, Human Physiology, may be met by satisfactorily completing BIOL 355, 356, Human Anatomy and Physiology. Students interested in applying to nursing programs following the completion of this degree are recommended to take BIOL 355 and BIOL 356 instead of BIOL 201.

#### Nutrition Science Specialization

The nutrition science specialization provides the training necessary to pursue advanced study in nutrition leading toward a career in nutrition research. This option also can be used for those students seeking admission to medical, dental, optometric, nursing, and other health-related programs and schools. In addition to the courses listed, a year of introductory physics is also required for admission to most medical schools. Pre-medical students should also maintain contact with the premedical advisor for current information. MATH 153, Pre-Calculus Mathematics I, or an equivalent course needs to be completed before a student is admitted to this specialization.

#### Required Courses

- FSN Core Requirements Credits: 25-26
- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III **Credits:** (5)
- BIOL 355 Human Anatomy and Physiology Credits: (5)
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)
- CHEM 432 Biochemistry II Credits: (3)
- NUTR 433 Macronutrients Credits: (3)
- NUTR 440 Experimental Foods Credits: (2)
- NUTR 440LAB Experimental Foods Laboratory **Credits:** (1)
- NUTR 442 Nutrition Assessment Laboratory Credits: (2)
- NUTR 444 Medical Nutrition Therapy II Credits: (3)
- NUTR 443 Metabolism and Micronutrients **Credits:** (5)
- NUTR 445 Experimental Food Research Credits: (1)
- NUTR 445LAB Experimental Food Research Laboratory Credits: (1)

Total Credits: 99-100

#### Paramedicine Major, BS

#### **Program Director**

Keith A. Monosky, PhD(c), MPM, EMT-P

#### **Medical Program Director**

Jackson Horsley, MD

#### **Faculty**

Robert Carlson, BS, EMT-P Tamara Downs, BS, EMT-P Keith A. Monosky, PhD(c), MPM, EMT-P James Pierce, EMT-P

The paramedicine major is designed for students who plan to become a certified pre-hospital professional in emergency medical services. The paramedicine major provides the graduate with the requisite skill sets for entry-level competence in advanced life support emergency medical services, as well as superior skills in advanced life support and leadership abilities in emergency medical services.

The deliver format includes classroom lectures, group discussions, laboratory skills training, hospital clinical experience with observations and practice, field internships, educational internships, administrative internships, pre-hospital research, and simulated scenario-based exercises of complex patient condition which willfully prepare the student for occupations in advanced emergency medical services. This nationally-accredited program meets all of the national curriculum and Washington State standards.

In addition to general admissions, all applicants must meet specific entrance criteria (including a current EMT certification) and be approved by the paramedic selection committee before being admitted into the program. Admission to CWU does not assure entry into the paramedicine major.

Completion of the major listed below and other degree requirements leads to the bachelor of science in paramedicine and eligibility to take the National Registry EMTs examination for paramedic certification. For students not seeking a degree, a certification option is available.

#### Required Courses for Entry:

- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)
- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- EMS 440 Medical Mathematics and Terminology Credits: (2)

#### Required Courses

- EMS 335 Paramedicine I Credits: (4)
- EMS 335LAB Advanced Clinical Practice I Credits: (2)
- EMS 336 Paramedicine II Credits: (4)
- EMS 336LAB Advanced Clinical Practice II Credits: (2)
- EMS 337 Paramedicine III **Credits:** (3)
- EMS 337LAB Advanced Clinical Practice III Credits: (2)
- EMS 350 Paramedicine Instructional Methodologies Credits: (2)
- EMS 430 Problem-based Learning I Credits: (4)
- EMS 431 Problem-based Learning II Credits: (4)
- EMS 441 General Pharmacology for Paramedics Credits: (3)
- EMS 443 Myocardial Disease and Basic Electrocardiography Credits: (4)
- EMS 444 Twelve-lead Electrocardiography Credits: (4)
- EMS 451 Advanced Trauma Care Credits: (3)
- EMS 455 Introduction to Pathophysiology **Credits:** (3)
- EMS 459 Emergencies in Pediatric/ Geriatric Care **Credits:** (3)
- EMS 460 Research in EMS I **Credits:** (3)
- EMS 461 Research in EMS II Credits: (3)
- EMS 465 Educational Methodologies in EMS **Credits:** (3)
- EMS 470 Current Topics in Emergency Medicine Credits: (3)

- EMS 475 EMS Response to Terrorism Credits: (3)
- EMS 480 Financial Analysis of EMS Systems Credits: (3)
- EMS 481 Quality Improvement and Administration of EMS Credits: (3)
- EMS 482 Systems Analysis of EMS Credits: (4)
- EMS 485 Strategic Planning for EMS **Credits:** (3)
- EMS 488 Health Policy in EMS Credits: (3)
- EMS 489 Leadership in EMS Credits: (3)
- EMS 493A Paramedicine Internship I Credits: (3)
- EMS 493B Paramedicine Internship II Credits: (4)
- EMS 493C Paramedicine Internship III Credits: (5)

#### Optional Course in the Concentration

• EMS 450 - Human Anatomy-cadaver Lab Credits: (1)

Total Credits: 105-106

#### **Athletic Training Minor**

This minor provides students with exposure to the knowledge and skills needed to become an athletic trainer: however, it does not qualify students to sit for board certification. Students interested in becoming NATA certified should contact the National Athletic Trainer's Association for more information. This minor is designed primarily for those individuals who major in disciplines such as nutrition, biology, physical and health education, and public health. This minor may also be of interest for students in pre-professional programs including pre-medicine, pre-chiropractic, pre-occupational therapy, and pre-physical therapy. Courses in this minor may also be used to satisfy requirements in other major programs.

#### Required Courses

- EMS 245 First Aid Credits: (3)
- EXSC 348 Prevention and Treatment of Athletic Injuries Credits: (4)
- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)
- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- EXSC 438 Therapeutic Exercise Credits: (3)
- EXSC 450 Physiology of Exercise **Credits:** (4)
- EXSC 450LAB Physiology of Exercise Laboratory **Credits:** (1)
- EXSC 452 Advanced Athletic Training Credits: (3)
- HED 101 Health Essentials Credits: (4)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

Total Credits: 37

#### **Exercise Science Minor**

This minor is designed primarily for those individuals who major in disciplines such as nutrition, biology, physical education, public health, and business. This minor may also be of interest for students in pre-professional programs including pre-medicine, pre-chiropractic, pre-occupational therapy, and pre-physical therapy. Courses in this minor may also be used to satisfy requirements in other major programs.

#### Required Courses

- EXSC 254 Foundations of Fitness Credits: (3)
- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory **Credits:** (1)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)
- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- EXSC 450 Physiology of Exercise Credits: (4)
- EXSC 450LAB Physiology of Exercise Laboratory Credits: (1)
- EXSC 455 Fitness Assessment and Exercise Prescription Credits: (4)
- EXSC 455LAB Fitness Assessment and Exercise Prescription Laboratory Credits: (1)

Select from one of the following: (3-4)

- EXSC 360 Scientific Principles of Strength Training Credits: (4)
- EXSC 456 Administration of Programs for Special Populations Credits: (4)
- EXSC 457 Exercise Adherence Strategies **Credits:** (3)

Total Credits: 26-27

#### **Food Service Management Minor**

This minor is designed primarily for students earning degrees in business administration or in tourism management that will allow them better access to careers in food service management. Courses in this 26- to 27-credit minor may also be used to satisfy requirements in other major programs. This minor may not be used for students earning a BS degree in food science and nutrition or a BAS in food service management.

#### Required Courses: Credits (22)

- NUTR 101 Introduction to Human Nutrition Credits: (5)
- NUTR 240 Introduction to Foods Credits: (2)
- NUTR 340 Management of Food Resources Credits: (2)
- NUTR 342 Quantity Food Production and Service Credits: (4)
- NUTR 448 Food Service Systems Management Credits: (4)
- NUTR 490 Cooperative Education Credits: (1-12)
   Must be taken for at least 5 credits.

#### Department-approved electives Credits (4-5)

- MGT 380 Organizational Management Credits: (5)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)
- NUTR 340LAB Management of Food Resources Laboratory Credits: (1)
- NUTR 342LAB Quantity Food Production and Service Laboratory Credits: (1)
- NUTR 490 Cooperative Education Credits: (1-12)
   Take 5 elective credits of NUTR 490.

Total Credits: 26-27

#### **Nutrition Minor**

This program is designed primarily for those individuals in other majors who desire a more in-depth study of nutrition. This program is intended for students in majors such as exercise science, family studies, physical and health education, and public health. This minor may also be of interest for students in pre-professional programs including pre-medicine, pre-dentistry, pre-veterinary, and pre-physical therapy. Courses in this minor may also be used to satisfy requirements in other major programs.

Students wishing to attain full admission to the minor must meet the following requirements: Successful completion of NUTR 101 - Introduction to Human Nutrition, NUTR 240 - Introduction to Foods, and NUTR 240LAB- Introduction to Foods Laboratory with a grade of B (3.0) or better. Students must receive a grade of C (2.0) or better in all other minor courses.

#### Required Courses

- NUTR 101 Introduction to Human Nutrition Credits: (5)
- NUTR 240 Introduction to Foods Credits: (2)
- NUTR 240LAB Introduction to Foods Laboratory Credits: (2)
- NUTR 340 Management of Food Resources Credits: (2)
- NUTR 340LAB Management of Food Resources Laboratory Credits: (1)
- NUTR 345 Developmental Nutrition Credits: (3)
- NUTR 446 Sports Nutrition and Weight Control Credits: (3)

#### Department-approved electives - Credits: (4-5)

- NUTR 346 Theory and Treatment of Eating Disorders Credits: (3)
- NUTR 348 Nutrition Interview **Credits:** (1)
- NUTR 349 Nutrition and Aging Credits: (3)
- NUTR 447 Nutrition and Society Credits: (3)
- NUTR 490 Cooperative Education Credits: (1-12) Credits: (5)

Total Credits: 22-23

#### **Paramedic Courses**

EMS 245. First Aid (3). American Red Cross First Aid course for which standard certificate may be granted.

## EMS 250. Emergency Medical Technician Lecture (9).

Emergency Medical Technician (EMT) is a course that enables the successful student to become eligible for certification as an EMT with the National Registry. This course provides the didactic instruction in basic life support in accordance with the National EMS Education Standards. Attendance in all sessions is expected. Co-requisite: EMS 250LAB.

EMS 250LAB. Emergency Medical Technician Lab (3). The Emergency Medical Technician (EMT) lab provides instruction in the practical skills application of the EMT didactic content, including patient assessment, airway management, oxygen delivery, medication assistance, ambulance operations, lifting and moving patients, bleeding control, fracture immobilization, spinal cord injury management, emergency childbirth, and much more. Co-requisite: EMS 250.

EMS 335. Paramedicine I (4). This course provides the foundational knowledge in paramedicine education in areas of preparatory elements of paramedicine, advanced airway management, history-taking, and physical examination, communications, documentation, ethics, and more. Prerequisite: admission to the paramedical major or program. Co-requisite: EMS 335LAB.

Grade will either be S or U.

Practice I (2). This course provides practical lab instruction in paramedicine including advanced airway procedures, patient assessment, historytaking, physical examination, medication administration, intravenous therapy, and other related emergency procedures. Co-requisite: EMS 335 and

admission to the paramedical

EMS 335LAB. Advanced Clinical

major or program. Grade will either be S or U.

EMS 336. Paramedicine II (4). This course provides the foundational knowledge in paramedic education in areas of emergency obstetrics and gynecology, pulmonology, neurology, endocrinology, allergies, environmental, infectious diseases, psychiatric, toxicological, and more. Prerequisites: EMS 335 and admission to the paramedical major or program. Co-requisite: EMS 336LAB.

EMS 336LAB. Advanced Clinical Practice II (2). Accompanying laboratory to Paramedicine II, providing intensive training in obstetrical emergencies, pulmonary assessment and treatment, management of cardiovascular emergencies, cardiac arrest team management, and leadership development. Prerequisite: admission to the paramedical major or program. Co-requisite: EMS 336. Grade will either be S or U.

EMS 337. Paramedicine III (3). This course provides the foundational knowledge in paramedic education in areas of assessment-based management, neonatology, geriatrics, pediatrics, abuse and assault, rural EMS, and more. Prerequisites: EMS 336 and admission to the paramedical major or program.

EMS 337LAB. Advanced Clinical Practice III (2). Accompanies EMS 337 lecture providing practical skill education in a laboratory setting in the therapeutic paramedical interventions of pediatrics, geriatrics, and advanced medical emergencies. Prerequisite: EMS 337. Grade will either be S or U. By permission.

EMS 345. Instructor's First Aid (3). American Red Cross First Aid course for instructor's certificate. Meets requirements for ski patrol. Prerequisite: EMS 245.

EMS 350. Paramedicine
Instructional Methodologies (2).
This course provides instruction

and opportunities to learn and apply techniques and methods of instruction in principles of EMS. Students will provide practical skill instruction to EMT student under the supervision of the program faculty. Prerequisite: admission to the paramedical major or program. Grade will be either S or U.

EMS 398. Special Topics (1-6).
Prerequisite: admission to the paramedical major or program.
May be repeated for credit.

EMS 430. Problem-based Learning I (4). This course introduces case-based presentation of pathology, symptomatology, presentation, and treatment of clinical scenarios through life-span development, group discussion, and research. Co- or prerequisites: EMS 455 and admission to the paramedical major or program.

EMS 431. Problem-based Learning II (4). This course continues case-based presentation of pathology, symptomatology, presentation, and treatment of clinical scenarios through life-span development, group discussion, and research. Prerequisites: EMS 430 and admission to the paramedical major or program.

EMS 440. Medical Mathematics and Terminology (2). This course provides instruction in various methods of medical drug calculations and dosing of medications commonly utilized in emergency settings, as well as an introduction to medical terminology. Prerequisite: admission to the paramedical major or program.

EMS 441. General Pharmacology for Paramedics (3). Mechanism of action, indications, and contraindications of drugs, their side effects, and dosage of administration. Prerequisites: EMS 440 and admission to the paramedical major or program.

EMS 443. Myocardial Disease and Basic Electrocardiography (4). This course provides instruction in the basic elements of bipolar limb-lead electrocardiography, beginning with a review of cardiovascular A and P, a brief discussion of cardiac pathologies, and focuses on EKG interpretation and dysrhythmia recognition. Prerequisite: admission to the paramedical major or program.

#### EMS 444. Twelve-lead

Electrocardiography (4). This provides instruction in the advanced elements of 12-lead EKG analysis. It begins with a review of the essentials of EKG interpretation and introduces ACLS concepts following with a comprehensive approach to 12-lead EKG analysis. Prerequisites: EMS 443 and admission to the paramedical major or program.

EMS 450. Human Anatomy-cadaver Lab (1). This course provides instruction in the human anatomy and physiology with practical lab examination, exploration, and limited dissection of the human body. Two hours laboratory per week. By permission.

#### EMS 451. Advanced Trauma Care

(3). This course provides instruction in the advanced elements of trauma care, including trauma triage, fluid resuscitation, trauma arrest management, multi-system management, and trauma of the head, neck, thorax, abdomen, and extremity. Prerequisite: admission to the paramedical major or program.

EMS 455. Introduction to
Pathophysiology (3). This course introduces fundamental pathologies common to all age groups. It establishes concepts and foundational basis of disease from the cellular perspective to the fully developed organism. Prerequisite: admission to the paramedical major or program.

#### EMS 459. Emergencies in

Pediatric/Geriatric Care (3). Emergency training in assessing, treating, and transporting pediatric/geriatric patients. Prerequisite: admission to the paramedical major or program.

#### EMS 460. Research in EMS I (3).

This course introduces research design and methodologies common to medicine and paramedicine. It establishes the foundation for EMS research projects and possible publication. Prerequisite: admission to the paramedical major or program.

#### EMS 461. Research in EMS II (3).

This course continues education in research design and methodologies common to medicine and paramedicine. It provides the student the opportunity to complete EMS research projects and possible publication. Prerequisites: EMS 460 and admission to the paramedical major or program.

EMS 465. Educational
Methodologies in EMS (3). This
course introduces common
educational methodologies
applied in EMS education with
focuses on didactic, psychomotor,
and affective education domains.
Additional content include
curricula development,

curricula development, evaluation methods, test construction, and critical psychometic parameters. Prerequisite: admission to the paramedical major or program.

EMS 470. Current Topics in

Emergency Medicine (3). This course instructs students how to conduct medical literature searches and to critically review peer-reviewed articles and surveys the contemporary literature for relevant concepts and issues germane to EMS. Prerequisite: admission to the paramedical major or program.

#### EMS 475. EMS Response to

Terrorism (3). This course examines contemporary thought on the philosophical basis and motivation for terrorism and discusses currently prevalent issues, principles of mitigation for EMS providers, and strategies to prevent terroristic threats. Prerequisite: admission to the paramedical major or program.

EMS 480. Financial Analysis of EMS Systems (3). This course introduces basic financial analytical processes as they apply to EMS, with emphasis on interpreting financial statements, assessing financial burden, cost projection, cost-benefit analysis, and formulas for evaluating financial performance.

Prerequisite: admission to the paramedical major or program.

## EMS 481. Quality Improvement and Administration of EMS (3).

This course introduces elemental concepts to continuous quality improvement with application to EMS systems. It also introduces how CQI data can be used to inform EMS administration. General principles of management will be reviewed. Prerequisite: admission to the paramedical major or program.

#### EMS 482. Systems Analysis of

EMS (4). This course integrates previously learned concepts into a systematic approach of EMS system problem-identification, prioritization, and solutions proposals. It incorporates research design, financial analysis, and policy analysis into an integrated approach. Prerequisites: EMS 460, EMS 480, EMS 481 and admission to the paramedic major or program.

#### EMS 485. Strategic Planning for

EMS (3). This course introduces foundational concepts of strategic planning into EMS development. It enables the student to apply strategic principles of management to real-life EMS systems. Prerequisite: admission to the paramedical major or program.

#### EMS 488. Health Policy in EMS (3).

This course introduces policy development and agenda-setting at the state and national levels. It provides basic instruction in policy analysis and surveys current health policies that may impact EMS. Prerequisite: admission to the paramedical major or program.

#### EMS 489. Leadership in EMS (3).

This course examines various leadership styles, assesses student aptitude for leadership style, and develops a foundational structure to develop superior leadership abilities in EMS systems. Prerequisite: admission to the paramedical major or program.

#### EMS 493A. Paramedicine

**Internship I** (3). This course provides clinical and field instruction in principles of paramedicine under the

supervision of clinical and field preceptors. Prerequisite: admission to the paramedical major or program. May be repeated for credit. Grade will either be S or U.

EMS 493B. Paramedicine
Internship II (4). This course
provides clinical and field
instruction in principles of
paramedicine under the
supervision of clinical and field
preceptors. Prerequisite: EMS
493A. Grade will either be S or U.

EMS 493C. Paramedicine
Internship III (5). This course
provides clinical and field
instruction in principles of
paramedicine under the
supervision of clinical and field
preceptors. Prerequisite: EMS
493B. Grade wil either be S or U.

## Exercise Science Courses EXSC 254. Foundations of Fitness

(3). Overview of the fitness industry, components of fitness, and strategies to improve the health and well-being of the individual.

EXSC 318. Aerobic Fitness (3). This class provides the fitness and sports management major with an in-depth exploration of various cardiovascular exercise activities and equipment.

Prerequisites: EXSC 350 and EXSC 350LAB.

## EXSC 348. Prevention and Treatment of Athletic Injuries

(4). Prevention and treatment of injuries and rehabilitation of injured athletes. Prerequisites: EXSC 350 and EXSC 350LAB. Three hours lecture and two hours laboratory per week.

#### EXSC 350. Anatomical Kinesiology

(4). Study of skeletal and muscular systems, the fundamentals of biomechanics, and their applications to human movement, skill development and skill performance.

## EXSC 350LAB. Anatomical Kinesiology Laboratory (1).

Accompanying laboratory to EXSC 350, includes identification of skeletal bones and landmarks, and muscles of the human body. Mechanic, energetics, and mechanical laws that govern

human movement will be discussed.

## EXSC 351. Scientific Foundations of Health and Fitness (4).

Examination of the digestive, respiratory, urinary, circulatory, nervous, endocrine, and reproductive systems of the human body. Four hours lecture and two hours laboratory per week.

#### EXSC 351LAB. Scientific Foundations of Health and Fitness Laboratory (1).

Accompanying cadaver laboratory to EXSC 351, includes anatomy and physiology of the neural, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive systems of the human body.

EXSC 360. Scientific Principles of Strength Training (4). This course addresses the scientific and theoretical bases of program design in resistance training. Prerequisites: EXSC 350 and EXSC 350LAB.

#### EXSC 438. Therapeutic Exercise (3).

This course covers the understanding, design, and development of rehabilitation exercises for acute, chronic and post operative injuries.

Prerequisite: EXSC 350, EXSC 350LAB, and EXSC 348.

EXSC 446. Sports Nutrition and Weight Control (3). Study of interrelationship of factors required for successful weight control; modification of diet, activity, and behavior. Role of dietary factors in health and body function. NUTR 446 and EXSC 446 are cross-listed courses; students may not receive credit for both. Prerequisite: NUTR 101.

#### EXSC 450. Physiology of Exercise

(4). Acute and chronic responses of the metabolic, muscular, cardiovascular, pulmonary, endocrine, and thermoregulatory systems to physical work. Prerequisites: EXSC 351 and EXSC 351LAB with a grade of C or higher, and admission to the exercise science or clinical physiology major. Four hours lecture, two hours laboratory per week.

## EXSC 450LAB. Physiology of Exercise Laboratory (1).

Accompanying laboratory to EXSC 450, includes data collection and laboratory write-ups on responses of the metabolic, muscular, cardiovascular, pulmonary, endocrine, and thermoregulatory systems to physical work. Prerequisites: EXSC 351 and EXSC 351LAB with a grade of C or higher, and admission to the exercise science or clinical physiology major.

# EXSC 452. Advanced Athletic Training (3). A detailed examination of injuries, therapeutic modalities, and rehabilitation in athletic training. Prerequisite: EXSC 348 with a grade of C or higher.

## EXSC 455. Fitness Assessment and Exercise Prescription (4).

Concepts and principles of appraising level of fitness, evaluating the results and designing physical fitness/ exercise programs. Four hours lecture. Prerequisites: EXSC 351 and EXSC 351LAB.

## EXSC 455LAB. Fitness Assessment and Exercise Prescription

Laboratory (1). Accompanying laboratory to EXSC 455, includes techniques for assessing aerobic fitness, muscular strength and endurance, body composition and flexibility. Two hours laboratory.

## EXSC 456. Administration of Programs for Special

Populations (4). Philosophy, principles, policies, and procedures of fitness administration to special populations. Prerequisites: EXSC 455 and EXSC 455LAB, and admission to the exercise science or clinical physiology major. Three hours lecture and one hour case study analysis lab per week.

#### EXSC 457. Exercise Adherence

**Strategies** (3). Review of psychological factors involved in the exercise treatment of normal and special populations.

## EXSC 461. Current Issues in Fitness and Exercise Science (2).

This seminar course discusses current trends and issues in the

fitness and exercise science world.

EXSC 463. Pediatric Issues in
Exercise Science (5). Essential
principles of growth,
development, and exercise
science and the application of
these principles to children and
youth. Prerequisites: EXSC 250
and EXSC 351 with grades of C or
higher. Four hours of lecture and
two hours of laboratory per
week.

EXSC 464. Management of Fitness
Facilities and Programs (4). This course covers conventional business management principles and operational guidelines to the unconventional business of health and fitness facilities.

EXSC 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, medical, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisites: satisfactory completion of all courses in the major and a minimum major GPA of 2.7. May b repeated for credit. Grade will either be S or H

EXSC 495A. Practicum: Fitness
Centers/Clubs (2). Observation,
monitoring, and supervised
assistance of fitness assessment
and exercise prescription in
community fitness center/ club
setting. May be repeated for
credit. Grade will either be S or
U.

EXSC 495B. Practicum: Clinical (2). Observation, monitoring, and supervised activity in clinical rehabilitation and athletic training setting. May be repeated for credit. Grade will either be S or U.

#### EXSC 495C. Practicum:

Management (2). Observation, monitoring, and supervised leadership activity in fitness, health, and sport management settings. May be repeated for credit. Grade will either be S or U.

EXSC 495D. Practicum: Laboratory Assessment (2). Laboratory

techniques for assessment of body composition, cardiovascular, strength, and flexibility components of fitness. May be repeated for credit. Grade will either be S or U.

#### **Nutrition Courses**

NUTR 101. Introduction to Human Nutrition (5). Fundamental nutritional concepts as related to health. Four hours lecture and one hour discussion per week. NS-Application Natural Science

NUTR 240. Introduction to Foods
(2). Examination of scientific principles of food preparation, function of ingredients, effects of preparation techniques, and nutritional considerations. Two hours lecture per week.
Corequisite: NUTR 240LAB.

NUTR 240LAB. Introduction to Foods Laboratory (2). Additional material fees. Four hours per week. Corequisite: NUTR 240.

NUTR 298. Special Topics (1-6). NUTR 318. The Politics of Food and Health (2). Exploration of the politics of food from farm to table, and the implications for human and environmental health. HED 318 and NUTR 318 are cross-listed courses, students may not receive credit for both.

NUTR 340. Management of Food Resources (2). Food management principles involved in the planning, purchasing, preparing, and serving of meals in relation to nutritional needs, social needs, food preferences, and resources. Prerequisites: NUTR 101 and NUTR 240.

NUTR 340LAB. Management of Food Resources Laboratory (1). Demonstration of food management principles. Prerequisite: NUTR 340. Twenty dollars materials fee.

NUTR 342. Quantity Food
Production and Service (4).
Principles and techniques of food
production and food safety for
restaurants, health care facilities,
and other institutions.
Corequisite: NUTR 342LAB.
Prerequisite: NUTR 240.

NUTR 342LAB. Quantity Food Production and Service Laboratory (1). Corequisite: NUTR 342. NUTR 343. Foods and Nutrition Professionalism (1). Professional ethics, career readiness, and career research in foods and nutrition. Prerequisite: junior standing or above.

NUTR 344. Medical Nutrition
Therapy I (3). Introduction to
medical nutrition therapy
including nutrition care process,
diabetes, heart disease, and
cancer. Prerequisites: NUTR 101,
BIOL 201, and CHEM 111, CHEM
181, or BIOL 355.

NUTR 345. Developmental Nutrition (3). Effects of nutrition on development, growth, and health, from conception through aging. Prerequisites: either NUTR 101 or NUTR 433.

NUTR 346. Theory and Treatment of Eating Disorders (3).
Introduction of the dangers of dieting and the socio-cultural influences toward eating disorders and identification of the history, theory, and treatment of eating disorders. Prerequisite: NUTR 101.

NUTR 347. Introduction to Nutrition Education (3). Introduction to educating individuals and groups about nutrition, from theory to application. Prerequisite: NUTR 101.

NUTR 348. Nutrition Interview (1). Techniques, procedures, and skills related to nutrition interviewing and counseling. Prerequisite: NUTR 101.

NUTR 349. Nutrition and Aging
(3). This course will focus on how aging affects nutritional status and the unique needs of the older adult. Prerequisite: NUTR 101.

NUTR 398. Special Topics (1-6). NUTR 405. Hospitality Catering (3). Basics of off-premise catering including menu planning, budgeting, logistics, and marketing. NUTR 405, RT 405, and RT 505 are equivalent courses; students may not receive credit for more than one.

NUTR 406. Peer Nutrition
Education Practicum (1).
Supervised experience as a
nutrition educator at the Student
Health Center and/ or CWU
Center for Sports Nutrition.

Prerequisite: NUTR 101, 348, and 446. May be repeated for credit.

## NUTR 433. Macronutrients (3). Nutritional aspects of carbohydrates, proteins, lipids, water, and energy. Prerequisites: NUTR CHEM 112 or CHEM 363.

NUTR 440. Experimental Foods (2). Physical and chemical bases of food preparation. Experiment testing result of variation in ingredients and manipulative practice. Prerequisites: NUTR 240, NUTR 240Lab, NUTR 340, CHEM 112, and PSY 362, or EDCS 312, and ENG 310. Corequisite: NUTR 440LAB.

NUTR 440LAB. Experimental Foods Laboratory (1). Additional material fees. Co-requisite: NUTR 440

NUTR 442. Nutrition Assessment Laboratory (2). Current tools for nutritional assessment with laboratory experience. Prerequisite: NUTR 443. One hour lecture and two hours laboratory per week.

NUTR 443. Metabolism and Micronutrients (5). Effect of nutritional and physiological state on the regulation of carbohydrate, lipid, and protein metabolism. Metabolic and physiological role of vitamins and minerals. Prerequisites: NUTR 433 and CHEM 113, or CHEM 432 and BIOL 201, or BIOL 356.

NUTR 444. Medical Nutrition
Therapy II (3). The influence of
nutrition on physiological

problems; disease and medical nutritional therapy; nutrition and health management. Prerequisites: NUTR 344, NUTR 443 and CHEM 113 or CHEM 432.

NUTR 445. Experimental Food Research (1). Principles of experimental food research. Propose, conduct, analyze, and present original food research project. Prerequisites: NUTR 440 and NUTR 440LAB.

NUTR 445LAB. Experimental Food Research Laboratory (1). Product production, sensory and objective testing of experimental food research project. Co-requisite: NUTR 445

NUTR 446. Sports Nutrition and Weight Control (3). Study of interrelationship of factors required for successful weight control, modification of diet, activity and behavior. Role of dietary factors in health and body function. NUTR 446 and EXSC 446 are cross-listed courses; students may not receive credit for both. Prerequisite: NUTR 101.

NUTR 447. Nutrition and Society
(3). National and international
nutritional problems and
programs. Prerequisites: either
NUTR 101 or NUTR 433.

NUTR 448. Food Service Systems Management (4). Application of organizational management and principles to food-service systems including organizing, staffing, controlling, planning, marketing, and leading. Prerequisites: NUTR 240 and NUTR 342 and MGT 380.

NUTR 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervisor and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or

#### NUTR 491. Workshop (1-6). NUTR 492A. Dietetic Practicum

(10-18). Dietetic internship experience. Credits may not be used to apply to the master's degree. Prerequisite: permission required. May be repeated for credit. Grade will either be S or U.

NUTR 492B. Dietetic Practicum (10-18). Dietetic internship experience. Credits may not be used to apply to the master's degree. Prerequisite: NUTR 492A. May be repeated for credit. Grade will either be S or U.

NUTR 492C. Dietetic Practicum (10-18). Dietetic internship experience. Credits may not be used to apply to the master's degree. Prerequisite: NUTR 492B. May be repeated for credit. Grade will either be S or U.

NUTR 496. Individual Study (1-6). NUTR 498. Special Topics (1-6). NUTR 499. Seminar (1-5).

### **Occupational Education Program**

Ellensburg Michaelsen Hall, room 100

509-963-2766

www.cwu.edu/ family-consumer/ career-technical-education See website for how this certificate may be used for educational and career purposes.

Faculty and Staff Director Kim Bartel, PhD

#### Faculty

Jan Bowers, PhD, family and consumer sciences Scott Calahan, MEd, industrial education Robert Perkins, EdD, business and marketing education Marla Wyatt, PhD, family and consumer sciences education

#### **Non-tenure Faculty**

Jay Leviton John Linder Kevin Plambeck Paul Randall

#### **Regional Coordinators**

Jay Leviton John Linder Kevin Plambeck Paul Randall

#### Career and Technical Education Teacher Preparation Certificate

This two-year competency block certificate program is intended for business or industry professionals who are interested in obtaining a career and technical teaching certificate. The program will provide the tools necessary for success in the classroom.

During the program participants will complete a mentored teaching experience or practicum each year. The program is offered through the office of Continuing Education in collaboration with Occupational Education.

#### Prerequisites:

- 1. Current Career and Technical Education Probationary Teaching Certificate, OR
- 2. 6,000 hours paid occupational experience in the area you wish to teach, and fingerprint clearance from both the Washington State Patrol and the FBI must be on file at the office of Superintendent of Public Instruction (OSPI).
- 3. Successful completion of all three sections in the Washington Educator Skills Test Basic (WEST-B). Test scores must be submitted prior to completing the program in order to receive CWU's recommendation for career and technical education teacher certification, OR
- 4. Washington State Residency Permit or professional teacher certification.

Included in each year of the program is a 70-hour practicum. Passing grades in all courses grants the individual the competencies in general and specific safety requirement.

#### **Occupational Education**

Included in each year of the program is a 70 hour practicum. Passing grades in all courses grants the individual the competencies in general and specific safety requirement.

#### Required Courses

#### Block 1:

- OCED 310A Vocational-Technical Teaching Methods Credits: (3-5)
   Must be taken for 4 credits.
- OCED 310B Vocational-Technical Occupational Analysis Credits: (3-5)
   Must be taken for 3 credits.
- OCED 310C Vocational-Technical Course Organization and Curriculum Design Credits: (3-5)
   Must be taken for 5 credits.

#### Block 2:

- OCED 311A Vocational-Technical Coordination Techniques of Cooperative Education Credits: (3-5)
   Must be taken for 3 credits.
- OCED 311B Vocational-Technical History and Philosophy of Vocational Education Credits: (3-5)
   Must be taken for 3 credits.
- OCED 311C Vocational-Technical Student and Professional Leadership Development Credits: (3-5)
   Must be taken for 4 credits.
- OCED 311D Vocational-Technical School Law and Issues Related to Abuse Credits: (3-5)
  Must be taken for 4 credits.

Total Credits: 24

#### **Occupational Education Courses**

- OCED 310A. Vocational-Technical Teaching Methods (3-5). An introduction to teaching pedagogy and application of occupational skills, knowledge, and practice to a vocational classroom setting.
- OCED 310B. Vocational-Technical Occupational Analysis (3-5). An introduction to teaching pedagogy and application of occupational skills, knowledge ,and practice to a vocational classroom setting.
- OCED 310C. Vocational-Technical Course Organization and Curriculum Design (3-5). An introduction to teaching pedagogy and application of occupational skills, knowledge, and practice to a vocational classroom setting.
- OCED 311A. Vocational-Technical Coordination Techniques of Cooperative Education (3-5). Advanced teaching pedagogy, history, and philosophy of vocational education, school law

- and issues related to abuse, leadership, and work-based learning.
- OCED 311B. Vocational-Technical History and Philosophy of Vocational Education (3-5). Advanced teaching pedagogy, history, and philosophy of vocational education, school law, and issues related to abuse, leadership, and work-based learning.
- OCED 311C. Vocational-Technical Student and Professional Leadership Development (3-5). Advanced teaching pedagogy, history and philosophy of vocational education, school law and issues related to abuse, leadership, and work-based learning.
- OCED 311D. Vocational-Technical School Law and Issues Related to Abuse (3-5). Advanced teaching pedagogy, history, and philosophy of vocational education, school law and issues

- related to abuse, leadership, and work-based learning.
- OCED 410. Career and Technical Education School to Work Programs (4). Work-based learning, student leadership, advisory committees, program promotion, and professional responsibilities in vocational education. Prerequisite: full admission to the Teacher Preparation Program.
- OCED 432. Occupational Analysis
  (3). Analysis of jobs and trades to determine related technical information, skills, and advisory sources necessary to develop content materials for a course of study.
- OCED 440. Total Quality Learning
  (3). Concepts of continuous
  improvement cycles, statistical
  process control tools, assessment
  strategies, and tools. Application
  strategies and learning and
  behavior concepts of Glasser,
  Maslow, Herzberg, and Bloom.

#### Philosophy and Religious Studies Department

College of Arts and Humanities Ellensburg Language and Literature Bldg., room 337 509-963-1818 Fax 509-963-1822 www.cwu.edu/philosophy

See website for how these programs may be used for educational and career purposes.

### Faculty and Staff

Chair

Heidi M. Szpek, PhD

#### **Professor**

Chenyang Li, PhD, (on leave) Asian philosophy, comparative philosophy, ethics, social and political philosophy

#### **Associate Professors**

Cynthia Coe, PhD, 20th century continental philosophy, feminist philosophy, director of women's studies Jeffrey Dippmann, PhD, world religions, Chinese Buddhism, and Daoism Heidi Szpek, PhD, Hebrew Bible, Western religious traditions, Judaism, Holocaust studies, world religions

#### **Assistant Professors**

Matthew Altman, PhD, early modern philosophy (Kant), 19th century philosophy, ethics and applied ethics, social and political philosophy, philosophy of art, director William O. Douglas Honors College Gary Bartlett, PhD, philosophy of mind, cognitive science, epistemology

#### Senior Lecturer

Karen Turcotte, MA, comparative religions, religion of India, philosophies of India

#### Lecturers

Gayle Dohrman, MA, history of philosophy, ancient philosophy (Plato), metaphysics, ethics, mysticism David Newcomer, MDiv, Christianity, ethics

#### **Emeritus Professors**

Raeburne S. Heimbeck, PhD Webster F. Hood, PhD Chester Z. Keller, PhD

#### Staff

Lori Hauser, secretary senior

#### **Department Information**

The original meaning of the word philosophy is "the love of wisdom." Philosophy therefore represents an ongoing process of critical and speculative inquiry into questions representing people's deepest concerns, such as the meaning of existence, the nature of reality, and the grounds of human conduct. The religious studies specialization is a path of inquiry into the nature of religion, its pervasive role in human life, and its contribution to understanding human existence and destiny.

#### **Bachelor of Arts**

#### Philosophy Major

Students may choose either a 50-credit major or a 62-credit major. In order to graduate, a student who completes the 50-credit major must also have a minor or second major in another discipline. A student who completes the 62-credit major is not required to have a minor or second major.

#### Departmental Honors in Philosophy and Religious Studies

The honors program in Philosophy and Religious Studies recognizes the exceptional scholarship of qualified students in either the Philosophy major or Religious Studies specialization. To qualify, students must have completed at least 25 credits in their major or specialization and have a minimum GPA of 3.0 overall and 3.5 in their major coursework.

In addition to their normal coursework, students seeking departmental honors must take one additional upper division course in their program, complete a superior thesis (RELS 497: Honors Thesis) to be evaluated by a second reader from the departmental faculty, and make an oral presentation. Students graduating with honors will have that accomplishment recorded on their transcripts.

#### Philosophy Major, BA (50 or 62 credits)

Students may choose either a 50-credit major or a 62-credit major. In order to graduate, a student who completes the 50-credit major must also have a minor or second major in another discipline. A student who completes the 62-credit major is not required to have a minor or second major.

#### Departmental Honors in Philosophy and Religious Studies

The honors program in Philosophy and Religious Studies recognizes the exceptional scholarship of qualified students in either the Philosophy major or Religious Studies specialization. To qualify, students must have completed at least 25 credits in their major or specialization and have a minimum GPA of 3.0 overall and 3.5 in their major coursework.

In addition to their normal coursework, students seeking departmental honors must take one additional upper division course in their program, complete a superior thesis (RELS 497: Honors Thesis) to be evaluated by a second reader from the departmental faculty, and make an oral presentation. Students graduating with honors will have that accomplishment recorded on their transcripts.

#### Philosophy Core Requirements

- PHIL 302 Ethics **Credits:** (5)
  - Select either:
- PHIL 352 Western Philosophy I: Ancient Greek Philosophy Credits: (5) OR
- PHIL 209 Asian Philosophy Credits: (5)
  - Select either:
- PHIL 353 Western Philosophy II: Rationalism and Empiricism Credits: (5) OR
- PHIL 305 Philosophy of Religion Credits: (5)
  - Select either:
- PHIL 354 Western Philosophy III: Kant and the 19th Century Credits: (5) OR
- RELS 376 Contemporary Religious Thought Credits: (5)

#### Select either:

- PHIL 494 Undergraduate Thesis Preparation Credits: (2) OR
- RELS 494 Undergraduate Thesis Preparation Credits: (2)

#### Select either:

- PHIL 495 Undergraduate Thesis Credits: (3) OR
- RELS 495 Undergraduate Thesis Credits: (3) OR
- PHIL 497 Honors Thesis Credits: (3) OR
- RELS 497 Honors Thesis **Credits:** (3)

NOTE: PHIL 209, PHIL 305, RELS 376, RELS 494, RELS 495, PHIL 497 and RELS 497 are by advisor's approval.

Total Core Credits: 25

#### Required Courses

- PHIL 150 Critical Thinking Credits: (5) OR
- PHIL 307 Introduction to Formal Logic Credits: (5)
- PHIL 488 Junior Seminar Credits: (5)
- PHIL 490 Cooperative Education Credits: (1-12) Credits: (2) (required only for the 62 credit major)

Select one course from the following contemporary-based courses - Credits: (5)

- PHIL 304 Business Ethics Credits: (5)
- PHIL 308 Medical Ethics Credits: (5)
- PHIL 358 Existentialism Credits: (5)
- PHIL 361 Theory of Knowledge Credits: (5)
- PHIL 364 Philosophy of Mind Credits: (5)
- PHIL 380 Philosophy of Science Credits: (5)
- PHIL 459 Phenomenology Credits: (5)

Select one course from the following diversity courses - Credits: (5)

- PHIL 325 Women and Philosophy Credits: (5)
- PHIL 345 Chinese Philosophy Credits: (5)
- PHIL 356 American Philosophies Credits: (5)
- PHIL 357 Race, Class, and Gender: Philosophical Perspectives Credits: (5)

Philosophy electives - Credits: 5-15

Any PHIL courses (at most 5 credits at the 100- or 200-level).

Total Credits: 50 or 62

#### **Religious Studies Specialization**

The religious studies specialization is comparative in nature, but complemented by a philosophical component focused on religion and unique electives designed to accommodate student interests. Students may choose either a 50- or 62-credit specialization. In order to graduate, a student who completes the 50-credit major or 50-credit specialization must also have a minor or second major in another discipline. A student who completes the 62-credit major is not required to have a minor or second major.

#### Departmental Honors in Philosophy and Religious Studies

The honors program in Philosophy and Religious Studies recognizes the exceptional scholarship of qualified students in either the Philosophy major or Religious Studies specialization. To qualify, students must have completed at least 25 credits in their major or specialization and have a minimum GPA of 3.0 overall and 3.5 in their major coursework.

In addition to their normal coursework, students seeking departmental honors must take one additional upper division course in their program, complete a superior thesis (RELS 497: Honors Thesis) to be evaluated by a second reader from the departmental faculty, and make an oral presentation. Students graduating with honors will have that accomplishment recorded on their transcripts.

#### Philosophy Core Requirements

• PHIL 302 - Ethics Credits: (5)

#### Select either:

- PHIL 352 Western Philosophy I: Ancient Greek Philosophy Credits: (5) OR
- PHIL 209 Asian Philosophy Credits: (5)

#### Select either:

- PHIL 353 Western Philosophy II: Rationalism and Empiricism Credits: (5) OR
- PHIL 305 Philosophy of Religion Credits: (5)

#### Select either:

- PHIL 354 Western Philosophy III: Kant and the 19th Century Credits: (5) OR
- RELS 376 Contemporary Religious Thought Credits: (5)

#### Select either:

- PHIL 494 Undergraduate Thesis Preparation Credits: (2) OR
- RELS 494 Undergraduate Thesis Preparation Credits: (2)

#### Select either:

- PHIL 495 Undergraduate Thesis Credits: (3) OR
- RELS 495 Undergraduate Thesis Credits: (3) OR
- PHIL 497 Honors Thesis Credits: (3) OR
- RELS 497 Honors Thesis **Credits:** (3)

NOTE: PHIL 209, PHIL 305, RELS 376, RELS 494, RELS 495, PHIL 497 and RELS 497 are by advisor's approval.

#### Total Core Credits: 25

#### Required Courses

- RELS 101 World Religions Credits: (5)
- RELS 201 Sacred Books of the World **Credits:** (5)
- RELS 490 Cooperative Education Credits: (1-12) Credits: (2) (required only for the 62 credit major)

#### History of religions required courses - Credits: (10)

- RELS 351 Religions of China and Japan Credits: (5) OR
- RELS 352 Religions of India Credits: (5)
- RELS 353 Judaism Credits: (5) OR
- RELS 354 Christianity Credits: (5) OR
- RELS 355 Islam Credits: (5)

#### Department-approved electives - Credits: 5-15

Any RELS upper-division courses (at least 5 credits at the 400-level) and department-approved courses.

#### Total Credits: 50 or 62

#### **Ethics Minor**

A minor in ethics enables students to develop a strong sense of moral responsibility and critical skills for moral reflection. It consists of required courses in ethical theory, global ethics, current ethical issues, as well as electives in applied ethics - such as business ethics and communication ethics - which may relate to students' majors. It also includes an internship experience to help students develop their ethical ability and awareness through service learning. Such a minor can be combined with, and serve as enrichment to, any major program. As a result of completing the minor, students will be able to:

- Identify and implement major moral theories from diverse traditions
- Demonstrate an understanding of the cultural and historical embeddedness of ethical theories
- Evaluate moral issues from a plurality of perspectives
- Develop a capacity for critical moral reasoning
- Analyze and evaluate the effectiveness of given moral theories in dealing with contemporary ethical problems
- Learn to account for one's conduct within a larger community
- Develop a sensitivity to the central moral issues in a given discipline and the capacity to act in a morally responsible manner

#### Required Courses

- PHIL 302 Ethics Credits: (5)
- PHIL 490 Cooperative Education Credits: (1-12)
   Students should take PHIL 490 for 3 credits.

Select from the following: Credits: 5

- PHIL 202 Introduction to Ethics Credits: (5)
- PHIL 210 Current Ethical Issues Credits: (5)

Upper-division electives Credits: (13-15)

At least one course must be in philosophy.

- COM 333 Communication Ethics Credits: (4)
- IT 301 Information Technology Security, Privacy, and Ethics Credits: (3)
- LAJ 401 Ethics, Diversity, and Conflict in Criminal Justice **Credits:** (4) For LAJ majors only
- MSL 302 Leadership and Ethics **Credits:** (3) For military science majors only
- PHIL 304 Business Ethics **Credits:** (5)
- PHIL 306 Environmental Ethics Credits: (5)
- PHIL 308 Medical Ethics Credits: (5)
- PHIL 402 Ethics and Film Credits: (5)
- PHIL 465 Advanced Ethics **Credits:** (5)
  OR other ethics-related courses as approved by Minor advisor.

Total Credits: 26-28

#### **Philosophy Minor**

Required Courses

- PHIL 101 Introduction to Philosophy Credits: (5)
- PHIL 150 Critical Thinking Credits: (5) OR
- PHIL 307 Introduction to Formal Logic Credits: (5)

Philosophy electives Credits: 10-18

Select from PHIL courses; at least 10 credits at 300 level or above.

Total Credits: 20-28

#### **Religious Studies Minor**

Required Courses

• RELS 101 - World Religions Credits: (5)

Select from the following - Credits: 5

- PHIL 305 Philosophy of Religion Credits: (5)
- PHIL 376 Contemporary Religious Thought Credits: (5)
- RELS 201 Sacred Books of the World Credits: (5)

Select from the following - Credits: 5

• RELS 351 - Religions of China and Japan Credits: (5)

- RELS 352 Religions of India Credits: (5)
- RELS 353 Judaism Credits: (5)
- RELS 354 Christianity Credits: (5)

#### Select Either - Credits: 5

- RELS Upper Division Electives OR
   PHIL courses cannot be used here if used to fulfill requirements for the major or minor in Philosophy.
- PHIL 305 Philosophy of Religion Credits: (5)
- PHIL 351 Medieval Philosophy Credits: (5)
- PHIL 376 Contemporary Religious Thought Credits: (5)
- PHIL 378 Philosophy of Love **Credits:** (5)

Total Credits: 20

#### **Philosophy Courses**

#### PHIL 101. Introduction to

Philosophy (5). Introduction to the basic themes, thinkers, and topics of philosophy. The mindbody problem, good versus evil, knowledge, truth, goodness, and beauty. AH-Philosophies and Culture World (W)

#### PHIL 115. The Meaning of Life (5).

Original sources from diverse philosophical traditions explore various responses to the question of the meaning of life, considering the most significant human aspirations and values. AH-Philosophies and Culture World (W)

#### PHIL 150. Critical Thinking (5).

This course will focus on informal logic: understanding and evaluating arguments in ordinary language. Students will learn to read, write, and think critically.

#### PHIL 201. Introduction to Logic

(5). Formal principles, methods and techniques for analyzing, constructing, and evaluating arguments. Topics include validity, soundness, truth tables, Venn diagrams, syllogisms, and logical symbolism. Basic Skills 5 - Logic

#### PHIL 202. Introduction to Ethics

(5). Examine some main traditions of ethics, such as Christian ethics, Buddhist ethics, Confucian ethics, ethical absolutism and relativism, utilitarianism, deontology, and feminist ethics. AH-Philosophies and Culture World (W)

#### PHIL 209. Asian Philosophy (5).

Examination of selected classical and/ or contemporary issues and

questions in Chinese, Japanese and Indian philosophy. AH-Philosophies and Culture World (W)

#### PHIL 210. Current Ethical Issues

(5). Contemporary ethical theories from diverse traditions applied to current ethical problems. Recent ethical approaches to euthanasia, abortion, capital punishment, affirmative action, and environmental concerns. AH-Philosophies and Culture World

#### PHIL 298. Special Topics (1-6).

**PHIL 299. Seminar** (1-5).

PHIL 302. Ethics (5). Man as moral agent; nature of moral decision; ethical theories; their relevance to moral practice.

# PHIL 303. Aesthetics (5). Aesthetic object and its qualities, the aesthetic experience, and evaluation of works of art.

#### PHIL 304. Business Ethics (5).

Ethical problems that arise in contemporary business practices and the relevance of recent ethical theory to these problems.

#### PHIL 305. Philosophy of Religion

(5). Fundamental assumptions and issues in religious activity and thought; types of religious philosophy.

#### PHIL 306. Environmental Ethics

(5). An examination of various positions on the human relationship with the natural environment, from ancient and contemporary, western and non-western, as well as interdisciplinary perspectives. Prerequisite: sophomore standing

or above. AH-Philosophies and Culture World (W)

#### PHIL 307. Introduction to Formal

Logic (5). An introduction to formal logic, focusing on propositional and predicate calculus. Logical operators, symbolization, truth functions, truth tables, natural deduction (including conditional and direct proofs), and quantifiers.

#### PHIL 308. Medical Ethics (5).

Explores ethical issues arising in a medical context, such as the allocation of scarce medical resources and health care, patient confidentiality, advance directives, human experimentation, and physicianassisted suicide.

#### PHIL 320. American Indian

Philosophy (5). The course examines philosophy indigenous to North America through native and non-native historical and contemporary sources; explores the interplay of native and nonnative philosophical concepts and the influence of indigenous American roots on contemporary American philosophy. AIS 320 and PHIL 320 are cross-listed courses; students may not receive credit for both.

#### PHIL 324. Philosophy and Science

Fiction (5). Covers issues in analytic philosophy via examination of science fiction works. Topics may include skepticism, free will, personal identity, artificial intelligence, machine ethics, transhumanism, genetic engineering and time travel.

#### PHIL 325. Women and Philosophy

- (5). An examination of what the history of philosophy has claimed about the significance of gender with particular attention to the characterization of women in those texts and the impact of this history on contemporary thought.
- PHIL 345. Chinese Philosophy (5).
  Selected philosophical topics in
  Chinese literature.
- PHIL 347. Philosophy of Law (5). Examines theories regarding the origin and justification of legal systems, including; natural law theory, legal positivism, and legal realism. Topics may include; civil disobedience, religious freedom, affirmative action, pornography, the insanity defense, and punishment.
- PHIL 348. Social and Political
  Philosophy (5). An examination
  of the philosophical foundations
  of major modern social and
  political systems such as classical
  conservatism, liberalism,
  socialism, fascism, and
  anarchism.
- PHIL 351. Medieval Philosophy (5). Latin, Arabic, and Jewish traditions.
- PHIL 352. Western Philosophy I: Ancient Greek Philosophy (5). Offers an overview of Ancient Greek Philosophy from the Presocratic period up to and including the Hellenistic period.
- PHIL 353. Western Philosophy II:
  Rationalism and Empiricism (5).
  A study of some of the influential philosophies of the 17th and 18th centuries: Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. Prerequisite: sophomore standing or above.
- PHIL 354. Western Philosophy III:
  Kant and the 19th Century (5). A
  study of European philosophers
  from the late 18th and 19th
  centuries. The course focuses on
  primary texts from such
  philosophers as Kant, Hegel,
  Marx, Kierkegaard, and Nietzche.
- PHIL 355. Contemporary Thought (5). 20th century; James, Russell, Whitehead, Dewey, Ayer, Sartre, and Jaspers.
- PHIL 356. American Philosophies (5). Examines the development of American philosophies from the

Colonial period to the present, including African American, Native American, Latin American philosophies, American pragmatism, transcendentalism, American feminism, and others.

# PHIL 357. Race, Class, and Gender: Philosophical Perspectives (5).

An examination of historical and contemporary writings that address issues of race, ethnicity, class, gender, and sexual orientation from philosophical perspectives.

- PHIL 358. Existentialism (5). Kierkegaard, Nietzsche, Marcel, Heidegger, Jaspers, and Sartre.
- PHIL 361. Theory of Knowledge (5). A critical study of contemporary analytic epistemology. Topics may include belief, evidence, and perception; skepticism and justification; a priori knowledge; induction; knowledge of other minds: the ethics of belief: truth

and relativism.

- PHIL 364. Philosophy of Mind (5).
  A critical study of contemporary analytic philosophy of mind.
  Topics may include dualism, materialism, functionalism, consciousness, intentionality and representation, the computational theory of mind, artificial intelligence, and animal minds.
- PHIL 376. Contemporary Religious
  Thought (5). An examination of recent and contemporary writings which reflect the "religious condition" in contemporary western culture. Readings will be chosen from such writers as Nietzsche, Kierkegaard, Freud, Marx, Sartre, Marcel, Buber, Bonhoeffer, Maritain, Dewey, the Niebuhrs, Tillich, Whitehead, and Teilhard de Chardin
- PHIL 378. Philosophy of Love (5).

A study of various concepts of love as they occur in philosophy, literature, and other cultural expressions. The nature of romantic love, eros, agape, friendship, and fellow feeling will be discussed. Prerequisite: sophomore standing or above. AH-Philosophies and Culture World (W)

PHIL 379. Philosophy of Music (3). Great music as a source of insights into human beings and

the world. PHIL 379 and MUS 379 are equivalent courses; students may not receive credit for both.

- PHIL 380. Philosophy of Science
- (5). A critical study of the aims, structure, and methodology of the sciences. Topics covered may include explanation, prediction, induction, theories, scientific realism, empiricism, laws, and confirmation.
- PHIL 402. Ethics and Film (5). An examination of ethical theories and themes in film, including the ethics of filmmaking. Films will be selected from a wide range of possibilities, including foreign productions.
- PHIL 459. Phenomenology (5). A historical and critical study of phenomenology as a philosophic method. Leading phenomenologists such as Husserl, Scheler, and Merleau-Ponty
- PHIL 465. Advanced Ethics (5).

Contemporary ethical theory. Ethical disagreement, moral truth, value concepts, moral reasoning, normative sentences.

PHIL 488. Junior Seminar (5).

Intensive study of selected philosophical theories, movements, or figures.
Prerequisite: student must be a philosophy major with junior or senior standing or have permission from the instructor.
May be repeated up to 10 credits under a different subtitle.

PHIL 490. Cooperative Education (1-12). An individualized,

contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

PHIL 494. Undergraduate Thesis
Preparation (2). Preparation for
writing undergraduate thesis.
Prerequisites: advanced standing
By permission.

#### PHIL 495. Undergraduate Thesis

(3). Produce an original substantive thesis-driven paper based on independent research. Prerequisite: PHIL 494 and advanced standing. By permission.

#### PHIL 496. Individual Study (1-6). PHIL 497. Honors Thesis (3).

Produce an original, thesis-driven honors level paper based on original research. Paper will be reviewed by a second departmental reader and presented in an open forum. Prerequisites: PHIL 494, advanced standing, and admission to the Philosophy and Religious Studies Departmental Honors Program.

PHIL 498. Special Topics (1-6). PHIL 499. Seminar (5).

#### **Religious Studies Courses** RELS 101. World Religions (5).

Survey of the major world religions (Judaism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Daoism), including their tenets, practices, and evaluation of the human condition. AH-Philosophies and Culture World (W)

#### RELS 201. Sacred Books of the

World (5). Comparative study of religious thought and literature from eastern and western classics: Upanishads, Bhagavad-Gita, Dhammapada, Tao Te Ching, Hebrew Bible, New Testament, Koran. AH-Philosophies and Culture World (W)

#### **RELS 301. Man in Religious**

Thought (5). Human existence as perceived by religious thinkers, both classical and contemporary, in the Judaic, Christian, Hindu. Buddhist, Taoist, and Confucian traditions.

#### **RELS 320. American Indian**

Spirituality (5). Introduction to American Indian spirituality with emphasis on myths, rituals, and beliefs and including historical, economic, political and legal issues that influence the ways of American Indian spiritual practice; Ghost Dance, Native American Church, etc. AIS 321 and RELS 320 are cross-listed

courses; students may not receive credit for both.

#### RELS 351. Religions of China and Japan (5). Historical development of Daoism, Confucianism, Shinto, and East Asian Buddhism within China and Japan, from their origins to the present. Analysis of beliefs, practices, symbols, and

#### RELS 352. Religions of India (5). Historical development of

institutions.

Hinduism, Buddhism, Sikhism, and Jainism within India, from their origins to the present. Analysis of beliefs, practices, symbols, and institutions.

RELS 353. Judaism (5). Historical development of Judaism from its beginning to the present. Analysis of beliefs, practices, symbols, and institutions. Prerequisites: RELS 101 or RELS 201 or permission of instructor.

#### RELS 354. Christianity (5).

Historical development of Christianity, from its origins to the present. Analysis of beliefs, practices, symbols, and institutions.

RELS 355. Islam (5). Historical development of Islam, from its origins to the present. Analysis of beliefs, practices, symbols, and institutions. Prerequisites: RELS 101 or RELS 201 or permission of instructor.

#### **RELS 376. Contemporary**

**Religious Thought** (5). Explores the nature of post-modern and/ or contemporary philosophic, as well as religious thought, west and east, related to such topics as the nature of religion, the idea of God, the problem of evil, inter-religious dialogue and religious pluralism. May be repeated up to 10 credits.

#### RELS 398. Special Topics (1-6). **RELS 401. The Daoist Tradition**

(5). An examination of the textual and cultural tradition associated with Daoism, China's indigenous high religion.

#### RELS 402. Religion and Film (5).

An examination of religious themes in film, including the portrayal of specific religious traditions and sacred narratives. Films will be selected from a wide range of possibilities, including foreign productions.

#### RELS 403. Buddhist Thought and Practice (5). In depth study of the Buddhist tradition, including its

practices, philosophy, and historical development across Asia, and its introduction to the

RELS 410. The Legacy of the

Hebrew Bible (5). A multidisciplinary exploration of the Hebrew Bible, seeking to understand both the Bible's influence on and perception in a variety of disciplines (e.g. art, literature, music, film).

#### **RELS 411. Lost Books of the Bible**

(5). An examination of the origin, content, and ideology of Jewish Hellenistic and Intertestamental literature excluded in the canons of the Hebrew Bible/Old Testament or New Testament. Prerequisites: RELS 201, RELS 353 or RELS 410.

RELS 453. The Holocaust - A Quest for Meaning (5). Explores the historical, religious, and philosophical dimensions of the Holocaust experience, drawing on Holocaust and post-Holocaust expression (survivor memoirs,

#### RELS 490. Cooperative Education

literature, art, music).

(1-12). An individualized. contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

**RELS 491. Workshop** (1-6). May be repeated for credit.

**RELS 494. Undergraduate Thesis Preparation** (2). Preparation for writing undergraduate thesis. Prerequisite: junior standing or above. By permission.

#### **RELS 495. Undergraduate Thesis**

(3). Produce an original substantive thesis-driven paper based on independent research. Prerequisite: RELS 494 and advanced standing. By permission.

#### RELS 496. Individual Study (1-6). RELS 497. Honors Thesis (3).

Produce an original, thesisdriven honors level paper based on original research. Paper will be reviewed by a second departmental reader and presented in an open forum. Prerequisites: PHIL 494, advanced standing, and admission to the Philosophy and Religious Studies Departmental Honors Program. RELS 498. Special Topics (1-6). RELS 499. Seminar (3-5).

#### Physical Education, School and Public Health Department

College of Education and Professional Studies Ellensburg Dorothy Purser Hall, room 101 509-963-1911 Fax: 509-963-1848 www.cwu.edu/pe-health

See website for how these programs may be used for educational and career purposes.

#### **Faculty and Staff**

#### Chair

Kenneth Briggs, EdD

#### **Professors**

Kenneth Briggs, EdD, health education, pedagogy Stephen C. Jefferies, PhD, physical education, pedagogy Melody Madlem, PhD, CHES, public health, health education Kirk Mathias, EdD, physical education, pedagogy

#### **Associate Professor**

Heidi Henschel Pellett, EdD, physical education, pedagogy

#### **Assistant Professors**

Vanessa Harbor, PhD, public health
Rebecca Pearson, MPH, PhD, public health, health education
Mark Perez, PhD, school health, pedagogy
Richard Unruh, EdD, athletic administration
Pete Van Mullem, EdD, athletic administration
P. Stefan Ward, PhD, physical education, pedagogy
Therese Young, MA, dance, physical education

#### Lecturer

Kristine Espinoza, MS, health education, pedagogy

#### **Emeritus Professors**

Gary Frederick, EdD, physical education Andrew P. Jenkins, PhD, health education Robert McGowan, PhD, sport psychology and athletic administration

#### Staff

Rhonda Busch-Gehlen, assistant to the chair Joy Chrismer, NPAV building coordinator, equipment manager Debra D'Acquisto, activity program coordinator Edith Fowler, PESPH department manager Debbie Nethery, pool manager

#### **Department Information**

The mission of the Department of Physical Education, School, and Public Health (PESPH) is to promote health and active lifestyles. The vision of the Department is to create highly recognized and respected academic programs in which students gain the knowledge, skills, and dispositions to be successful in their profession. This mission and vision and the following core values help to guide program decisions within the department:

- Professional environment based on ethical behavior, respect, and integrity
- Quality of life through health promotion, healthy communities, and active lifestyles
- Student focused learning environment based on respect, relevance, and rigor

Social justice and diversity

Proudly, graduates of each major program in the department are highly qualified to enter careers in physical education and school health or public health.

#### **Departmental Programs**

Physical Education and School Health (PESH) Major

Physical Education - Coaching Minor

Physical Education - Dance Minor

Physical Education - Dance: Teaching Minor

Physical Education - Activity Program

Public Health Major - Community Health Specialization

Public Health Major – Pre-nursing in Public Health Specialization

Public Health - Community Health Education Minor

#### Physical Education and School Health Major, BS

#### **Program Director**

Heidi Henschel Pellett, EdD

#### **Program Advisors**

Kenneth Briggs, EdD, health education, pedagogy Stephen C. Jefferies, PhD, physical education, pedagogy Heidi Henschel Pellett, EdD, physical education, pedagogy Kirk Mathias, EdD, physical education, pedogogy Mark Perez, EdD, health education, pedagogy P. Stefan Ward, PhD, physical education, pedagogy

This major satisfies the Washington State endorsement for K-12 health/ fitness.

#### **Admission Description and Requirements**

Students may enter the physical education and school major in either the fall or winter quarters. Students planning to enter this dynamic and innovative pedagogically oriented program need to meet with the program director prior to admission. This program coupled with teacher education requirements is designed to satisfy the Washington State Teaching Endorsement requirements to teach K-12 health and fitness. The following additional requirements also apply:

- 1. Classes in this major are organized over six consecutive quarters and must be taken in sequence.
- 2. Students who receive less than a C grade in any class that is a prerequisite for others will not be permitted to continue in the major.
- 3. Students taking this major who plan to teach in Washington State public schools are required to complete the Professional Education Program requirements offered through the Teacher Certification Program in the College of Education and Professional Studies.
- 4. Students may also graduate with a nonteaching BS degree in physical education and school health.
- 5. All students must complete a professional portfolio prior to beginning student teaching. Non-teaching majors must complete the portfolio prior to graduation.
- 6. Professional dress requirements apply to many classes in this major. Students must comply with these requirements to participate in the program.

See the physical education, school, and public health website for more information: www.cwu.edu/~pesph. For the major application procedure, contact the physical education and school health program director.

#### Required Courses

- EMS 245 First Aid Credits: (3)
- EXSC 350 Anatomical Kinesiology **Credits:** (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- EXSC 463 Pediatric Issues in Exercise Science Credits: (5)
- HED 101 Health Essentials Credits: (4)
- HED 210 Drugs and Health Credits: (3)
- HED 326 Human Diseases Credits: (5)
- HED 345 School Health Curriculum/ Materials **Credits:** (3)
- HED 387 Principles of Fitness and Stress Management Credits: (3)
- HED 422 Methods for Health Promotion Credits: (4)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

- PED 309 Teaching Methods: Recreational Dance **Credits:** (3)
- PESH 280 Foundations of Physical Education and School Health Credits: (4)
- PESH 336 Practicum 1 Credits: (2)
- PESH 341 Characteristics of Effective Physical Education Teaching Credits: (3)
- PESH 342 Developmental Movement Credits: (4)
- PESH 343 Pedagogical Application of Teaching Styles and Systematic Reflection Credits: (3)
- PESH 344 Applications of Technology in Teaching Fitness and Physical Activity Credits: (3)
- PESH 348 Applications of the Fundamental Movements of Striking Credits: (3)
- PESH 350 Propulsive and Receptive Skills and Sports Credits: (4)
- PESH 356 Teaching Lifelong Physical Activity Pursuits Credits: (3)
- PESH 437 Practicum 2 Credits: (3)
- PESH 438 Practicum 3 Credits: (3)
- PESH 444 Professionalism in the Schools **Credits:** (2)
- PESH 445 Curriculum Development and Assessment in Physical Education Credits: (3)
- PESH 456 Facilitating and Leading Adventure Activities in the Schools Credits: (2)

Total Credits: 85

#### **Public Health Major, BS**

#### **Program Director**

Melody Madlem, PhD

#### Advisors

Vanessa Harbour, PhD Jennifer Lehmbeck, MPH, PhD Melody Madlem, PhD Rebecca Pearson, MPH, PhD

#### **Program Information**

The mission of the Public Health Education Program at Central Washington University is to create an atmosphere of mutual respect, resulting in a positive impact on the health of individuals, groups, communities, and the world at large.

The program student-centered and evidence-based prepares professionals to plan, implement, and evaluate innovative strategies that promote social justice, health and well-being for individuals, groups, communities, and the world at large.

Faculty members of the Public Health Education Program share an essential passion, embodied in our roles as teachers and life-long learners, to serve the needs of our students. We are committed to the following values:

- Healthy people in healthy communities
- Professionalism: ethics, honesty, respect, and integrity
- Commitment to learning: relevance, rigor, collaboration, and collective wisdom
- Diversity of ideas, people, and cultures

Students in this program major in public health and must specialize in either community health education or pre-nursing in public health. Please contact the program director for an application.

#### **Bachelor of Science**

#### **Public Health Major**

Students who major in public health are trained to be at the leading edge of prevention and health promotion. Specializing in either community health education or pre-nursing in public health, students are prepared to work with individuals, groups, or entire communities on a myriad of population-based health issues.

Special requirements other than departmental:

HED 230 must be taken prior to HED 422, HED 230 and HED 310 must be taken prior to HED 475.

#### Public Health Core Requirements

- HED 210 Drugs and Health Credits: (3)
- HED 230 Foundations of Health Education Credits: (3)
- HED 310 Community Health Credits: (3)
- HED 317 International Health **Credits:** (3)
- HED 320 Environmental Health Education Credits: (3)
- HED 330 Health Assessment Credits: (4)
- HED 370 Current Trends in Health and Health Education Credits: (3)
- HED 387 Principles of Fitness and Stress Management Credits: (3)
- HED 422 Methods for Health Promotion Credits: (4)
- HED 445 Health Education Professionalism Credits: (1)
- HED 450 Community Organization and Coalition Development Credits: (3)
- HED 471 Program Planning I **Credits:** (5)
- HED 472 Program Planning II Credits: (5)
- HED 473 Health Education Program Evaluation Credits: (3)
- HED 475 Community Health Administration Credits: (3)
- HED 490 Cooperative Education **Credits:** (1-12)
  - (Must be taken for 10 credits)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

Total Core Credits: 64

#### **Community Health Education Specialization**

The community health education specialization (CHED) will prepare students to assess, plan, implement, and evaluate health programs that are designed to improve quality of life for all. Emphasis is placed on population health and the myriad of influencing factors as they relate to community. Students are encouraged to complete the Comprehensive Health Education Specialist (CHES) exam upon completion of the program.

#### Required Courses

#### Public Health Core Requirements

- HED 210 Drugs and Health Credits: (3)
- HED 230 Foundations of Health Education Credits: (3)
- HED 310 Community Health Credits: (3)
- HED 317 International Health Credits: (3)
- HED 320 Environmental Health Education Credits: (3)
- HED 330 Health Assessment Credits: (4)
- HED 370 Current Trends in Health and Health Education Credits: (3)
- HED 387 Principles of Fitness and Stress Management Credits: (3)
- HED 422 Methods for Health Promotion Credits: (4)
- HED 445 Health Education Professionalism Credits: (1)
- HED 450 Community Organization and Coalition Development Credits: (3)
- HED 471 Program Planning I **Credits:** (5)
- HED 472 Program Planning II Credits: (5)
- HED 473 Health Education Program Evaluation Credits: (3)
- HED 475 Community Health Administration Credits: (3)
- HED 490 Cooperative Education **Credits:** (1-12) (Must be taken for 10 credits)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

#### Total Core Credits: 64

#### Additional Required Courses

- Department approved electives Credits: (9)
- FS 337 Human Sexuality Credits: (4)
- HED 209 Consumer Health Credits: (3)
- HED 323 Infectious Disease Credits: (3)
- HED 324 Non-infectious Disease Credits: (4)
- HED 340 Technological Applications in Health Education Credits: (3)
- HED 380 Epidemiology Credits: (3)
- HED 440 Social Marketing of Health Education Programs Credits: (3)
- HED 460 Controversial Issues in Health Education **Credits:** (3)

Total Credits: 99

#### **Pre-Nursing in Public Health Specialization**

The pre-nursing in public health specialization within the public health major prepares students to meet entrance requirements to bachelor of science in nursing (BSN) programs throughout Washington. Armed with leading-edge scientific knowledge and liberal arts content, combined with an extensive public health internship, the pre-public health nursing specialization allows future professionals to enter nursing school with a solid background in public health theory and practice. CWU does not offer a degree program in nursing, but offers all prerequisite courses necessary for successful admission to professional nursing programs available across Washington.

Most pre-nursing students will complete the BS degree in public health with a specialization in pre-nursing in public health. The specialization also prepares students to assume key roles within public health agencies as health promotion specialists/ prevention specialists. With a comprehensive background in population-based health, graduating students can make immediate contributions to the health of the public.

Pre-requisites for admission to nursing school that meet General Education Requirements for pre-nursing specialization: SOC 101 or 107 or 205; PSY 101; CHEM 111 and CHEM 111LAB; BIOL 201.

#### Public Health Core Requirements

- HED 210 Drugs and Health Credits: (3)
- HED 230 Foundations of Health Education Credits: (3)
- HED 310 Community Health Credits: (3)
- HED 317 International Health Credits: (3)
- HED 320 Environmental Health Education Credits: (3)
- HED 330 Health Assessment **Credits:** (4)
- HED 370 Current Trends in Health and Health Education Credits: (3)
- HED 387 Principles of Fitness and Stress Management Credits: (3)
- HED 422 Methods for Health Promotion Credits: (4)
- HED 445 Health Education Professionalism Credits: (1)
- HED 450 Community Organization and Coalition Development Credits: (3)
- HED 471 Program Planning I **Credits:** (5)
- HED 472 Program Planning II Credits: (5)
- HED 473 Health Education Program Evaluation Credits: (3)
- HED 475 Community Health Administration Credits: (3)
- HED 490 Cooperative Education Credits: (1-12) (Must be taken for 10 credits)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

#### Total Core Credits: 64

#### Pre-Nursing in Public Health Required Courses

- BIOL 220 Introductory Cell Biology **Credits:** (5)
- BIOL 322 Introductory Microbiology **Credits:** (5)
- BIOL 355 Human Anatomy and Physiology Credits: (5)
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- CHEM 112 Introduction to Organic Chemistry Credits: (4)
- CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1)
- CHEM 113 Introduction to Biochemistry Credits: (4)
- CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- PSY 313 Developmental Psychology Credits: (4)

Total Required Course Credits: 39

Total Credits: 103

#### **Community Health Education Minor**

The minor in community health education is an excellent supporting option for individuals interested in the health and human services fields. Students will gain insight into public health processes and settings, skills in needs assessment, program planning, and program evaluation.

#### Required Courses

- HED 230 Foundations of Health Education Credits: (3)
- HED 310 Community Health Credits: (3)
- HED 323 Infectious Disease Credits: (3)
- HED 324 Non-infectious Disease Credits: (4)
- HED 422 Methods for Health Promotion Credits: (4)
- HED 460 Controversial Issues in Health Education Credits: (3)
- HED 471 Program Planning I **Credits:** (5)

• HED 472 - Program Planning II Credits: (5)

Total Credits: 30

#### **Dance Performance Minor (PESPH)**

#### **Program Director**

Therese Young

The dance performance minor is an interdisciplinary minor administered jointly by the dance and theatre arts faculty designed for students who wish to broaden their academic background and receive a well-rounded dance education, thus preparing them in the area of dance performance in a wide variety of settings. Students will develop competencies in choreography, rhythmic concepts, and dance production.

Requirement: Minimum of one year active membership in Orchesis Dance Company and PED 112.

Dance Performance Minor

#### Required Courses

- PED 102 Modern Dance II Credits: (2)
- PED 103 Modern Dance III Credits: (2)
- PED 112 Dance Rehearsal and Performance Credits: (1)
- PED 142 Jazz Dance II **Credits:** (1)
- PED 143 Jazz Dance III Credits: (1)
- PED 161 Cultural History of Dance Credits: (4)
- PED 204 Ballet II (Level 1) Credits: (2)
- PED 205 Ballet II (Level 2) Credits: (2)
- PED 206 Ballet II (Level 3) **Credits:** (2)
- PED 211 Music for Dance Rhythms and Resources Credits: (2)
- PED 301 Choreography Credits: (3)
- PED 302 Dance Production Credits: (3) OR
- TH 301 Production Application Credits: (3)

Choose any of the following for a minimum of 10 credits:

- PED 116 Beginning Folk Dance Credits: (1)
- PED 121 Tap Dance I Credits: (1)
- PED 122 Tap Dance II **Credits:** (1)
- PED 135 Ballroom Dance I **Credits:** (1)
- PED 136 Ballroom Dance II Credits: (1)
- PED 138 Swing Dance I Credits: (1)
- PED 139 Swing Dance II Credits: (1)
- TH 252 Stage Dance Credits: (2)
- TH 353 Stage Properties Credits: (3)

Total Credits: 37

#### **Physical Education - Coaching Minor**

#### **Program Coordinator**

Heidi Henschel Pellett, EdD

It is recommended for students to obtain state teaching certification for permanent employment coaching opportunities.

The coaching minor meets the standards of the Washington Interscholastic Athletic Association (WIAA) regarding recommended standards for employment at the Preferred Coach Level. Requirements (Item 23.4.1, WIAA Handbook) for all levels listed below.

These levels are:

Beginning Coach Experienced Coach Preferred Coach

#### Required Courses

- EMS 245 First Aid Credits: (3)
- EXSC 348 Prevention and Treatment of Athletic Injuries Credits: (4)
- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- EXSC 351 Scientific Foundations of Health and Fitness Credits: (4)
- EXSC 351LAB Scientific Foundations of Health and Fitness Laboratory Credits: (1)
- HED 205 Drugs and Sport Credits: (2)
- PE 346 Administration of Athletes **Credits:** (3)
- PE 365 Foundations of Coaching Credits: (3)
- PE 448 Coaching and Competitive Ethics **Credits:** (3)
- PE 453 Psychological and Sociological Foundations of Coaching Credits: (3)

#### Electives

Select a minimum of 6 credits from the following:

- PE 321 Football Coaching Credits: (3)
- PE 323 Basketball Coaching Credits: (3)
- PE 324 Track Coaching **Credits:** (3)
- PE 325 Baseball Coaching Credits: (3)
- PE 326 Theory of Coaching Soccer Credits: (3)
- PE 330 Volleyball Coach Credits: (3)
- PE 442 Field Work in Physical Education Credits: (1-6)
- PE 521 Advanced Football Coaching (3)
- PE 523 Advanced Basketball Coaching (3)
- PE 524 Advanced Track Coaching (3)
- PE 525 Advanced Baseball Coaching (3)

Total Credits: 37

#### **Physical Education - Dance Minor**

#### **Program Coordinator**

Therese Young, MA

The dance minor is designed for students who wish to broaden their academic background and receive a well-rounded dance education, thus preparing them to teach dance and/or dance activities in a wide variety of settings.

Students will be required to complete both coursework and technique classes in those areas of dance frequently taught in a K-12 setting. Additionally, students will develop competencies in choreography, rhythmic concepts, dance production, and teaching.

Requirement: minimum of one-year active membership in Orchesis Dance Company.

#### Required Courses

- PED 101 Modern Dance I Credits: (2)
- PED 102 Modern Dance II Credits: (2)
- PED 103 Modern Dance III Credits: (2)
- PED 104 Ballet I (Level 1) Credits: (2)
- PED 105 Ballet I (Level 2) Credits: (2)
- PED 106 Ballet I (Level 3) Credits: (2)
- PED 116 Beginning Folk Dance Credits: (1)

- PED 135 Ballroom Dance I Credits: (1)
- PED 161 Cultural History of Dance Credits: (4)
- PED 211 Music for Dance Rhythms and Resources Credits: (2)
- PED 302 Dance Production Credits: (3)
- PED 309 Teaching Methods: Recreational Dance Credits: (3)
- PED 314 Dance for Children Credits: (3)

Total Credits: 29

#### **Physical Education - Dance: Teaching Minor**

#### **Program Coordinator**

Therese Young, MA

**Requirement:** minimum of one-year active membership in Orchesis Dance Company. This minor satisfies the endorsement for dance.

#### Required Courses

- EXSC 350 Anatomical Kinesiology Credits: (4)
- EXSC 350LAB Anatomical Kinesiology Laboratory Credits: (1)
- PED 101 Modern Dance I **Credits:** (2)
- PED 102 Modern Dance II Credits: (2)
- PED 103 Modern Dance III Credits: (2)
- PED 104 Ballet I (Level 1) Credits: (2)
- PED 105 Ballet I (Level 2) Credits: (2)
- PED 106 Ballet I (Level 3) Credits: (2)
- PED 116 Beginning Folk Dance **Credits:** (1)
- PED 135 Ballroom Dance I Credits: (1)
- PED 161 Cultural History of Dance Credits: (4)
- PED 211 Music for Dance Rhythms and Resources Credits: (2)
- PED 301 Choreography **Credits:** (3)
- PED 302 Dance Production Credits: (3)
- PED 309 Teaching Methods: Recreational Dance **Credits:** (3)
- PED 314 Dance for Children Credits: (3)
- PED 315 Teaching Methods: Modern and Ballet Dance Credits: (3)

Total Credits: 40

#### **Physical Education Courses**

PE 298. Special Topics (1-6).

PE 321. Football Coaching (3).

PE 323. Basketball Coaching (3).

PE 324. Track Coaching (3).

PE 325. Baseball Coaching (3).

#### PE 326. Theory of Coaching Soccer

(3). This course provides an indepth examination of the coaching of soccer at all school age levels. May be repeated up to 6 credits.

PE 330. Volleyball Coach (3).

#### PE 334. Physical Education

Activities for the Elementary School (3). Selection,

organization, and presentation of physical education activities in the elementary school.

Prerequisite: current WSP/FBI

fingerprint clearance, and conditional or full admission to the Teacher Certification Program.

#### PE 346. Administration of Athletes

(3). The course will provide the student with an overview of the role of the athletic director as the leader, manager, organizer, and director of the interscholastic and intercollegiate programs in public and private schools. Prerequisite: PE 365.

#### PE 365. Foundations of Coaching

(3). Introduction to principles and methods of coaching sports with children and youth.

PE 398. Special Topics (1-6).

#### PE 442. Field Work in Physical

**Education** (1-6). Class to be arranged by college supervisor. May be repeated for credit. Grade will either be S or U.

#### PE 448. Coaching and Competitive

Ethics (3). This course is to enable the student to understand and apply ethical values as a practitioner (coach) in the realm of competitive sport. Prerequisite: PE 365.

# PE 453. Psychological and Sociological Foundations of

Coaching (3). Investigation of factors affecting individual and group behavior in the coaching of interscholastic sports.

Prerequisite: PE 365.

#### PE 484. Legal Liability and Risk

Management (3). Aspects of personal law, premises liability, and risk management affecting policy, and behavior within the physical education and coaching profession.

#### PE 491. Workshop Clinic (1-6).

Letter grades or S or U grades may be given at the option of the Department of Physical Education. May be repeated for credit.

**PE 496. Individual Study** (1-6). **PE 498. Special Topics** (1-6). **PE 499. Seminar** (1-5).

#### Physical Education Health Courses PESH 280. Foundations of Physical Education and School Health (4).

Fundamental issues, theories, paradigms, constructs, history, and experiences necessary for an understanding of teaching Health and Physical Education as a profession and lifestyle.

Prerequisite: current WSP/ FBI fingerprint clearance.

**PESH 335. Practicum** (1). Students will observe and assist in PE classes at elementary and secondary levels in a local school for 4 hours/ week throughout the quarter.

PESH 336. Practicum 1 (2). Physical education teaching practicum. Prerequisite: PESH 280, and current WSP/FBI fingerprint clearance.

# PESH 341. Characteristics of Effective Physical Education

**Teaching** (3). Examination of selected pedagogical principles and their impact on the teaching of human movement.

Prerequisite: PESH 280.

#### PESH 342. Developmental

Movement (4). Instruction in the analysis and teaching of movement concepts, locomotor, and non-locomotor skills. Prerequisite: PESH 280.

PESH 343. Pedagogical

# Application of Teaching Styles and Systematic Reflection (3).

The purpose of this course is to expand your already-developed effective teaching skills and knowledge to include styles of teaching and systematic analysis. Prerequisites: PESH 341 and PESH 342.

#### PESH 344. Applications of Technology in Teaching Fitness and Physical Activity (3).

Introduces students to the plethora of technological advances being used to teach children about their health. Prerequisite: PESH 280, and current WSP/ FBI fingerprint clearance. Corequisite: PESH 341

PESH 348. Applications of the Fundamental Movements of Striking (3). Identify critical

Striking (3). Identify critical components of striking skills and applicable sports. Prerequisites: PESH 280, PESH 341, PESH 342, PESH 343, PESH 344, and current WSP/FBI fingerprint clearance.

#### PESH 350. Propulsive and

Receptive Skills and Sports (4). Identify critical components of selected manipulative movements and related sports. Prerequisites: PESH 280, PESH 341, PESH 342, and PESH 343.

PESH 356. Teaching Lifelong Physical Activity Pursuits (3).

Introduces students to methodology related to teaching nontraditional activities in traditional and nontraditional settings. Prerequisites: PESH 280, PESH 341, and PESH 342.

PESH 385. Health and

Physiological Fitness Concepts for Teachers (3). This class is designed to provide health and physical education to pre-service teachers; physiological information with an emphasis on application, and its direct implications on teaching K-12 students.

PESH 437. Practicum 2 (3). Physical Education teaching practicum. Prerequisites: PESH 280, PESH 336, and current WSP/FBI fingerprint clearance.

PESH 438. Practicum 3 (3). Physical education teaching practicum. Prerequisites: PESH 280, 336, and 437.

PESH 444. Professionalism in the

Schools (2). This course provides an opportunity for the learner to assess and to fine-tune student teaching and job readiness as excellent educators. To be taken one or two quarters before student teaching. Prerequisite: this class requires admission to either the physical education or school health education major.

#### PESH 445. Curriculum

in Physical Education (3). Examination of specific pedagogical principles and their impact on the teaching of human movement. Prerequisites: PESH

**Development and Assessment** 

341, PESH 342, and PESH 343.

PESH 456. Facilitating and

Leading Adventure Activities in
the Schools (2). Identify critical
components of selected outdoor
pursuits and circus arts activities.
Prerequisites: PESH 280, PESH
341, PESH 342, PESH 343, PESH

**Aquatics Courses** 

PEAQ 110. Springboard Diving (1). PEAQ 111. Beginning Swimming (1).

PEAQ 112. Intermediate

356, and PESH 350.

**Swimming** (1). Prerequisite: must be able to swim 50 yards.

#### PEAQ 113. Advanced Swimming

(1). Refinement of standard strokes and dives. Prerequisite: ability to swim 200 yards continuously, employing at least three strokes. Refinement of standard strokes and dives.

#### **PEAQ 114. Swim Conditioning** (1).

Prerequisite: must be an intermediate swimmer.

PEAQ 116. Water Polo (1).

Prerequisite: must be an intermediate swimmer.

PEAQ 118. Aquacises (1). Designed to increase the physical fitness of individuals through water exercises and jogging. Open to both swimmers and nonswimmers. May be repeated for credit

PEAQ 120. Advanced Springboard

**Diving** (1). Advanced diving is designed to further the students' knowledge and skill in springboard diving. Students will perform dives of varying degrees of difficulty. Prerequisite: PEAQ 110.

PEAQ 198. Special Topics (1).

#### **Dance Courses**

**PED 101. Modern Dance I** (2). Basic modern dance techniques and beginning composition. One hour lecture; two hours laboratory per week.

#### PED 102. Modern Dance II (2).

Four hours of intermediate modern dance theory and technique. Experience in solo and group compositions. Prerequisite: PED 101.

#### PED 103, Modern Dance III (2).

Four hours of advanced modern dance theory and techniques. Emphasis on performance and solo composition. Experience in organizing and presenting programs. Prerequisite: PED 102.

#### **PED 104. Ballet I (Level 1) (2).**

Beginning technique in classical ballet, including barre, center work, and enchainments (center combinations).

#### PED 105. Ballet I (Level 2) (2).

Intermediate technique in classical ballet including barre, center work, and enchainments (center combinations).

Prerequisite: PED 104.

#### PED 106. Ballet I (Level 3) (2).

Advanced technique in classical ballet including barre, center work, and enchainments (center combinations). Prerequisite: PED 105.

#### PED 112. Dance Rehearsal and

**Performance** (1). Open to individuals participating in performances of Orchesis Dance Company. May be repeated for credit.

#### PED 116. Beginning Folk Dance

(1). Traditional recreational dances of various countries.

**PED 121. Tap Dance I** (1).

**PED 122. Tap Dance II** (1).

Prerequisite: PED 115.

#### PED 130. Beginning Yoga (1).

PED 131. Yoga Level II (1). This class will review and refine techniques learned in the beginning yoga class, as well as further discussion and practice of yoga postures and other topics related to yoga. Prerequisite: PED

#### PED 135. Ballroom Dance I (1).

Emphasis on the ballroom styling of the foxtrot and waltz. May be repeated up to 3 credits.

#### PED 136. Ballroom Dance II (1).

Emphasis on the tango and cha cha.

#### **PED 138.** Swing Dance I (1).

Emphasis on ballroom dances of East Coast swing, charleston, and lindy hop. May be repeated for credit.

#### PED 139. Swing Dance II (1).

Emphasis on West Coast swing, continued work on charleston and lindy hop. Prerequisite: PED 138. May be repeated for up to 3 credits.

**PED 141. Jazz Dance I** (1).

PED 142. Jazz Dance II (1).

Prerequisite: PED 141.

#### PED 143. Jazz Dance III (1).

Advanced level jazz dance technique.

#### PED 161. Cultural History of

**Dance** (4). A survey course in the evolution of dance through the ages with emphasis on the major forces that have influenced dance in the 20th century. AH-Aesthetic Experience

#### PED 198. Special Topics (1-6).

#### **PED 204.** Ballet II (Level 1) (2).

Continued training in classical ballet techniques (Level II) including barre and center work. Increased emphasis on beats, multiple turns, and jumps. Prerequisite: PED 106. May be repeated for credit. By permission.

#### PED 205. Ballet II (Level 2) (2).

Continued training in classical ballet technique (Level II) including barre and center work. Increased emphasis on beats, multiple turns, and jumps. Prerequisite: PED 204. May be repeated for credit. By permission.

#### PED 206. Ballet II (Level 3) (2).

Continued training in clasical ballet techniques (Level II) including barre and center work. Increased emphasis on beats, multiple turns, and jumps. Prerequisite: PED 205. May be repeated for credit. By permission.

#### PED 211. Music for Dance -

Rhythms and Resources (2). A study of rhythmic concepts as related to dance movements and composition; an introduction to music resources emphasizing composer/ choreographer collaborations. Prerequisite: PED 101.

#### PED 212. Choreography and

**Production** (2). Choreography and production work for Orchesis Dance Company. May

be repeated for credit. By permission.

PED 301. Choreography (3). The study and practice of choreographic techniques and tools utilizing creative problem solving. Prerequisite: PED 101. Students will meet for two hours laboratory work each week plus two hours lecture.

#### PED 302. Dance Production (3).

Aspects of organizing and mounting a dance production, including scheduling, programming, publicity, costuming, lighting, and sound design.

# PED 309. Teaching Methods: Recreational Dance (3).

Knowledge of skills necessary in the teaching of various forms of recreational dance styles. Two hours lecture and two hours laboratory per week.

#### PED 314. Dance for Children (3).

Strategies for teaching dance in elementary education, including creative dance, rhythmic exploration, use of props, unit plan development, and methods of assessment. Prerequisite: current WSP/ FBI fingerprint clearance.

#### PED 315. Teaching Methods: Modern and Ballet Dance (3).

Teaching methods for modern and ballet technique classes which emphasizes the development of critical and creative thinking skills, observation skills, and assessment skills. Prerequisites: PED 201A and PED 201B.

#### **Fitness Activities Courses**

One credit (1), meets twice weekly.

PEF 110. Conditioning Exercises

#### PEF 111. Intermediate

Conditioning Exercises (1). Prerequisite: PEF 110.

PEF 112. Ski Conditioning (1).

PEF 113. Weight Training (1).

PEF 114. Intermediate Weight

**Training** (1). Prerequisite: PEF 113.

**PEF 115. Jogging** (1).

#### PEF 118. Military Conditioning I

(1). Physical conditioning activities designed to prepare the Army ROTC student for Leader Development Assessment course and active military duty. Course is work-out oriented with emphasis on physical fitness goals. Open to all CWU students. Meets three times weekly. May be repeated up to 4 credits.

# PEF 119. Military Conditioning II (1). Physical conditioning activities designed to prepare the Army ROTC student for Leader Development Assessment course and active military duty. Course is work-out oriented with

emphasis on physical fitness goals. Open to all CWU students. Meets three times weekly. May be repeated up to 4 credits.

#### PEF 120. Military Conditioning III

(1). Physical conditioning activities designed to prepare the Army ROTC student for Leader Development Assessment course and active military duty. Course is work out oriented with emphasis on physical fitness. Open to all CWU students. Meets three times weekly. May be repeated for credit.

PEF 121. Step Aerobics (1).
PEF 122. Dance Fusion (1). Course combines elements of traditional high- and low-impact dance aerobics with zumba, jazz, power yoga, and sport movements into basic combinations.

#### PEF 123. Aerobic Walking (1).

Assessment of present level of cardio respiratory fitness and prescription of an individualized aerobic walking exercise program for increasing and maintaining fitness.

**PEF 126. Kick/Box Aerobics** (1). Safe, effective aerobic work-out mimicking basic self-defense, and boxing movements.

PEF 128. Glute/Abdominal
Conditioning (1). Course
emphasizes abdominal
conditioning, gluteal toning, and
core muscle strengthening in a
low impact format. Background
music and various equipment is
used for an effective workout.

PEF 129. Abdominal Strength
Conditioning (1). Course
emphasizes strengthening and
conditioning the abdominals and
core muscles for appearance and
for performance. Use of
equipment for fun and
effectiveness.

PEF 130. Triathlon Training (1).
PEF 131. Frisbee (1). This course encourages positive social interaction, develops eye-hand coordination skills, is recreational, and may be an avenue to encourage students to become more active in a gentle way.

#### PEF 132. Women's Self Defense

(1). A program of realistic self-defense tactics and techniques for women, including education about awareness, prevention, risk reduction, and risk avoidance of violence. May be repeated up to 4 credits.

PEF 140. Stretch and Strengthen with Fit Balls (1). This course combines balance, stretch, and strength training using a variety of soft fitness balls. Dynamic balancing skills will be taught using the BOSU and physioball. Strength and core drills will be taught using medicine balls and sport balls. Prerequisite: FS 234

PEF 198. Special Topics (1).

#### **Individual and Dual Sports Courses**

One credit (1), meets twice weekly. **PEID 110. Beginning Badminton** (1).

PEID 113. Beginning Bowling (1). PEID 114. Intermediate Bowling

(1). Prerequisite: PEID 113. **PEID 115. Beginning Golf** (1).

**PEID 116. Intermediate Golf** (1). Prerequisite: PEID 115.

PEID 120. Beginning Fencing (1).
PEID 121. Intermediate Fencing (1).

PEID 123. Beginning Tennis (1). PEID 124. Intermediate Tennis (1).

Prerequisite: PEID 123. **PEID 125. Advanced Tennis** (1).

Prerequisite: PEID 124.

PEID 130. Cross Country Skiing

PEID 134. Bicycling (1).

**PEID 136. Pickleball** (1). Class is designed to introduce student to basic skills, fundamentals, safety procedures and knowledge to participate in pickleball as a life long activity.

PEID 137. Hiking and Orienteering (1). PEID 138. Karate (1). PEID 140. Fly Fishing (1).

#### PEID 145. Beginning Circus Arts

(1). Introduction to juggling, unicycling and similar skills involving balance and coordination.

#### **PEID 147. Conceptual Martial Arts**

(1). This course is designed to introduce students to the techniques and motions of self-defense.

#### PEID 148. Advanced Martial Arts

(1). Course is designed to further challenge students to techniques and motions of self-defense. Develops self-discipline, hand, eye, and foot coordination, and personal awareness. Prerequisite: PEID 147. May be repeated for up to 12 credits.

PEID 198. Special Topics (1).

#### **Team Sports Courses**

One credit (1), meets twice weekly.

PETS 110. Basketball (1).

**PETS 113. Soccer** (1).

PETS 114. Softball (Slow Pitch) (1).

PETS 116. Volleyball (1).

PETS 117. Advanced Volleyball

(1). Prerequisite: PETS 116.

PETS 120. Table Tennis (1). Table tennis will teach skills used during pair and partner play that will increase the players ability to play faster with more accuracy.

PETS 198. Special Topics (1).

#### Varsity Sports for Men Courses

One credit (1), two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

**PEVM 110. Baseball** (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

**PEVM 111. Basketball** (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

PEVM 112. Cross Country (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

PEVM 113. Football (1). (Two or three hours activity per day plus all regularly scheduled meetings and game sessions). May be repeated for credit.

#### PEVM 117. Track and Field (1).

Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

#### **Varsity Sports for Women Courses**

One credit (1), two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

- PEVW 110. Basketball (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.
- PEVW 111. Cross Country (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

#### PEVW 116. Track and Field (1).

Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

- **PEVW 117. Volleyball** (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.
- **PEVW 118. Soccer** (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.
- **PEVW 119. Softball** (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.
- PEVW 120. Cheerleading (1). Two or three hours activity per day plus all regularly scheduled meetings and game sessions. May be repeated for credit.

# **Health Education Courses HED 101. Health Essentials** (4).

Fundamental patterns and understanding of human interaction with natural and man made environments intended to help students make informed judgments. SB-Found Human Adaptations

#### HED 205. Drugs and Sport (2).

Survey of the potential hazards of recreational, ergogenic, and restorative drugs commonly used by athletes.

#### HED 209. Consumer Health (3).

Analysis of health aids, cosmetics, non-prescription drugs, health fads, and fallacies. Critical evaluation of advertising and promotional schemes; quackery.

#### HED 210. Drugs and Health (3).

Uses and abuses of drugs. Special emphasis will be on psychophysiological effects upon human health and responsible drug use.

# HED 230. Foundations of Health Education (3). Fundamental theories, paradigms, constructs, history, and experiences necessary for comprehensive understanding of health education as a profession and lifestyle.

HED 296. Individual Study (1-6).

HED 298. Special Topics (1-6).

**HED 299. Seminar** (1-5).

#### HED 310. Community Health (3).

An overview of contemporary community health programs; problems in community health at the local, national, and international levels.

#### **HED 317. International Health** (3).

Explores the health status of people within the global community. Explores specific health issues endemic to certain parts of the world and related programs.

#### HED 318. The Politics of Food and

Health (2). Exploration of the politics of food from farm to table, and the implications for human and environmental health. HED 318 and NUTR 318 are cross-listed courses, students may not receive credit for both.

#### **HED 320. Environmental Health**

Education (3). Explores basic environmental health topics that public health educators will use in community settings, including models and theories that encourage community involvement.

# **HED 322. Pedagogical Foundations of Public Health** (3). This course is designed to help students

create and deliver dynamic health presentations in a community or public health setting. Students will learn the pedagogy behind presenting a health topic keeping in mind

audience inclinations and learning styles.

#### **HED 323. Infectious Disease** (3).

This course introduces students to the various principles related to the identification, treatment, and prevention of various infectious diseases. Additionally, the physical, social, psychological, and monetary implications of these infectious diseases in society are addressed.

#### **HED 324. Non-infectious Disease**

(4). This course introduces students to the various principles related to the identification, treatment, and prevention of various chronic diseases.

Additionally, the physical, social, psychological, and monetary effects of these illnesses/ diseases in society are explored.

#### HED 326. Human Diseases (5).

Introduces students to fundamental principles relating to identification, prevention, and control of non-infectious and infectious diseases in contemporary society; emphasis on physical, social, psychological, and environmental issues surrounding these diseases. Prerequisites: PESH 280 and HED 101.

#### HED 330. Health Assessment (4).

Theory and practice of evaluating the health or condition of individuals and groups.

Prerequisite: HED 230.

#### HED 340. Technological

Applications in Health Education (3). Assist students in utilizing computerized sources of information, methods of instruction, understand technology applied to training, and a better use of computers for health information resources.

#### **HED 345. School Health**

Curriculum/ Materials (3).

Examination of existing curricula and teaching materials. Design and development of school health curricula. Prerequisites: HED 210 and HED 230, and current WSP/ FBI fingerprint clearance.

### **HED 370.** Current Trends in Health and Health Education (3).

Contemporary health education topics and issues are explored through classroom and

community contacts, visual, webbased, and interactive media. May be repeated for up to 6 credits.

# HED 375. Theories of Health Behavior (3). Provides an introduction to methods and theories of behavior change related to community and public health. Examines change process of individual and communities including motivating factors essential to maintaining positive behvaior change. Prerequisite: HED 230.

**HED 380. Epidemiology** (3).
Prerequisites: HED 323 and HED 324

HED 387. Principles of Fitness and Stress Management (3). The theory and practice of health enhancement through fitness and stress management.

HED 398. Special Topics (1-6). HED 412. Health Aspects of Aging (3). Examination of total health as it relates to the aged and the aging process. Prerequisite: HED

HED 422. Methods for Health Promotion (4). Prerequisites: HED 101 and HED 230, and current WSP/ FBI fingerprint clearance.

101.

HED 431. Principles of Sexuality Education (3). Principles and content for sex education in school and community settings. Prerequisite: FCSF 337. HED 431 and FS 431 are equivalent courses; students may not receive credit for both.

HED 440. Social Marketing of Health Education Programs (3). Social marketing theory and practice, health communication strategies, and basic qualitative research methods applied to social marketing theory. Prerequisite: HED 230.

# HED 442. Field Work and Experience in Health Education (1-15). Observation and participation in health programs, and/ or HED 101. May be repeated to a maximum of 15

credits

HED 445. Health Education
Professionalism (1). Professional
ethics, job readiness, and job
search in health education. To be
taken last two quarters before
internship placement senior year.
Department consent.

**HED 446. Health Education** 

Curriculum for Elementary
Teachers (3). Examination of
available curricula and teaching
materials in health education for
elementary school teachers.
Students must develop an
elementary health education
curriculum. Prerequisite: current
WSP/ FBI fingerprint clearance,
and admission to the Teacher
Certification Program.

HED 448. Health, Sexuality and the Media (3). Sex, media, and public health. Emphasis will be placed on sexual messaging in the media and the potential ramifications on individual and community wide health concerns.

HED 450. Community
Organization and Coalition
Development (3). Introduction to
history, issues, and skills
surrounding community
organizing and development
activities. Prerequisites: HED 230
and senior standing.

HED 460. Controversial Issues in Health Education (3). Current and controversial issues confronting school and community health education. Prerequisite: HED 422 and HED 230.

**HED 471. Program Planning I** (5). Health program planning; needs

assessment, and goal setting. Prerequisite: HED 230.

HED 472. Program Planning II (5). Health program planning; implementation and evaluation. Prerequisite: HED 471.

HED 473. Health Education
Program Evaluation (3). Covers
basic survey research design and
basic quantitative and qualitative
research methods. Students will
understand the basic skills of
program evaluation planning.
Prerequisites: HED 471 and 472.

Administration (3).
Understanding and application of knowledge to various administrative tasks in community health. Grants, management, and personnel issues will be covered.
Prerequisite: HED 472.

**HED 475. Community Health** 

HED 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

HED 491. Workshop (1-6). HED 492. Practicum (4). Practical experience and application of responsibilities and competencies necessary for practicing health education. Prerequisites: HED 345 or 472.

HED 496. Individual Study (1-6). HED 498. Special Topics (1-6). HED 499. Seminar (1-5).

#### **Physics Department**

College of the Sciences Ellensburg Lind Hall, room 201 509-963-2727 Fax 509-963-2728 www.cwu.edu/physics

See website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

Chair

Michael Jackson, PhD

#### **Professors**

Michael Jackson, PhD, optics, spectroscopy Bruce Palmquist, PhD, science education

#### **Associate Professor**

Michael Braunstein, PhD, nuclear physics, astronomy

#### **Assistant Professors**

Andrew A. Piacsek, PhD, acoustics Sharon L. Rosell, MS, nuclear physics

#### Staff

Erin Sargent, secretary Greg Lyman, instructional and classroom technician

#### **Department Information**

#### Overview

Physics is the study of the universe and its elements-from the interaction of subatomic particles and investigations in nanoscale science, to the motion of everyday objects, to the evolution of galaxies. Physics involves discovering the fundamental rules that describe matter and energy on every scale; hence it is the basic science that underlies all the natural sciences.

Most businesses want people who can analyze complex situations and solve problems. CWU physics majors learn these skills along with computational and electronics skills. The physics curriculum includes theoretical courses as well as laboratory classes and hands-on research that provide the practical training relevant to both graduate school or professional work in science and engineering. Recent acquisitions of state-of-the-art instrumentation in astronomy, acoustical physics, and lasers enrich students' experience in the laboratory and research setting. Students also have the opportunity to participate in programs outside the formal courses offered by participating in the department's award-winning Physics Club and Astronomy Club. The CWU physics program offers a BS degree, a BA degree (which doubles as our teaching degree), and engineering opportunities through our dual-degree physics/ engineering program.

#### **Department Standards**

All students must meet with the physics chair to map out a four-year plan. The student can then select a faculty advisor. All faculty members are physics major advisors. Most upper-level physics courses are offered every other year. Thus, students who wait too long to meet with an advisor may have their graduation delayed. All physics majors must complete a physics major portfolio.

#### **Honors Designation**

The honors designation in physics recognizes the academic excellence of its majors. Students in the department's BA and BS programs are eligible for this designation and all physics majors are urged to consider applying. The honors designation in physics is offered in collaboration with Sigma Pi Sigma, the National Physics Honors Society. Please contact the physics department chair for more information.

#### **Dual-degree Physics/Engineering Program**

This dual-degree program enables a student to receive a baccalaureate degree in physics from CWU and a bachelor of science from an appropriate engineering institution in a respective engineering discipline. The total length of time for both degrees is expected to be about five years, with approximately three years at CWU (dating from enrollment in MATH 172) and approximately two years at the engineering institution. At CWU, students must complete a minimum of 135 credits, including

all general education requirements. Additional courses may be required depending on the specific engineering discipline. Be sure to consult the appropriate dual-degree engineering advisor for details.

In order to receive the baccalaureate degree from CWU, dual-degree students must also complete the remaining credits (to total a minimum of 180 credits) in engineering at the Engineering Institution and transfer these credits to CWU. The remaining credits must include the appropriate number of 300-level or above from the Engineering Institution to satisfy CWU graduation requirements. This transfer of credits and awarding of the baccalaureate degree by CWU can take place as soon as the student earns the necessary credits.

#### **Special Requirements:**

Early consultation with the physics department chair is mandatory to ensure that specific additional requirements of particular engineering curricula are also satisfied. It is solely the student's responsibility to apply and gain admission to the Engineering Institution. It is also the individual student's responsibility to submit an official transcript of the work completed after leaving CWU and to request awarding of the baccalaureate degree in physics.

#### Physics Major, BA

(NOTE: Students seeking a B.A. degree must complete one year college/ university study or two years high school study of a single foreign language.)

The BA program is for students wanting a broad liberal arts education with an emphasis in physics. It may be a suitable foundation for students who are planning a career not usually regarded as physics, such as business education, law, medicine, writing, environmental concerns, public safety, or computer programming.

#### Teaching Endorsement Requirements:

This major satisfies the criteria for an endorsement in physics and qualifies students to teach physics at the high school, middle, or junior high levels. Students taking this major for endorsement are required to complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum. Students completing this program are required to demonstrate proficiency of student learning outcomes through a program portfolio prior to student teaching. In addition to the above requirements, students must pass the WEST-E exam for physics to receive a physics endorsement. Students seeking an endorsement in physics must take SCED 324, SCED 325, SCED 401, and SCED 487 to meet Science Teaching Program competencies. Students should seriously consider working toward endorsement in a second area, such as biology, chemistry, Earth science, middle-level science, middle-level mathematics, mathematics or science.

#### Required Courses

- MATH 265 Linear Algebra I Credits: (4)
- PHYS 317 Modern Physics I Credits: (4)
- PHYS 318 Modern Physics II Credits: (4)
- PHYS 331 Laboratory Practices and Techniques Credits: (3)
- PHYS 333 Experimental Physics I Credits: (3)
- PHYS 361 Computational Physics Credits: (4)
- PHYS 363 Optics Credits: (4)
- PHYS 489 Senior Assessment Credits: (1)
- PHYS 495 Undergraduate Research Credits: (2)

#### General Physics - Credits: 15

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II **Credits:** (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### General Chemistry - Credits: 10

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)

• CHEM 182LAB - General Chemistry Laboratory II Credits: (1)

#### Calculus - Credits: 20

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)
- MATH 272 Multivariable Calculus I **Credits:** (5)
- MATH 273 Multivariable Calculus II Credits: (5)

#### Department-approved electives - Credits: 9

• Must include a department-approved course sequence (such as PHYS 351/ 352, PHYS 381/ 382, PHYS 334/ 463, PHYS 492/ SCED 324/ 487, PHYS 474/ 475 - see your Physics major advisor for details.

Total Credits: 83

#### Physics Major, BS

Those interested in receiving an advanced degree in physics or engineering may choose the BS in physics. The BS degree is designed for individuals planning careers in physics and related technical fields or in areas where knowledge of basic scientific principles is necessary. Depending on math preparation, these students should be able to complete the BS in four years at CWU.

#### Required Courses

- MATH 265 Linear Algebra I Credits: (4)
- MATH 376 Differential Equations I **Credits:** (3)
- PHYS 317 Modern Physics I Credits: (4)
- PHYS 318 Modern Physics II Credits: (4)
- PHYS 331 Laboratory Practices and Techniques Credits: (3)
- PHYS 333 Experimental Physics I Credits: (3)
- PHYS 342 Thermodynamics Credits: (4)
- PHYS 351 Analytical Mechanics I Credits: (3)
- PHYS 352 Analytical Mechanics II Credits: (3)
- PHYS 361 Computational Physics Credits: (4)
- PHYS 363 Optics Credits: (4)
- PHYS 474 Quantum Mechanics I Credits: (4)
- PHYS 489 Senior Assessment Credits: (1)
- PHYS 495 Undergraduate Research Credits: (2)
   (PHYS 495 must be taken for a total of 4 credits.)

#### General Physics - Credits: 15

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II **Credits:** (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### General Chemistry - Credits: 10

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)

#### Calculus - Credits: 20

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)

- MATH 272 Multivariable Calculus I Credits: (5)
- MATH 273 Multivariable Calculus II Credits: (5)

Electromagnetic Theory - Credits: 12

- PHYS 381 Electromagnetic Theory I Credits: (4)
- PHYS 382 Electromagnetic Theory II Credits: (4)
- PHYS 383 Electromagnetic Theory III Credits: (4)

Department-approved electives - Credits: 5

Total Credits: 110

#### **Astronomy Minor**

The astronomy minor is an excellent complement to a variety of other science majors. It is also ideal for students who want to reinforce a liberal arts major with a science background. Astronomy minors may not use any courses in this minor as physics major electives.

#### Required Courses

- PHYS 201 Operation and Research Techniques for Small Observatories Credits: (3)
- PHYS 301 Stellar Astrophysics I Credits: (3)
- PHYS 302 Stellar Astrophysics II Credits: (2)
- PHYS 317 Modern Physics I Credits: (4)

#### Introductory Astronomy - Credits: 5

PHYS 101 - Introductory Astronomy I Credits: (5)

Introductory or General Physics - Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)

OR

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

Select either: Credits 2

- PHYS 492 Laboratory Experience in Teaching Physics Credits: (2)
   OR
- PHYS 495 Undergraduate Research Credits: (2)

Calculus - Credits: 10

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)

Total Credits: 44

#### **Physics Minor**

The physics minor is an excellent complement to a variety of other science majors. It is also ideal for students who want to reinforce a liberal arts major with a technical background.

#### Special Requirements:

Students taking this minor to obtain a teaching endorsement can receive a teaching endorsement in physics only if the following requirements are met:

- The student is working on an endorsement in biology, chemistry, Earth science, or secondary mathematics.
- The student passes the WEST-E exam for physics to receive a physics endorsement.
- The student successfully completes SCED 324 and PHYS 492. SCED 324 requires admission to the Teacher Certification Program.
- The student demonstrates proficiency of student learning outcomes through a program portfolio prior to student teaching.

#### Required Courses

- PHYS 317 Modern Physics I Credits: (4)
- PHYS 318 Modern Physics II Credits: (4)
- PHYS 333 Experimental Physics I Credits: (3)

#### General Physics - Credits: 15

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

#### Calculus - Credits: 10

- MATH 172 Calculus I **Credits:** (5)
- MATH 173 Calculus II Credits: (5)

#### Select one of the following - Credits: 3-6

- CHEM 381 Physical Chemistry (Thermodynamics) Credits: (5)
- EET 312 Basic Electronics **Credits:** (5)
- PHYS 331 Laboratory Practices and Techniques Credits: (3)
- PHYS 342 Thermodynamics Credits: (4)
- PHYS 363 Optics Credits: (4)
- PHYS 492 Laboratory Experience in Teaching Physics **Credits:** (2)
- SCED 324 Science Education in Secondary Schools I Credits: (3)

Total Credits: 39-43

#### **Dual-degree Physics/Engineering Program**

This dual-degree program enables a student to receive a baccalaureate degree in physics from CWU and a bachelor of science from an appropriate engineering institution in a respective engineering discipline. The total length of time for both degrees is expected to be about five years, with approximately three years at CWU (dating from enrollment in MATH 172) and approximately two years at the engineering institution. At CWU, students must complete a minimum of 135 credits, including all general education requirements. Additional courses may be required depending on the specific engineering discipline. Be sure to consult the appropriate dual-degree engineering advisor for details.

In order to receive the baccalaureate degree from CWU, dual-degree students must also complete the remaining credits (to total a minimum of 180 credits) in engineering at the Engineering Institution and transfer these credits to CWU. The remaining credits must include the appropriate number of 300-level or above from the Engineering Institution to satisfy CWU graduation requirements. This transfer of credits and awarding of the baccalaureate degree by CWU can take place as soon as the student earns the necessary credits.

#### **Special Requirements:**

Early consultation with the physics department chair is mandatory to ensure that specific additional requirements of particular engineering curricula are also satisfied. It is solely the student's responsibility to apply and gain admission to the Engineering Institution. It is also the individual student's responsibility to submit an official transcript of the work completed after leaving CWU and to request awarding of the baccalaureate degree in physics.

#### **Physics Courses**

#### PHYS 101. Introductory

Astronomy I (5). An inquirybased introduction to celestial motions, celestial objects, observational astronomy and the physics associated with each. Emphasis on stars and planets. This is an activity-based lecture/ lab course. NS-Patterns&Connection Natural (L)

#### PHYS 102. Introductory

Astronomy II (4). An inquiry-based introduction to celestial motions, celestial objects, observational astronomy and the physics associated with each. Emphasis on stars and planets. This is a single activity-based course combined with lecture and lab. NS-Patterns&Connection Natural (L)

# PHYS 103. Physics of Musical Sound (4). Basic physical principles of sound and vibration; how and why musical instruments produce their sounds. Topics include sound analysis techniques, room acoustics, musical scales, and the perception of sound. Corequisite: PHYS 103LAB. NS-Application Natural Science (L) (W)

#### PHYS 103LAB. Physics of Musical Sound Laboratory (1). Corequisite: PHYS 103. NS-Application Natural Science (L)

PHYS 106. Physics Inquiry (5). An introduction to fundamental physics topics in matter, motion, electricity, and magnetism. NS1 NS-Fund Disc Phys&Biological (L)

PHYS 108. Light and Color (4). An introduction to topics in light and color with applications to technology in the arts. NS-Application Natural Science (L)

#### **PHYS 111. Introductory Physics**

(4). Topics in physics including kinematics and dynamics.
Analyzing physical systems using algebra and trigonometry.
Not open to students with credit

in PHYS 181. Prerequisites: must be eligibility for MATH 154 based on the Math Placement Test, or MATH 153 with a grade of C or higher. Co-requisite: PHYS 111LAB. NS1 NS-Fund Disc Phys&Biological

#### PHYS 111LAB. Introductory Physics Laboratory (1).

Investigation of topics in physics including kinematics and dynamics. Corequisite: PHYS 111. NS1 NS-Fund Disc Phys&Biological (L)

#### PHYS 112. Introductory Physics II

(4). Topics in physics including rotational dynamics, wave mechanics, and conservation principles. Analyzing physical systems using algebra and trigonometry. Prerequisite: PHYS 111. Co-requisite: PHYS 112LAB.

# PHYS 112LAB. Introductory Physics Laboratory II (1).

Investigation of topics in physics including rotational dynamics, wave mechanics, and conservation principles. Corequisite: PHYS 112.

#### PHYS 113. Introductory Physics III

(4). Topics in physics including electromagnetic fields and optics. Analyzing physical systems using algebra and trigonometry. Prerequisite: PHYS 111. Corequisite: PHYS 113LAB.

#### PHYS 113LAB. Introductory Physics Laboratory III (1).

Investigation of topics in physics including electromagnetic fields and optics. Co-requisite: PHYS 113.

#### PHYS 181. General Physics (4).

Topics in physics including kinematics and dynamics. Analyzing physical systems using algebra, trigonometry, and calculus. Co-requisite: PHYS 181LAB. Co- or prerequisite: MATH 172. NS-Fund Disc Phys&Biological

#### PHYS 181LAB. General Physics

**Laboratory** (1). Investigation of topics in physics including

kinematics and dynamics. Corequisite: PHYS 181. NS-Fund Disc Phys&Biological (L)

#### PHYS 182. General Physics II (4).

Topics in physics including rotational dynamics, wave mechanics, and conservation principles. Analyzing physical systems using algebra, trigonometry, and calculus. Corequisite: PHYS 182LAB. Coor prerequisite: MATH 173. Prerequisite: PHYS 181.

#### PHYS 182LAB. General Physics

**Laboratory II** (1). Investigation of topics in physics including rotational dynamics, wave mechanics, and conservation principles. Co-requisite: PHYS 182

#### PHYS 183. General Physics III (4).

Topics in physics including electromangetic fields and optics. Analyzing physical systems using algebra, trigonometry, and calculus. Prerequisite: PHYS 181. Co-requisite: PHYS 183LAB. Co-or prerequisite: MATH 173.

#### PHYS 183LAB. General Physics

Laboratory III (1). Investigation of topics in physics including electromagnetic fields and optics. Co-requisite: PHYS 183.

#### PHYS 201. Operation and Research Techniques for Small

Observatories (3). Students are trained to operate a small observatory, and to use CCD cameras to collect stellar photometry data. Prerequisites: PHYS 101, and either MATH 153 with a grade of C or higher or eligible for MATH 154 based on Math Placement Test.

#### PHYS 296. Individual Study (1-6). PHYS 298. Special Topics (1-6). PHYS 301. Stellar Astrophysics I

(3). Introduction to and application of physical principles, including; relativity, quantum theory, and classical physics associated with the characterization of astrophysical systems. Prerequisites: PHYS 101,

PHYS 183, PHYS 183LAB, and MATH 173.

#### PHYS 302. Stellar Astrophysics II

(2). Application of physical principles including relativity, quantum theory, classical electromagnetic fields, and classical mechanics to astrophysical processes and the evolution of astrophysical systems. Prerequisite: PHYS 301.

#### PHYS 317. Modern Physics I (4).

Topics in physics including relativity, particle physics, and history of modern physics. Analyzing physical systems using calculus, algebra, and trigonometry. Prerequisites: MATH 173 and either PHYS 113 and PHYS 113LAB, or PHYS 183 and PHYS 183LAB.

#### PHYS 318. Modern Physics II (4).

Topics in physics including quantum physics and atomic structure. Analyzing physical systems using calculus, algebra, and trigonometry. Prerequisite: PHYS 317.

PHYS 331. Laboratory Practices and Techniques (3). Topics in experimental techniques with emphasis in electronic systems. Prerequisites: PHYS 183 and 183LAB. One class meeting and six hours laboratory per week.

#### PHYS 333. Experimental Physics I

(3). Topics in experimental techniques used in physics. Prerequisite: PHYS 331. One class meeting and six hours laboratory per week.

#### PHYS 334. Experimental Physics II

(3). Topics in experimental techniques used in physics. Prerequisite: PHYS 333. One class meeting and six hours laboratory per week.

#### PHYS 342. Thermodynamics (4).

The laws of thermodynamics and its application to macroscopic systems. Co- or prerequisite: PHYS 318.

#### PHYS 351. Analytical Mechanics I

(3). Introduction to advanced physical concepts and mathematical techniques associated with dynamic systems including conservation laws, mpm-conservative forces, oscillating systems, non-inertial reference frames, and central-force motion. Prerequisites: PHYS

183 and PHYS 183LAB. Co- or prerequisites: MATH 273 and MATH 376.

#### PHYS 352. Analytical Mechanics II

(3). Further study of dynamic systems. Introduction to coordinate transformations, variational principles, Lagrangian and Hamiltonian methods, and nonlinear systems. Prerequisite: PHYS 351.

#### PHYS 361. Computational Physics

(4). Numerical methods of studying physical properties of realistic systems. FORTRAN, IMSL/ MATH Library, and MATHEMATICA will be introduced. Prerequistes: PHYS 183 and PHYS 183LAB. Corequisite: MATH 265.

PHYS 363. Optics (4). The mathematics of wave motion, eletromagnetic theory, propagation of light, geometrical optics, and physical optics. Includes the experimental investigation of optical phenomena. Prerequisites: MATH 173, and PHYS 113 and PHYS 113LAB, or PHYS 183 and PHYS 183LAB. Three class meetings and two hours laboratory per week.

#### PHYS 381. Electromagnetic Theory

I (4). Topics in electrostatics including electric fields, electric potential, Gauss' law, electrostatic energy, and multipole expansions.

Prerequisites: PHYS 183 and PHYS 183LAB and MATH 265 and MATH 273.

#### PHYS 382. Electromagnetic Theory

II (4). Topics in electrostatics and magnetostatics including the electrostatics of polarizable media, vacuum magnetostatics, magnetostatics in matter, and introduction to the Maxwell equations. Prerequisite: PHYS 381

#### PHYS 383. Electromagnetic Theory

III (4). Topics in the Maxwell equations, electrodynamics, and electromagnetic waves. Prerequisite: PHYS 382.

PHYS 396. Individual Study (1-6). PHYS 398. Special Topics (1-6).

PHYS 461. Advanced

 $\ \ \, \textbf{Computational Physics} \ (4).$ 

Applications of standard numerical modeling techniques

to physics problems involving nonlinear and/ or differential equations, including wave propagation, fluid flow, thermodynamics, electrodynamics, and particle physics. PHYS 461 and PHYS 561 are layered courses; students may not receive credit for both. Prerequisites: MATH 376 and PHYS 361.

#### PHYS 463. Fundamentals of Lasers

(4). Overview of laser technology with emphasis on laser characteristics, safety, and applications. Prerequisite: PHYS 363.

#### PHYS 474. Quantum Mechanics I

(4). Methods of quantum mechanics and applications to physical systems. Examples from nuclear, atomic, and molecular physics. Prerequisites: PHYS 318 and MATH 376.

#### PHYS 475. Quantum Mechanics II

(4). Methods of quantum mechanics and applications to physical systems. Examples from nuclear, atomic, and molecular physics. Prerequisites: PHYS 474.

#### PHYS 489. Senior Assessment (1).

An end-of-major course consisting of curriculum review and program assessment activities. Prerequisites: senior standing and admission to the physics major. By permission.

#### PHYS 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

PHYS 491. Workshop (1-6).

PHYS 492. Laboratory Experience in Teaching Physics (2). May be repeated up to 6 credits. By

permission.

#### PHYS 495. Undergraduate

**Research** (2). May be repeated up to 12 credits. By permission.

PHYS 496. Individual Study (1-6). PHYS 498. Special Topics (1-6). PHYS 499. Seminar (1).

#### **Political Science Department**

College of the Sciences Ellensburg Psychology Bldg., room 414 Phone: 509-963-2408 FAX: 509-963-1134

www.cwu.edu/political-science

See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Todd Schaefer, PhD

#### Professors

Michael A. Launius, PhD, comparative politics, Asian politics, international political economy, international politics Todd M. Schaefer, PhD, American politics, public opinion, congress, campaigns and elections, African politics, American presidency

Rex Wirth, PhD, public administration and public policy, international politics, Western Europe Bang-Soon Yoon, PhD, comparative politics, public policy, women and politics, Korean politics, political development

#### **Associate Professor**

Mathew Manweller, PhD, constitutional law, American political thought, American political economy, direct democracy Barb Rieffer-Flanagan, PhD, political theory, comparative politics, politics of the Middle East, international human rights, religion and politics

#### **Assistant Professors**

Gilberto Garcia, PhD, Latino politics and studies, Latin American politics, comparative politics, and U.S.-Mexico border relations

#### **Visiting Assistant Professor**

Cameron Otopalik, PhD, international politics, comparative politics, international political economy, politics of development

#### **Emeritus Professor**

Robert C. Jacobs, PhD, American law and politics

#### Lecturer

Anne Pflug, MBA, public sector management, government finance and state and local government

#### Staff

Cyndie Strawder, secretary senior

#### **Department Information**

The department provides an opportunity for students to become knowledgeable about the general subject matter of political science, while also offering a variety of courses that can provide depth in an area of the student's interest. Flexibility in the selection of courses is stressed.

The department requires all political science majors to participate in the end-of-major assessment exercise at the conclusion of their senior year. Information on the assessment requirement may be obtained from the department's main office. Students must earn a grade of C- or better in order for that course to count in their political science major.

#### **Political Science Honors**

Political science majors will qualify for honors at graduation with an overall GPA of 3.00 and a GPA of 3.50 in all political science courses.

Students may choose either a 47-credit major or a 62-credit major. Those who have a second major or who have a minor in another discipline may opt for the 47-credit major.

#### **Political Science Core Requirements**

POSC 101 - Introduction to Politics 5
POSC 210 - American Politics 5
POSC 260 - Comparative Politics 5
POSC 270 - International Politics 5

Political Science Core Total Credits: 20

#### Political Science Major, BA (47 credits) (62 credits)

(NOTE: Students seeking a B.A. degree must complete one year college/ university study or two years high school study of a single foreign language.)

Students may choose either a 47 credit major or a 62 credit major. Those who have a second major or who have a minor in another discipline may opt for the 47 credit major.

Required Courses

Political Science Core Requirements

- POSC 101 Introduction to Politics Credits: (5)
- POSC 210 American Politics Credits: (5)
- POSC 260 Comparative Politics Credits: (5)
- POSC 270 International Politics Credits: (5)

Political Science Core Total Credits: 20

Additional Required Courses

• POSC 489 - Senior Assessment Credits: (2)

Select from the following: 5 Credits

- POSC 481 Early Political Thought **Credits:** (5)
- POSC 482 Early Modern Political Thought Credits: (5)
- POSC 483 Recent Political Thought Credits: (5)
- POSC 485 American Political Thought and Culture Credits: (5)

Electives Credits: 20-35

Select from any other courses in this department. (Any transfer political science electives must be approved by the department.)

- 47 credit major (20)
- 62 credit major (35)

Total Credits: 47-62

#### **Political Science Minor**

Required Courses

Political Science Core Requirements

- POSC 101 Introduction to Politics Credits: (5)
- POSC 210 American Politics Credits: (5)
- POSC 260 Comparative Politics Credits: (5)
- POSC 270 International Politics Credits: (5)

Political Science Core Total Credits: 20

Additional Required Courses

Electives Credits: 10
 Select from any other courses in this department. (Any transfer political science electives must be approved by the department.)

Total Credits: 30

#### **Political Science Courses**

#### POSC 101. Introduction to Politics

(5). The basic ideas around which political debate revolves and from which political institutions evolve. SB-Found Human Adaptations (W)

#### POSC 210. American Politics (5).

Origin and development of the United States government; structure, political behavior, organizations, and processes; rights and duties of citizens. For general education (breadth) credit, a student must be enrolled in or have completed ENG 101. SB-Perspectives on Cultures and experiences of U.S.

# POSC 230. State and Local Government (5).

#### **POSC 260. Comparative Politics**

(5). Comparative political analysis, utilizing a variety of methods and theoretical approaches; application to selected western and non-western systems. Recommended to precede other courses in comparative politics.

#### POSC 270. International Politics

(5). Conditions and principles governing the contemporary nation-state system. SB-Perspective on World Culture (W)

# POSC 298. Special Topics (1-6). POSC 311. Women and Politics (5).

The politics of human sexuality: men's and women's rights, sex roles, sexual discrimination, laws governing sexuality, and related issues.

# POSC 312. Public Opinion and Political Communication (5).

The formation, measurement, and political impact of public opinion. The relationship of mass media to American political attitudes and opinions.

#### **POSC 313. The Legislative Process**

(5). The Congress of the United States, drafting of bills, legislative leadership, the committee system, relation to executive and

judicial branches, pressure groups.

#### POSC 314. American Presidency

(5). The office of the chief executive: its constitutional, political, and administrative processes.

POSC 315. Political Campaigns and Elections (5). Evaluations of campaign techniques and practices; campaign financing and expenditures; voting behavior; election theory; elections and public policy.

#### POSC 316. Latinos and the U.S.

Political System (5). This course examines the political reality of Latinos in the United States: a diverse population made up largely of Mexican, Puerto Rican, Cuban American, and other Latinos of Central and South American origins.

# **POSC 318. Political Parties and Interest Groups** (5). Theories of

party systems; elitism and pluralism; party organization, functions, and activities; status, functions, and activities of interest groups in the public policy-making process.

#### POSC 320. Public Administration

(5). Setting, purpose, functions, and performance of public bureaucracy in the United States.

#### POSC 325. Introduction to Public

**Policy** (3). Institutional context, politics and processes of agenda setting and policy formulation, implementation, evaluation, change and termination in the United States.

#### POSC 340. Politics and American

Capitalism (5). A survey of the interrelationship of the worlds of politics and business enterprise in American history; analysis of relevant philosophical and ideological arguments; case studies in such areas as industrial and trade policy.

#### POSC 341. Politics and Religion

(5). The impact of religion upon

American political thought and behavior.

#### POSC 342. U.S. Foreign Policy (5).

Factors, processes, and techniques in the formulation and execution of the foreign policy of the United States.

#### POSC 343. The Politics of the U.S.

Mexico Border (5). This course examines the politics of the United States and Mexico border region focusing on the important role of the state in the development of policies affecting one of the longest border regions in the world. Topics covered in the course include the politics of border regions and the national state, and the diverse policy concerns of the region from economic development and immigration, to ecological degradation, and health concerns.

#### POSC 350. Introduction to Public

Law (5). Legal bases and structure of governmental organization; fundamental doctrines and principles of constitutional, international, and administrative law.

#### **POSC 361. Latin American Politics**

(5). A comparative introduction to the political systems, cultures, and histories of Latin America and to prominent theories on democracy and political and economic development.

#### POSC 362. Western European

**Politics** (5). Comparative analysis of politics and government of selected European countries.

#### POSC 363. Russian and Soviet

**Politics** (5). Evolution, patterns, and comparative analyses.

#### POSC 365. African Politics (5).

Comparative analysis of the political systems of the African continent, including historical, social, economic, and international contexts.

#### POSC 366. Government and Politics of East Asia (5). An

introduction to the politics and governments of selected East

Asian countries. Focus will center on China, Japan, and Korea.

POSC 367. Politics of Japan (5). Investigation and analysis of politics and government in contemporary Japan.

POSC 369. Korean Politics (5).
Political systems, institutions, and processes of contemporary
North and South Korea.

POSC 372. Politics of
Globalization (5). Inquiry in the
nature and trends of
globalization from the
economical, political, and cultural
perspectives, and their impacts
on our way of life. Roles of
government, non-government
organizations, and global
institutions will be examined.

POSC 373. International Politics of the Pacific Rim (5). Political and economic relations of the contemporary Pacific Rim. Special focus on North America, Russia, and East Asia.

# POSC 375. The Middle East and International Politics (5).

POSC 376. International

**Organization** (3). Background, concepts, structure, and functions of international organization.

POSC 378. International Political Economy (5). Political problems of management and development in the global economy and the prospects for creating improved mechanisms at the international level and for less-developed countries.

POSC 398. Special Topics (1-6). POSC 411. American Indian Politics and Sovereignty (4).

Examines American Indians as sovereign nations and as participants in U.S. politics. Some comparison with native peoples in other western polities. Provides historical and contemporary overview of legal and political experiences of American Indians.

POSC 429. Research Seminar in Public Policy (3). Review of theory and methods, proposal for policy analysis, preparation, and presentation of policy analysis. Prerequisites: POSC 320 and 325.

POSC 441. Politics and Film (5).

Since its inception, film has been used to convey political ideas and ideologies, as well as offer social and political criticism. This class will examine the techniques film directors and writers use to "manipulate" the viewing audience.

POSC 451. Introduction to
Constitutional Law (5). Role of
the United States Supreme Court
in shaping governmental
structure of the United States.

POSC 452. The Constitution and Human Rights (5). Role of the United States Supreme Court in the development of political and social rights.

POSC 460. Contemporary Issues in Comparative Politics (3). Focus on a specific contemporary issue in the field of comparative politics, with an emphasis on indepth analysis and utilization of available research tools. Subject matter will vary with the instructor and with the changing nature of world politics. May be repeated up to 6 credits.

# POSC 470. Contemporary Issues in International Relations (3).

Focus on specific contemporary issues in the field of international politics, with an emphasis on indepth analysis and utilization of available research tools. Subject matter will vary with the instructor and with the changing nature of world politics. May be repeated up to 6 credits.

POSC 475. International Human Rights (5). A survey of internationally recognized human rights, analysis of relevant international laws, case studies in women's rights, minority rights, and humanitarian policies.

**POSC 481. Early Political Thought** (5). Plato to Machiavelli.

**POSC 482. Early Modern Political Thought** (5). Political thought in the 16th, 17th, and 18th centuries.

POSC 483. Recent Political
Thought (5). Political thought in the 19th and 20th centuries.

POSC 485. American Political Thought and Culture (5). The ideas and circumstances that have shaped the political culture of the U.S., as reflected in the works of selected political theorists, politicians, and literary figures.

# POSC 488. Introduction to Politcal Science Methods and Research

(5). Class will introduce students to the research methods of political scientists. Taught in a seminar format, the class will engage in an original research project culminating in a peerreviewed article submission to an academic journal. Students will learn to write literature reviews, collect data, analyze data using SPSS, and write academic research papers. Instructor permission. By permission.

#### POSC 489. Senior Assessment (2).

A "capstone" course designed to assess students' mastery of fundamental knowledge of politics and of writing and analytical skills. Co- or prerequisites: POSC 101, POSC 210, POSC 260, POSC 270, and either POSC 481, POSC 482, POSC 483, or POSC 485 and senior standing.

#### POSC 490. Cooperative Education

(1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

POSC 496. Individual Study (1-6). POSC 498. Special Topics (1-6). POSC 499. Seminar (1-5).

#### **Pre-Professional Programs**

These programs are planned for two groups of students—those who want one or two years of college work prior to entering an occupation, and those who want to do pre-professional work for one, two, three, or four years before entering a professional school, university, or college.

The programs described are not to be considered unalterable. They represent patterns that generally agree with the requirements of many professional schools. Since there are many variations in the requirements of the professional schools, students should, after consulting the CWU catalog, select courses required by the institution from which they expect to earn a degree.

The following pre-professional programs are offered: Pre-dentistry, Pre-dietetics, Pre-engineering, Pre-law, Pre-medicine, Pre-nursing in Public Health, Pre-occupational Therapy, Pre-optometry, Pre-pharmacy, Pre-physical Therapy, and Pre-veterinary.

#### **Pre-Dentistry**

#### Advisor

Blaise Dondji, PhD Department of Biological Sciences Science Building 338C 509-963-2715

Most students enter dental school with a bachelor's degree. A pre-dentistry major is not offered. Any major is acceptable provided the dental school admission requirements are met. Most students major in biology or chemistry. Schools vary in which science classes are required. A background in the social sciences and humanities is also expected; however, there are no firm expectations for coursework in these subjects beyond English. The American Dental Association (ADA) website, www.ada.org/ provides links to individual dental schools. Pre-dental students are encouraged to learn the specific requirements for their potential schools. Students applying to dental school must have taken the Dental Aptitude Test (DAT). Information on the DAT is also available on the ADA website. General biology, general chemistry, and organic chemistry courses should be completed prior to attempting the DAT. Completing additional coursework in biology should also improve DAT performance.

Required at Most Dental Schools:

#### General Chemistry - Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

#### Organic Chemistry - Credits: 8-13

- CHEM 361 Organic Chemistry I **Credits:** (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 363 Organic Chemistry III Credits: (3)
- CHEM 363LAB Organic Chemistry Laboratory II Credits: (2)

#### General Physics - Credits: 15

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)

#### General Biology - Credits: 15

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)

• BIOL 183 - General Biology III **Credits:** (5)

#### Required at Some Dental Schools:

#### Biochemistry - Credits: 8

- CHEM 431 Biochemistry I **Credits:** (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2)
- CHEM 432 Biochemistry II Credits: (3)

#### Pre-Calculus - Credits: 10

- MATH 153 Pre-calculus Mathematics I **Credits:** (5)
- MATH 154 Pre-calculus Mathematics II Credits: (5)

#### Microbiology - Credits: 5

• BIOL 323 - Microbiology Credits: (5)

#### One additional quarter of Microbiology, e.g.:

- BIOL 426 Medical Microbiology Credits: (3)
- BIOL 426LAB Medical Microbiology Laboratory Credits: (2)

#### Recommended

- BIOL 321 Genetics Credits: (5)
- BIOL 354 General Vertebrate Embryology Credits: (5)
- BIOL 355 Human Anatomy and Physiology Credits: (5) and
- BIOL 356 Human Anatomy and Physiology Credits: (5) OR
- BIOL 455 Zoophysiology Credits: (5)

#### Additional coursework in biology, e.g.:

- BIOL 421 General Virology **Credits:** (5)
- BIOL 422 Immunology **Credits:** (5)
- BIOL 423 Techniques in Immunology and Virology Credits: (5)
- BIOL 425 Molecular Biotechnology Credits: (5)

Total Credits: 91

#### **Pre-Dietetics**

#### Advisor

Virginia Bennett, PhD, RD Nutrition, Exercise, and Health Sciences Department Dorothy Purser Hall, room 134 509-963-3360

A registered dietitian (RD) is an expert on foods and how they affect human health. An RD is registered by the Academy of Nutrition and Dietetics (AND) as an individual who has completed an accredited four-year undergraduate program. The BS in food science and nutrition (with a specialization in nutrition and dietetics) is an accredited program with the Commission on Accreditation for Dietetics Education (CADE). In addition, the individual must complete a 1,200-hour accredited supervised practice experience at one of over 200 dietetic internship sites. Finally, individuals must then pass the registration examination to attain the RD credential. Please see the advisor for more information. Dietitians may work in hospitals, clinics, and nursing homes as clinical dietitians; for government and public health agencies as community dietitians, and in food service departments of hospitals, schools, nursing homes, and restaurants as management dietitians. In addition, dietitians also are employed as researchers, educators, and as consultants in a variety of settings.

#### **Pre-Engineering**

Advisor Michael Braunstein, PhD Lind Hall, room 203D 509-963-2761

#### **Assistant Professor**

Sharon Rosell, MS Lind Hall, room 203C 509-963-2757

Most colleges of engineering accept students into their programs only after they have successfully completed a preengineering course of study. This usually takes the first two or three years of a student's college career, and can be done at CWU. Then the student must transfer to the engineering school of his or her choice and apply for admission to the particular engineering program wanted. She or he will graduate from that college and therefore must satisfy its requirements.

The course requirements in engineering vary considerably for different fields of engineering and for various colleges of engineering. The most important step a pre-engineering student can take is to consult the catalog of the particular college of engineering the student hopes to attend and then to plan a program at CWU to satisfy as many specific requirements of that college as possible. Students whose plans are not definite are advised to follow the typical first-year program outlined below and have a firm choice of an engineering program by the beginning of their second year. The pre-engineering advisor can assist you in these matters.

Students selecting this program must have completed a full year of high school calculus, or have a satisfactory score on the Math Placement Test Form PC, which is given by the mathematics department, or MATH 154. These are prerequisites to MATH 172.

The Department of Physics also offers a bachelor of science, physics major-engineering, in which the student receives degrees in physics and engineering. Consult the physics department chair, or pre-engineering advisors for additional information about this program.

#### First Year Courses

- ENG 101 Composition I: Critical Reading and Responding Credits: (4)
- ENG 102 Composition II: Reasoning and Research Credits: (4)
- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)
- MATH 272 Multivariable Calculus I **Credits:** (5)
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II **Credits:** (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

Electives Credits: 5

Total Credits: 43

#### **Pre-Law**

Advisor

Charles Reasons, PhD, LLB, JD Department of Law and Justice Farrell Hall, room 316 509-963-1779

The attainment of a law degree ordinarily involves a seven-year program—the completion of an undergraduate degree (four years), followed by three years at law school. Before winter quarter of one's senior year, a future law student should take the Law School Admission Test (LSAT) and apply to law schools.

Law schools do not require a particular major or courses as a condition for admission. Common undergraduate majors found in the law school population are history, English, economics, business, political science, and philosophy. No specific major will ensure admittance to law school. The most important criteria are your GPA and your score on the Law School Admissions Test (LSAT). The pre-law student should seek a course of study, which enhances his or her verbal comprehension and analytical thinking. Critical understanding of the human institutions and values with which the law deals is also very helpful.

The law and justice department offers an advisory program designed to assist students in choosing and gaining admission to law schools, with several advisors having law degrees. The pre-law student should carefully plan his or her program in close consultation with an advisor.

#### **Pre-Medicine**

Advisors

Levente Fabry-Asztalos, PhD Department of Chemistry Science Building, room 302F 509-963-2887

Blaise Dondji, PhD Department of Biological Sciences Science Building, room 338C 509-963-2715

This program prepares students for entering professional schools of medicine (MD or DO). In addition to the required science courses, a broad humanities and liberal arts background is encouraged. Although pre-medical students usually major in the sciences (85 percent), any arts or science major is acceptable. Regardless of their academic major, pre-medicine students must work closely with the pre-medicine advisor in order to insure their proper preparation for medical school. The university's pre-medicine program is supported by approximately 10 full tuition and books scholarships, which are based on academic excellence, not need. See also the CWU Health Career Resources website at / .www.cwu.edu/~healthcareers/.

#### **Pre-Occupational Therapy**

Advisor

Susan Lonborg, PhD Department of Psychology Psychology Bldg., room 480 509-963-2397

The pre-occupational therapy program is an advising program through which a student can prepare for admission to a professional occupational therapy program at another institution. CWU does not offer a degree program in occupational therapy or pre-occupational therapy, but does offer all prerequisite courses necessary for successful admission to the professional phase at another university.

Most pre-occupational therapy students will complete their undergraduate degree at CWU and then apply to the program(s) of their choice. Detailed information concerning appropriate undergraduate coursework and professional occupational therapy programs in the Pacific Northwest is available in the Department of Psychology or by visiting www.cwu.edu/~biology/ugrad/preprof/preOccupational.html.

#### **Pre-Optometry**

#### Advisor

Daniel Selski, PhD Department of Biological Sciences Science Bldg., room 338L 509-963-2881

Optometrists are primarily involved in testing eyesight for the purpose of prescribing corrective lenses. Students interested in optometry usually obtain a four-year degree prior to entering optometry school. Alternatively, students may take a three-year pre-optometry program at Central and then transfer to the optometry school of their choice where they will complete a two- or three-year program. The 19 schools in the U.S. and Canada offering professional optometry degree programs vary in their entrance requirements. Therefore, students interested in pre-optometry should determine the specific requirements of the optometry school to which they wish to transfer. Most schools require some experience (observation) with optometry prior to application. Social science, humanities, and writing courses are usually required in addition to the science courses listed below. The OAT (Optometric Aptitude Test) scores are required to apply to most schools. For links to optometry schools, information about the OAT, application procedures, and other useful information, see the Association of Schools and Colleges of Optometry website at www.opted.org.

#### Commonly Required Courses

- 1 quarter calculus Credits: 5
- 1 quarter statistics Credits: 5
- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)
- BIOL 323 Microbiology Credits: (5)
- BIOL 355 Human Anatomy and Physiology Credits: (5)
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- PHYS 111 Introductory Physics **Credits:** (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)
- PSY 101 General Psychology Credits: (5)

To earn a BA in biology the following courses would also be required:

- BIOL 321 Genetics **Credits:** (5)
- BIOL 499S Senior Seminar Credits: (1)

#### 1 quarter of ecology - Credits: 5

- BIOL 360 General Ecology Credits: (5) OR
- BIOL 420 Environmental Microbiology Credits: (5) OR
- BIOL 464 Terrestrial Plant Ecology Credits: (5)

#### **Pre-Pharmacy**

#### Advisor

Gil Belofsky, PhD Department of Chemistry Science Bldg., room 302J 509-963-2882

A pre-pharmacy program of study may be developed that prepares students for admission into professional programs at any university granting a pharmacy doctoral degree (Pharm-D). Central does not offer a degree program in pharmacy, but does offer all prerequisite courses necessary for admission to pharmacy programs at other universities.

Contact the pre-pharmacy advisor, Professor Gil Belofsky in the Department of Chemistry for help in determining a program of study, for advice on scheduling, or for more details on any aspect of the pre-pharmacy program. See also the CWU Health Career Resources website at www.cwu.edu/~healthcareers/.

#### Required Courses

- Minimum Humanities electives Credits: (10)
- Minimum Social Sciences electives Credits: (10)
- Other electives Credits: varies

#### General Biology - Credits: 20

- BIOL 220 Introductory Cell Biology Credits: (5) OR
- BIOL 430 Cell Biology Credits: (5)

#### Microbiology - Credits: 5

• BIOL 323 - Microbiology Credits: (5)

#### General Chemistry - Credits: 15

- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

#### Organic Chemistry - Credits: 13

- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 363 Organic Chemistry III Credits: (3)
- CHEM 363LAB Organic Chemistry Laboratory II Credits: (2)

#### English Composition - Credits: 12

- ENG 101 Composition I: Critical Reading and Responding Credits: (4)
- ENG 102 Composition II: Reasoning and Research Credits: (4)
- ENG 301 Introduction to Professional Writing Credits: (5)

#### Intuitive Calculus or Calculus - Credits: 5

- MATH 170 Intuitive Calculus Credits: (5) OR
- MATH 172 Calculus I Credits: (5)

#### Statistical Concepts and Methods - Credits: 5

• MATH 311 - Statistical Concepts and Methods Credits: (5)

Minimum Pre-pharmacy credits for admission: 95

#### **Pre-Physical Therapy**

Advisor David Darda, PhD Department of Biological Sciences

Dean Hall, room 130 509-963-3207

The pre-physical therapy program is an advising program through which a student can prepare for admission to a professional physical therapy program at another institution. CWU does not offer a degree program in physical therapy or pre-physical therapy, but does offer all prerequisite courses necessary for successful admission to the professional phase at another university.

Most pre-physical therapy students will complete their undergraduate degree at CWU and then apply to the program(s) of their choice. Detailed information concerning appropriate undergraduate coursework and professional physical therapy programs in the Pacific Northwest is available in the Department of Biological Sciences or by visiting www.cwu.edu/~biology/ugrad/preprof/prePhysical.html.

#### **Pre-Veterinary**

Advisor

Jason Irwin, PhD Department of Biological Sciences Science Bldg., room 236D 509-963-2884

While not offering a degree in veterinary medicine, CWU does provide the necessary prerequisite courses and an environment that promotes successful admission to veterinary medicine programs both in the USA and abroad. Although some veterinary medicine programs do not require an undergraduate degree for admission, most CWU students do complete their degree before moving into a veterinary medicine program. Below is a list of suggested courses that will fulfill the prerequisites of many veterinary programs. However, each of the 28 veterinary schools in the United States has its own requirements. You must check to be sure that these courses will meet the admission requirements for each veterinary school to which you will apply.

Commonly Required Courses:
BIOL 181, 183, and 183 (General Biology)
CHEM 181, 182, and 183 (General Chemistry)
MATH 153 and 154 (Precalculus I and II)
BIOL 213 (Quantitative Methods)
PHYS 111, 111Lab, 112, 112Lab (Introductory Physics)
BIOL 321 (Genetics)
CHEM 361, 361Lab, 362 (Organic Chemistry)
CHEM 431, 431Lab, 432 (Biochemistry)

Other courses such as BIOL323 (Microbiology), BIOL 352 (Parasitology), BIOL353 (Comparative Vertebrate Anatomy), and BIOL426 (Medical Microbiology) may also be useful to those applying to veterinary medicine programs - and also help fulfill CWU degree requirements.

Note that veterinary programs are typically very competitive. Maintaining a high GPA, scoring well on the Graduate Record Exam, and extensive volunteer/ work experience in the veterinary field are all components of a successful application.

In addition to coursework, CWU has an active Preveterinary Club where students connect with other preveterinary students and local veterinarians, visit veterinary schools, and gain valuable hands-on experience.

Additional information is available at: www.cwu.edu/~biology/ugrad/preprof/preVeterinary.html

#### **Pre-Nursing in Public Health**

#### Advisors

Vanessa Harbour, PhD
Melody Madlem, PhD
Rebecca Pearson, PhD
Physical Education, School, and Public Health Department
Purser Hall
509-963-1911

The pre-nursing in public health specialization within the public health major prepares students to meet entrance requirements to bachelor of science in nursing (BSN) programs throughout Washington. Armed with leading-edge scientific knowledge and liberal arts content, combined with an extensive public health internship, the pre-public health nursing specialization allows future professionals to enter nursing school with a solid background in public health theory and practice. CWU does not offer a degree program in nursing, but offers all prerequisite courses necessary for successful admission to professional nursing programs available across Washington.

Most pre-nursing students will complete the BS degree in public health with a specialization in pre-nursing in public health. The specialization also prepares students to assume key roles within public health agencies as health promotion specialists/ prevention specialists. With a comprehensive background in population-based health, graduating students can make immediate contributions to the health of the public.

Pre-requisites for admission to nursing school that meet General Education Requirements for pre-nursing specialization: SOC 101 or 107 or 205; PSY 101; CHEM 111 and CHEM 111LAB; BIOL 201.

#### Public Health Core Requirements

- HED 210 Drugs and Health Credits: (3)
- HED 230 Foundations of Health Education Credits: (3)
- HED 310 Community Health Credits: (3)
- HED 317 International Health **Credits:** (3)
- HED 320 Environmental Health Education Credits: (3)
- HED 330 Health Assessment **Credits:** (4)
- HED 370 Current Trends in Health and Health Education Credits: (3)
- HED 387 Principles of Fitness and Stress Management Credits: (3)
- HED 422 Methods for Health Promotion Credits: (4)
- HED 445 Health Education Professionalism Credits: (1)
- HED 450 Community Organization and Coalition Development Credits: (3)
- HED 471 Program Planning I **Credits:** (5)
- HED 472 Program Planning II Credits: (5)
- HED 473 Health Education Program Evaluation Credits: (3)
- HED 475 Community Health Administration Credits: (3)
- HED 490 Cooperative Education Credits: (1-12) (Must be taken for 10 credits)
- NUTR 101 Introduction to Human Nutrition Credits: (5)

#### Total Core Credits: 64

#### Pre-Nursing in Public Health Required Courses

- BIOL 220 Introductory Cell Biology **Credits:** (5)
- BIOL 322 Introductory Microbiology Credits: (5)
- BIOL 355 Human Anatomy and Physiology Credits: (5)
- BIOL 356 Human Anatomy and Physiology Credits: (5)
- CHEM 112 Introduction to Organic Chemistry Credits: (4)
- CHEM 112LAB Introduction to Organic Chemistry Laboratory Credits: (1)
- CHEM 113 Introduction to Biochemistry Credits: (4)
- CHEM 113LAB Introduction to Biochemistry Laboratory Credits: (1)
- MATH 311 Statistical Concepts and Methods Credits: (5)
- PSY 313 Developmental Psychology Credits: (4)

Total Required Course Credits: 39

Total Credits: 103

#### **Primate Behavior and Ecology Program**

College of the Sciences Ellensburg Dean Hall, room 357A 509-963-3201 Fax: 509-963-3215 www.cwu.edu/primate

See website for how this program may be used for educational and career purposes.

#### **Program Director**

Lori K. Sheeran, PhD, anthropology, Dean Hall, room 335

#### **Professors**

John Alsoszatai-Petheo, PhD, biological anthropology

Daniel Beck, PhD, biology, habitat selection, physiological ecology, foraging behavior, rattlesnake ecology, biology of helodermatid lizards

Megan D. Matheson, PhD, psychology, general experimental and comparative psychology, nonhuman primate social behavior, stress and coping, post-conflict behavior

Lori K. Sheeran, PhD, anthropology, primate behavior, primate conservation, gibbon behavior and ecology, biological anthropology

Lixing Sun, PhD, Biology, ecology and evolution of animal behavior (especially communication systems), chemical ecology

#### **Associate Professors**

Mary Lee Jensvold, PhD, anthropology, chimpanzee sign language studies, ape behavior, communication and culture, chimpanzee care and enrichment, non-verbal behavior

Steve Wagner, PhD, biology, conservation population genetics, herpetology, molecular evolution

#### **Assistant Professors**

Matthew Altman, PhD, early modern philosophy (Kant), 19th century philosophy, ethics and applied ethics, social and political philosophy, philosophy of art

Joseph G. Lorenz, PhD, anthropology, intraspecific genetic variation, molecular phylogenetics, ancient DNA, genotype-phenotype associations, evolutionary anthropology

#### Chimpanzee and Human Communication Institute (CHCI)

Mary Lee Jensvold, PhD, Director, CHCI Bldg., room 118 Bonnie Hendrickson, MS, Associate Director, CHCI Bldg.

#### Staff

Penelope Anderson, secretary senior, anthropology Lynn Whitacre, program coordinator, CHCI

#### **Program Information**

This program provides majors with interdisciplinary perspectives on the behavior and ecology of nonhuman primates in both captive and free-living settings. It serves as background for graduate study in the behavior, ecology, or phylogeny of primates, as well as for care-giving careers with primates living in laboratories, zoos, or other captive facilities. Lab fees required for PRIM 220, PRIM 320, and ANTH 416.

A double major is REQUIRED with the PBE degree. Students must complete the requirements for the PBE major as well as the requirements for a 45-plus-credit major in anthropology, biology, or psychology. Students interested in the major should contact the program office as soon as possible for further information, application forms, and assignment of an advisor. PBE majors are expected to meet with their advisor at least once a quarter.

#### **Special Programs**

The program sponsors and is affiliated with a wide range of on- and off-campus activities that provide students with opportunities to conduct faculty-mentored scientific projects or internships.

The PBE library in room 204 Dean Hall houses several hundred books, articles, and DVDs/ videotapes related to primatology. The room includes a TV, DVD player, and four computer work stations.

The PBE program has available for student use one video camera, two digital cameras, two DVD players, one television, observational software (The Observer), and two PDAs for using this software at remote locations. The Observer software can also be used on two desktop computers.

Students and faculty who have been approved to conduct research at CHCI may have access to resources housed there. These include an extensive library of articles, books, videos, and DVDs, and more than 20 years of archived video footage collected from the chimpanzees living there. CHCI also houses several VCRs, TVs, DVD players, video cameras, and computers that students can use in research projects conducted at CHCI. Access is considered on a case-by-case basis in consultation with the director and associate director of CHCI.

The Anthropological Genetics Laboratory in room 232A Dean Hall is equipped for performing DNA extractions, PCR (Polymerase Chain Reaction) amplification, genotyping, and DNA sequencing. Software for analyzing genetic data and performing phylogenetic analysis is also available.

The anthropology department owns casts of fossil and living nonhuman primates. These span a variety of taxa including prosimians, monkeys, and apes. Access is considered on a case-by-case basis in consultation with the anthropology faculty.

The PBE program is affiliated with the Conservation and Biodiversity Field School in China, which is coordinated through the CWU Office of International Study and Programs.

Students can develop faculty-mentored internship experiences based at CHCI, the Woodland Park Zoo, and other sites.

#### Primate Behavior and Ecology Major, BS

This program provides majors with interdisciplinary perspectives on the behavior and ecology of nonhuman primates in both captive and free-living settings. It serves as background for graduate study in the behavior, ecology, or phylogeny of primates, as well as for care-giving careers with primates living in laboratories, zoos, or other captive facilities. Lab fees required for PRIM 220, PRIM 320, and ANTH 416.

A double major is REQUIRED with the PBE degree. Students must complete the requirements for the PBE major as well as the requirements for a 45-plus-credit major in anthropology, biology, or psychology. Students interested in the major should contact the program office as soon as possible for further information, application forms, and assignment of an advisor. PBE majors are expected to meet with their advisor at least once a quarter.

#### Required Courses

Introductory Level

- ANTH 110 Introduction to Biological Anthropology Credits: (5)
- PSY 101 General Psychology Credits: (5)

Choose one of the following: Credits: 5

\*Course selection by advisement depending upon second major.

- BIOL 101 Fundamentals of Biology Credits: (5) OR
- BIOL 181 General Biology I Credits: (5)

Choose one of the following: Credits: 5

\*Course selection by advisement depending upon second major.

- BIOL 182 General Biology II Credits: (5) OR
- BIOL 200 Plants in the Modern World Credits: (5)

Choose one of the following: Credits: 5

\*Course selection by advisement depending upon second major.

- BIOL 183 General Biology III Credits: (5) OR
- BIOL 201 Human Physiology **Credits:** (5)

#### Core Requirements

- ANTH 309LAB Skeletal Analysis and Comparison **Credits:** (2)
- ANTH 313 Primate Social Behavior **Credits:** (4)
- PHIL 306 Environmental Ethics **Credits:** (5)
- PRIM 220 Introduction to Primate Laboratory Procedures Credits: (2)
- PRIM 450 Primate Behavior and Ecology Capstone Credits: (1)

• PSY 300 - Research Methods in Psychology Credits: (5)

Select one from the Following - Credits: 4

- ANTH 410 Biological Anthropology: Theoretical and Research Issues Credits: (4)
- ANTH 411 Primate Conservation Credits: (4)
- ANTH 499 Seminar Credits: (1-5)
- BIOL 499 Seminar Credits: (1-5)
- PSY 442 Evolutionary Psychology Credits: (4)
- PSY 499 Seminar **Credits:** (1-5)

Choose one of the following: Credits: 5

\*Course selection by advisement depending upon second major.

- BIOL 302 Human Ecology Credits: (5) OR
- BIOL 360 General Ecology Credits: (5)

Choose one of the following: Credits: 4

\*Course selection by advisement depending upon second major.

- BIOL 213 Introductory Biostatistics Credits: (4) OR
- PSY 362 Introductory Statistics Credits: (5)

Choose one of the following: Credits: 4-5

\*Course selection by advisement depending upon second major.

- BIOL 465 Biology of Animal Behavior Credits: (4) OR
- PSY 301 Learning Credits: (5)

Choose one of the following: Credits: 3-5

- ANTH 493 Anthropological Field Experience **Credits:** (1-8)
- BIOL 493 Biological Field Practicum Credits: (1-15)
- PRIM 320 Laboratory Research in Primatology Credits: (1-3)
- PRIM 490 Cooperative Education Credits: (1-12)
- PRIM 495A Directed Research in Primatology Credits: (1-5)
- PRIM 495C CHCI Directed Research Credits: (1-10)
- PSY 493 Field Research Credits: (1-12)
   Or other research

Choose two of the following: Credits: 8

- ANTH 412 Long-term Primate Studies Credits: (4)
- ANTH 416 Pongid Behavior Credits: (4)
- ANTH 418 Primate Evolution Credits: (4)

Total Credits: 72-76

#### **Primate Studies Courses**

# PRIM 220. Introduction to Primate Laboratory Procedures (2).

Laboratory procedures to ensure physical, social, and psychological well-being of captive nonhuman primates: sanitation, safety, medical care, diet, USDA requirements, and socio-psychological factors. Requires one-hour meeting and four hours of lab per week plus an organizational meeting and up

to eight hours of weekend lab over the quarter.

PRIM 320. Laboratory Research in Primatology (1-3). Laboratory research under the supervision of a program professor. May be taken concurrently with and as a supplement to other 300-400-level ANTH/ BIOL/ PSY/ PRIM courses. Prerequisite: PRIM 220. May be repeated up to 6 credits. Grade will either be S or U.

#### PRIM 450. Primate Behavior and

Ecology Capstone (1). A capstone course designed to assess students' mastery of fundamental knowledge of primatology through submission of a portfolio of work collected throughout the program. Includes exit interview with program director.

Prerequisite: senior standing.

**PRIM 490. Cooperative Education** (1-12). An individualized,

contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade wil either be S or U. By permission.

PRIM 495A. Directed Research in Primatology (1-5). May be repeated for credit. Grade will be either S or U. By pemrission.

PRIM 495C. CHCI Directed Research (1-10). Directed

primatological research at the Chimpanzee and Human Communication Institute. Prerequisite: PRIM 220. May be repeated for credit. Grade will either be S or U. By permission.

#### **Psychology Department**

College of the Sciences Ellensburg Psychology Bldg., room 421 509-963-2381 Fax: 509-963-2307

www.cwu.edu/psychology

See website for how this major may be used for educational and career purposes.

#### Faculty and Staff

Chair

Stephanie Stein, PhD

#### **Assistant Chair**

Stephen B. Schepman, PhD

#### **Professors**

Terry L. DeVietti, PhD, physiological psychology, experimental

Eugene R. Johnson, EdD, school psychology, psychological and educational evaluation, exceptional children Susan D. Lonborg, PhD, psychotherapy research, psychology of women, clinical and research ethics, career development, health psychology

Megan D. Matheson, PhD, general experimental, primate behavior, comparative psychology, evolutionary psychology Stephen B. Schepman, PhD, personality theories, social psychology, statistics

Anthony J. Stahelski, PhD, organization development, social psychology, small group interaction

Stephanie Stein, PhD, school psychology, behavior disorders in children, lifespan development, school-based assessment Elizabeth M. Street, EdD, educational psychology, learning theory, exceptional children, applied behavior analysis

#### **Associate Professors**

Robyn Brammer, PhD, multicultural counseling, counseling supervision, adolescent interventions, psychology of religion W. Owen Dugmore, PhD, counseling, psychology of adjustment

Marte Fallshore, PhD, human learning and memory, development of expertise, statistics, cognition, environmental decision-making, crime severity

Kara I. Gabriel, PhD, general experimental, biopsychology, psychopharmacology, behavioral genetics, spatial learning, memory

Jeffrey M. Penick, PhD, counseling psychology, health psychology, adult development

Terrence J. Schwartz, PhD, educational psychology, counseling psychology, statistical analysis

Wendy A. Williams, PhD, general experimental, single-subject design, experimental analysis of human and nonhuman behavior, animal welfare

#### **Assistant Professors**

Ralf Greenwald, PhD, cognitive neuroscience, cognitive psychology, brain dynamics, electro-physiology Suzanne Little, PhD, school psychology, psychological/educational assessment, diverse learners, gifted, autism Heath Marrs, EdD, educational and school psychology, developmental psychology, assessment Danielle Polage, PhD, cognitive psychology, psychology and law, memory, lying, eyewitness testimony, jury decision making, and repression

#### Senior Lecturer

Mary Radeke, PhD, child language development, experimental psychology Mark Soelling, PhD, clinical psychology

#### Lecturers

Sara Bender, MS, counseling supervision, mental health, learning Elizabeth Haviland, PhD, counseling psychology, counseling supervision, multicultural counseling Augustus Little, PhD, school counseling, educational psychology

#### Staff

Estelle Mathews, secretary lead Loretta Ney, secretary lead Chris Buchanan, engineering technician III

#### **Department Information**

The psychology department offers an important behavioral science component of the university's liberal arts curriculum. As part of the General Education program, courses in psychology broaden the student's knowledge about behavior, cognition, and emotion. Through our major and minor programs, students can develop an understanding of the perspectives, content, and methods of the science and practice of psychology and prepare for graduate study.

#### **Admission Requirements**

Students wishing to apply for admission to the psychology major or minor are required to register with the department and be advised by a member of the department faculty. The department reserves the right to change requirements as circumstances warrant. Application forms may be obtained from the department office.

#### **Exit Requirements**

Students are required to have a 2.25 GPA within the major area to receive the degree.

Senior psychology majors are required to complete the department's end-of-major assessment examination in the quarter before graduating. Students should register for the examination in the department office. The purpose of this requirement is to enable us to assess whether the department has fulfilled its instructional objectives and to provide us with information that will enable us continuously to improve our programs and courses.

#### **Departmental Honors**

The eligibility requirements for admission to the Department of Psychology honors program include the following:

- 1. Admission to the program: The student must be a psychology major, at least a junior but not more than a first quarter senior, and have completed all core courses with a GPA of at least 3.25 in those courses and have an overall cumulative GPA of 3.0. The student must apply in writing to the department chair, with a supporting letter of recommendation from a member of the faculty who agrees to supervise the student's work to completion.
- 2. Requirements and Procedures: The student will register for 4-6 credits in PSY 497, Undergraduate Honors Thesis. In consultation with the supervising faculty member, the student chooses a three-person faculty committee. Plans for the honors project, generally an empirical research study, must be approved by the entire committee. The project will culminate in a written research report and a formal defense of the thesis.

#### Psychology Major, BA (60 credits) (45 credits)

Students seeking a BA degree must complete one year of college/ university study or two years of high school study of a single foreign language.

The 60-credit major is intended to provide a foundation for professional careers and/or graduate training in psychology. It requires substantial coursework in the methodological, statistical, and content areas of psychology, while still allowing for individualized student interests and choice. Students enrolled in the 60-credit major also have the opportunity to receive credit toward their degree for participation in professional development and research experiences.

Required Courses for the 60-credit major

- PSY 101 General Psychology **Credits:** (5)
- PSY 200 Introduction to the Major Credits: (1)
- PSY 300 Research Methods in Psychology Credits: (5)
- PSY 362 Introductory Statistics Credits: (5)
- PSY 363 Intermediate Statistics and Research Methods Credits: (5)
- PSY 489 Senior Assessment Credits: (1)

Select at least one course from each of the following groups:

- PSY 301 Learning Credits: (5)
- PSY 303 Analysis of Everyday Behavior Credits: (4)

#### Group II

- PSY 310 Multicultural Issues in Psychology Credits: (4)
- PSY 313 Developmental Psychology Credits: (4)
- PSY 346 Social Psychology Credits: (4)

#### Group III

- PSY 445 Clinical, Counseling, and Community Psychology Credits: (5)
- PSY 449 Abnormal Psychology Credits: (4)
- PSY 453 Theories of Personality Credits: (5)

#### Group IV

- PSY 460 Cognitive Psychology Credits: (5)
- PSY 473 Psychology of Language Credits: (4)

#### Group V

- PSY 450 Sensation and Perception Credits: (4)
- PSY 478 Physiological Psychology Credits: (4)

Electives Credits: 15-18

May include a maximum of five lower division credits. In addition to the classes listed above, other 300 and 400-level psychology classes may also qualify for elective credits.

\*\*Not more than 10 hours of PSY 295 and PSY 495 combined may be applied to a psychology major.

Total Credits: 60

#### 45-credit Major

The 45-credit major is intended for students who are interested in careers that would combine a background in psychology with work in fields such as social work, family studies, business, forensics, primate behavior, and other fields for which training in behavioral science would be useful. Students in the 45-credit major are required to complete either a minor or a double major. This major would also be useful for students who intend to go directly into the work force following graduation. If a student decided later to pursue graduate school, the core courses in the 45-credit major may transfer into the 60-credit major.

Required Courses for the 45-credit major

- PSY 101 General Psychology Credits: (5)
- PSY 200 Introduction to the Major Credits: (1)
- PSY 300 Research Methods in Psychology Credits: (5)
- PSY 362 Introductory Statistics Credits: (5)
- PSY 489 Senior Assessment Credits: (1)

Select at least one course from each of the following groups:

#### Group I

- PSY 301 Learning **Credits:** (5)
- PSY 303 Analysis of Everyday Behavior Credits: (4)

#### Group II

- PSY 310 Multicultural Issues in Psychology Credits: (4)
- PSY 313 Developmental Psychology Credits: (4)
- PSY 346 Social Psychology Credits: (4)

#### Group III

• PSY 445 - Clinical, Counseling, and Community Psychology Credits: (5)

- PSY 449 Abnormal Psychology Credits: (4)
- PSY 453 Theories of Personality Credits: (5)

#### Group IV

- PSY 460 Cognitive Psychology Credits: (5)
- PSY 473 Psychology of Language Credits: (4)

#### Group V

- PSY 450 Sensation and Perception Credits: (4)
- PSY 478 Physiological Psychology Credits: (4)

Electives Credits: 5-8

May include a maximum of five lower division credits.

In addition to the classes listed above, other 300 and 400-level psychology classes may also qualify for elective credits.

Total Credits: 45

#### **Psychology Minor**

- I. Core Courses Credits: (10)
  - PSY 101 General Psychology Credits: (5)
  - PSY 300 Research Methods in Psychology Credits: (5)
  - Students who have taken the research methods course required for their major in law and justice, sociology, or social service can substitute any upper-division psychology course for PSY 300.
- II. Choose two courses from the following list: Credits (8-10)
  - PSY 301 Learning Credits: (5) OR
  - PSY 303 Analysis of Everyday Behavior Credits: (4)
  - PSY 313 Developmental Psychology Credits: (4) OR
  - PSY 314 Human Development and the Learner Credits: (4)
  - PSY 346 Social Psychology Credits: (4)
  - PSY 445 Clinical, Counseling, and Community Psychology Credits: (5)
  - PSY 449 Abnormal Psychology Credits: (4)
  - PSY 450 Sensation and Perception Credits: (4)
  - PSY 453 Theories of Personality **Credits:** (5)
  - PSY 456 Industrial and Organizational Psychology Credits: (4)
  - PSY 460 Cognitive Psychology Credits: (5)
  - PSY 473 Psychology of Language Credits: (4)
  - PSY 478 Physiological Psychology Credits: (4)

III. Any upper-division psychology course can be used as an elective. Credits: (10-12)

May include additional courses from the list in II above.

Total Credits: 30

#### **Psychology Courses**

# PSY 101. General Psychology (5). An introduction to the science of behavior. SB-Found Human

Adaptations

**PSY 200. Introduction to the Major** (1). Orientation to the psychology major. Prerequisite: must be

declared with a psychology major program. Grade will either be S or U.

PSY 205. Psychology of

Adjustment (5). The nature of the adaptive process and the means by which people adjust to their environment. SB-Found Human Adaptations (W)

## PSY 235. Relationships and Personal Development (3).

Development of interpersonal relationships from initial encounters to stable commitments. Major focus on interaction patterns in intimate relationships. PSY 235 and FSCF 235 are cross-listed courses; students may not receive credit for both.

# PSY 275. Community Development in Residence

Halls (3). Components of successful student development in residential settings. Educational philosophy of residence halls, community development, and problem solving. Credits do not apply toward psychology degree major or minor. Prerequisite: permission of instructor. Grade will either be S or U.

PSY 295. Laboratory Experience in Psychology (1-5). Not more than 5 credits of PSY 295, PSY 295C, PSY 495, and PSY 495C combined may be applied to a 45-credit psychology major and not more than 10 credits, combined, may be applied to a 60-credit major. May be repeated up to 10 credits. Grade will either be S or U.

#### PSY 295C. CHCI Laboratory

Experience (1-5). Laboratory experience at the Chimpanzee and Human Communication Institute. Prerequisite: permission of department chair. PSY 101 is also a recommended prerequisite. Course fee will be assessed. May be repeated. Not more than 5 credits of PSY295, PSY 295C, PSY 495, and PSY 495C combined

may be applied to a 45-credit psychology major and not more than 10 credits, combined, may be applied to a 60-credit major. May be repeated for credit. Grade will either be S or U.

PSY 298. Special Topics (1-6). PSY 299. Seminar in Psychology (3).

# PSY 300. Research Methods in Psychology (5). Addresses basic experimental and non-experimental research designs and strategies, as well as the APA-approved professional writing style. Includes both lecture and laboratory experiences. PSY 362 is a recommended co-requisite.

**PSY 301. Learning** (5). Addresses basic theory and research related to classical and operant conditioning, stimulus control, and memory. Prerequisite: PSY 300.

#### PSY 303. Analysis of Everyday Behavior (4). Environmental, cognitive, and biological influences on behavior in daily life. Prerequisite: PSY 101.

PSY 310. Multicultural Issues in Psychology (4). An examination of human behavior in cultural context. Emphasizes the role and influence of culture on thought, behavior, relationships and society. Discusses the influence of race, ethnicity, social class, gender, age, religion/spirituality and sexual orientation. Crosscultural research theory, and methodology are also examined. Prerequisite: PSY 101.

# PSY 312. Queer Theory and Sexuality (4). This

interdisciplinary course introduces students to the academic field of lesbian and gay studies through examination of the history, politics, theories, culture, and community of those who identify as lesbian, bisexual, gay, transgender, and queer.

#### PSY 313. Developmental

**Psychology** (4). Cognitive, socialemotional, and physical development through the lifespan. Prerequisite: PSY 101

# PSY 314. Human Development and the Learner (4).

Development from conception

through adolescence. Prerequisite: current WSP/ FBI fingerprint clearance.

#### PSY 315. Psychology in the

Schools (4). Psychology applied in school settings including principles of learning, instruction, and behavior management.

#### PSY 340. Teaching of Psychology

(3). Prerequisites: completion of course in which teaching or assisting is to be done and approval of department chair.

May be repeated up to 6 credits.

Grade will either be S or U.

**PSY 346. Social Psychology** (4). Social influences on individual behavior.

# **PSY 350. Sleep and Dreaming** (4). Research and theory concerning the functions and dysfunctions of sleep and dreaming. Prerequisite:

# **PSY 352. Application of Adult Development Theories** (2). This

PSY 101.

course is designed to provide students with a broad understanding and application of theories on adult development and aging. Service-learning is integral and students will be involved with older adults though cooperating local agencies. May be repeated up to 4 credits.

#### PSY 355. Environmental

**Psychology** (4). Behavioral responses to everyday natural and artificial environments.

#### PSY 362. Introductory Statistics (5).

Descriptive statistics and introduction to inferential statistics through one-way analysis of variance. Prerequisite: Math 130 or higher or acceptance to graduate school.

# PSY 363. Intermediate Statistics and Research Methods (5).

Experience with the design, execution, analysis, interpretation, and communication of psychological experiments in addition to data management and statistical software skills. Four hours lecture and two hours lab each week. Prerequisite: PSY 300 and PSY 362.

PSY 396. Individual Study (1-6). PSY 398. Special Topics (1-6).

#### PSY 401. Psychology of Sport (4).

Current theory and research on sports psychology; application of psychological interventions in sports and fitness. Prerequisite: PSY 101.

#### PSY 421, Human Neuroanatomy

(4). An introduction to the anatomical organization and basic functional/ clinical principles of the major systems of the human brain and their relations to disease and behavior. PSY 421 and PSY 521 are equivalent courses; students may not receive credit for both.

PSY 438. Chemical Dependency and the Family (3). An overview of theory and research regarding chemical dependency in the family with a conceptual understanding of models and methods that shape treatment.

#### PSY 441. Self-injurious Behavior

(4). A course covering the occurrence, prevalence, etiology, and treatment of self-injurious behavior in human and nonhuman primates, including human developmental disorders. Prerequisites: students must have taken a biology or psychology course previously and be at least junior standing.

#### PSY 442. Evolutionary Psychology

(4). Application of principles of evolution to understanding of human and non-human behavior and cognition. PSY 442 and PSY 542 are layered courses; students may not receive credit for both.

#### **PSY 444. Tests and Measurements**

(4). Psychological and educational tests, theory, and practice. PSY 444 and PSY 544 are layered course; students may not receive credit for both. Prerequisites: PSY 315 or 362.

# PSY 445. Clinical, Counseling, and Community Psychology (5).

History, current trends, fields of employment, professional ethics, methods of psychological diagnosis, and treatment.

Prerequisite: PSY 101.

#### PSY 447. Psychology of

Adolescence (4). Physiological, cognitive, and social aspects of maturation; problems of vocational choice and of increasing autonomy. Prerequisite: PSY 101.

PSY 448. Sexual Behavior (4). The scientific study of the learned and innate bases of sexual behavior in humans and lower animals. Prerequisite: PSY 101.

#### PSY 449. Abnormal Psychology (4).

Symptoms, etiology, and treatment of psychopathology and behavior problems.
Prerequisite: PSY 101.

#### PSY 450. Sensation and Perception

(4). Research, theoretical models of sensory and perceptual processes. Prerequisites: PSY 300 and either BIOL 101, or BIOL 201.

#### PSY 452. Adult Development and

Aging (4). Principles of adult psychological development and the aging process. Examination of adult behavior, life-styles, crises in adult development, and cognitive, personality, and intellectual changes with aging.

#### **PSY 453. Theories of Personality**

(5). Focus on the scientific study of how and why people differ from each other. Personality psychology addresses questions regarding shared human nature, dimensions of individual differences, and unique patterns of individual behavior. Prerequisite: PSY 101.

#### **PSY 454. The Helping Interview**

(3). Theory and practice of supportive interviewing skills.

PSY 455. Behavioral Medicine and Health Psychology (4). The application of psychology to the understanding of illness and to its prevention and treatment with special emphasis on current health topics (e.g., stress, HIV/ AIDS). Prerequisite: PSY 101.

# PSY 456. Industrial and Organizational Psychology (4).

Application of psychological principles to personnel and organizational problems in labor, industry, government, education, and the military. Prerequisite: PSY 101.

#### PSY 460. Cognitive Psychology (5).

Methods and theories of human cognition and information processing. Prerequisite: PSY 300.

PSY 461. History and Systems of Psychology (5). Historical development and persistent theoretical problems of contemporary psychology. Prerequisite: PSY 101.

#### PSY 465. Psychology and the Law

(4). How the discipline of psychology contributes to our understanding of matters related to the law.

#### PSY 467. Child Psychopathology

(3). Discovery and treatment of the severely maladjusted child; the home, school, and community in relation to the child's mental health; relevant resources and research.

Prerequisites: PSY 313 or 314.

#### PSY 472. International Counseling and Psychology (3). This course immerses students within a cultural group and examines how psychological and counseling

cultural group and examines how psychological and counseling services are provided within that society. The location for the course varies by year. Students will learn about a society's available services, health care provision, relationship/child-rearing traditions, common prejudices, and economic values. PSY 472 and 572 are layered courses. Prerequisite: PSY 101. May be repeated up to 6 credits.

#### PSY 473. Psychology of Language

(4). Basic principles of language, cognition of language, language development, theories of linguistic structure and brain function as it relates to language processing. Prerequisite: PSY 101.

#### PSY 476. Psychopharmacology (4).

Common drugs, psychotherapeutic agents and hallucinogens. Behavioral effects and physiological mechanisms.

#### PSY 478. Physiological Psychology

(4). Problems, methods, and techniques of neurophysiology and the physiology of human and infrahuman behavior patterns. Prerequisites: PSY 300 and either BIOL 101 or BIOL 201.

#### PSY 479. Comparative Psychology

(4). Seminar in the study of behavior and cognition across species. This course is listed under the graduate version of PSY 576; students may not receive credit for both.

#### PSY 483. Psychology of Gender (4).

The psychology of gender from a social psychological perspective, which examines implications of gender roles, schemas, and

stereotypes. Prerequisite: PSY 101.

#### PSY 484. Violence and Aggression

(4). Violence and aggression directed toward self, others, and society. Problems of prevention and treatment, related ethical and legal issues. Prerequisite: PSY 101.

#### PSY 489. Senior Assessment (1).

An end-of-major course. Portfolio review, career planning, and program evaluation activities. Prerequisites: student must be a psychology major in their senior year. It is recommended that this class is taken in the last academic quarter. Grade will either be S or U.

#### **PSY 490.** Cooperative Education (1-

12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves

a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

#### **PSY 491. Workshop** (1-6).

#### PSY 493. Field Research (1-12).

Individual or group off-campus experience in the field study of psychological phenomena. May be repeated for credit.

#### PSY 495. Directed Research (1-5).

Not more than 5 credits of PSY 295, PSY295C, PSY 495, and PSY495C combined may be applied to a 45-credit psychology major and not more than 10 credits, combined, may be applied to a 60-credit major. Prerequisite: PSY 101 May be repeated for credit. Grade will either be S or U. By permission.

#### PSY 495C, CHCI-directed Research

(1-5). Directed research at the Chimpanzee and Human Communication Institute. Course fee will be assessed. Not more than 5 credits of PSY 295, PSY 295C, PSY 495, and PSY 495C combined may be applied to a 45-credit psychology major, and not more than 10 hours combined may be applied to a 60-credit major. May be repeated up to 10 credits. Grade will either be S or U.

# PSY 496. Individual Study (1-6). PSY 497. Undergraduate Honors

Thesis (2-6). By invitation of department chair. Research supervised by three-member committee of the department of psychology. Prerequisite: admission to the Departmental Honors Program. May be repeated up to 6 credits.

**PSY 498. Special Topic** (1-5). **PSY 499. Seminar** (1-5).

#### **Science Education Department**

College of the Sciences Ellensburg Science Bldg., room 107 509-963-2929 Fax 509-963-1222

www.cwu.edu/science-education

See the website for how these programs may be used for educational and career purposes.

#### **Faculty**

#### Chair

Martha J. Kurtz, PhD

#### **Professors**

Martha J. Kurtz, PhD, chemistry and science education Bruce Palmquist, PhD, physics and science education

#### **Associate Professor**

Ian J. Quitadamo, PhD, biological sciences and science education

#### **Assistant Professors**

Jennifer Dechaine, PhD, biological sciences and science education Anne Egger, PhD, geological sciences and science education Vanessa Hunt, PhD, science education Tim Sorey, PhD, chemistry and science education

#### Staff

Lucinda Lunstrum, secretary senior

#### **Department Information**

The primary function of the science education department is preparing people to teach science. Coursework in science pedagogy is offered for students in the Teacher Certification Programs as well as for teachers in the schools. The science

education department works with science departments in the design and operation of degree programs for students who are preparing to teach in the secondary schools. We believe that students learn via the active construction of knowledge. To facilitate that process, all of our instruction follows the learning cycle model.

Our program seeks to help students become facilitators of learning in a diverse world. To that end, the science education department has the following goals for an effective science teacher:

- Demonstrate an ability to individually and collaboratively engage in inquiry and integrate the nature of science
- Explain and apply fundamental science content concepts, principles, and methods
- Demonstrate an ability to effectively facilitate learning for all students
- Create safe, effective learning environments that support inquiry, collaboration, intellectual risk-taking, ethical decision-making, and student construction of knowledge
- Demonstrate an ability to assess teaching and learning outcomes using multiple methods, effectively evaluate teaching and learning effectiveness, and improve practice based on reflection and data
- Demonstrate an ability to make science personally and socially relevant to individual and community by incorporating current events within collaborative and social networks

Students seeking endorsement for certification to teach a specialized science at the high school level must satisfactorily complete the teaching major within the specific science department. Students desiring to become middle or junior high school specialized teachers of science are encouraged to obtain a teaching major in one or more of the following areas: biology, chemistry, Earth sciences, general science, or physics. All students are advised to work toward a second major or minor endorsement.

All students enrolled in science majors leading to certification are required to have an approved schedule on file with a science education advisor as early as possible and before endorsement for student teaching.

#### Middle-level Mathematics and Science Teaching Major, BA

This major is designed for students who wish to teach mathematics and science at the middle level (grades 4-9). The coursework provides experiences in math and science content and pedagogy including field experience and addresses the Washington State competencies for middle level math teachers and the Washington State competencies for middle level science teachers. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum (50 total credits required). Students must successfully demonstrate competency equivalent to the completion of MATH 154 prior to acceptance into this major. Students with strong high school mathematics preparation should take the math placement exam. According to the results of the exam students may satisfy the MATH 153 and MATH 154 requirement. Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students who complete this major and receive a passing score on the WEST-E exams for middle-level mathematics and science are eligible to receive both the middle-level math and science endorsements.

#### Required Courses

Science Credits: 32-33

- BIOL 101 Fundamentals of Biology **Credits:** (5) Select either:
- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry **Credits:** (4)
- CHEM 111LAB Introductory Chemistry Laboratory Credits: (1)
   Select either:
- PHYS 106 Physics Inquiry Credits: (5) OR
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
   Select either:
- GEOL 101 Physical Geology Credits: (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1) OR
- GEOL 103 Geology of Washington Credits: (4)
   AND GEOL 101LAB Physical Geology Laboratory (1)
   Select either:
- PHYS 101 Introductory Astronomy I Credits: (5) OR
- PHYS 102 Introductory Astronomy II Credits: (4)

- SCED 301 Interdisciplinary K-8 Science Inquiry Credits: (5)
- SCED 354 Science, Society and the Teaching Community Credits: (3)

#### Mathematics Credits: 27

- MATH 130 Finite Mathematics Credits: (5)
- MATH 164 Foundations of Arithmetic **Credits:** (5)
- MATH 170 Intuitive Calculus Credits: (5)
- MATH 232 Discrete Modeling for Middle-level Teachers Credits: (4)
- MATH 250 Intuitive Geometry for Elementary Teachers Credits: (4)
- MATH 486 Mathematics, Problem Solving, and Teaching Credits: (4)

#### Integrated Math and Science Credits: 3

- MATH 323 Teaching Middle School Mathematics and Science Credits: (3) OR
- SCED 323 Teaching Middle School Mathematics and Science Credits: (3)

#### Education Credits: 7

- EDEL 477 Middle School Students and Their Environment Credits: (4)
- EDEL 478 Developmentally Responsive Curriculum in the Middle Grades Credits: (3)

#### Advisor-approved Elective Credits: 3-4

#### Approved courses:

- EDEL 323 Teaching Elementary School Mathematics Credits: (4)
- MATH 324 Methods and Materials in Mathematics-Secondary Credits: (5)
- SCED 322 Science Education in the Elementary School Credits: (4)
- SCED 324 Science Education in Secondary Schools I Credits: (3)

Total Credits: 72-74

#### General Science Teaching Major, BS

The general science teaching major prepares students to teach science at the high school, middle, or junior high levels. It is particularly appropriate for students who want to teach integrated science. It meets the Washington State endorsement competencies for science and one designated science of the student's choosing: biology, chemistry, Earth science, or physics. Students wishing to apply for this major must demonstrate mathematical competency equivalent to MATH 153. Students must pass the WEST-E in science and their designated science emphasis area to receive endorsements in both. Students taking this major are required to apply to the Teacher Certification Program and complete the Professional Education Program requirements offered through the Department of Educational Foundations and Curriculum with the exception of EFC 416 and EFC 350 (44 total credits required). Students completing this program are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching.

#### Science Core

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)
- CHEM 181 General Chemistry I Credits: (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)
- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)
- GEOL 101 Physical Geology Credits: (4)
   OR GEOL 103 Geology of Washington (4)
- GEOL 101LAB Physical Geology Laboratory Credits: (1)

- GEOL 350 Teaching Northwest Geology Credits: (4)
- PHYS 101 Introductory Astronomy I Credits: (5)
- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1) OR
- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)
- SCED 324 Science Education in Secondary Schools I Credits: (3)
- SCED 325 Science Education in Secondary Schools II Credits: (3)
- SCED 354 Science, Society and the Teaching Community Credits: (3)
- SCED 401 Interdisciplinary Secondary Science Inquiry Credits: (5)
- SCED 487 Teaching Secondary Science Seminar Credits: (2)

#### Total Core Credits: 75

#### Designated Science Endorsement Area (pick one)

#### Biology Credits: 17

- BIOL 213 Introductory Biostatistics Credits: (4)
- BIOL 321 Genetics Credits: (5)
- BIOL 360 General Ecology **Credits:** (5)
- BIOL 470 Mechanisms of Evolution Credits: (3) OR

#### Chemistry Credits: 18

- CHEM 332 Quantitative Analysis Credits: (3)
- CHEM 332LAB Quantitative Analysis Laboratory Credits: (2)
   OR CHEM 345 Environmental and Global Change (5)
- CHEM 361 Organic Chemistry I Credits: (3)
- CHEM 361LAB Organic Chemistry Laboratory I Credits: (2)
- CHEM 362 Organic Chemistry II Credits: (3)
- CHEM 431 Biochemistry I Credits: (3)
- CHEM 431LAB Biochemistry Laboratory Credits: (2) OR

#### Earth Science Credits: 18

- GEOL 200 Earth's Evolution and Global Change Credits: (5)
- GEOL 302 Oceans and Atmosphere **Credits:** (4)
- GEOL 320 Rocks and Minerals Credits: (5)
- GEOL 380 Environmental Geology and Natural Hazards Credits: (4)
   OR

#### Physics Credits: 22

- MATH 172 Calculus I Credits: (5)
- MATH 173 Calculus II Credits: (5)
- PHYS 317 Modern Physics I Credits: (4)
- PHYS 318 Modern Physics II Credits: (4)
- PHYS 363 Optics Credits: (4)

#### Total Credits: 92-97

#### Middle-level Science Teaching Minor

This minor is designed for students who wish to teach science at the middle level (grades 4-9). The coursework provides experiences in science content and pedagogy including field experience and addresses the Washington State competencies for middle-level science teachers. This minor is open only to students working on or currently holding teaching endorsements in elementary education or secondary science (biology, chemistry, Earth science, general science, or physics). Students taking this minor are required to apply to the Teacher Certification Program. Students must have completed MATH 153 prior to acceptance into this minor. Students with strong high school mathematics preparation should take the Math Placement Exam. According to the results of the exam, students may satisfy the MATH 153 requirement. Students completing this minor are required to demonstrate knowledge, skill, and disposition proficiency through a program portfolio prior to student teaching. Students must pass the West-E exam for middle-level science to receive the middle-level science endorsement.

#### Required Courses

- BIOL 101 Fundamentals of Biology Credits: (5)
- CHEM 101 Contemporary Chemistry Credits: (5) OR
- CHEM 111 Introduction to Chemistry Credits: (4)
   AND CHEM 111LAB Introduction to Chemisty Laboratory (1)
- EDEL 477 Middle School Students and Their Environment Credits: (4)
- EDEL 478 Developmentally Responsive Curriculum in the Middle Grades Credits: (3)
- GEOL 101 Physical Geology Credits: (4)
- AND GEOL 101LAB Physical Geology Laboratory (1) OR
- GEOL 103 Geology of Washington **Credits:** (4) AND GEOL 101LAB - Physical Geology Laboratory (1)
- PHYS 101 Introductory Astronomy I Credits: (5)
   OR PHYS 102 Introductory Astronomy II (4)
- PHYS 106 Physics Inquiry Credits: (5) OR
- PHYS 111 Introductory Physics Credits: (4)
   AND PHYS 111LAB Introductory Physics Laboratory (1)
- SCED 301 Interdisciplinary K-8 Science Inquiry Credits: (5)
- SCED 323 Teaching Middle School Mathematics and Science Credits: (3)
- SCED 354 Science, Society and the Teaching Community Credits: (3)

Total Credits: 42-43

#### Science Education - Broad Area Science Teaching Minor

This minor is restricted to students working on a major in biology, chemistry, Earth science, or physics. Science teaching majors must complete the appropriate courses in the three disciplines shown below that are outside their major. For example, a biology major would need to fulfill the chemistry, Earth science and physics requirements. Students interested in this minor need to see a science education advisor as soon as possible. This program may result in students taking more than four years to complete their degree. Students completing this minor are required to demonstrate knowledge, skill, and disposition proficiency of student learning outcomes through a program portfolio prior to student teaching. Students must pass the WEST-E exam for science to receive the science endorsement.

#### Required Courses

(Complete all three areas not covered in major program)

#### Biology

- BIOL 181 General Biology I **Credits:** (5)
- BIOL 182 General Biology II Credits: (5)
- BIOL 183 General Biology III Credits: (5)

Subtotal Credits: 15

#### Chemistry

- CHEM 181 General Chemistry I **Credits:** (4)
- CHEM 181LAB General Chemistry Laboratory I Credits: (1)
- CHEM 182 General Chemistry II Credits: (4)
- CHEM 182LAB General Chemistry Laboratory II Credits: (1)

- CHEM 183 General Chemistry III Credits: (4)
- CHEM 183LAB General Chemistry Laboratory III Credits: (1)

Subtotal Credits: 15

#### Earth Science

- GEOL 101LAB Physical Geology Laboratory Credits: (1)
- GEOL 350 Teaching Northwest Geology Credits: (4)

#### Select Either

- GEOL 101 Physical Geology Credits: (4) OR
- GEOL 103 Geology of Washington Credits: (4)

#### Select Either

- GEOL 210 Introduction to Geologic Field Methods Credits: (4)
   OR
- PHYS 101 Introductory Astronomy I Credits: (5)

Subtotal Credits: 13-14

#### **Physics**

- PHYS 111 Introductory Physics Credits: (4)
- PHYS 111LAB Introductory Physics Laboratory Credits: (1)
- PHYS 112 Introductory Physics II Credits: (4)
- PHYS 113 Introductory Physics III Credits: (4)
- PHYS 113LAB Introductory Physics Laboratory III Credits: (1)

#### OR

- PHYS 181 General Physics Credits: (4)
- PHYS 181LAB General Physics Laboratory Credits: (1)
- PHYS 182 General Physics II Credits: (4)
- PHYS 182LAB General Physics Laboratory II Credits: (1)
- PHYS 183 General Physics III Credits: (4)
- PHYS 183LAB General Physics Laboratory III Credits: (1)

Subtotal Credits: 15

Total Credits: 43-45

#### **Science Education - Elementary Education Minor**

Admission to this minor is limited to students majoring in elementary education, early childhood education or special education. This minor does not lead to endorsement as a specialized science teacher.

Students who complete this minor will have enhanced science content knowledge and teaching skills.

#### Required Courses

- Three lower-division science courses with labs (select a course from three of the following five areas: biology, chemistry, physics, Earth science, and astronomy) Credits: 13-15
- SCED 301 Interdisciplinary K-8 Science Inquiry Credits: (5)
- SCED 322 Science Education in the Elementary School Credits: (4)
- SCED 354 Science, Society and the Teaching Community Credits: (3)
- SCED 422 Advanced Teaching Strategies in Elementary Science Credits: (5)

Total Credits: 30-32

# SCED 301. Interdisciplinary K-8 Science Inquiry (5).

Interdisciplinary investigation of applied life, physical, and Earth science concepts applicable to K-8 classrooms using integrated contexts. Applied inquiry processes are used to increase student knowledge, skills, and dispositions. Six lecture/ lab hours per week.

#### **SCED 311. Science Concepts for**

Teachers (5). An in-depth examination for the science concepts applicable to K-12 classrooms using an individualized and inquiry-based approach. Online and community recourses are utilized to enhance existing science content knowledge and understanding.

# SCED 322. Science Education in the Elementary School (4).

Techniques, selection of materials and appropriate subject matter for the various grade levels. Demonstrations and student investigative activities for use in classroom science teaching. Prerequisite: current WSP/ FBI fingerprint clearance, and conditional or full admission to the Teacher Certification Program.

#### SCED 323. Teaching Middle School Mathematics and Science

(3). Prospective teachers will learn and use the methods and materials needed to teach middle school students mathematics and science with emphasis on the use of experiments, manipulatives, problems solving, cooperative learning, and communication of understanding. SCED 323 and MATH 323 are cross-listed courses; students may not receive credit for both. Prerequisite: MATH 324 or EDEL 323 or SCED 324 or SCED 322, current WSP/FBI fingerprint clearance, and application to the Teacher Certification Program. By permission.

# SCED 324. Science Education in Secondary Schools I (3).

Methods, techniques, and materials appropriate for teaching science in secondary schools. Curriculum, planning, and experiments for use in teaching. Prerequisites: EFC 330 and SCED 401, current WSP/FBI fingerprint clearance, and admission to the Teacher Certification Program.

# SCED 325. Science Education in Secondary Schools II (3).

Applied field experience for teaching science in secondary schools. Planning, instruction, and management for teaching science. Enrollment is subject to full admission to the Professional Education Program.

Prerequisites: SCED 324, admission to the Teacher Certification Program, and current WSP/ FBI fingerprint clearance.

# SCED 354. Science, Society and the Teaching Community (3).

Teacher candidates will learn the nature and context of science, compare science with other ways of knowing, describe the relationship between science and the community, gain skills in integrating community resources with the classroom. Prerequisite: current WSP/ FBI fingerprint clearance, and admission to the Teacher Certification Program.

# SCED 398. Special Topics (1-6). SCED 401. Interdisciplinary

Secondary Science Inquiry (5). Interdisciplinary investigation of applied life, physical, and earth science concepts applicable to secondary school classrooms using integrated contexts. Applied inquiry processes are used to increase student knowledge, skills, and dispositions. Prerequisite: one laboratory course from two of the following areas: biology, chemistry, geology, or physics.

# SCED 411. Field Experience in Communicating Science to the

Public (2). Applied field experience in communicating science to the public. Methods, techniques, materials, and practices for effective communication of scientific ideas, and methods. SCED 411 and SCED 511 are layered courses, students may not receive credit for both. Prerequisite: senior standing. May be repeated up to 4 credits.

#### SCED 422. Advanced Teaching Strategies in Elementary Science

(5). Further develop knowledge and skills of elementary science teaching with a particular emphasis on the science inquiry process, assessment of student knowledge and cross-curricular integration. Includes teaching practica. Prerequisite: SCED 322.

### SCED 487. Teaching Secondary

Science Seminar (2). Students compile knowledge, skills, and dispositions evidence and reflect on performance relative to professional standards. Students discuss current secondary science education issues, participate in program assessment, prepare for endorsement exam, and complete an electronic portfolio.

Prerequisite: students must plan

Prerequisite: students must plan to teach within a year of enrolling in this course.

#### **SCED 491. Workshop** (1-6).

#### SCED 495. Science Education

Research (1-3). This course introduces pre-service science teachers to qualitative and quantitative methods of action research. Course requires completion of a research project of the student's design.

Prerequisite: current WSP/FBI fingerprint clearance, and admission to the Teacher Certification Program. May be repeated up to 6 credits.

SCED 496. Individual Study (1-6).

#### Science Honors Research

College of the Sciences Ellensburg Lind Hall, room 118A 509-963-2718

www.cwu.edu/sciences/science-honors-program

See the website for how this program may be used for educational and career purposes.

#### **Program Director**

Audrey Huerta, PhD huerta@geology.cwu.edu

#### **Program Information**

The two-year Science Honors Research Program is centered on a faculty-mentored student research project that culminates in an honors thesis. Applications to the program consist of a research proposal developed under the guidance of a faculty mentor. All proposals are reviewed by a faculty committee. Application deadline is in winter quarter.

Students are normally admitted to the program during their junior year and are employed for nine weeks during the summer, when they are expected to perform the bulk of their research activities. Required coursework consists of SHP 301 (2 credits), SHP 401 (2 credits), and SHP 497 (1 credit). Research continues during the senior year, concluding with a written honors thesis and an oral presentation at the CWU Symposium on University Research and Creative Expression (SOURCE).

#### **Admission Requirements**

Admission to the program is competitive, based on the quality of the research proposal submitted by the applicant and faculty mentor. Approximately 10 students are admitted each year. Application forms, criteria, and deadline are posted on the Science Honors website, www.cwu.edu/~cots/ scihonors.

#### **Exit Requirements**

Satisfactory completion of SHP 497, which requires the submission of an honors thesis that is approved by faculty mentor and program director, is required for participation in honors convocation and to receive an honors designation on the transcript.

#### Required Extracurricular Activity

Students are expected to work full time on their proposed research project for nine weeks during the summer and to participate in group activities and weekly meetings. Students should not be working more than 15 hours per week at another job, nor be enrolled in other classes during the summer. Exceptions may be made for certain required summer courses, such as GEOL 489.

#### Science Honors Courses

SHP 301. Science Honors Junior
Seminar: Elements of Scientific
Research (2). The process of
science from a multi-disciplinary
perspective, including the
historical development of
scientific methods and reasoning,
effective experimental design,
and the interpretation of
measurements.

#### SHP 401. Science Honors Capstone

Seminar (2). Skills and techniques for communicating the results of scientific research. Students prepare the final draft of their Science Honors thesis as part of the coursework.

### SHP 497. Science Honors Thesis

(1). Completion of Science Honors thesis. Strategies for effective oral presentation of scientific work will also be covered. Students must present results of Science Honors project at SOURCE. Prerequisites: SHP 401 and admission to the Science Honors Program. Grade will either be S or U.

#### **Sociology Department**

College of the Sciences Ellensburg Farrell Hall, room 409 509-963-1305 Fax: 509-963-1308

www.cwu.edu/sociology

See website for how sociology may be used for educational and career purposes.

#### **Faculty and Staff**

Chair

Delores (Kandee) Cleary, PhD

#### **Professors**

Laura L. Appleton, PhD, sex and gender, death and dying, sociology of religion

Delores Cleary, PhD, criminology, the life-course, American society, minorities, ethnic studies, American Indian issues

Kirk A. Johnson, PhD, criminology, delinquency, victimization, organizations, methods

Nelson Pichardo, PhD, ethnic studies, social movements

Hong Xiao, PhD, social stratification, social theory, comparative sociology, social ecology, China studies

#### **Associate Professors**

Judith Hennessy, PhD, social welfare and poverty, gender, sociology of work, sociology of family

#### **Assistant Professors**

Eric Cheney, PhD, deviance and social control, economic sociology, organizations, statistics and urban sociology Michael Harrod, PhD, social psychology, criminology theory, intimate partner violence, statistics, research methods Pamela McMullin-Messier, PhD, demography, aging, collective action, social justice, environmental studies, family, gender, and sexuality

Michael Mulcahy, PhD, political sociology, political economy, organizations, theory

#### Staff

Noella Wyatt, secretary

#### **Department Information**

The Department of Sociology provides opportunities for students to understand the conceptual and methodological tools used by sociologists to understand society. Students will be encouraged to: 1) see society as concrete day-to-day behavior of human beings; 2) grasp the relationship between history, society, and the individual's life; 3) realize that social patterns are tools for the accomplishment of human ends and not necessarily unalterable facts of life; and 4) develop the ability to critically analyze social phenomena.

#### **Department Standards**

Students who major in sociology and social services are required to register with the department, at which time an advisor will be selected. In order to develop a program of study, students are required to meet once a quarter with their advisor. Further information on specific courses, the faculty, and career opportunities are available in the department office.

#### **Exit Requirements**

Students are required to have a 2.3 cumulative grade point average for all majors.

#### Honors in Sociology and

#### **Social Services**

- 1. The sociology department's honors program is designed for students who wish to explore a particular research problem in depth.
- 2. Admission to the program

The student must:

- (a) Have a 3.50 or higher cumulative GPA in sociology courses
- (b) Be at least a junior
- (c) Have a faculty member sponsorship; the faculty member would submit student's name to the department for admission
- 3. Requirements

The student is required to:

- (a) Maintain a 3.5 or higher GPA in sociology coursework (including any approved outside electives) applied to the sociology degree
- (b) Enroll in SOC 495 beginning fall quarter of the senior year (minimum of 10 credits over the course of that year)
- (c) Complete a research project under the supervision of a faculty
- (d) Participate in a public presentation of the research project (such as SOURCE, a professional conference, or other departmental-approved venues)
- 4. Those who fail to maintain a 3.5 GPA in the major, or who fail to participate in a public presentation will not receive honors.

#### **Sociology Core Requirements**

#### **Required Courses**

SOC 107 - Principles of Sociology 5

SOC 350 - Social Theory I 5

SOC 363 - Methods of Social Research 5

SOC 364 - Data Analysis in Sociology 5

SOC 489 - Senior Seminar 1

Sociology Core Total Credits: 21

#### Sociology Major, BA (45 credits)

Students may choose either a 45-credit major or a 60-credit major. In order to graduate, a student who completes the 45-credit major must also have a minor or second major in another discipline.

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

(NOTE: Students admitted to the sociology major cannot also have sociology minor; however, they may have social services minor. Likewise, students admitted to the social services major cannot also have social services minor, but they may have sociology minor.)

#### Required Courses

Students are recommended to take SOC 363 before taking SOC 364.

- SOC 107 Principles of Sociology **Credits:** (5)
- SOC 350 Social Theory I **Credits:** (5)
- SOC 363 Methods of Social Research Credits: (5)
- SOC 364 Data Analysis in Sociology Credits: (5)
- SOC 489 Senior Seminar Credits: (1)

Sociology Core Credits: 21

Select one course from each of the following categories - Credits: 14-15

#### Deviance, Law and Social Control

- SOC 343 Child Abuse **Credits:** (5)
- SOC 344 Juvenile Delinquency Credits: (5)
- SOC 345 Deviance **Credits:** (5)
- SOC 346 Criminology Credits: (5)
- SOC 348 Women and Crime **Credits:** (5)
- SOC 349 Law and Society Credits: (5)
- SOC 352 Punishment and Corrections Credits: (5)

#### Inequality and Social Change

- SOC 325 Aging **Credits:** (5)
- SOC 326 Demography of Contemporary World Populations Credits: (5)
- SOC 354 Minority Experience **Credits:** (5) or ETS 354
- SOC 356 Sociology of Gender **Credits:** (5)
- SOC 362 Social Movements **Credits:** (5)

- SOC 365 Minority Groups **Credits:** (5)
- SOC 366 Sociology of American Indians Credits: (5)
- SOC 370 Social Change Credits: (5)
- SOC 375 Sociology of Conflict **Credits:** (5)
- SOC 382 Sociology of the Future **Credits:** (5)
- SOC 386 Seminar on Racism Credits: (5)
- SOC 415 Urban Sociology Credits: (5)
- SOC 442 Social Welfare Policy Credits: (5)
- SOC 445 Social Inequality Credits: (5)

#### Social Structure and Institutions

- SOC 307 Individual and Society Credits: (5)
- SOC 320 Death and Dying Credits: (5)
- SOC 327 Sociology of Health Credits: (5)
- SOC 331 Sociology of Sport Credits: (5)
- SOC 338 Political Sociology Credits: (5)
- SOC 351 Sociology of Work Credits: (5)
- SOC 357 Sociology of Families Credits: (5)
- SOC 367 Sociology of Religion Credits: (5)
- SOC 380 Social Ecology Credits: (5)
- SOC 425 Sociology of Education Credits: (5)
- SOC 459 Organizations Credits: (5)

Sociology Total Credits: 35-36

Approved Electives in Sociology - Credits: 9-11

A maximum of 5 credits of 100-level electives and up to 5 credits of 200-level electives may be counted toward the major. PSY 363, Intermediate Statistics and Research Methods are an approved elective.

Total Credits: 45

In order to graduate, a student who completes the 45 credit major must also have a minor or second major in another discipline.

#### Sociology Major, BA (60 credits)

Students may choose either a 45-credit major or a 60-credit major. In order to graduate, a student who completes the 45-credit major must also have a minor or second major in another discipline.

(NOTE: Students seeking a BA degree must complete one year college/ university study or two years high school study of a single foreign language.)

(NOTE: Students admitted to the sociology major cannot also have a sociology minor; however, they may have a social services minor. Likewise, students admitted to the social services major cannot also have a social services minor, but they may have a sociology minor.)

#### Required Courses

- SOC 107 Principles of Sociology **Credits:** (5)
- SOC 350 Social Theory I Credits: (5)
- SOC 363 Methods of Social Research Credits: (5)
- SOC 364 Data Analysis in Sociology Credits: (5)
- SOC 489 Senior Seminar Credits: (1)

Sociology Core Credits: 21

Select at least one course from each of the following categories. Credits: 14-15

#### Deviance, Law and Social Control

- SOC 343 Child Abuse **Credits:** (5)
- SOC 344 Juvenile Delinquency Credits: (5)
- SOC 345 Deviance Credits: (5)
- SOC 346 Criminology Credits: (5)
- SOC 348 Women and Crime **Credits:** (5)
- SOC 349 Law and Society Credits: (5)
- SOC 352 Punishment and Corrections Credits: (5)

#### Inequality and Social Change

- SOC 325 Aging Credits: (5)
- SOC 326 Demography of Contemporary World Populations Credits: (5)
- SOC 354 Minority Experience Credits: (5) or ETS 354
- SOC 356 Sociology of Gender **Credits:** (5)
- SOC 362 Social Movements Credits: (5)
- SOC 365 Minority Groups Credits: (5)
- SOC 366 Sociology of American Indians Credits: (5)
- SOC 370 Social Change **Credits:** (5)
- SOC 375 Sociology of Conflict **Credits:** (5)
- SOC 382 Sociology of the Future **Credits:** (5)
- SOC 386 Seminar on Racism Credits: (5)
- SOC 415 Urban Sociology Credits: (5)
- SOC 442 Social Welfare Policy Credits: (5)
- SOC 445 Social Inequality Credits: (5)

#### Social Structure and Institutions

- SOC 307 Individual and Society Credits: (5)
- SOC 320 Death and Dying Credits: (5)
- SOC 327 Sociology of Health Credits: (5)
- SOC 331 Sociology of Sport **Credits:** (5)
- SOC 338 Political Sociology **Credits:** (5)
- SOC 351 Sociology of Work Credits: (5)
- SOC 357 Sociology of Families **Credits:** (5)
- SOC 367 Sociology of Religion **Credits:** (5)
- SOC 380 Social Ecology Credits: (5)
- SOC 425 Sociology of Education Credits: (5)
- SOC 459 Organizations Credits: (5)

Total Credits from above categories: 35-36

Approved Electives in Sociology - Credits: 24-26

A maximum of 5 credits of 100-level electives and up to 5 credits of 200-level electives may be counted toward the major. PSY 363, Intermediate Statistics and Research Methods are an approved elective.

Total Credits: 60

#### Social Services Major, BS

The social service major is designed for students interested in working in the human services delivery systems. Students are required to have a strong grounding in sociology as well as the applied field of social services. The coursework introduces students to critical issues in the field and offers students the opportunity to work within agencies in the community.

The major requirements are such that students are encouraged to organize their program of study to include a minor in an area of interest or specialization outside of sociology. Some areas that fit well with this major include psychology, ethnic studies, family studies, gerontology, women's studies, community health, and the like.

#### Core Area

- SOC 107 Principles of Sociology **Credits:** (5)
- SOC 350 Social Theory I Credits: (5)
- SOC 363 Methods of Social Research Credits: (5)
- SOC 364 Data Analysis in Sociology Credits: (5)
- SOC 489 Senior Seminar Credits: (1)

#### Practice Area

- SOC 301 Introduction and History of Social Service Agencies Credits: (5)
- SOC 310 Social Service Methods and Casework Credits: (5)
- SOC 490 Cooperative Education Credits: (1-12)
   Additional credits in SOC 490 may count toward graduation.

#### Macro Considerations in Social Services

- SOC 442 Social Welfare Policy Credits: (5)
- SOC 445 Social Inequality Credits: (5)

#### Social Organization Area

#### Choose one course:

- SOC 415 Urban Sociology Credits: (5)
- SOC 460 Community Structure and Organization Credits: (5)

#### Contemporary Society Area

#### Choose one course:

- SOC 356 Sociology of Gender Credits: (5)
- SOC 365 Minority Groups Credits: (5)
- SOC 386 Seminar on Racism Credits: (5)

Approved Electives in Sociology - Credits: 5 (Upper Division)

\*PSY 363, Intermediate Statistics and Research Methods is an approved elective.

\*\*SOC 107 is prerequisite for SOC 350 and 445.

\*\*\*\*Additional credits in SOC 490 may count toward graduation.

Total Credits: 60

#### **Social Services Minor**

(NOTE: Students admitted to the sociology major cannot also have sociology minor; however, they may have a social service minor. Likewise, students admitted to the social services major cannot also have a social service minor, but they may have sociology minor.)

#### Required Courses

- Electives in Sociology Credits: (15)
  SOC 490, Cooperative Education, and SOC 496, Individual Study, do not count toward the minor. A maximum of 5 credits of elective lower-division coursework may be counted toward the minor.
- SOC 301 Introduction and History of Social Service Agencies Credits: (5)
- SOC 310 Social Service Methods and Casework **Credits:** (5)
- SOC 442 Social Welfare Policy Credits: (5) OR
- SOC 460 Community Structure and Organization Credits: (5)

Total Credits: 30

#### **Sociology Minor**

Required Courses

- Upper-division electives in Sociology Credits: 20
   SOC 490, Cooperative Education, and SOC 496, Individual Study, do not count toward the minor. With advisor approval, a maximum of 5 credits of elective lower-division coursework may be counted toward the minor.
- SOC 107 Principles of Sociology Credits: (5)

Total Credits: 25

#### **Sociology Courses**

SOC 101. Social Problems (5). An introduction to the study of contemporary issues such as poverty, military policies, families, crime, aging, racial, ethnic conflict, and the environment. SB-Perspectives on Cultures and experiences of U.S. (W)

#### SOC 107. Principles of Sociology

(5). An introduction to the basic concepts and theories of sociology with an emphasis on the group aspects of human behavior. SB-Found Human Adaptations (W)

SOC 291. Workshop (1-6). SOC 296. Individual Study (1-6).

**SOC 299. Seminar** (1-5).

**SOC 301. Introduction and History of Social Service Agencies** (5). Introduction to the fields of social welfare, health services and corrections; organization and function of agencies.

# SOC 305. American Society (5). Introduction to the social structure and processes of American society; emphasis on institutions such as government, family, schools, and religion, and processes such as conflict, change, stratification, mobility, and communication. Prerequisite: sophomore standing or above. SB-Perspectives on Cultures and experiences of U.S. (W)

# SOC 307. Individual and Society (5). An analysis of the relationship between social structure and the individual. No GRD

SOC 310. Social Service Methods and Casework (5). Casework interviewing techniques and skills, traditional and contemporary methods, emphasis upon developing a personal casework style. Prerequisite: SOC 301.

- **SOC 320. Death and Dying** (5). An analysis of social attitudes, practices, and institutions associated with death and dying in American society.
- SOC 325. Aging (5). Problems and advantages of growing old in society; post-parental families, retirement, the economics of pensions, importance of interaction in old age, residential facilities, geriatric medicine, and dying.
- SOC 326. Demography of
  Contemporary World
  Populations (5). Demographic
  analysis, fertility and the birth
  control movement, mortality and
  life expectancy, and migration.
  Involves use of computers.
- SOC 327. Sociology of Health (5). The social causes of disease and illness behavior, organization of medical care and comparative health systems.
- **SOC 331. Sociology of Sport** (5). Sports and games as social phenomena.
- **SOC 333. Genealogy** (1). Kin names, pedigrees, family trees, and ancestral histories. Research with records, family documents, and interviews.
- SOC 338. Political Sociology (5).

  Major theories of power in society. Analysis of the political/ economic structure of society as it determines the differential access to social power by different social groups.
- SOC 340. Social Interaction (5). Face-to-face contact, communication and social psychological features of groups. No GRD
- **SOC 343. Child Abuse** (5). An analysis of the causes, consequences of and prospects for dealing with the phenomena

of child abuse and neglect in American society.

# SOC 344. Juvenile Delinquency (5). A study of social factors causing delinquency in youth; major theories, analysis of

- major theories, analysis of treatment and control.

  SOC 345. Deviance (5). A survey of approaches to the field of deviance with emphasis on
- contemporary work and focus on the problematics of the field. SOC 346. Criminology (5). A study of the adult criminal, criminal behavior, and criminality in
- SOC 348. Women and Crime (5). This course will critically assess the current theoretical and empirical literature on female criminality and social control.

human societies.

- SOC 349. Law and Society (5). Law is studied through the major sociological perspectives by examining law and its relations with the economy, policy, family, religion, socioeconomic production, social class, gender, and race and ethnicity.

  Prerequisite: SOC 107.
- SOC 350. Social Theory I (5). An introduction to social theory through study of early social thinkers, emphasizing the works of Durkheim, Marx, and Weber. Prerequisites: SOC 107 and 10 units of sociology 300-and-above level courses.
- SOC 351. Sociology of Work (5).

  An historical view of the impact of technology on society and social change. Importance of work as an institution. How work relates to the other social institutions, to culture, and to the development of personality.
- SOC 352. Punishment and Corrections (5). Origin, maintenance, structure, and function of institutions of

punishment and correction with particular emphasis on American society; problems of change in punishment and corrections.

- SOC 354. Minority Experience (5). Explanations will be identified for institutional racism common to the history and character of American minorities. SOC 354 and ETS 354 are cross-listed courses; students may not receive credit for both.
- SOC 356. Sociology of Gender (5). A review and analysis of the development, maintenance, and consequences of masculine and feminine social roles.
- SOC 357. Sociology of Families (5). Theory and research about familial interaction and society.
- SOC 358. Sociology of Sexualities (5). Exploration of how sexualities are socially constructed and controlled. This course we use a sociological lens to examine how sexualities directly and indirectly shape our daily lives, adopting both a lifecourse and cross-cultural perspectives to understand the fluidity of sexuality.
- SOC 362. Social Movements (5). Causes, organizational problems, consequences of revolutions, and political, religious and social movements.
- Research (5). Principles and applications of social research methods. Prerequisites: SOC 107 and 5 units of sociology 300+ level courses or permission from the instructor.
- SOC 364. Data Analysis in Sociology (5). Prerequisite: SOC 363
- SOC 365. Minority Groups (5).
  Study of the social formation of minority groups in American society, their historical development, current conditions, and issues.
- SOC 366. Sociology of American Indians (5). This course presents a sociological approach to Native American society. Specifically, it explores social institutions in Indian Country including political, economic, family, religious, and educational systems. Understanding the American Indian experience in

relation to broader society is emphasized.

- SOC 367. Sociology of Religion (5). The social organization of religious experience in small and large societies and the relationship of religious beliefs to human life.
- SOC 369. Mass Media and Society
  (4). Relationship of the mass media to social institutions; including philosophy, responsibilities, regulations, and criticism. Variable topic, may be repeated for up to 8 credits. SOC 369 and COM 369 are cross-listed courses. May be repeated for credit.
- SOC 370. Social Change (5). Social processes, institutional development and revolutions.
- SOC 375. Sociology of Conflict (5). Major theories of conflict in society. Applications of theories to contemporary United States. Investigation of major factors related to societal power and conflict.
- SOC 380. Social Ecology (5). The structure and development of human communities as they interact with environmental conditions
- SOC 382. Sociology of the Future (5). A sociological analysis of predictions of the future. Principal questions will revolve around the effects of technology on social structure and the individual.
- SOC 386. Seminar on Racism (5). An advanced level of study examining the nature and dynamics of social forces in American society that produce the phenomena of racism. The changing forms of racism that occur historically at the intersection of class and gender oppression.
- **SOC 398. Special Topics** (1-6). **SOC 399. Seminar** (1-5).
- SOC 415. Urban Sociology (5).
  Growth, structure, and functions of the city; their relationships to surrounding and rural areas, urban ecological patterns, planning, and the problems of urban living. Prerequisites: SOC 107 and 10 units of sociology 300-and-above level courses.

- SOC 425. Sociology of Education
  (5). Impact of culture on schools.
  Examination of contemporary
  social trends and relationships
  among church, school, and
  government; contributions of
  sociology to the area of education
  in its broadest sense.
- SOC 442. Social Welfare Policy (5). Review of U.S. social welfare policy, emphasis on 20th century social policies influencing nature of welfare state, and delivery of social services.
- SOC 445. Social Inequality (5). The distribution of wealth, power, and prestige in society. Prerequisite: SOC 107.
- SOC 447. White-collar and
  Organization Crime (5). This
  course explores crimes by and
  against social organizations.
  Crimes by the organization
  include illegal behavior by
  corporations, governments, and
  crime syndicates. Crimes against
  the organization include illegal
  acts by trusted professionals.
  Prerequisite: SOC 107.
- **SOC 449. Contemporary Native American Cultures and Issues** (4). Analysis of contemporary Native American cultures and issues, including tribal sovereignty, resource management, education, religion, economic, and health status, and cultural continuity, and adaptation. SOC 440 and ANTH 449 are cross-listed courses; students may not receive credit for both. Prerequisites: either ANTH 341, ANTH 347, SOC 366, AIS 103, or permission of instructor.
- SOC 450. Social Theory II (5).

  Study of selected modern social theories, including structural functionalism, conflict theory, exchange theory, symbolic interactionism, ethnomethodology, and the dramaturgical school.

  Prerequisite: SOC 350.
- SOC 459. Organizations (5).

  Theory and research on the structure and development of organizations.
- SOC 460. Community Structure and Organization (5).
  Community formation from inner-city to rural hamlet.

Changes in community institutions and organizational life related to industrialization, politics, social stratification, and ethnicity. Students will conduct field research on specific community functions and social structures. Prerequisites: SOC 107 and 10 units of sociology 300-and-above level courses.

SOC 464. Applied Data Analysis (5). Application of the principles of research methodology and statistical analysis to the collection and analysis of social data. Prerequisite: SOC 364.

SOC 470. Contemporary Social Thought (4). Prospects for sociology theory. Prerequisite: SOC 450.

**SOC 488. Colloquy** (1-3). Current literature in sociology. May be

repeated up to a total of 10 credits.

SOC 489. Senior Seminar (1). A senior capstone course. Portfolio review, career planning, and program evaluation activities. Prerequisite: senior standing and admission to the sociology major or social services major.

SOC 490. Cooperative Education (1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisite: prior approval required. May be repeated for credit. Grade will either be S or U.

SOC 491. Workshop (1-6). SOC 492. Sociology Teaching

Experience (1-5). Experience in the classroom and/ or laboratory teaching. Prerequisites: senior standing and admission to the sociology major or permission from the instructor. May be repeated up to 10 credits. By permission.

SOC 494. Research Practicum (1-5). Supervised experience in qualitative research. May be repeated up to 10 credits.

SOC 495. Sociological Research (1-15). Individual research project. Prerequisites: SOC 350, SOC 363, and SOC 364. May be repeated up to 15 credits.

SOC 496. Individual Study (1-6). SOC 498. Special Topics (1-6). SOC 499. Seminar (1-5).

#### **STEP Program**

College of the Sciences Ellensburg Lind Hall, room 119B 509-963-3002 www.cwu.edu/ step

#### Contact

Jessica Nye Program Support Supervisor 2 STEP@cwu.edu

The Science Talent Expansion Program (STEP) is an innovative program designed to prepare and retain students in majors and careers in science, technology, engineering, and mathematics (STEM) fields. STEP consists of an integrated sequence of classes, enrichment activities, and student research opportunities through which students gain hands-on experience in modern scientific research methods, explore theme-based interdisciplinary scientific issues, and develop mentoring relationships with CWU STEM faculty.

Application to STEP is open to new freshman and transfer students with an interest in and aptitude for STEM fields.

STEP freshman participate in a three-quarter-long series of courses known as the STEP Freshman Science Seminar (STEP 101, STEP 102, and STEP 103). Completion of these three courses satisfies one of the Natural Sciences General Education Program requirements. Students who successfully complete the STEP Freshman Science Seminar series will be eligible to apply for and participate in the STEP Sophomore Bridging Program. The STEP Sophomore Bridging Program provides the opportunity for students in their sophomore year to have a paid position doing undergraduate research, recruiting for STEP, or as a Teaching Assistant in various STEM courses. Those students who have already had some college-level experience are invited to apply directly to the STEP Transfer Bridging Program and will take two STEP courses, STEP 301 in the fall and STEP 302 in the winter. Upon completion of these courses, transfer students will have the opportunity to apply for a paid position in the STEP Transfer Bridging Program.

The Science Talent Expansion Program at CWU involves faculty members from several academic departments: Biological Sciences, Chemistry, Computer Science, Geological Science, Industrial & Engineering Technology, Mathematics, and Physics. More information about the program and participating faculty members is available on the STEP website.

#### **STEP Courses**

# STEP 101. Science Seminar I: Research Experience (2). First course in three-quarter freshman science series. Students gain practical introduction to the scientific process through designing and conducting experimental, laboratory and field investigations. Students must take STEP 101, 102, and 103 to receive credit for Applications of Natural Science breadth area. Prerequisite: enrollment in STEP Program. NS-Application Natural Science (W)

STEP 102. Science Seminar II:
Interdisciplinary Research
Theme (3). Second course in
three-quarter freshman science
series. Students will take an
interdisciplinary approach
toward a class research project
centered on a single theme.

Students must take STEP 101, 102, and 103 to receive credit for Applications of Natural Science breadth area. Prerequisites: STEP 101 and enrollment in STEP Program. By permission. NS-Application Natural Science (W)

STEP 103. Science Seminar III:

Current Topics (1). Third course in three-quarter freshman science series. Topical survey of active research efforts by faculty and students in science, technology and mathematics fields at CWU. Students must take STEP 101, 102, and 103 to receive credit for Applications of Natural Science breadth area. Prerequisites: STEP 102 and enrollment in STEP Program. NS-Application Natural Science (W)

STEP 301. Bridge Seminar I: Survey of Research Opportunities (1). First course in two-quarter sequence for incoming transfer students. Students are introduced to undergraduate research opportunities at CWU and learn to write an effective research proposal. Prerequisite:student must be enrolled in STEP Program. By permission.

STEP 302. Bridge Seminar II (2).

Second course in a two-quarter sequence for incoming transfer students. Students develop research and critical thinking skills through careful reading of scientific publications and handson experiments. Prerequisites: STEP 301, and admission to the STEP program, or by permission of instructor. By permission.

#### **Teaching Elementary Adolescent and Young Children Department**

College of Education and Professional Studies Ellensburg Black Hall, room 101 509-963-1464 Fax: 509-963-1162

www.cwu.edu/elementary

See the website for how these programs may be used for educational and career purposes.

#### Faculty and Staff

#### Chair

Virgina Erion, EdD

#### **Professor**

Cory Gann, MA, early childhood education

#### **Associate Professors**

Tina Georgeson, EdD, early childhood and elementary education Deborah Haskell, PhD, TEACH contributions middle level programs and early childhood education Khodi Kaviani, PhD, elementary education Keith Salyer, PhD, early childhood and elementary education

#### **Assistant Professors**

Virgina Erion, EdD, early childhood education Teresa Walker, EdD, early childhood education

#### Lecturers

Susan Connolly, MEd, lecturer Christine English, MEd, lecturer Melanie Kingham, MEd, senior lecturer

#### Staff

Tina Clark, program support supervisor

#### Department Information, Standards, and Requirements

Major and/ or minor programs in the TEACH department include early childhood education and elementary education. Additionally the TEACH department contributes to the middle-level teaching programs in mathematics (see mathematics in the catalog) and science teaching (see science education in the catalog).

In addition to a listed major and/ or minor, students must maintain full admission status in the Teacher Certification Program (see College of Education and Professional Studies in the catalog) and complete the Professional Education Program (see Department of Education Foundations and Curriculum in the catalog) to qualify for teacher certification in the endorsable area. The early childhood education major and minor offer options in which these requirements do not apply (see descriptions below). At least 75 percent of an endorsable major or minor must be completed prior to the Professional Education Program course, EDCS 442 (Student Teaching).

All students seeking a teacher certification endorsement must maintain a 3.0 GPA or higher for the last 45 graded credits. Students must also earn a minimum grade of "C" in all required major, minor, and Professional Education Program courses.

#### **Early Childhood Education Major**

(with Washington State Teacher Certification)

This major is intended to prepare students to become birth through grade 3 teaching specialists. As it is less than a 60-credit major it requires a minor OR second major. Students who elect to complete this major for a teacher certification endorsement in early childhood education are strongly advised to simultaneously complete the elementary education major (see a department advisor as to how this may be effectively accomplished). Students seeking the teacher certification endorsement in early childhood education must complete all Teacher Certification and Professional Education Program requirements, which include the Professional Education Program courses (49-52 credits). Also, EFC 480, Student Teaching, of the Professional Education Program should be completed at the K-3 level. Successful completion of EDEC 492 and EDEC 493 (minimum of 12 credits) is expected before student teaching. Exceptions may be granted by the department chair in unusual circumstances. Majors must complete EDEC 492 and EDEC 493 concurrently and then either course may be repeated individually. Candidates must be fully admitted to the major prior to beginning the six quarter cohort sequence. Students enrolling in any course with a field experience as well as EDEC 292 and EDEC 493 must have a current WSP and FBI fingerprint and background clearance on file with CWU. Please check with the CWU Teacher Certification Office (Black Hall, room 228; 509-963-2660) regarding clearance.

#### (without Washington State Teacher Certification)

A student may complete the Early Childhood Education major without gaining entry to the Teacher Certification Program or completing the Professional Education Program. Under such circumstances a teacher certification endorsement in early childhood will not be granted. This option exists for those individuals who wish to work with young children in an infancy/ toddler/ preschool setting that does not require teacher certification. While full application to the Teacher Certification Program is not required, students enrolling in any Early Childhood Education Program class that has a field experience, including the EDEC 292 or EDEC 493 practica must have a current WSP and FBI fingerprint and background clearance. Please check with the CWU Teacher Certification Office (Black Hall, room 228; 509-963-2660) regarding clearance.

#### Required Courses

- EDEC 306 Professional Growth and Expectations Credits: (2)
- EDEC 307 Equity, Culture, and Anti-bias in ECE Credits: (3)
- EDEC 312 Childhood Learning Credits: (3)
- EDEC 313 Materials and Manipulatives in ECE Credits: (3)
- EDEC 314 Learning through Play Credits: (3)
- EDEC 321 Curriculum I **Credits:** (3)
- EDEC 322 Parent Involvement **Credits:** (3)
- EDEC 411 Curriculum II Credits: (3)
- EDEC 412 Responsible Childhood Assessment **Credits:** (3)
- EDEC 422 Classroom Management in an ECE Classroom Credits: (3)
- EDEC 424 Curriculum III **Credits:** (3)
- EDEC 432 Theories in Child Development **Credits:** (3)
- EDEC 492 Senior Seminar Credits: (3)
- EDEC 493 Practicum and Issues in ECE Credits: (3-18)

Total Credits: 50

#### **Elementary Education Major**

This major satisfies the teacher certification endorsement for elementary education. As it is less than a 60-credit major it requires a minor OR second major. There is not an option to complete this major without completing all Teacher Certification and Professional Education Program requirements, which include the Professional Education Program courses (49-52 credits).

Students who complete this major will be endorsed to teach in regular, self-contained elementary classrooms. EDLT 308, EDLT 409, EDLT 422, and EDEL 323 must be taken prior to EFC 480 (Student Teaching).

#### Required Courses

- Department-approved electives Credits: (3-5)
- EDEL 320 Integrated Arts in the Elementary School Credits: (5)
- EDEL 323 Teaching Elementary School Mathematics Credits: (4)
- EDEL 420 Social Sciences in the Elementary School Credits: (4)
- EDEL 423 Integrated Methods for the Elementary School Credits: (3)
- EDLT 308 Literacy I **Credits:** (3)
- EDLT 321 Teaching Children's Literature Credits: (3)
- EDLT 409 Literacy II **Credits:** (5)
- EDLT 422 Teaching the Language Arts **Credits:** (4)
- HED 446 Health Education Curriculum for Elementary Teachers Credits: (3)
- MATH 164 Foundations of Arithmetic Credits: (5)
- MATH 250 Intuitive Geometry for Elementary Teachers Credits: (4)
- PE 334 Physical Education Activities for the Elementary School Credits: (3)
- SCED 322 Science Education in the Elementary School Credits: (4)

Total Credits: 53-55

#### **Early Childhood Education Minor**

(with Washington State Teacher Certification)

This minor is intended to prepare students to become birth through grade 3 teachers. Students who elect to complete this minor with a teaching endorsement in early childhood education are strongly advised to simultaneously complete the elementary education major (see a department advisor as to how this may be effectively accomplished). Students seeking the teacher certification endorsement in early childhood education must complete all Teacher Certification and Professional Education Program requirements and courses (49-52 credits). Also, EFC 480, Student Teaching, in the Professional Education Program should be completed at the K-3 level. Students are advised that the ECE major and minor courses are clustered so cohorts will move through the program taking 2-3 courses in the program each quarter. Majors must complete EDEC 492 and EDEC 493 concurrently and then either course may be repeated individually. Candidates must be fully admitted to the major prior to beginning the six quarter cohort sequence. All students in the ECE program must have Washington State Patrol and FBI background and fingerprint clearance. Please check with the CWU Teacher Certification Office (Black Hall, room 228; 509-963-2660) regarding clearance.

(without Washington State Teacher Certification)

A student may complete this minor without gaining entry to the Teacher Certification Program or completing the Professional Education Program. Under such circumstances a teacher certification endorsement in early childhood will not be granted. This option exists for those individuals who wish to work with young children only in an infancy/ toddler/ preschool setting. Students are advised that the ECE major and minor courses are clustered so cohorts will move through the program taking 2-3 courses in the program each quarter. Majors must complete EDEC 492 and EDEC 493 concurrently and then either course may be repeated individually. Candidates must be fully admitted to the minor prior to beginning the six quarter cohort sequence. All students in the ECE program must have Washington State Patrol and FBI background and fingerprint clearance. Please check with the CWU Teacher Certification Office (Black Hall, room 228; 509-963-2660) regarding clearance.

#### Required Courses

- EDEC 306 Professional Growth and Expectations **Credits:** (2)
- EDEC 307 Equity, Culture, and Anti-bias in ECE Credits: (3)
- EDEC 312 Childhood Learning Credits: (3)
- EDEC 313 Materials and Manipulatives in ECE **Credits:** (3)
- EDEC 314 Learning through Play Credits: (3)

- EDEC 321 Curriculum I Credits: (3)
- EDEC 322 Parent Involvement Credits: (3)
- EDEC 411 Curriculum II Credits: (3)
- EDEC 412 Responsible Childhood Assessment **Credits:** (3)
- EDEC 422 Classroom Management in an ECE Classroom Credits: (3)
- EDEC 424 Curriculum III Credits: (3)

Total Credits: 32

# Early Childhood Education Courses EDEC 232. Child Development (3).

Developmental characteristics of children with emphasis from conception to eight years. Includes observation techniques. EDEC 232 and FC 232 are crosslisted courses; students may not receive credit for both.

# EDEC 292. Assisting in the Child-centered Classrooms (5).

Students work with children in ECE classrooms, learning and practicing the fundamentals of guidance, curriculum implementation, and maintaining the physical environment.

Students participate in a two-hour seminar each week. May be taken twice for credit with the permission of the division head. Grade will be either S or U.

EDEC 296. Individual Study (1-6). EDEC 298. Special Topics (1-6). EDEC 299. Seminar (1-5).

EDEC 306. Professional Growth and Expectations (2). This initial course in the Early Childhood Education sequence is a survey of the profession. Students begin a professional growth and development plan, develop philosophical underpinnings, and systematically organizing resources that will be used throughout the program.

EDEC 307. Equity, Culture, and Anti-bias in ECE (3). Principles of equity, cultural relevancy, and anti-bias approaches appropriate for programs serving children from birth through eight years of age. Co-requisite: EDEC 306.

#### EDEC 312. Childhood Learning (3).

Childhood Learning is an exploration of the specific content knowledge and processes, such as reading, math, science, language arts, etc. that are found in preschool through third grade developmentally appropriate programs. Prerequisites: EDEC

306 and EDEC 307. Co-requisites: EDEC 313 and EDEC 314.

# EDEC 313. Materials and Manipulatives in ECE (3). The influence of family patterns and interaction on infant and child development; current research. Prerequisites: EDEC 306 and EDEC 307. Co-requisites: EDEC 312 and EDEC 314.

#### EDEC 314. Learning through Play

(3). Learning through play is a dynamic look at how to introduce and solidify skills through play based emergence curriculum. The use of play to developmentally explore in depth reading, math, emotions, etc. Prerequisites: EDEC 306 and EDEC 307. Corequisite: EDEC 312 and EDEC 313.

#### EDEC 321. Curriculum I (3).

Historical influences and knowledge of child development/ psychological theories/ contemporary models will form the basis for curriculum development, implementation, and interactions with children from birth to preschool age. Prerequisites: EDEC 312 and EDEC 313 and EDEC 314. Corequisite: EDEC 322.

#### **EDEC 322. Parent Involvement** (3).

Parent-child and parent-school interactions as educational and developmental aids. Emphasis upon the school's use of the home and community for educational purposes. Prerequisites: EDEC 312 and EDEC 313 and EDEC 314. Co-requisite: EDEC 321.

# EDEC 347. History and Philosophies of Early Childhood Education (3). Focus on select historical events and figures that have shaped the pedagogical and

philosophical development of the field of early childhood education. Prerequisite: completion any psychology course.

#### EDEC 364. Child Safety and Well-

Being (3). Origins and applications of learning/ developmental theory emphasizing personalized, child-centered education and wellness practices. Prerequisite: EDEC 232 or EDEC 332, and current WSP/ FBI fingerprint clearance.

**EDEC 396. Individual Study** (1-6). **EDEC 398. Special Topics** (1-6).

#### **EDEC 401. Comparative Education**

Models in Early Childhood (1). Students in this class will do an in-depth study of 2 curriculum models (i.e. Montessori, Waldorf, Froebel, etc.) and then visit programs that exemplify the two models. Prerequisite: admission to the early childhood education major or minor. May be repeated up to 3 credits.

#### EDEC 411. Curriculum II (3).

Historical influences and knowledge of child development, psychological theories, and contemporary models as bases for curriculum development and implementation in pre-kindergarten settings.

Prerequisite: EDEC 321 and EDEC 322. Co-requisite: EDEC 412

#### EDEC 412. Responsible Childhood

Assessment (3). Exploration and application of childhood assessment, birth-elementary with emphasis on responsibility, ethics, purpose, decision-making, and alignment; designed to impact individual learning outcomes, professional implementation, and program improvement. Prerequisites: EDEC 321 and EDEC 322. Corequisite: EDEC 411.

## EDEC 415. Child Language

**Acquisition** (3). Language acquisition from birth through

eight years; aspects of phonological, grammatical, and semantic development in a natural language environment. Projects include transcription and grammatical analysis of a young child's speech. Prerequisites: EDEC 331 or FCSF 331 or EDEC 332 or FCSF 332 or PSY 314 or ENG 180 or ANTH 180.

#### EDEC 422. Classroom Management in an ECE

Classroom (3). This course provides students the opportunity to explore, apply, synthesize and evaluate techniques and strategies for creating positive classroom climates through organization and management techniques. Prerequisites: EDEC 411 and EDEC 412. Co-requisite: EDEC 421

# EDEC 423. Materials and Manipulatives in ECE (2).

Strategies are investigated for developing games and learning opportunities through the use of classic ECE manipulatives. The potential for fostering mathematical teaching knowledge and skills is emphasized.

#### EDEC 424. Curriculum III (3).

Historical influences and knowledge of child development/ psychological theories/ contemporary models will form the basis for curriculum development, implementation, and interactions with children from kindergarten through primary grades. Prerequisite: EDEC 411 and EDEC 412. Corequisite: EDEC 422.

#### EDEC 432. Theories in Child

**Development** (3). Assists the student in formulating his or her own general assumptions about the nature of child development through study of various theoretical viewpoints and current issues. EDEC 432 and FS 432 are cross-listed courses, students may not receive credit for both. Prerequisite: EDEC 421 and EDEC 422.

#### **EDEC 447. Curriculum Exploration**

(3). Guided exploration of curriculum or guidance needs as identified by student selfevaluation. Consistency with the student's personal philosophy and child development will be emphasized. Prerequisites: EDEC 331 or FCSF 331.

#### **EDEC 465. Directing ECE**

Programs (3). Budgeting, governmental requirements, staffing, nutritional and health care, parental involvement, community and agency liaison, and the integration of developmental/educational curriculum.

#### EDEC 490. Cooperative Education

(1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. Prior approval.

**EDEC 492. Senior Seminar** (3). This capstone seminar integrates the hands-on experiences from the EDEC 493 practicum with the ECE major course content. Students will actively problem solve, develop professional resources, compile a portfolio and career growth plan. Prerequisite: 60 percent of the coursework for the ECE major must be completed prior to enrolling in this class. Corequisite: EDEC 493 must be taken concurrently (may be repeated with or without the EDEC 493 practicum). May be repeated up to 6 credits. Department Consent Required

#### EDEC 493. Practicum and Issues in

ECE (3-18). Students will work in ECE settings 20 hours per credit. Classroom interactions will include group instruction, individual tutoring, assessing students' learning, classroom management, classroom maintenance, as well as other duties determined by the site supervisors. 60% of the ECE major coursework must be completed prior to enrolling in class. Corequisite: EDEC 492 required for the initial experience (may be repeated a second time without the EDEC 492 practicum). Prerequisite: current

WSP/ FBI fingerprint clearance. May be repeated up to 18 credits. Grade will either be S or U. Department Consent Required.

# **EDEC 494. Advanced Practicum** (3-10). A course designed to meet

10). A course designed to meet special needs as determined by the student, his/ her advisor and the director. Prerequisite: EDEC 493. SUS

EDEC 496. Individual Study (1-6). EDEC 498. Special Topics (1-6). EDEC 499. Seminar (1-5).

Elementary Education Courses EDEL 296. Individual Study (1-6). EDEL 298. Special Topics (1-6).

**EDEL 299. Seminar** (1-5).

EDEL 320. Integrated Arts in the

Elementary School (5). This course contains content and methodology for elementary majors preparing to teach all of the arts (dance, drama/ theatre arts, music and visual arts) with connections to pedagogy, artistic expression, and the other content area of elementary education. Recommended: acceptance into the Teacher Certification Program.

# EDEL 323. Teaching Elementary School Mathematics (4).

Methods and materials for helping children learn mathematics with emphasis on the use of manipulatives, problem solving, cooperative learning, and communication. Prerequisites: MATH 164, MATH 250, and admission to the Teacher Certification Program, and current WSP/FBI fingerprint clearance.

#### EDEL 396. Individual Study (1-6). EDEL 420. Social Sciences in the

Elementary School (4). Methods, techniques, content, and materials for the various grade levels with an emphasis on history, geography, economics, civics, political science, and social studies skills, through the use of inquiry, primary source documents, and integration of content within the elementary school curriculum. Prerequisite: conditional or full admission to the Teacher Certification Program.

EDEL 423. Integrated Methods for the Elementary School (3). In this

capstone course, elementary teacher candidates will explore interdisciplinary instruction and design standards-based unit plans that incorporate best teaching practices for specific teaching assignments. Teacher candidates must complete at lease one course in each of four of six elementary content areas prior to enrolling: (Arts, English/Language Arts, Health/ Fitness. Mathematics, Science, and Social Studies). Prerequisites: complete 4 of the following courses; EDEL 320, EDLT 421, EDLT 422, EDEL 323, SCED 322, PE 334, HED 446, or EDEL 420, and acceptance into the Teacher Certification Program.

EDEL 468. Teaching Problemsolving Techniques for Upper **Elementary and Middle School** Mathematics (3). Methods and materials for helping the upper elementary/ middle school (5th-8th grade) students learn mathematics with emphasis on appropriate manipulatives, teaming, problem solving, and communication strategies. Prerequisites: EDCS 311 and EDEL 323 and MATH 164 and EFC 301 or EDF 301A and application or admission to the Teacher Certification Program.

EDEL 477. Middle School Students and Their Environment (4). An in-depth exploration of the developmental learning needs of 5th-8th grade students and the physical, social, and management systems utilized by middle-level education programs. The major focus of this course is to create developmentally appropriate classroom practices that merge educational developmental needs. Prerequisites: PSY 314, EFC 310 or EDF 301A, and application or admission to the Teacher Certification Program.

EDEL 478. Developmentally
Responsive Curriculum in the
Middle Grades (3). An in-depth
exploration of research-based
middle school curriculum that
meets the development needs of
young adolescents. This course
focuses on middle school
curriculum and its process by
which it is designed, integrated,
and evaluated. Prerequisite:
conditional or full admission to
the Teacher Certification
Program.

EDEL 482. Instruction and
Assessment for the Middle
Level: Grades Five through
Eight (3). This course provides
the future middle-level educator
with comprehensive skills in
instructional methods,

curriculum alignment, lesson development, and assessment methodology within the middle school environment.

Prerequisites: PSY 314, EFC 310, EDCS 311, and admission to the Teacher Certification Program.

EDEL 490. Cooperative Education (1-12). An individualized, contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. Prerequisites: prior approval and conditional or full admission to the Teacher Certification Program. May be repeated for credit. Grade will be either S or U.

EDEL 492. Practicum. (1-15).

Experience working in educational settings.

Arrangements are made through the office of student teaching.

Prerequisite: conditional or full admission to the Teacher

Certification Program. Students may accumulate no more than 15 hours of practicum credit. Grade will either be S or U.

ED EL 496. Individual Study (1-6). ED EL 498. Special Topics (1-6). ED EL 499. Seminar (1-5).

### **Theatre Arts Department**

College of Arts and Humanities Ellensburg McConnell Hall, room 102 509-963-1750 Fax: 509-963-1767 www.cwu.edu/ theatre

See the website for how this program may be used for educational and career purposes.

#### Faculty and Staff Chair

Scott R. Robinson, MFA

#### Professors

Brenda Hubbard, MFA, acting, directing, literature Scott R. Robinson, MFA, resident costume designer Michael J. Smith, MFA, acting, directing, voice

#### **Associate Professors**

Christina Barrigan, MFA, head of design, resident lighting designer

George W. Bellah, 3rd, MFA, movement, performance, stage combat, Asian drama Elise Forier Edie, MFA, applied theatre, head of performance, playwriting, youth theatre

#### **Assistant Professors**

David Brown, MM, musical director, music theory Terri Brown, PhD, head of music theatre, history, literature and music theatre Marc Hanjuk, MFA, resident scenic designer

#### Lecturers

David Barnett, MFA, McConnell stage manager, scence shop manager, technical director and theatre technology Anneliese Childress, choreographer
Jerry Dougherty, MFA, production manager, theatre technology
Keith Edie, MFA, performance
Shari Foster, ABD, history and literature
Elena Hartwell, MFA, playwriting and literature
M. Catherine McMillen, BA, costume shop manager, wigs and makeup
Jessica Pribble, MFA, costume design and technology

#### Staff

Gwen Bruce, fiscal technician II Mary Makins, secretary senior

#### **Department Information**

The Department of Theatre Arts offers comprehensive study in the varied facets of theatre arts as they relate to theatre production. Coursework prepares students for rigorous and rewarding work within Central Theatre Ensemble (CTE), the production arm of the program, leading to professional work in the entertainment industry. Based on a professional model of theatre, CTE offers students the opportunity to thrive in all aspects of theatre production in a safe and mentoring environment, working in state-of-the-art venues supported by fully equipped shops and studios.

#### **Admission Requirements**

#### **BA Program**

Students seeking a BA degree must complete one year of college/ university study or two years of high school study of a single foreign language.

A cumulative grade point average of 2.7 (B-) in the pre-major required courses must be achieved with a minimum greade of "C+" (2.3) in each course. The applicant must have earned a minimum cumulative GPA of 2.0 in all other collegiate study.

Pre-major required courses:

- TH 107 Introduction to Theatre **Credits:** (4)
- TH 144 Foundations of Acting Credits: (3)
- TH 166 Theory of Play Production Credits: (3)

#### **BFA Specializations**

Admission to the BFA is by audition/interview only. Auditions/ interviews are held each year, in late February and early March. See the Auditions Procedures Page www.cwu.edu/ theatre/ node/ 2479/ #8.

#### Theatre Arts-General Studies, BA

A perfect choice for the theatre artist, general studies allows for advanced study in a variety of areas allowing students to become the kind of well-rounded theatre artist who can go on to a focused study in graduate school or a variety of careers in the field. The general studies degree is also a great choice for the student who has a number of interests and needs the flexibility to explore several options.

The Department of Theatre Arts offers students a variety of emphasis areas to choose from to ensure that each participant receives specialized attention in the theatre discipline of their choice. By focusing on an emphasis, students can build skills and acquire the training to build strong resumes and portfolios in order to pursue professional jobs or advanced degrees.

#### Pre-admission Requirements

Students seeking a BA degree must complete one year of college/ university study or two years of high school study of a single foreign language.

A cumulative grade point average of 2.7 in the pre-admission requirements courses must be achieved with a minimum grade of "C+" (2.3) in each course. The applicant must have earned a minimum cumulative GPA of 2.0 in all other collegiate study.

Students who have met all the above requirements will be admitted unless the number of eligible applicants exceeds available space. In that case, acceptance will be acceptance will be competitive, based on a selection index.

- TH 107 Introduction to Theatre **Credits:** (4)
- TH 144 Foundations of Acting Credits: (3)
- TH 166 Theory of Play Production Credits: (3)

#### Required Courses

- TH 261 Costume Technology Credits: (3)
- TH 267 Scene Technology Credits: (3)
- TH 268 Lighting Technology Credits: (3)
- TH 363 Theatre History I Credits: (4)
- TH 364 Theatre History II Credits: (4)
- TH 365 Theatre History III **Credits:** (4)
- TH 495 Senior Research Project Credits: (3)

Choose any of the following for a total of 8 credits:

- TH 375 Asian Drama Credits: (4)
- TH 377 Staging Gender Credits: (4)
- TH 382 Ethnic Drama Credits: (4)

Choose either of the following for a total of 3 credits:

- TH 329 Directing I Credits: (3)
- TH 360 Stage Management Credits: (3)

Complete 3 credits of TH 393 and 1 credit of TH 493 - Credits: (4).

- TH 393 Theatre Laboratory Credits: (1)
- TH 493 Theatre Laboratory Credits: (1)

Choose any of the following for a total of 12 credits:

- TH 201 Dance Production Application Credits: (1-3)
- TH 202 Performance Studio Credits: (1-3)
- TH 301 Production Application Credits: (3)
- TH 302 Performance Application Credits: (3)
- TH 303 Management Application Credits: (3)
- TH 332 New Play Production Credits: (2)
- TH 401 Production Application Credits: (3)
- TH 402 Performance Application Credits: (3)
- TH 403 Management Application Credits: (3)

Choose any Theatre Electives for a total of 14 credits: (any TH course as approved by advisor)

Total Credits: 75

#### Theatre Arts, BFA - Design and Production Specialization

Theatre Arts BFA Core Requirements

#### Theatre Major, BFA

The BFA program is designed to prepare knowledgeable, skilled graduates who will compete at all levels in an increasingly competitive field. Students will also learn to assess, explain, and interpret the many roles and responsibilities inherent in the world of the professional theatre artist. They will also understand how to use the skills they have developed in other career paths related to their degree.

The BFA theatre program is innovative and interdisciplinary. Students complete a sequence of core foundation courses, gain admission into the program through audition/interview, and focus in a single emphasis-performance, design and production, or musical theatre.

Interdisciplinary course work is integral to the structure and success of the BFA theatre program. All of the required and elective courses for the degree are part of other major programs and are regularly taught. Besides the theatre arts courses, 29 interdisciplinary courses are offered by two colleges from seven other CWU departments: art, communications, dance, English, physical education, family and consumer sciences, industrial engineering, and music.

Admission to the BFA is by audition/ interview only. Auditions/ interviews are held each spring quarter, in late-February for new students and in early-March for continuing BA candidates. Continuing BFA students will sign up for audition/ interview appointments as part of the annual BFA juries.

BFA candidates must maintain a cumulative GPA of 3.0 in Theatre Arts with a minimum grade of "B-" (2.7) in each course within their specialization. The applicant must earn a minimum cumulative GPA of 2.0 in all other collegiate study. Meeting this standard is reviewed as part of the annual jury in each specialization.

Theatre BFA students are required to complete the general education requirements established by the university.

#### BFA Core Requirements

- TH 107 Introduction to Theatre **Credits:** (4)
- TH 166 Theory of Play Production Credits: (3)
- TH 261 Costume Technology Credits: (3)
- TH 267 Scene Technology Credits: (3)
- TH 268 Lighting Technology Credits: (3)
- TH 363 Theatre History I Credits: (4)
- TH 364 Theatre History II Credits: (4)
- TH 365 Theatre History III **Credits:** (4)

#### Lab Component - Credits: 4

Complete 4 credits of TH 393 or TH 493.

- TH 393 Theatre Laboratory Credits: (1)
- TH 493 Theatre Laboratory **Credits:** (1)

#### Production Component - Credits: 3

Choose one of the following:

- TH 301 Production Application Credits: (3)
- TH 401 Production Application Credits: (3)

#### BFA Core Total Credits: 35

#### Design Technical Specialization

The design and production specialization builds specific skills in production from a strong foundation of general knowledge of technical theatre and the design aspect of theatre. Students choose from a range of courses, both introductory and advanced from writing and drawing, construction, and sewing.

To help students prepare for future employment or graduate school, all students are strongly encouraged to pursue practical experience through TH 490 - Cooperative Education (internship) as well as the production application courses, designed to put theory into practice as part of Central Theatre Ensemble's regular on -campus season.

#### Required Courses

- TH 144 Foundations of Acting **Credits:** (3)
- TH 266 Theatre Drafting Credits: (3)
- TH 140 Introduction to Theatre Design **Credits:** (3)
- TH 360 Stage Management Credits: (3)
- TH 366 Theatre Rendering Credits: (3)
- TH 489 Career & Portfolio Preparation Credits: (3)
- TH 495 Senior Research Project Credits: (3)

#### Literature Component Credits: 8

Choose any of the following for a total of 8 credits.

- TH 375 Asian Drama Credits: (4)
- TH 377 Staging Gender Credits: (4)
- TH 382 Ethnic Drama Credits: (4)

#### Production Component - Credits: 15

Choose any of the following for a total of 15 credits.

- FCSA 381 Fashion Show Production Credits: (2)
- TH 201 Dance Production Application Credits: (1-3)
- TH 301 Production Application Credits: (3)
- TH 303 Management Application Credits: (3)
- TH 393 Theatre Laboratory Credits: (1)
- TH 401 Production Application Credits: (3)
- TH 403 Management Application Credits: (3)
- TH 440 Advance Design Problems Credits: (3)
- TH 490 Cooperative Education Credits: (1-12)
- TH 492 Practicum in Devising and Touring Theatre Credits: (3-12)
- TH 493 Theatre Laboratory **Credits:** (1)

#### Core Skills Component Credits: 3

Choose any of the following for a total of 3 credits.

- ART 150 Drawing I Credits: (5)
- TH 215 Music Fundamentals for Musical Theatre I Credits: (3)
- TH 465 Costume and Fashion Drawing Credits: (3)

#### Area Skills Component - Credits: 12

Choose from the following for a total of 12 credits.

- COM 207 Introduction to Communication Studies Credits: (4)
- COM 251 Small Group Dynamics Credits: (4)
- EMS 245 First Aid Credits: (3)
- FCSA 355 Consumer Textiles **Credits:** (4)
- IET 160 Computer-aided Design and Drafting Credits: (4)
- IET 161 Architectural Computer Aided Design Credits: (3)
- SHM 201 Introduction to Safety and Health Management Credits: (1)
- TH 270 Stage Makeup Credits: (3)
- TH 353 Stage Properties Credits: (3)
- TH 354 Scene Painting Credits: (3)
- TH 356 Stage Sound Credits: (3)
- TH 362 Costume Crafts Credits: (3)
- TH 384 Puppetry Credits: (3)
- TH 464 Wig Creation, Styling, and Maintenance Credits: (3)

#### History/ Writing Component Credits: 6

Choose any of the following for a minimum of 6 credits.

- ADMG 385 Business Communications and Report Writing Credits: (5)
- ART 235 Ancient and Medieval Art Credits: (4)
- ART 236 Renaissance through Mid-19th-century Art Credits: (4)
- ART 237 Impressionism through Postmodernism Credits: (4)
- ENG 310 Technical Writing Credits: (4)
- FCSA 452 History of Fashion **Credits:** (4)
- FCSH 366 History of Housing and Furniture I Credits: (3)

- FCSH 465 History of Housing and Furniture II Credits: (3)
- TH 452 History of Fashion **Credits:** (4)

Intermediate Skills Component Credits: 6

Choose any of the following for a minimum of 6 credits.

- HRM 381 Management of Human Resources Credits: (5)
- MGT 380 Organizational Management Credits: (5)
- TH 361 Stage Costuming Credits: (3)
- TH 367 Stage Scenery Credits: (3)
- TH 368 Stage Lighting Credits: (3)

Advanced Skills Component Credits: 4

Choose any of the following for a total of 4 credits.

- TH 456 Sound Design Credits: (4)
- TH 460 Production Management Credits: (4)
- TH 461 Costume Design Credits: (4)
- TH 467 Scene Design Credits: (4)
- TH 468 Lighting Design Credits: (4)

Total Design and Production Credits: 75

Total Credits: 110

## Theatre Arts, BFA - Musical Theatre Specialization

Theatre Arts BFA Core Requirements

Theatre Major, BFA

The BFA program is designed to prepare knowledgeable, skilled graduates who will compete at all levels in an increasingly competitive field. Students will also learn to assess, explain, and interpret the many roles and responsibilities inherent in the world of the professional theatre artist. They will also understand how to use the skills they have developed in other career paths related to their degree.

The BFA theatre program is innovative and interdisciplinary. Students complete a sequence of core foundation courses, gain admission into the program through audition/interview, and focus in a single emphasis-performance, design and production, or musical theatre.

Interdisciplinary course work is integral to the structure and success of the BFA theatre program. All of the required and elective courses for the degree are part of other major programs and are regularly taught. Besides the theatre arts courses, 29 interdisciplinary courses are offered by two colleges from seven other CWU departments: art, communications, dance, English, physical education, family and consumer sciences, industrial engineering, and music.

Admission to the BFA is by audition/interview only. Auditions/interviews are held each spring quarter, in late-February for new students and in early-March for continuing BA candidates. Continuing BFA students will sign up for audition/interview appointments as part of the annual BFA juries.

BFA candidates must maintain a cumulative GPA of 3.0 in Theatre Arts with a minimum grade of "B-" (2.7) in each course within their specialization. The applicant must earn a minimum cumulative GPA of 2.0 in all other collegiate study. Meeting this standard is reviewed as part of the annual jury in each specialization.

Theatre BFA students are required to complete the general education requirements established by the university.

## BFA Core Requirements

- TH 107 Introduction to Theatre Credits: (4)
- TH 166 Theory of Play Production **Credits:** (3)
- TH 261 Costume Technology Credits: (3)
- TH 267 Scene Technology Credits: (3)

- TH 268 Lighting Technology Credits: (3)
- TH 363 Theatre History I Credits: (4)
- TH 364 Theatre History II Credits: (4)
- TH 365 Theatre History III Credits: (4)

## Lab Component - Credits: 4

Complete 4 credits of TH 393 or TH 493.

- TH 393 Theatre Laboratory Credits: (1)
- TH 493 Theatre Laboratory **Credits:** (1)

## Production Component - Credits: 3

Choose one of the following:

- TH 301 Production Application Credits: (3)
- TH 401 Production Application Credits: (3)

## BFA Core Total Credits: 35

## Musical Theatre Specialization

The musical theatre specialization builds specific skills in production from a strong foundation of using the body as the artist's instrument through singing, voice, and stage movement in the musical theatre style. Students choose from a range of courses, both introductory and advanced, from writing and movement, dancing, and voice.

To help students prepare for future employment or graduate school, all students are strongly encouraged to pursue practical experience through TH 490 - Cooperative Education internship as well as the performance application courses, designed to put theory into practice as part of Central Theatre Ensemble's regular on-campus season.

## Required Courses

- MUS 152A Class Piano I Credits: (1)
- MUS 153A Class Piano II Credits: (1)
- MUS 154A Class Piano III **Credits:** (1)
- TH 148 Actor Conditioning Monologue Credits: (1)
- TH 215 Music Fundamentals for Musical Theatre I Credits: (3)
- TH 216 Music Fundamentals for Musical Theatre II Credits: (3)
- TH 217 Music Fundamentals for Musical Theatre III Credits: (3)
- TH 243 Singing for Actors Credits: (1) (may be repeated)
- TH 244 Basic Acting 1 Credits: (3)
- TH 245 Basic Acting II Credits: (3)
- TH 246 Basic Acting III **Credits:** (3)
- TH 252 Stage Dance Credits: (2)
- TH 343 Singing for Actors II **Credits:** (1) (may be repeated)
- TH 344 Intermediate Acting I Credits: (3)
- TH 415 Musical Theatre History and Literature I Credits: (3)
- TH 416 Musical Theatre History and Literature II Credits: (3)
- TH 417 Musical Theatre History and Literature III Credits: (3)
- TH 443 Singing for Actors III **Credits:** (1) (may be repeated)

## Movement Component Credits: 11

Choose any of the following for a total of 11 credits.

- PED 101 Modern Dance I **Credits:** (2)
- PED 102 Modern Dance II Credits: (2)
- PED 104 Ballet I (Level 1) **Credits:** (2)
- PED 121 Tap Dance I Credits: (1)
- PED 141 Jazz Dance I Credits: (1)
- PED 142 Jazz Dance II Credits: (1)

- PED 204 Ballet II (Level 1) **Credits:** (2)
- PEID 120 Beginning Fencing Credits: (1)
- PEID 145 Beginning Circus Arts **Credits:** (1)
- TH 248 Vocal Conditioning for the Actor **Credits:** (1)
- TH 252 Stage Dance Credits: (2)
- TH 312 Creative Dramatics in School and Leisure Credits: (3)
- TH 333 Stage Combat Fundamentals Credits: (3)
- TH 335 Movement for the Actor **Credits:** (3)
- TH 352 Stage Dance II Credits: (3)
- TH 433 Advanced Stage Combat Credits: (3)
- TH 446 Audition Techniques for the Camera Credits: (3)

Performance Component Credits: 12

Choose any of the following for a total of 12 credits.

- TH 202 Performance Studio Credits: (1-3)
- TH 270 Stage Makeup Credits: (3)
- TH 302 Performance Application Credits: (3)
- TH 332 New Play Production Credits: (2)
- TH 345 Intermediate Acting II Credits: (3)
- TH 402 Performance Application Credits: (3)
- TH 429 Directing II **Credits:** (3)
- TH 444 Acting Styles Credits: (4)
- TH 490 Cooperative Education Credits: (1-12)

Total Musical Theatre Specialization Credits: 75

Total Credits: 110

## Theatre Arts, BFA - Performance Specialization

Theatre Arts BFA Core Requirements

### Theatre Major, BFA

The BFA program is designed to prepare knowledgeable, skilled graduates who will compete at all levels in an increasingly competitive field. Students will also learn to assess, explain, and interpret the many roles and responsibilities inherent in the world of the professional theatre artist. They will also understand how to use the skills they have developed in other career paths related to their degree.

The BFA theatre program is innovative and interdisciplinary. Students complete a sequence of core foundation courses, gain admission into the program through audition/interview, and focus in a single emphasis-performance, design and production, or musical theatre.

Interdisciplinary course work is integral to the structure and success of the BFA theatre program. All of the required and elective courses for the degree are part of other major programs and are regularly taught. Besides the theatre arts courses, 29 interdisciplinary courses are offered by two colleges from seven other CWU departments: art, communications, dance, English, physical education, family and consumer sciences, industrial engineering, and music.

Admission to the BFA is by audition/interview only. Auditions/interviews are held each spring quarter, in late-February for new students and in early-March for continuing BA candidates. Continuing BFA students will sign up for audition/interview appointments as part of the annual BFA juries.

BFA candidates must maintain a cumulative GPA of 3.0 in Theatre Arts with a minimum grade of "B-" (2.7) in each course within their specialization. The applicant must earn a minimum cumulative GPA of 2.0 in all other collegiate study. Meeting this standard is reviewed as part of the annual jury in each specialization.

Theatre BFA students are required to complete the general education requirements established by the university.

## BFA Core Requirements

- TH 107 Introduction to Theatre **Credits:** (4)
- TH 166 Theory of Play Production Credits: (3)
- TH 261 Costume Technology Credits: (3)
- TH 267 Scene Technology Credits: (3)
- TH 268 Lighting Technology Credits: (3)
- TH 363 Theatre History I Credits: (4)
- TH 364 Theatre History II Credits: (4)
- TH 365 Theatre History III Credits: (4)

## Lab Component - Credits: 4

Complete 4 credits of TH 393 or TH 493.

- TH 393 Theatre Laboratory Credits: (1)
- TH 493 Theatre Laboratory **Credits:** (1)

## Production Component - Credits: 3

Choose one of the following:

- TH 301 Production Application Credits: (3)
- TH 401 Production Application Credits: (3)

#### BFA Core Total Credits: 35

## Performance Specialization

The performance specialization builds specific skills in production from a strong foundation of using the body as the artist's instrument through acting styles, voice, and stage movement. Students choose from a range of courses, both introductory and advanced, from writing and dancing, to stage and screen.

To help students prepare for future employment or graduate school, all students are strongly encouraged to pursue practical experience through TH 490: Cooperative Education (Internship), as well as the production application courses, designed to put theory into practice as part of Central Theatre Ensemble's regular on-campus season.

## Required Courses

- TH 148 Actor Conditioning Monologue Credits: (1)
- TH 244 Basic Acting 1 Credits: (3)
- TH 245 Basic Acting II Credits: (3)
- TH 246 Basic Acting III Credits: (3)
- TH 248 Vocal Conditioning for the Actor **Credits:** (1) (may be repeated)
- TH 329 Directing I Credits: (3)
- TH 342 Dialects for Stage and Screen Credits: (3)
- TH 344 Intermediate Acting I Credits: (3)
- TH 345 Intermediate Acting II Credits: (3)
- TH 445 Audition Techniques for the Stage Credits: (3)
- TH 446 Audition Techniques for the Camera **Credits:** (3)
- TH 489 Career & Portfolio Preparation Credits: (3)
- TH 499 Seminar **Credits:** (1-5)

## Literature Component Credits: 8

Choose any of the following for a total of 8 credits.

- TH 375 Asian Drama Credits: (4)
- TH 377 Staging Gender Credits: (4)
- TH 382 Ethnic Drama Credits: (4)

## Performance Component Credits: 15

Choose any of the following for a total of 15 credits.

- TH 202 Performance Studio Credits: (1-3)
- TH 302 Performance Application Credits: (3)
- TH 402 Performance Application Credits: (3)

## Stage Movement Component Credits: 10

Choose any of the following for a total of 10 credits.

- PED 101 Modern Dance I Credits: (2)
- PED 102 Modern Dance II Credits: (2)
- PED 104 Ballet I (Level 1) Credits: (2)
- PED 121 Tap Dance I Credits: (1)
- PED 141 Jazz Dance I **Credits:** (1)
- PED 142 Jazz Dance II Credits: (1)
- PED 204 Ballet II (Level 1) Credits: (2)
- PEID 120 Beginning Fencing Credits: (1)
- PEID 121 Intermediate Fencing Credits: (1)
- PEID 145 Beginning Circus Arts **Credits:**(1)
- TH 312 Creative Dramatics in School and Leisure Credits: (3)
- TH 333 Stage Combat Fundamentals Credits: (3)
- TH 335 Movement for the Actor **Credits:** (3)
- TH 433 Advanced Stage Combat Credits: (3)
- TH 435 Advanced Movement for the Actor **Credits:** (3)

## Special Skills Component Credits: 7

Choose any of the following for a total of seven credits.

- COM 342 Broadcast News Producing and Reporting Credits: (4)
- MUS 164 Major Applied Area (Individual Instruction) Credits: (1-2)
- TH 202 Performance Studio Credits: (1-3)
- TH 243 Singing for Actors **Credits:** (1)
- TH 270 Stage Makeup Credits: (3)
- TH 302 Performance Application Credits: (3)
- TH 332 New Play Production Credits: (2)
- TH 374 Introduction to Acting for the Camera **Credits:** (3)
- TH 402 Performance Application Credits: (3)
- TH 433 Advanced Stage Combat Credits: (3)
- TH 435 Advanced Movement for the Actor **Credits:** (3)
- TH 444 Acting Styles **Credits:** (4)
- TH 474 Acting for Film and Television **Credits:** (4)
- TH 481 Kennedy-Center Festival **Credits:** (1-2)
- TH 490 Cooperative Education **Credits:** (1-12)
- TH 492 Practicum in Devising and Touring Theatre **Credits:** (3-12)

Total Performance Specialization Credits: 75

Total Credits: 110

## **Dance Performance Minor (TH)**

## **Program Director**

Therese Young

The dance performance minor is an interdisciplinary minor administered jointly by the dance and theatre arts faculty designed for students who wish to broaden their academic background and receive a well-rounded dance education, thus preparing them in the area of dance performance in a wide variety of settings. Students will develop competencies in choreography, rhythmic concepts, and dance production.

Requirement: Minimum of one year active membership in Orchesis Dance Company and PED 112.

Dance Performance Minor

## Required Courses

- PED 102 Modern Dance II Credits: (2)
- PED 103 Modern Dance III Credits: (2)
- PED 112 Dance Rehearsal and Performance Credits: (1)
- PED 142 Jazz Dance II **Credits:** (1)
- PED 143 Jazz Dance III Credits: (1)
- PED 161 Cultural History of Dance Credits: (4)
- PED 204 Ballet II (Level 1) Credits: (2)
- PED 205 Ballet II (Level 2) Credits: (2)
- PED 206 Ballet II (Level 3) Credits: (2)
- PED 211 Music for Dance Rhythms and Resources Credits: (2)
- PED 301 Choreography Credits: (3)
- PED 302 Dance Production Credits: (3) OR
- TH 301 Production Application Credits: (3)

Choose any of the following for a minimum of 10 credits:

- PED 116 Beginning Folk Dance Credits: (1)
- PED 121 Tap Dance I Credits: (1)
- PED 122 Tap Dance II Credits: (1)
- PED 135 Ballroom Dance I **Credits:** (1)
- PED 136 Ballroom Dance II **Credits:** (1)
- PED 138 Swing Dance I Credits: (1)
- PED 139 Swing Dance II Credits: (1)
- TH 252 Stage Dance Credits: (2)
- TH 353 Stage Properties Credits: (3)

Total Credits: 37

## Non-profit Organization Administration Minor (TH)

The minor in non-profit organization administration is an interdisciplinary minor designed to provide an understanding of the organization, financing and management issues in non-profit organizations. It is designed to complement majors in artistic, advocacy and educational endeavors. The minor provides practical, hands-on skills as well as discussion of the issues facing non-profit organizations.

Non-profit Organization Administration Minor

Required Courses: Credits (13)

- ACCT 301 Financial Accounting Analysis **Credits:** (5)
- COM 312 Introduction to Non-Profit Leadership Credits: (4)
- COM 427 Grant Writing and Fundraising Credits: (4)

Select 12 credits from the following electives:

• ANTH 360 - Introduction to Museum Studies Credits: (4)

- ANTH 361 Museum Exhibit Design Credits: (4)
- COM 208 Introduction to Public Relations Writing Credits: (4)
- COM 270 Introduction to Public Relations Credits: (4)
- COM 315 Studies in Communication Credits: (1)
- COM 348 Publication Design Credits: (4)
- COM 362 Mediation and Conflict Resolution Credits: (4)
- COM 365 Organizational Communication Credits: (4)
- COM 370 Writing for Public Relations **Credits:** (4)
- COM 371 Event Planning and Management Credits: (4)
- COM 375 Interviewing Principles and Techniques Credits: (4)
- COM 487 Advanced Public Relations Seminar Credits: (4)
- COM 492 Communication Practicum Credits: (2)
- TH 350 Theatre Management Credits: (3)
- TH 351 Theatre Management Credits: (3)
- TH 360 Stage Management Credits: (3)

Choose one from the following: Credits (5)

- ANTH 490 Cooperative Education **Credits:** (1-12)
- ART 490 Cooperative Education Credits: (1-12)
- COM 490 Cooperative Education Credits: (1-12)
- MUS 490 Cooperative Education Credits: (1-12)
- TH 490 Cooperative Education Credits: (1-12)

Total Credits: 30

## **Theatre Arts Minor**

The theatre arts minor offers an opportunity for students to study theatre while pursuing a degree in another discipline. This minor is often added to enhance study in art, music, politics, and interior design, among others.

## Required Core

- TH 107 Introduction to Theatre **Credits:** (4)
- TH 144 Foundations of Acting Credits: (3)
- TH 166 Theory of Play Production Credits: (3)

Select 3 credits of production participation from the following - Credits (3)

- TH 201 Dance Production Application Credits: (1-3)
- TH 202 Performance Studio Credits: (1-3)
- TH 301 Production Application Credits: (3)
- TH 302 Performance Application Credits: (3)
- TH 303 Management Application Credits: (3)
- TH 332 New Play Production Credits: (2)
- TH 393 Theatre Laboratory **Credits:** (1)
- TH 401 Production Application Credits: (3)
- TH 402 Performance Application Credits: (3)
- TH 403 Management Application Credits: (3)
- TH 493 Theatre Laboratory **Credits:** (1)

Theatre Electives as approved by advisor Credits: (17)

Total Credits: 30

#### **Theatre Arts Courses**

- TH 101. Appreciation of Theatre and Film (4). Viewing, discussing, and comparing film and live theatre performance. AH-Aesthetic Experience
- TH 107. Introduction to Theatre
  (4). Overview of the basic
  elements of the theatre arts and
  dramatic structure, and the
  environment for production of
  plays. Attendance at assigned
  outside events is required. AHAesthetic Experience (W)
- TH 140. Introduction to Theatre Design (3). An introduction to the basic elements of design used to create unified scenery, costume, lighting, makeup, and sound designs with an emphasis in research and conceptualization.
- TH 143. Private Voice Lessons (1-4). Individual vocal instruction in the musical theatre style. May be repeated for credit. Grade will either be S or U. By permission.
- TH 144. Foundations of Acting (3). Introduction to the theory and practice of acting craft, development of the actor's tools, basic acting techniques, including pantomime, vocal conditioning, improvisation, and scene study.
- TH 148. Actor Conditioning Monologue (1). Theory, technique, and practice of the acting craft with emphasis on choosing, analyzing, researching, and preparing monologues for audition and performance. Prerequisite: TH 244. May be repeated for credit. Grade will either be S or U.
- TH 166. Theory of Play Production
  (3). Theories of production are
  explored through basic script
  analysis and the examination of
  protocol and procedures in the
  resident production company
  and a variety of world theatre
  models.
- TH 201. Dance Production
  Application (1-3). Skills learned in the classroom are applied to dance production work for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 12 credits.
- **TH 202. Performance Studio** (1-3). Skills learned in the classroom are applied to performance in

- studio work, which may be presented publicly. May be repeated up to 24 credits.
- TH 207. Introduction to Children's Drama (3). History, literature, and aesthetics of children's drama techniques in the United States and throughout the world.
- TH 215. Music Fundamentals for Musical Theatre I (3). Basic music terminology, fundamentals of notation, scales, and the study of basic rhythms. Ear training, interval singing, and melodic dictation. Prerequisite: 1 credit of MUS 154A.
- TH 216. Music Fundamentals for Musical Theatre II (3). Study of major and minor scales, major and minor key signatures, major and perfect intervals, and continued study of rhythms. Interval and melodic singing, melodic dictation, and beginning of singing in counterpoint. Prerequisites: 2 credits of MUS 154A and TH 215.
- TH 217. Music Fundamentals for Musical Theatre III (3). Study of diminished, half diminished, and augmented intervals and scales, basic conducting patterns, exploration of lead sheets, and modern chord notation.

  Continuation of interval, melodic, and counterpoint singing, as well as sight singing and the reading of rhythmic patterns.

  Prerequisites: 3 credits of MUS 154A and TH 216.
- TH 243. Singing for Actors (1). An introduction to the mechanics of singing as applied to presentations of theatrical show music. May be repeated for up to 9 credits.
- TH 244. Basic Acting 1 (3). Theory and practice of essentials of acting craft-development of the actor's tools, the voice, body, and imagination. Introduction to Satnislavski method, with viewpoints and composition.
- TH 245. Basic Acting II (3). Theory and practic of essential acting craft—development of the actor's tools, the voice, body, and imagination. Physical theatre techniques, improvisation, scene study. Prerequisite: TH 244.

- TH 246. Basic Acting III (3). Theory and practice of essential acting craft—development of the actor's tools, the voice, body, and imagination. Concentration on physical theatre techniques, scene study, and text analysis.

  Prerequisite: TH 245.
- TH 248. Vocal Conditioning for the Actor (1). Study and application of the techniques used in the development of the actor's foundational vocal conditioning. Co-requisites: TH 245 and TH 246. May be repeated for credit. Grade will either be S
- TH 252. Stage Dance (2). Study and directed practice of individual and group dance in modern musicals and operas. May be repeated up to 8 credits.
- TH 261. Costume Technology (3).

  Basic theory and study of costume construction and fabrication for the theatre.

  Emphasis on terminology, safe operating procedures of sewing machinery, basic stitches, and fabric identification. Participation in production work is required. Prerequisite: admission to the theatre major or apparel design minor.
- TH 266. Theatre Drafting (3).

  Supervised study and practice of drafting theatrical sets, properties, and light plots.

  Prerequisite: admission to the theatre major.
- TH 267. Scene Technology (3).
  Scene construction, rigging,
  painting, and shifting techniques.
  Participation in production work
  is required. Prerequisite:
  admission to the theatre major.
- TH 268. Lighting Technology (3). Participation in production work is required. Applied study of lighting instruments, lighting accessories, hanging, cabling, focusing, lighting control systems, safety, and maintenance. Participation in production work is required. Prerequisite: admission to the theatre arts or film and video studies major.
- **TH 270. Stage Makeup** (3). The history, functions, materials, and techniques of makeup as a theatrical art. Prerequisite: TH

166. Production application required.

TH 290. Cooperative Education
Portfolio (1-6). A collection of individualized contracted field experiences with the industry.
This contractual arrangement involves a student learning plan, with a cooperating employer, under faculty coordination, that must be completed prior to the first experience to be included in the portfolio. May be repeated up to 6 credits. Grade will either be S or U. By permission.

TH 295. Theatre Education
Portfolio (1). Live Text portfolio
will be employed to build
professional portfolios,
documenting theatre training,
and compliance with state
certification and NCATE
standards. May be repeated for
credit. Grade will either be S or
U.

## TH 298. Special Topics (1-6). TH 300. Rehearsal and

**Performance** (1-2). Open only to non-majors participating in theatre arts productions. Does not satisfy any requirement for the major. Course meets with appropriate application course and instructor. May be repeated for credit.

## TH 301. Production Application

(3). Skills learned in the classroom are applied to production work for public presentation. Different sections will be offered for participants in each area of the production team. Prerequisite: admitted to the theatre arts major or dance performance minor. May be repeated up to 18 credits.

## TH 302. Performance Application

(3). Skills learned in the classroom are applied to performance work on productions for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 18 credits.

## TH 303. Management Application

(3). Skills learned in the classroom are applied to stage management work on productions for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 18 credits.

TH 312. Creative Dramatics in School and Leisure (3). Theory and practice of dramatic improvisation as a stimulus for learning and creative recreation. Focus on exploratory drama for language acquisition and social interaction.

## TH 313. Writing for Children's

**Theatre** (3). Prerequisites: TH 166 and TH 207, or admission to the english writing specialization.

## **TH 329. Directing I** (3).

Participation in and direction of fundamentals of applied directing. Prerequisites: TH 144 and TH 244 or permission from the instructor.

## TH 330. Introduction to

Playwriting (4). Fundamentals and practice in dramatic writing techniques and styles.

Prerequisites: TH 107 and TH 166, or admission to the English writing specialization. May be repeated up to 8 credits.

## TH 332. New Play Production (2).

An exploration of the problems and techniques specific to the production of original, student-written plays. Participation in public performances of new plays, including weekend and evening activities is required. May be repeated for credit.

## TH 333. Stage Combat

Fundamentals (3). The study and practice of basic skills, techniques, and safety factors used in staging and performing violence for the stage and media. Focus is on falls, rolls, and unarmed combat. May include use of one historical weapon. Prerequisites: TH 144 or TH 244.

## TH 335. Movement for the Actor

(3). The study and practice of various movement disciplines, such as Laban, Suziki, Feldenkrais, Chekhov, Lessac, or Alexander, to enhance flexibility and expressiveness of the actor's body in a variety of performance applications. Prerequisites: TH 144 or TH 244. May be repeated if content or title changes for up to 9 credits.

## TH 342. Dialects for Stage and

Screen (3). Dialect acquisition for use in stage and on-camera work. Dialects studied will include a range of material from British Standard, Cockney, New York, Irish, Scottish, and Southern, and will feature the implementation of phonetics and a proficient use of the vocal instrument. May be repeated if title changes.

Prerequisite: TH 246. May be repeated up to 6 credits if topic changes.

## TH 343. Singing for Actors II (1).

An introduction to the mechanics of singing as applied to presentations of theatrical show music. Prerequisite: TH 243. May be repeated up to 9 credits.

## TH 344. Intermediate Acting I (3).

Character interpretation and scene study through script analysis and scene work.
Prerequisite: TH 246. TH 344 and TH 345 to be taken in sequence.

## TH 345. Intermediate Acting II (3).

Character interpretation and scene study through script analysis and scene work. Courses are to be taken in sequence. Prerequisite: TH 344.

## TH 350. Theatre Management (3).

Courses are to be taken in sequence. Policy and practice of theatre administration including budgets, contracts, box office, purchasing, staffing, marketing, and audience development.

Prerequisites: TH 107 and TH 166.

## TH 351. Theatre Management (3).

Courses are to be taken in sequence. Policy and practice of theatre administration including budgets, contracts, box office, purchasing, staffing, marketing, and audience development.

Prerequisites: TH 107 and TH

## **TH 352. Stage Dance II** (3).

Advanced study and directed practice of individual and group dance in modern musicals. Prerequisites: TH 252 and permission of the instructor. May be repeated up to 12 credits.

## TH 353. Stage Properties (3).

Research, methodology, design, and construction of stage props and furniture. Prerequisite: TH 267.

**TH 354. Scene Painting** (3). Study in the methodology and skills of scene painting, materials, and techniques.

## **TH 356. Stage Sound** (3).

Engineering and operation of the technologies for theatrical sound. Prerequisite: TH 166.

## TH 360. Stage Management (3).

Techniques, communication methodology, resources, practices, and technical training for the stage manager. Prerequisite: TH 166.

## TH 361. Stage Costuming (3).

Further study of construction and fabrication for the stage.
Emphasis on patterning, dyeing, and distressing costumes for the stage. Prerequisite: TH 261.

## TH 362. Costume Crafts (3).

Advanced study in fabric manipulation and the construction of costume crafts, and properties. Special focus on advanced dying techniques, fabric painting, distressing, millinery, jewelry, manipulation, and body padding. Prerequisite: TH 261.

**TH 363. Theatre History I** (4). From origins to the Elizabethan Era. Prerequisite: TH 107.

## TH 364. Theatre History II (4).

From the Elizabethan period to Ibsen. Prerequisite: TH 107.

## TH 365. Theatre History III (4).

From Ibsen to the present. Prerequisite: TH 107.

## TH 366. Theatre Rendering (3).

Exploration and application of various rendering styles and media for theatrical applications.

## TH 367. Stage Scenery (3).

Introduction to technical direction and auditorium management. Advanced stage scenery construction techniques are studied and applied. Prerequisite: TH 267.

TH 368. Stage Lighting (3). Study of electricity, color, distribution, drafting, lighting paperwork, and light programming. Prerequisites: TH 266 and TH 268.

# TH 374. Introduction to Acting for the Camera (3). Introduction to the study and technique of acting for the camera. Topics may include the following; feature flim, motion capture for animation and media, scenes and monologues on camera.

**TH 375. Asian Drama** (4). Survey of the traditional theatre, puppetry,

Prerequisite: TH 344.

and dance-drama forms of Asia. Historical development. Cultural and aesthetic aspects of the text in performance. Influence on contemporary world theatre. Prerequisite: sophomore standing or above. By permission. AH-Aesthetic Experience (W)

## TH 377. Staging Gender (4).

Concepts of gender and their historical development are examined through analysis of dramatic literature, films, and contemporary performance culture. Prerequisite: sophomore standing or above.

## TH 380. Studies in Drama (5).

Intensive study of representative examples of drama. Prerequisites: ENG 302 and ENG 303, and admissions to the theatre arts major. May be repeated up to 15 credits.

TH 382. Ethnic Drama (4). Study of contemporary American multicultural plays by people of color and other ethnic groups.

Prerequisite: sophomore standing or above. AH-Aesthetic Experience (W)

TH 384. Puppetry (3). Survey of puppetry principles and their application to the classroom, recreational facility, and theatre. Production techniques. Analysis of literature adaptable to theatre form. Prerequisite: TH 166.

## TH 393. Theatre Laboratory (1).

Practical experience in all aspects of theatre production to better prepare for career opportunities. May be repeated up to 3 credits.

## TH 398. Special Topics (1-6).

## TH 400. Rehearsal and

Performance (1-2). Open only to non-majors participating in theatre arts productions. Does not satisfy any requirement for the major. Course meets with appropriate application course and instructor. May be repeated for credit.

## **TH 401. Production Application**

(3). Skills learned in the classroom are applied to production work for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 18 credits.

**TH 402. Performance Application** (3). Skills learned in the classroom are applied to acting

work on productions for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 18 credits.

## TH 403. Management Application

(3). Skills learned in the classroom are applied to stage management work on productions for public presentation. Prerequisite: admission to the theatre major. May be repeated up to 18 credits.

# TH 415. Musical Theatre History and Literature I (3). The history

of musical theatre from the inception of this uniquely American art form through the innovations of Oklahoma! The contributions of major lyricists, composers, directors, designers, performers, and choreographers, and an analysis of the works themselves, exploring the sociological relationships, ramifications, and cultural influences of the art form. Prerequisite: TH 365.

## TH 416. Musical Theatre History and Literature II (3). The history

of musical theatre from
Oklahoma! to the inception of the
rock musicals in the 1960s. The
contributions of major lyricists,
composers, directors, designers,
performers, and choreographers,
and an analysis of the works
themselves, exploring the
sociological relationships,
ramifications, and cultural
influences of the art form.
Prerequisite: TH 415.

## TH 417. Musical Theatre History

and Literature III (3). The history of musical theatre from the rock musicals of the 1960s to the present. The contributions of major lyricists, composers, directors, designers, performers, and choreographers, and an analysis of the works themselves, exploring the sociological relationships, ramifications, and cultural influences of the art form.

## **TH 420. Drama in Schools 1** (3).

Practicum experience in planning, creating, teaching and assessing drama lessons for diverse populations. Prerequisites: TH 144 and TH 166, and current WSP/ FBI fingerprint clearance.

## TH 421. Drama in Schools 2 (3).

Practicum in play production, curriculum development, traditions, and trends in the application of drama education in the K-12 classroom. Prerequisite: TH 420.

TH 429. Directing II (3). Script study emphasizing the specific artistic and logistical preparation involved in directing a play. Culminates in directing selected scenes. Prerequisite: TH 329.

## TH 430. Script Writers Workshop

(4). Fundamentals and practice in writing full-length dramatic scripts from concept to working draft, in a variety of areas such as: musical theatre libretto, radio plays, reader's theatre, and stage plays from films. Prerequisites: TH 107 and TH 166, or admission to either the english writing or film and video studies major.

## TH 433. Advanced Stage Combat

(3). The study and practice of advanced skills, techniques, and safety factors used in staging and performing armed combat for the stage and media. Focus is on historical weaponry such as a single sword, rapier, and dagger, broadsword, and small sword. Prerequisite: TH 333. May be repeated for credit.

TH 435. Advanced Movement for the Actor (3). Advanced study in movement disciplines such as; Alexander, Fekdenkrais, Suzuki, or Rasaboxes. Prerequisite: TH 335. Repeatable if course content changes. May be repeated up to 6 credits.

## TH 440. Advance Design Problems

(3). Conceptualization, design, and application of advanced design techniques and theories through paper project or executed on mainstage productions in one of four areas: scenery, lighting, sound, or costumes. May be repeated for credit.

# TH 443. Singing for Actors III (1). Advanced study of the mechanics of singing as applied to presentation of theatrical show music. Prerequisite: 3 credits of TH 343. May be repeated up to 9

**TH 444.** Acting Styles (4). Performance skills applied to

credits.

heightened texts and stylized comedy including Shakespeare, Wilde, Coward, and other major playwrights. Prerequisite: TH 344. May be repeated up to 8 credits if content differs.

TH 445. Audition Techniques for the Stage (3). Exploration and practice of advanced techniques and materials required for professional stage auditions. Prerequisite: TH 345.

TH 446. Audition Techniques for the Camera (3). Exploration and practice of advanced techniques for professional camera auditions. Emphasis on auditions for commercials and preparing cold readings for on-camera auditions. Prerequisite: TH 445.

## TH 452. History of Fashion (4).

Historical changes in fashion and costume design from Egyptian period through eastern civilization to present. Social, political, and religious influences on fashions. FCSA 452 and TH 452 are cross-listed courses; students may not receive credit for both.

TH 456. Sound Design (4). Basic principles of sound design for theatre. The role of the sound designer in planning and developing a design with attention to research, cueing, the creation of media in supporting the production concept. Prerequisite: TH 140 or permission of instructor.

## **TH 460. Production Management**

(4). This course explores production management theory and practice, covering production estimating and budgeting, scheduling, and working with entertainment union contracts. Students will develop organization and communication skills specific to the duties of the production manager.

Prerequisites: TH 166 and TH

TH 461. Costume Design (4). Basic principles of design related to theatrical costumes. The role of the costume designer in planning and developing a sketch from the initial reading of the script through production, research, production meetings, and rendering technique.

Prerequisites: either TH 361, both FCSA 388 and TH 366, or admission to the apparel design minor.

TH 464. Wig Creation, Styling, and Maintenance (3). The study and practice of creating, styling, and maintaining wigs for stage.

TH 465. Costume and Fashion
Drawing (3). Sketching design ideas for theatrical costumes and street clothing in three-dimensional form with textural effects and color to present a realistic appearance on paper.

**TH 467. Scene Design** (4). Study, research, practice, and applied use of scenic design techniques and theory. Prerequisites: TH 266 and TH 340 and TH 366.

TH 468. Lighting Design (4). Basic principles of design related to lighting design for the theatre. This class examines the role of the lighting designer from initial reading of the script through production, research, production meetings, and creation of the light plot. Prerequisite: TH 366 and TH 368.

TH 474. Acting for Film and Television (4). Exploration and practice of advanced techniques in the acting of scenes for film and television. Topics may include; soap opera, feature film, and television sitcom techniques. Prerequisite: TH 374. May be repeated for credit if content changes.

TH 481. Kennedy-Center Festival (1-2). Participation in the annual Kennedy Center American College Theatre Festival and/ or the Northwest Drama Conference. Prerequisite: admission to the theatre arts major or minor. May be repeated for credit. Grade will either be S or U.

TH 487. Theatre Pedagogy (4).

Student will be given individualized instruction in teaching practices and will participate in journal writing, critiquing, counseling, coaching, advising, leading discussion, and grading. TH 487 and TH 587 are equivalent courses; students may not receive credit for both. May be repeated up to 8 credits.

#### TH 488. Introduction to

**Dramaturgy** (3). An introduction to research applied to production including author, world of the play, and the socio-political influences surrounding the text and its time.

## TH 489. Career & Portfolio

Preparation (3). Techniques and practice in preparation of professional portfolio, resumes, and letters of application for employment in the entertainment industry. Prerequisites: admission to the theatre arts major and junior standing or above.

# **TH 490.** Cooperative Education (1-12). An individualized contracted field experience with business.

industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

## **TH 491. Workshop** (1-6).

## TH 492. Practicum in Devising and Touring Theatre (3-12).

Advanced study in ensemble devised theatre, techniques and practice in the production thereof, and practicum in touring such pieces to fringe festivals, and other alternate and/or educational venues. Permission of instructor. Prerequisite:

current WSP/ FBI fingerprint clearance. May be repeated up to 12 credits.

## **TH 493.** Theatre Laboratory (1).

Practical experience in all aspects of theatre production to better prepare for career opportunities. May be repeated up to 3 credits.

## TH 495. Senior Research Project

(3). Senior students shall present a research paper in a major area of interest. Prerequisite: admission to the theatre arts major. May be repeated for credit.

**TH 496. Individual Study** (1-6). **TH 498. Special Topics** (1-6). **TH 499. Seminar** (1-5).

## **University and Enrichment Program**

## **Undergraduate Studies**

## First Area-Skill Building

The first area includes the UNIV 101, 102, and 103 courses. These courses are ancillary courses that enable students to build skills needed to succeed at CWU. These courses allow students to learn about the General Education program, graduation requirements, develop skills for academic and social success, learn about major and minor programs, and how to approach developing an appropriate career. UNIV 101 is a required course for all students who have 39 or fewer transfer credits.

### Second Area-Skill Exploration and Enrichment

The second area is the enrichment program, which includes UNIV 297, 497, and 597. These courses are designed to encourage student exploration and intellectual enrichment and are only offered during summer quarter. Enrichment courses are not intended to substitute for either general education requirements or major or minor requirements. These courses are a part of a student's enrollment planning-specifically as free electives. Only eight enrichment course credits can be counted toward a student's elective degree requirements.

## Third Area-Skill Practice and Engagement

The third area is the civic engagement program, which includes UNIV 109, 295, 308, and 309. These courses are designed to help students explore and engage in career interests while meeting community needs.

## **University Courses**

## UNIV 101. Academic Advising

Seminar (1). This course is designed for students to learn about the mission of the general education program and majors in order to make informed academic decisions and discover opportunities for personal growth. Basic Skills 1- GenEd Colloq

## **UNIV 102. Strategies for College**

**Success** (2). Course will teach essential study skills for succeeding in and graduating from college. Students will learn

how to develop habits that lead to academic success.

## UNIV 103. Career Exploration (2).

Designed to assist students in researching and assessing their career goals through classroom coursework and career-related interest and personality inventories.

## UNIV 109. Introduction to Civic

**Engagement** (2). The student will use civic engagement to identify and explore career interests and meet community needs. May be repeated for credit.

## UNIV 201. Tutoring Strategies (1).

Principles of individualized instruction for student paraprofessional tutors. Structuring tutorials, fundamental learning strategies, assessment strategies, communication skills, and integration of content mastery/ learning skills. Prerequisite: at least 40 college level credits. Grade will be S or U.

# UNIV 295. Introduction to Undergraduate Research (2).

This class will prepare students

to conduct faculty mentored research and creative expression projects. By permission.

## UNIV 297. Enrichment Course (1).

Enrichment course on various topics for freshmen and sophomores to broaden their interest areas. May be repeated for credit.

## UNIV 301. Career Management (2).

Identify work suited to interests, personality, goals, and values. Maximize ability to obtain work in chosen field, manage career moves tomaintain interest and growth through economic

changes and life stages while minimizing economic dislocation.

## UNIV 308. Civic Engagement

Theory and Application (4). Student combines civic engagement theory and diversity sensitivity with real-world situations and major content to design and conduct a community project.

## UNIV 309. Civic Engagement (2).

Student will use program of study content knowledge to improve a community situation. May be repeated up to 12 credits. Grade will either be S or U.

## UNIV 497. Enrichment Course (1).

An enrichment course on varying topics for upper-division students to explore more deeply issues of academic interest. May be repeated for credit. Grade will either be S or U.

#### UNIV 597. Enrichment Course (1).

An enrichment course on varying topics for graduate students to explore more deeply issues in their areas of academic focus.

May be repeated for credit. Grade will either be S or U.

## Women's and Gender Studies Program

College of the Sciences Ellensburg Language and Literature Bldg., room 318 509-963-2488 Fax 509-963-1822

www.cwu.edu/women-gender

See the website for how this program may be used for educational and career purposes.

#### Director

Cynthia D. Coe, PhD

## **Program Information**

Women's and gender studies cultivates a critical awareness of the contributions of women and the impact of gender in our lives, both historically and in the contemporary world. Our interdisciplinary scope includes examining these issues from the perspective of politics, anthropology, sociology, psychology, history, philosophy, art, and literature. The objectives of the program are:

- 1. To explore existing knowledge about women and gender in a variety of disciplines
- 2. To critically assess the traditional disciplines in the light of new data concerning women and gender
- 3. To provide an academic foundation for students planning careers in women's studies or related fields
- 4. To promote research about women and gender within existing disciplines

Women's and gender studies offers an interdisciplinary minor as described below. With approval of the women's and gender studies director, the student will select appropriate electives to meet personal and professional goals.

With faculty advisement, interested students may construct individualized majors in women's and gender studies through the individual studies program for BA or BS major.

## Women's and Gender Studies Minor

Required Courses

- WGS 201 Introduction to Women's and Gender Studies Credits: (5)
- WGS 488 Colloquium Credits: (2)

Elective courses (select 18 credits, with no more than 10 credits in a single department): Credits: 18

- ANTH 356 Gender Roles in Cross-cultural Perspective Credits: (4)
- ANTH 384 Language and Gender Credits: (4)
- COM 402 Gender Communication Credits: (4)
- ENG 335 Women's Literature Credits: (5)
- HIST 346 Women in American History Credits: (5)
- HIST 352 The History of the American Family **Credits:** (3)

- HIST 449 History of Women and the West **Credits:** (5)
- LAJ 403 Sexual Minorities, the Law, and Justice Credits: (4)
- LAJ 453 Domestic Violence Issues **Credits:** (4)
- PHIL 325 Women and Philosophy Credits: (5)
- PHIL 357 Race, Class, and Gender: Philosophical Perspectives Credits: (5)
- POSC 311 Women and Politics Credits: (5)
- PSY 312 Queer Theory and Sexuality Credits: (4)
- PSY 483 Psychology of Gender Credits: (4)
- SOC 348 Women and Crime Credits: (5)
- SOC 356 Sociology of Gender Credits: (5)
- SOC 357 Sociology of Families **Credits:** (5)
- TH 377 Staging Gender Credits: (4)

Total Credits: 25

# Women's and Gender Studies Courses WGS 201. Introduction to

## Women's and Gender Studies

(5). A survey of women's and gender studies from an interdisciplinary perspective. Basic terms, concepts, theories, and research methodologies will be introduced. Gender related issues will be examined from the historical, cross-cultural and cross-national perspectives. This is a General Education Writing course. SB-Perspectives on U.S.

## WGS 384. Language and Gender

(4). This course is designed to guide students to explore the

active and rapidly expanding field of gender studies and language research dealing with how biological and cultural awareness of sexes are reflected in speech. WS 384 and ANTH 384 are cross-listed courses; students may not receive credit for both.

## WGS 398. Special Topics (1-6).

WGS 488. Colloquium (2). This course serves as the culminating experience for the women studies minor. Students will write a five-page paper that synthesizes the major approaches and ideas they have encountered in their coursework for the minor.

## WGS 490. Cooperative Education

(1-12). An individualized contracted field experience with business, industry, government, or social service agencies. This contractual arrangement involves a student learning plan, cooperating employer supervision, and faculty coordination. May be repeated for credit. Grade will either be S or U. By permission.

WGS 491. Workshop (1-6). WGS 496. Individual Study (1-6). WGS 498. Special Topics (1-6). WGS 499. Seminar (1-5).

## **Family Educational Rights**

Notice to Students of Privacy Rights

The Family Educational Rights and Privacy Act (FERPA) of 1974 is a federal law governing access to student education records. FERPA stipulates conditions for release of information from education records and affords students the opportunity to review and seek revision of those records. In addition, the federal law states: (a) that a written institutional policy must be established; and (b) that a statement of adopted procedures covering the privacy rights of students must be made available. The law provides that the institution will maintain the confidentiality of student education records. Central Washington University (CWU) accords all the rights provided by the law, and reserves for itself the right to use and release student education records under the conditions specified by the law.

For the complete policy, please see policy # CWUP 2-20-070 at: www.cwu.edu/resources-reports/cwup-2-20-070-student-records-family-educational-rights-and-privacy-act-ferpa.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## Academic Appeal Procedures CWUP 5-90-010(3)

For the complete procedures, please go to: www.cwu.edu/resources-reports/cwup-5-90-0103-academic-appeal-procedures.

## I. Academic Appeals

(Complete policy available in the Office of the Dean of Student Success.)

- A. Academic grievances are defined as the following:
  - 1. A claim by the student that an assigned grade is the result of arbitrary or capricious application of otherwise valid standards of academic evaluation; or
  - 2. A claim by the student that the standards for evaluation are arbitrary or capricious; or
  - 3. A claim by the student that the instructor has taken an arbitrary or capricious action which adversely affects the student's academic progress; or
  - 4. A claim by the student that a University department, program, or office has made a decision not in keeping with University policy or taken an arbitrary, capricious, or discriminatory action which adversely affects the student's academic progress.
- B. A student wishing to pursue an academic grievance must take the following steps to try to resolve the grievance prior to the filing of an official academic appeal:
  - 1. The student shall first attempt to resolve the matter with the instructor;
  - 2. If resolution is not achieved between the student and instructor, the student shall ask the department chair to resolve the grievance;
  - 3. If resolution is not achieved at the department chair level, the chair shall forward a written summary to the dean of the school or college in a further effort to achieve resolution;
  - 4. If resolution is not achieved at this point, the student may petition for a hearing before the Board of Academic Appeals. (An appointment should be made to meet with the Associate Dean of Student Living or the Assistant of the Dean of Student Success to obtain the necessary forms and information relative to filing the petition.)

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## Alcohol and Drug Policy CWUP 2-40-030

A complete policy is available in the office of the Dean of Student Success or go to: www.cwu.edu/resources-reports/cwup-2-40-030-alcohol-and-other-drugs.

(1) General Alcohol and Other Drug Statement - Any violations, on or off campus, of state or federal law regarding alcohol or other drugs by students, staff, or faculty are grounds for disciplinary action. Furthermore, according to the Student Conduct Code, students may be subject to disciplinary action for any action that violates state or federal law including but not limited to:

Minor in possession Minor in consumption Open container violations Driving while intoxicated
Possessing or consuming alcohol in an alcohol free residence hall
Providing alcohol to a minor
Possession or sale of any narcotic or drug paraphernalia
Selling alcohol without a license
Misrepresenting ones age to gain access to alcohol

Students violating any state or federal law will result in immediate referral to the office of the Dean of Student Success or designee for disciplinary action. Disciplinary action will range from a counseling session to expulsion, depending on the severity and number of violations.

- (2) **Policies and Procedures** The purpose of this section is to briefly summarize the key points of the university policy regarding the distribution, possession, and use of alcohol and other drugs. In order to comply with the requirements of the Drug-Free Schools and Communities Act and the Drug-Free Workplace Act, a complete description of the relevant laws, procedures, sanctions, and prevention information is provided in the addenda that follow this summary.
- (A) **Legal Issues** The university's policy regarding the possession and consumption of alcohol and other drugs on campus has been developed in keeping with Washington State law and the Governor's policy on alcoholism and drug dependency. Washington State laws are described in the Revised Code of Washington and the Washington Administrative Code. Members of the University community may review these documents at the University library. State laws regulate behavior such as the consumption of alcohol in public places, the furnishing of liquor to minors, the illegal purchase of alcohol, and the distribution of controlled substances, to name a few. A brief description of applicable local, and state, and federal laws is provided in CWUR 4-20-005.6. The university policy assumes that individuals of the University community have read, understood, and agree to abide by these local, state, and federal laws.
- (B) **Proscribed Student Conduct** According to the Washington Administrative Code (WAC 106-120-027), a student shall be subject to disciplinary action or sanction upon violation of any of the following conduct proscriptions:
  - 1. Possession, use, or distribution of any controlled substance as defined by the laws of the United States or the State of Washington except as expressly permitted by law.
  - 2. Violation of the university policy on alcoholic beverages that states:
    - (a) Persons 21 years of age or older may possess and/ or consume alcoholic beverages within the privacy of certain designated 21 or older residence hall rooms or apartments. Washington State law provides severe penalties for the possession or consumption of alcoholic beverages by persons under 21 years of age and for persons who furnish alcoholic beverages to minors. All university students and staff should be aware of these laws and the possible consequences of violations.
    - (b) The University does not condone the consumption of alcoholic beverages by minors at functions sponsored by Central Washington University organizations on or off campus. Organizations and advisors are held responsible for monitoring the conduct of their members at functions sponsored by the organization and for failure to comply with Washington state law and university policies.
    - (c) The Dean of Student Success or designee may place on probation any organization or prohibit a specific campus social function when the consumption of alcoholic beverages has become a problem of concern to the university.
- 3. Violation of clearly stated proscriptions in any published rule or regulation promulgated by any official campus committee, commission or council acting within the scope of its authority.
- 4. Violation on or off campus of any state or federal law. Official university action will be taken when violations of state law or university policy regarding alcohol and other illicit drug use occur. Repeated violations usually carry more significant consequences. The office of the Dean of Student Success may include in the sanction-mandated contact with the university drug and alcohol prevention specialist (the Director, Wildcat Wellness Center) and/or direct referral for assessment through a state licensed treatment agency. Please refer to CWUR 4-20-005.4 for licensed agencies in Kittitas County. If alcohol or other drug abuse is a related factor in the violation of other proscribed conduct, the same mandate may be considered appropriate. Official university sanctions range from "warning" to "expulsion" and are described in detail in CWUR 4-20-005.1.

(C) **Proscribed Employee Conduct** - As a condition of employment at the university, all employees will abide by the terms of the Drug Free Workplace Act of 1988 that prohibits the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in the university workplace. This Act also requires that employees notify their supervisor of any crimin al drug statute conviction for a violation occurring in the workplace no later than five days after the conviction.

In addition, university employees (i.e., faculty, staff, administrators, and student employees) are obligated to work effectively and cooperatively in their positions. Responsibility to improve substandard performance or to correct unacceptable work behavior rests with the individual employee, regardless of the underlying causative factors or circumstances that may be present. While alcoholism and/or other drug dependencies may be among the factors contributing to an employee's job performance problems, it remains the responsibility of the individual employee to seek appropriate treatment. Failure to correct unsatisfactory job performance or behavior, for whatever reason, will result in appropriate disciplinary action, up to and including termination of employment.

University employees are expected to be familiar with the University policies or codes that pertain to their employment on campus. Policies concerning the behavior of exempt and faculty employees are contained in the following sources: The Exempt Employees' Code, faculty contract, and/ or the Faculty Code. Faculty members should be aware that the Alcohol and Other Drug Policy is an official university policy; as such, violations of this policy are subject to the sanctions described in Sections 10.20 and 10.25 of the Faculty Code or the applicable collective bargaining agreement. Sanctions for the willful violation by civil service employees of published institutional regulations are included in WAC 357-40 or the applicable collective bargaining agreement. Exempt personnel are referred to the Exempt Employees' Code for sanctions resulting from the willful violation of published institutional guidelines.

The Wildcat Wellness Center (WWC) is the primary campus location for alcohol and other drug education, prevention and counseling. Both students and staff are encouraged to contact the WWC (963-3213) for more detailed information.

(D) Employee Education and Referral for Alcohol and other Drug Issues - Alcoholism and drug dependency are defined as illnesses that may interfere with an employee's ability to perform assigned work satisfactorily or that adversely affect job behavior. Employees are encouraged to voluntarily seek expert assistance for alcoholism, alcohol abuse, drug dependency, or any other job-impairing personal problem. Assistance is available through a variety of professional resources on campus and in the community. Questions regarding medical insurance coverage for professional services should be referred to the employee's medical plan provider. For more information about the confidential employee assistance program, contact eap @cwu.edu or call the manager of EAP at 963-3690.

CWU encourages all faculty and staff to increase their awareness and identification of alcohol issues. Training is available for faculty and staff through Human Resources. For more information, go to <a href="https://www.cwu.edu/~training/">www.cwu.edu/~training/</a>.

Supervisors are required to identify, document, and attempt to correct all employee job performance and/or work behavior problems, using standard corrective action procedures outlined in WAC 357-40, the Faculty Academic Code, Exempt Employees' Codes, or applicable collective bargaining agreement. They should not diagnose alcoholism, drug dependency, or any other complex medical-behavioral problem. However, corrective efforts may include referral to professional treatment resources, after consultation with human resources or faculty relations. Supervisors are encouraged to share information regarding professional treatment services with employees on a regular basis. Pamphlets describing services are available from the CWU Human Resources Department or from the director of the CWU Wildcat Wellness Center. See CWUR 4-20-005.4 for a description of professional drug treatment and counseling resources.

(E) Serving Alcoholic Beverages on Campus - University departments and student organizations are encouraged not to involve alcoholic beverages in any sponsored function. If they choose to do so, they are urged to consider the effects and the responsibility they assume in making such decisions. If the members of the department or organization choose to include alcoholic beverages in their functions, they must comply with all local and state laws, as well as specified liquor guideline s. Violation of any local or state law or specified guideline could result in the department or organization's loss of ability to serve alcohol on campus in the future and staff disciplinary action up to and including termination of employment.

University departments and student organizations are prohibited from serving alcohol on campus during an employee's normal work shift, which typically would be 8 a.m. to 5 p.m. Monday through Friday, in accordance with WAC 296-800-11025, which prohibits alcohol or narcotics at the workplace. Employees may not consume alcohol or drugs during their work shift unless such drugs are prescribed by a physician or other appropriate healthcare provider or unless such over-the-counter medication as will not interfere with the employee's ability to perform his/her job.

All groups and organizations sponsoring social events held on the CWU campus and all recognized university groups holding events off campus which involve the serving and consumption of alcoholic beverages are obliged to comply with the procedures and guidelines outlined in CWUR 4-20-005.5 and use a social attendant. Contact the Scheduling Center at 963-1321 for more information on social attendants.

(F) Advertisement - There will be no marketing or advertising of alcoholic beverages on the Central Washington University campus, except as allowed by state law (RCW 66.28.160) or to promote an educational program.

The university prohibits advertising that encourages abusive alcohol consumption. The university also prohibits alcohol from being offered as an enticement, reward, benefit of attendance or membership, or as a prize.

(G) **Policy Implementation and Application** - This policy applies to all members of the Central Washington University community at all events, on or off campus, sponsored by the university, including clubs and organizations, and/or held in any university facility. The only exception to this policy is for the property of the president's residence and reception center.

#### ON-CAMPUS RESOURCES

Wildcat Wellness Center 509-963-3214

Student Medical and Counseling Clinic Services 509-963-1391

Community Counseling and Psychological Assessment Center 509-963-2301

## **OFF-CAMPUS RESOURCES**

Alcohol Drug Dependency Services 509-925-9821

Barth and Associates 509-933-1388

Central Washington
Comprehensive Mental Health 509-925-9861

Washington State Employee Service 509-456-5000

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## **Cooperative Education Procedures**

For the complete procedures, please go to: www.cwu.edu/career/student-guide.

## I. Introduction

The Cooperative Education experience is offered through the Career Services department in conjunction with academic departments. The Cooperative Education Program is an educational plan designed to integrate classroom study with planned, supervised, and evaluated employment experience linking academic programs with students' career goals and interests.

Cooperative Education has a profound effect on the way learning takes place because it is interactive and reinforcing. Students ascribe new value to what is learned in the classroom because, either in principle or practice, they are applying it to the test of a real job. The added ingredient for learning is experience.

## II. Qualifying Parameters for Student Participation

The following are the university's minimum requirements (departments may have additional requirements) for student participation:

- A. The student is enrolled and pursuing a degree at Central Washington University.
- B. The student is in good academic standing.
- C. The field experience is directly related to the student's major field of study and/or career goal.
- D. The student has completed the appropriate prerequisite courses and possesses the skills and knowledge required for placement in a suitable level of field experience as determined by the student's department.
- E. The student must have a department faculty cooperative education (co-op) advisor for enrollment in a Cooperative Education course.
- F. The student's field experience is a practical position where the student is actively engaged in hands-on learning, not just observing.

## III. Program Enrollment

- A. Students must complete a formal learning agreement with a learning plan that contains relevant objectives and activities performed during the internship. The agreement form constitutes a field study plan that includes a description of academic requirements such as term papers or projects, assigned readings, research projects or theses, progress reports, final reports, etc. The Learning Agreement must be endorsed by the employer or supervisor, the student, the faculty co-op advisor, department chair, dean of the college, and the Associate Director of Cooperative Education.
- B. The student must submit a completed Cooperative Education Learning Agreement form with attached Student Release Form to Career Services to complete the registration process for enrollment in the Cooperative Education course.
- C. Cooperative Education courses are numbered 290, 490, and 590. Credits are variable 1-5 for 290, 1-12 for 490, and 1-8 for most 590-level courses. Course credits are subject to change, please verify with department.
- D. A freshman should complete at least 45 credits at CWU prior to enrolling in the Cooperative Education course. A transfer student should complete at least 15 credits at CWU and have a total of 45 credits, including transfer credits, prior to enrolling in the Cooperative Education course.
- E. The student should complete a minimum of 90 credit hours with 10 or more credits in his or her major to be eligible for enrollment in the 490 level course. Departments may have additional requirements for this level of experience.
- F. A student who desires a career exploration experience, or who has not declared a major, is limited to enrolling for the Cooperative Education course at the 290 level.
- G. The student may re-enroll for the Cooperative Education course, but, in no case will a student be allowed to count more than 10 credits at the 290 level, nor more than 20 total credits toward graduation requirements. No more than 10 credits are accepted in transfer. No more than eight credits may be applied to a graduate degree.
- H. Cooperative Education courses may be repeated if field experience learning objectives and activities are distinctly different from previous work or field experience.

## IV. Awarding of Credits

- A. Cooperative Education credits are to be awarded on the basis of quality, magnitude, and the level of learning (learning plan, relevant objective and activities) that take place during the field experience.
- B. For university standardization practice, credits are awarded using a minimum of 40 or more clock hours of approved field experience for each credit hour earned. Clock hours will include time spent to complete the work phase and the academic phase (term paper/ project(s), journal or log, progress reports, assigned readings, final report, etc.) of the field experience.
- C. An appropriate means for evaluation (progress reports, performance evaluations, final report, etc.) of the learning is established between the student, the employer, and the faculty co-op advisor.
- D. The student will be awarded an S or U grade (letter grade optional with approval of faculty co-op advisor) for the Cooperative Education course.
- E. If the field experience is terminated by the employer or academic department, the student will not receive credit.
- F. Credit will not be given for previous field or work-study experience.
- G. Credit for the Cooperative Education course will be awarded for the quarter in which the majority of hours for the experience were acquired.
- H. If the student leaves the field experience prior to completion of the hours, objectives, and/or academic requirements, no credit will be received and a grade of Incomplete or Unsatisfactory will be awarded. Grading and award of credit is based solely on completion of the agreed-upon parameters set forth in the Learning Agreement.

## V. Student Supervision and Coordination

- A. Daily supervision of the student is to be provided by the cooperating company supervisor who will be identified prior to the field experience.
- B. Cooperative Education courses shall be under the direct guidance, direction, and coordination of a faculty co-op advisor as part of the regular teaching load. Credit for faculty load shall comply with faculty code, Part 4, Section 7.20, B, 1, a, (3) of the current (1992) code. The faculty co-op advisor is available to the student in the field. The faculty advisor arranges and coordinates visitations/ contacts with the employer or supervisor and the student a minimum of twice each quarter. The faculty co-op advisor keeps a file on each student's work (term paper/ project(s), final report, etc.) with his or her department office.
- C. The Career Services office is an academic support service which facilitates the advising of students in the placement and cooperative education process; maintaining direction, sustaining quality control for the program; conducting program research, assessment, and evaluation; and providing training and faculty coop advisors and staff.
- D. The Career Services office staff is available for field visitations/ contacts when suitable faculty representation is not available or upon request of the faculty co-op advisor or department chair.

#### VI. Student Placement Process

- A. The placement process is intended to be a real-life job seeking experience for the student, including competition for positions.
- B. The Career Services office advises students in the placement process through the maintenance of past internship placements and current listings that are submitted by employers. In addition, the staff is available to provide assistance with resumes, cover letters, job search techniques, and interviewing tips.
- C. The student should check with their faculty advisor for internship leads as many departments have developed their own internship connections.
- D. Students may propose their own placement site to the Faculty Co-op Advisor who determines the suitability of the placement with a given employer for Cooperative Education credit.
- E. Students may find a "regular" position that can double as a co-op experience if there is sufficient challenge and opportunity for learning that can justify university credit. Decisions on whether the experience warrants university credit rest with the academic department and the coordinating faculty.
- F. The placement must conform to affirmative action and EEO/ Title IX/ ADA guidelines.

## VII. Position Description for Field Experience

The cooperating employer/ agency must agree to provide a written description of field experience tasks, identify a field supervisor and submit his or her qualifications to the appropriate university department and the Office of Cooperative Education prior to approval of the Learning Agreement.

## VIII. Student Compensation

- A. Paid field experience positions are sought where possible and practicable.
- B. Unpaid positions may be used but are limited to the equivalent of working full-time for one quarter (approximately 400 hours). Please see the Fair Standards Act Guidelines for unpaid internships in the forprofit sector: www.dol.gov/whd/regs/compliance/whdfs71.htm.
- C. Students should not be put in a position where they are exploited as a source of cheap labor, replace or are in direct competition with regular employees.
- D. Participation in Cooperative Education unpaid experiences should not become an undue financial burden for the student or be the cause of the student withdrawing from the university for financial reasons.
- E. Health, accident, and disability insurance are the responsibility of the student, and if not provided by the employing agency, should be purchased individually. In most instances, the group coverage for students is adequate.
- F. Central Washington University is not responsible for liability or malpractice insurance for individual students. If such coverage is desired but is not provided by the co-op agency, students may wish to arrange individual coverage through Career Services, which is more reasonable than going through insurance agencies.
- G. Students receiving financial aid must check with the Financial Aid Office prior to accepting a paid placement. Students receiving financial aid must be sure their academic responsibilities for their co-op experience are completed by the end of the registered quarter. Any student with an "Incomplete" grade at the time of financial awards for the next quarter jeopardizes their position to receive their financial aid.
- H. If the student is receiving financial aid, Federal Law requires that any income be declared. If the student is employed and completes a W-4 form, this reporting will occur through regular employment withholding and a W-2 form at tax time. If the student does not complete a W-4 form for the employer, they must declare their income with the Financial Aid Office through a specific form that is available from the Financial Aid Office.

## IX. Program Evaluation

Routine review of evaluations from employers, faculty, and students occur on a quarterly basis along with continuous review of field placement sites.

The Cooperative Education Program is subject to periodic review and assessment, completed at least once every five years.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## Discrimination Complaint and Resolution Policy CWUP 2-35-070

For the complete policy, please go to: www.cwu.edu/resources-reports/cwup-2-35-070-discrimination-complaint-and-resolution.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

# Reasonable Accommodation of Persons with Disabilities - Students CWUP 2-35-040(2)

For the complete policy, please go to: www.cwu.edu/resources-reports/cwup-2-35-0402-reasonable-accommodation-persons-disabilities-students.

## I. Accommodation Policy for Students with Disabilities

Title II of the Americans With Disabilities Act of 1990, the Washington state law against discrimination, RCW 49.60, RCW 28B.10.910-914, and Section 504 of the Rehabilitation Act of 1973 prohibit discrimination against persons of disability on the basis of disability. Central Washington University is committed to providing reasonable accommodations to all qualified persons of disability to ensure access to programs, activities, and services.

#### A. **Definitions**

To be considered disabled, a student must have a physical or mental impairment that substantially limits one or more major life activities of such individual, a record of such an impairment or being regarded as having such an impairment.

A student is considered *qualified* if the student: 1) meets all eligibility criteria, 2) is able to (with or without accommodation) perform the essential functions of the program or activity, and 3) is able to benefit from a service.

The term *accommodation* means any change or adjustment that makes it possible for a student of disability to participate in a program or activity, or benefit from a service.

The term *reasonable* means that provision of the required accommodation will not result in: 1) an undue financial hardship, 2) an undue administrative hardship, or 3) a fundamental alteration to the nature of the program.

Please note that a decision not to provide accommodation must:

- 1. Take into consideration fiscal resources of the entire university,
- 2. Be explained in writing by the university president,
- 3. Be defended by the university if legally challenged.

## II. Accommodation Procedures

The following procedures have been established in a sincere effort to accommodate students with disabilities: *NOTE:* 

NOTE: To assist faculty and staff in the provision of requested accommodations, the Center for Disability Services office has programs to provide print materials in alternative formats, administer alternative examinations, furnish sign language interpreters, etc. If, for any reason, the faculty or staff decides not to utilize service provided by the Center for Disability Services, the faculty or staff member and her or his department will assume administrative and fiscal responsibility for ensuring that the student's need for accommodations is met.

## A. Establishing Eligibility for Accommodation

- 1. REQUESTING ACCOMMODATION: Students wishing to request accommodation are responsible for initiating contact with Center of Disability Services.
- 2. DOCUMENTATION: The student is responsible for providing documentation of disability that includes the names and results of all tests used to diagnose the disability, describes the nature and extent of the disability, and identifies the disability-related functional limitations experienced by the student. This documentation is confidential medical information and will be maintained in separate files in the Center for Disability Services.

## B. Provision of Academic Accommodations

- C. The Center for Disability Services is responsible for:
  - a. Assessing the effect of a student's disability on his/ her ability to access the educational process;
  - b. Identifying accommodations that the University will provide to ensure that CWU's programs, activities, and services are accessible;
  - c. Communicating procedures that
    - 1. outline student and university responsibilities, and
    - 2. set time lines for requests and delivery of accommodations;
  - d. providing services to help faculty and staff accommodate the needs of students.
- B. The student is responsible for:

- a. Making the appropriate people on campus aware of his/ her need and eligibility for accommodation in a timely manner;
- b. Working with the faculty, staff, and Center for Disability Services to determine how the accommodation will be provided;
- Following policies and procedures set forth by the university and by the Center for Disability Services.
- C. The university has no obligation to accommodate a student who fails to establish eligibility with CWU's Center for Disability Services.
- D. The university reserves the right to suspend accommodations to students who abuse services or fail to follow university policies and procedures.
- E. If failure to use an accommodation results in damage to CWU equipment, the student will be held responsible for the repair or replacement of the damaged equipment.
- F. Faculty and staff are responsible for:
  - a. Working with the student and the Center for Disability Services to identify an effective means of providing requested accommodations;
  - b. Providing requested accommodations.

## II. Determination of Qualified

- 1. The student must meet all prerequisite and eligibility criteria as set forth by the department unless that criteria is discriminatory on the basis of disability.
- 2. The student must be capable of performing the essential elements of the course, activity, or program. If in question, the student is responsible for working with the academic department, appropriate faculty or staff, and the CDS director to determine if he or she (with or without accommodation) can meet the eligibility criteria and technical standards of the course, activity, or program.
- 3. The academic department or faculty are responsible for:
  - a. Identifying the eligibility criteria and technical standards for each academic program or course. This should be done prior to the time that an academic program or course is offered. The eligibility criteria and technical standards of an academic program or course are the key skills, knowledge, or abilities that the program or course is designed to teach the student. When identifying the eligibility criteria and technical standards, faculty should focus on the desired outcome, not the process used to reach that outcome.
  - b. Working with the student and the CDS director to determine if a student's disability would prevent him or her from meeting (with or without accommodation) the eligibility criteria and technical standards of an academic program or course.
- 4. The CDS director is responsible for working with students, the academic department, and the faculty to:
  - a. Review the determination of a student's ability (with or without accommodation) to acquire the skills that comprise the eligibility criteria and technical standards of an academic program or course.
  - b. Review eligibility criteria and technical standards that present barriers to ensure that those elements are essential and not discriminatory against students of disability.

### II. Grievance

Any student who believes that she or he has been discriminated against on the basis of disability may file a grievance in the Office for Equal Opportunity, room 211, Barge Hall (509-963-2205 or TDD 509-963-2007).

Grievances may be pursued either formally or informally. A list of state and federal agencies which investigate alleged violations of disability law is also available in the Office for Equal Opportunity.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## **Student Rights and Responsibilities Policy**

A complete policy is available in the office of the Dean of Student Success.

Section One Statement of Rights and Responsibilities

#### I. Preamble

Central Washington University is a community that exists for the generation, acquisition, diffusion, and preservation of knowledge, the growth of all its members, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. All members of the university community are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth in an atmosphere of academic freedom. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom as well as elsewhere on campus. The responsibility to secure and to respect general conditions conducive to the freedom to learn is shared by all members of the university community. The university has developed policies and procedures which provide and safeguard this freedom, within the framework of general standards, and with the broadest possible participation of the members of the university community. This document articulates the general policies that provide for the academic freedom of students in this university community and forms the basis on which more specific policies such as the Student Conduct Code, rules on student's records, etc., have been formulated and adopted.

## II. Access to Central Washington University

## A. Admissions, Retention and Graduation

Central Washington University supports equal educational opportunity for all regardless of sex, race, color, creed, national origin, age, sexual orientation, marital status, handicap, religion, disability, or status as a disabled or Vietnam-era veteran. Persons seeking admission to the university have the right to be admitted if they meet the admission standards established for the university by the board of trustees of Central Washington University. Admission to the university does not automatically admit students to those programs which have special standards for admission or which may restrict admissions on the basis of available resources. To be eligible for continued enrollment in the university and for graduation from the university, students are responsible for meeting the university's published requirements for retention and graduation.

## **B.** University Facilities and Services

All regular students have the right to make full use of the facilities and services of the university which are generally available to students. There are, however, some limitations on the availability and use of university resources. Students are expected to use university facilities and services responsibly and with consideration for other members of the university community. Offices responsible for providing facilities and services will, upon request, furnish guidelines for their use.

## III. Student, Faculty, Staff Relationship

The relationship between students and faculty/ staff is one which is based upon mutual respect. Students see faculty and staff in a variety of roles: teachers, counselors, librarians, administrators, advisors, employers, supervisors, colleagues. In those rare instances where a student may wish to pursue a grievance having to do with grades or actions taken by a faculty member or a staff member of an office or department which adversely affected the student's academic progress, the university provides a procedure by which the grievance may be pursued. The rules for the process are contained in the Rules Governing the Operations of the Board of Academic Appeals, copies of which are available in the Office of the Dean of Student Success (Bouillon 204).

## A. In the Classroom

## 1. Student Rights

A student who enrolls in a course has the following rights:

- a. To know from the instructor the goals and content of the course
- b. To know from the beginning the instructor's expectations and grading methods

- c. To be evaluated on the materials of the course and not on extraneous matters
- d. To consult with the instructor outside the classroom on matters related to the course

### 2. Student Responsibilities

A student who enrolls in a course has responsibility to observe the standards of academic performance defined by the instructor and the standards of conduct established by the instructor so as to assure the freedom of the instructor to teach and the freedom of the other students to learn.

## B. Outside the Classroom

Students have a right to the services provided by faculty and staff, including such services as academic advising, counseling over a broad range of problem areas, dissemination of information, and clarification of university policies and procedures, including those involving grievances. Because of the size and complexity of the university, students have the primary responsibility for initiating requests for such services, although faculty and staff are expected to be sensitive to student's needs and to offer assistance if students appear to need it.

#### IV. Student Records

## A. Student Records Rules

The university has adopted rules which govern the form and variety of student records collected and maintained by the university, the nature of information collected, and the way in which student information is recorded, maintained, and eventually disposed of, consistent with federal and state regulations. Copies of the rules (in accordance with Public Law 93-380 the Family Educational Rights and Privacy Act of 1974, i.e., the Buckley Amendment) are available in the Office of the Dean of Student Success. Students have a right to expect that information about themselves of a private, personal, or confidential nature which they share with faculty and staff will be disclosed only according to student records rules. Faculty and staff may provide judgments of a student's ability and character to others in appropriate circumstances, normally with the knowledge and consent of the student concerned, and in accordance with the university's rules on student records.

Student disciplinary records are education records and are covered by FERPA. Institutions may disclose, without prior consent, information contained in a student's education records concerning disciplinary action taken against the student, to teachers and school officials who have legitimate educational interests in the behavior of the student. Legitimate educational interest means that the official has a need to access student education records for the purpose of performing an appropriate educational, research or administrative function for the institution. It is important to note that although these exceptions exist, FERPA does not require an institution to disclose such information from the education record to any party, except to the student. For purposes of student conduct records, school officials are identified as a person employed by the institution in an administrative, supervisory, and academic or research, or support staff position. This may include student workers assigned specifically to work with the student conduct administration.

If non-directory information is needed to resolve an emergency situation, an educational institution may release that information if the institution determines that it is "necessary to protect the health or safety of the student or other individuals. A record must be made of the disclosure. An educational agency or institution may take into account the totality of the circumstances pertaining to the threat to the health or safety of a student or other individuals. If the educational agency or institution determines that there is an articulable and significant threat to the health or safety of a student or other individuals, it may disclose information from education records to any person whose knowledge of the information is necessary to protect the health or safety of the student or other individuals. If, based on the information available at the time of the determination, there is a rational basis for the determination; the Department will not substitute its judgment for that of the educational agency or institution in evaluating the circumstances and making its determination. An educational agency or institution must record the following information when it discloses personally identifiable information from education records under the health or safety emergency exception. The institution must state the articulable and significant threat to the health or safety of a student or other individuals that formed the basis for the disclosure. In addition, the parties to whom the agency or institution disclosed the information should be recorded.

Those law enforcement records become an education record, subject to FERPA, if the original or copy is maintained by a school official outside of the law enforcement unit or is kept in an area where it is accessible to other school officials.

#### B. Students' Rules

The rules on student records also define the following rights of students with respect to their records and the procedures to be followed to guarantee those rights:

- 1. The right to inspect and review information contained in their educational records
- 2. The right to challenge the contents of their educational records
- 3. The right to submit an explanatory statement for inclusion in the educational record if the outcome of the challenge is unsatisfactory
- 4. The right to prevent disclosure, with certain exceptions, of personally identifiable information
- 5. The right to secure a copy of the university rules, which includes the location of all educational records
- 6. The right to file complaints with the appropriate federal and state agency(ies) concerning alleged failures by the university to comply with applicable laws, rules, and their implementing regulations

## C. Students' Responsibilities

Students are responsible for furnishing, completely and accurately, such pertinent information as required by the university so that it may perform its proper function as an educational institution. If students' circumstances change, e.g., name, address, financial situation, etc., they are responsible for seeing that proper university officials are informed of such changed circumstances.

### V. Student Life

Student Life encompasses a broad area, including the freedoms to form associations, to inquire and express opinions, and to participate in institutional government.

## A. Association

Students have the right to form organizations and to join associations to promote their common interests. In doing so, they have the responsibility to follow university policies and procedures, copies of which are available in the Office of Campus Life.

## **B.** Inquiry and Expression

Students and student organizations have the right to examine and discuss all questions of interest to them, to express opinions publicly and privately, to support causes, and to invite and hear any person of their own choosing. Such activities shall not disrupt the regular and essential operation of the university. Students and student organizations are responsible for following the policies and procedures related to these activities, copies of which are available in the Office of Campus Life.

## C. Student Participation in Institutional Government

Students have the right to express their views by lawful procedures on issues of institutional policy and on matters of general interest to the student body, and to participate in the formulation and application of institutional policy affecting academic and student affairs. Student government, the Associated Students of Central Washington University, is the primary vehicle for student participation in institutional government, and its role is explicitly stated in its constitution and by-laws, copies of which are available in the Office of Campus Life. Other opportunities for involvement in academic and student affairs areas may be found in the various departmental or administrative offices. Having become involved in institutional governance, students are responsible for fulfilling the obligations they have undertaken.

## VI. Student Conduct

The following areas are subject to change: please consult the CWU policy manual at www.cwu.edu/~pres/policies/index.html.

Students are members of both the university community and the larger community outside the university. As members of the university community, students are guaranteed those rights described in this document. As members of the larger

community, students are afforded those rights guaranteed by the state and federal constitutions, the authority of which extends across both communities.

At the same time, both communities have established standards of conduct designed to protect their essential purposes. The university community has defined in its Student Conduct Code that conduct in which its members may not engage without penalty. The larger community has defined such behavior in its laws.

Outlined below are the standards in disciplinary proceedings established by the university with respect to student conduct which violates the norms of either the university or the larger community.

## A. The University Community

The Student Conduct Code enumerates proscribed behavior and describes procedures followed in cases where students are alleged to have engaged in such conduct. These procedures guarantee procedural due process to the accused students and are fully described in the Student Conduct Code, copies of which are available in the Office of the Dean of Student Success.

## B. The Larger Community

If a student's behavior results in charges that both the law of the larger community and the proscriptions of the university's Student Conduct Code have been violated, the university does not waive the right to initiate proceedings in accordance with provisions of the Student Conduct Code.

#### Section Two

Student Conduct Code (Refer to WAC 106-120 for complete code. Revisions and current policy available in the Office of the Dean of Student Success.)

## I. General Policy

## A. Definitions

- 1. "University" shall mean Central Washington University.
- 2. "Dean of Student Success" shall mean the Dean of Student Success or the Dean's designee.
- 3. "Student" shall mean a person enrolled at the university either full or part time, pursuing undergraduate, graduate, or extension studies, or a person accepted for admission or readmission to the university.
- 4. "University community" shall include the employees and students of Central Washington University and all property and equipment of the university.
- 5. "Hazing" shall include any method of initiation into a student organization or living group, or any pastime or amusement engaged in with respect to such an organization or living group that causes, or is likely to cause, bodily danger or physical harm, or serious mental or emotional harm, to any student or other person attending Central Washington University. The term does not include customary athletic events or other similar contests or competitions.
- 6. "Sexual assault" occurs when the act is intentional and is committed either by (a) physical force, violence, threat, or intimidation; (b) ignoring the objections of another person; (c) causing another's intoxication or impairment through the use of alcohol or drugs; or (d) taking advantage of another person's incapacitation, state of intimidation, helplessness, or other inability to consent.
- 7. "Sexual misconduct" occurs when an act is committed without intent to harm another and where, by failing to correctly assess the circumstances, a person mistakenly believes that effective consent was given and did not meet his/her responsibility to gain effective consent.
- 8. "Sexual harassment" is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. More specifically, sexually harassing behavior that includes the following:
  - (a) Gender harassment, including sexist statements and behaviors that convey insulting, degrading, or sexist attitudes
  - (b) Seductive behavior encompassing unwanted, inappropriate, and offensive physical or verbal sexual advances

- (c) Sexual bribery, involving solicitation of sexual activity or other sex-linked behavior by promise of reward
- (d) Sexual coercion of sexual activity or other sex-linked behavior by threat of punishment
- (e) Sexual assault, attempted rape, and rape. Additional examples of sexual harassment can be found in the university's Sexual Harassment Policy
- 9. "Stalking" is a legal term for repeated harassment or other forms of invasion of a person's privacy in a manner that causes fear to its target. Stalking may include such acts as repeated following; unwanted contact (by letter or other means of communication); observing a person's actions closely for an extended period of time; or contacting family members, friends, or associates of a target inappropriately.

## B. Introduction and Purpose

The students of Central Washington University are responsible for complying with policies, standards, rules, and requirements for academic and social behavior formulated by the university for the maintenance of an orderly and responsible functioning of the university community. Students enrolled at any of the university's campuses are expected to uphold these standards both on and off campus. At the same time, students have protection through orderly procedures against arbitrary or capricious actions or decisions by university authorities. Due process is recognized as essential to the proper enforcement of university rules. The purpose of this document is to provide a procedure and rules by which a student will be afforded due process in the matter of alleged violations of university standards, rules, and requirements governing academic and social conduct of students.

The university recognizes a responsibility to resolve behavior problems before they escalate into serious problems requiring the application of these rules. Therefore, the vice president shall generally review and/or investigate student behavioral problems which are referred by university community members or any subsidiary conduct agencies to the Student Conduct Council, or which otherwise come to the attention of the vice president through the office of Public Safety and Police Services or other official university reports. The Dean of Student Success and the Student Consultation Team shall be as proactive as possible concerning the resolution of student behavioral problems and use reasonable arbitration and conflict resolution methods in order to prevent such problems from further interfering with the university community or the student's own educational progress.

The Dean of Student Success shall provide for due process for students throughout the behavioral problem-solving intervention by following the proper steps related to the initiation, investigation, and disposition of complaints against a student as outlined in Section III of this document.

Any student is subject to these rules, independent of any other status the individual may have with the university. Any action taken against a student under these rules shall be independent of other actions taken by virtue of another relationship with the university in addition to that of the student.

## C. Cooperation with Law Enforcement Agencies

Central Washington University distinguishes its responsibility for student conduct from the controls imposed by the larger community beyond the university, and of which the university is a part. The university does not have the responsibilities of a parent for the conduct of students. When students are charged with violations of laws of the nation or state, or ordinances of the county or city, the university will neither request nor agree to special consideration for students because of their status as students, but the university will cooperate with law enforcement agencies, courts, and any other agencies in programs for rehabilitation of students.

Central Washington University reserves the right to impose the provisions of this policy and apply further sanctions before or after law enforcement agencies, courts, and other agencies have imposed penalties or otherwise disposed of a case.

## **II. Proscribed Conduct**

A student shall be subject to disciplinary action or sanction upon violation of any of the following conduct proscriptions:

A. Disruptive and disorderly conduct which interferes with the rights and opportunities of other students to pursue their academic studies.

- B. Academic dishonesty in all its forms including, but not limited to:
  - 1. Cheating on tests
  - 2. Copying from another student's test paper
  - 3. Using materials during a test not authorized by the person giving the test
  - 4. Collaboration with any other person during a test without authority
  - 5. Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of an unadministered test or information about an unadministered test
  - 6. Bribing any other person to obtain an unadministered test or information about an unadministered test
  - 7. Substitution for another student or permitting any other person to substitute for oneself to take a test
  - 8. Plagiarism, which means the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit
  - 9. Collusion, which means the unauthorized collaboration with any other person in preparing work offered for credit
- C. Filing a formal complaint with the Office of the Dean of Student Success with the intention of falsely accusing another with having violated a provision of this code.
- D. Furnishing false information to any university official, especially during the investigation of alleged violations of this code.
- E. Furnishing false information to the Student Conduct Council with the intent to deceive, the intimidation of witnesses, the destruction of evidence with the intent to deny its presentation to the Student Conduct Council or the vice president when properly notified to appear.
- F. Intentionally setting off a fire alarm or reporting a fire or other emergency or tampering with fire or emergency equipment except when done with the reasonable belief in the existence of a need therefore.
- G. Forgery, alteration, or misuse of university documents, records, or identification cards.
- H Sexual harassment including stalking, forced and/or nonconsensual sexual activity in any form including sexual misconduct I. Actual or attempted physical/emotional abuse of any person or conduct which threatens or endangers the health and safety of any person or which intentionally or recklessly causes a reasonable apprehension of harm to any person.
- J. Harassment of any sort or any malicious act which causes harm to any person's physical or mental well being.
- K. Recklessly engaging in conduct which creates a substantial risk of physical harm to any person.
- L. Creating noise in such a way as to interfere with university functions or using sound amplification equipment in a loud and raucous manner.
- M. Theft or malicious destruction, damage, or misuse of university property, private property of another member of the university community, whether occurring on or off campus; or theft or malicious destruction, damage or misuse on campus of property of a nonmember of the university community.
- N. Unauthorized seizure or occupation or unauthorized presence in any university building or facility.
- O. Intentional disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other university activities or programs whether occurring on or off campus or of activities or programs authorized or permitted by the university pursuant to the provisions of this document.
- P. Intentional participation in a demonstration which is in violation of rules and regulations governing demonstrations promulgated by the university pursuant to the provisions of this document.

- Q. Unauthorized entry upon the property of the university or into a university facility or any portion thereof which has been reserved, restricted in use, or placed off limits; unauthorized presence in any university facility after closing hours; or unauthorized possession or use of a key to any university facility.
- R. Possession or use on campus of any firearm, dangerous weapon or incendiary device or explosive unless such possession or use has been authorized by the university.
- S. Possession, use, or distribution on campus of any controlled substance as defined by the laws of the United States or the state of Washington except as expressly permitted by law.
- T. Violation of the university policy on alcoholic beverages which states:
  - 1. Persons 21 years of age or older may possess and/or consume alcoholic beverages within the privacy of their residence hall rooms or apartments. Washington State law provides severe penalties for the possession or consumption of alcoholic beverages by persons under 21 years of age and for persons who furnish alcoholic beverages to minors. All university students should be aware of these laws and the possible consequences of violations
  - 2. The university does not condone the consumption of alcoholic beverages by minors at functions sponsored by Central Washington University organizations. Organizations are held responsible for the conduct of their members at functions sponsored by the organization and for failure to comply with Washington State law
  - 3. The Student Conduct Council may place on probation any organization or prohibit a specific campus social function when the consumption of alcoholic beverages has become a problem of concern to the university
- U. Conduct which violates the university policies on computer use.
- V. Violation of clearly stated proscriptions in any published rule or regulation promulgated by any official campus committee, commission, or council acting within the scope of its authority.
- W. Violation on or off campus of any city, county, state, or federal law while participating in any university-sponsored activity.
- X. Conspiracy to engage in hazing or participation in hazing of another.
- Y. Failure to comply with the directive of a University official acting in the scope of authority may result in disciplinary action.

## III. Initiation, Investigation, and Disposition of Complaints

## A. Philosophy

The Student Consultation Team deals with student behaviors which constitute violations of this code. The Student Consultation Team meets weekly to review Incident Reports filed by housing staff, campus-wide behaviors of concern reports submitted by any member of the University Community, as well as police reports, which deal with both on- and off-campus students. The Student Consultation Team works together to suggest intervention strategies which are considered to be most appropriate and effective for eliminating specific negative student behaviors. The Student Consultation Team is co-chaired by the Associate Dean of Student Living/ Chief Conduct Officer and the Assistant to the Dean of Student Success, also includes representatives from Public Safety and Police Services, University Housing and New Student Programs, , Student Medical and Counseling Clinic, the Wildcat Wellness Center, and other offices deemed necessary to assist in disposition of cases.

## **B. Process**

Incidents that come to the attention of the Student Consultation Team may be addressed in one of the following ways:

- 1. No action.
- 2. Informal meetings with relevant university officials.
- 3. Initiate proceedings in the Office of the Dean of Student Success. Official proceedings in the Dean of Student Success' office are conducted when it becomes apparent to the Student Consultation Team that the initial and more informal forms of intervention with a student have been unsuccessful in positively modifying a student's behavior.

## C. Investigation and Disposition of Complaints

The following rules will govern the processing of alleged violations of the proscribed conduct listed in the Student Conduct Code, with one exception. Allegations of discrimination, including sexual harassment, will utilize a separate process in order to provide both parties their rights under the law and in accordance with Title VI of the Civil Rights Act of 1964 and Title IX of the Education Amendments of 1972. Copies of the Discrimination Grievance Process are available in the Office of the Dean of Student Success.

- 1. A complaint alleging misconduct against any student at the university may be filed by anyone at the Office of the Dean of Student Success. Students, faculty members, administrators, and other employees of the university shall have concurrent authority to request the commencement of the disciplinary proceedings provided for in this chapter. A person filing a complaint shall be complainant of record.
- 2. Any student charged in a complaint shall receive written notification from the Dean of Student Success. Such notice shall:
  - a. Inform the student that a complaint has been filed alleging that the student violated specific provisions of the Student Conduct Code and the date of the violation(s).
  - b. Set forth those provisions allegedly violated.
  - c. Specify a time and date the student is required to meet with the Dean of Student Success or designee.
  - d. Inform the student that failure to appear at the appointed time at the Dean of Student Success' office may subject the student to suspension from the university.
- 3. When the Dean of Student Success or designee meets with the student, it shall:
  - a. Provide for the student a copy of the Student Conduct Code.
  - b. Review the alleged violation with the student.
  - c. Conduct an investigation into the alleged violation.
- 4. Upon completion of the review with the student and/ or the investigation, the Dean of Student Success may:
  - a. Drop the charges when they appear to be invalid, without substance or capricious.
  - b. Issue a verbal warning.
  - c. Apply any of the sanctions as outlined in Section IV if such sanction is warranted by the evidence.
  - d. Refer the case to the Student Conduct Council.
  - e. Invoke the summary suspension procedure as outlined in Section VII when deemed appropriate.
- 5. The Dean of Student Success shall inform the student that only suspension and expulsion sanctions may be appealed to the Student Conduct Council, and that if an appeal is made, the Dean of Student Success shall take no action nor make any determination, except for summary suspension, in the matter other than to inform the student of the time, date, and location of the proceeding by the Student Conduct Council.

## IV. Disciplinary Sanctions

The following may be the sanctions imposed by the Dean of Student Success or by the Student Conduct Council.

## A. Warning

Notice in writing that the student has violated university rules or regulations or has otherwise failed to meet the university's standard of conduct. Such warning will contain the statement that continuation or repetition of the specific conduct involved or other misconduct will normally result in one of the more serious disciplinary actions described below.

## B. Disciplinary Probation

Formal action specifying the conditions under which a student may continue to be a student at the university, including limitation of specified activities, movement, or presence on the CWU campus, including restricted access to any university building. The conditions specified may be in effect for a limited period of time or for the duration of the student's attendance at the university.

## C. Restitution

An individual student may be required to make restitution for damage or loss to university or other property and for injury to persons. Failure to make restitution will result in suspension until payment is made.

## D. Suspension

Dismissal from the university and from status as a student for a stated period. The notice suspending the student will state in writing the term of the suspension and any condition(s) that must be met before readmission is granted. The student so suspended must demonstrate that the conditions for readmission have been met. There is to be no refund of fees for the quarter in which the action is taken, but fees paid in advance for a subsequent quarter are to be refunded.

## E. Deferred Suspension

Notice of suspension from the university with the provision that the student may remain enrolled contingent on meeting a specified condition. Not meeting the contingency shall immediately invoke the suspension for the period of time and under the conditions originally imposed.

## F. Expulsion

The surrender of all rights and privileges of membership in the university community and exclusion from the campus without any possibility for return.

#### G. Forfeiture of Entitlements or Awards

For the specific instance of hazing, forfeiture of any entitlement to state-funded grants, scholarships, or awards for a specified period of time.

The University also has the ability to assign mediation or other educational sanctions.

## V. Student Conduct Council

## A. Purpose

The Student Conduct Council shall be the principal campus wide conduct body with jurisdiction over all students, whether graduate or undergraduate, and student organizations and authority to hear all charges of misconduct. It has authority to impose the sanctions described in Section IV. Other divisions of the university may elect to establish subsidiary conduct agencies over which the Student Conduct Council will have appellate jurisdiction. Subsidiary conduct agencies or persons levying sanctions should devise sanctions which are in proportion to both the nature and extent of the misconduct, and which redress injury, damage, expense, inconvenience and/or grievance as far as possible. Appeal from subsidiary councils or agencies must be made within five working days from the time of publication of findings by said subsidiary conduct agency. Failure to file such an appeal will constitute and be construed as full acceptance by all parties of the findings.

## B. Composition

The following rules govern the composition of the Student Conduct Council:

- 1. The council shall consist of six faculty members holding the rank of assistant professor or above, and eight students, at least one of whom should be a graduate student if a graduate student files for appointment to the council.
  - a. The faculty members of the council shall be designated in accordance with procedures established by the Faculty Senate.
  - b. The student members of the council shall be selected in accordance with procedures established by the constitution of the Associated Students of Central Washington University. Eight student members shall be appointed, each student being appointed for a term of one calendar year. Terms of office for students begin with the first day of instruction of the academic year for which the student is appointed.

- 2. A Student Conduct Council chair shall be elected at the first meeting each academic year and shall continue in office until the person resigns or is recalled. The duties of the chair are as follows:
  - a. To call regular and special meetings of the council by notification to members at least 24 hours in advance of the meeting time, except in bona fide emergency situations.
  - b. To preside over all regular and special meetings.
  - c. To act as presiding officer at all meetings of the proceeding board.
- 3. Two of the faculty members and three of the student members of the council shall constitute a quorum.
- 4. The vice president shall appoint a designee as a Student Conduct Council advisor whose duties shall be to:
  - a. Convene the council.
  - b. Advise the council during all meetings and hearings.

## VI. Procedures for Proceeding before the Student Conduct Council

- A. When a case is referred to the Student Conduct Council the Dean of Student Success shall forward to the council:
  - 1. A statement describing the alleged misconduct
  - 2. The name and address of the complainant
  - 3. The name and address of the student charged
  - 4. All relevant facts and statements
- B. The secretary to the council shall call a special meeting of the council and arrange for a proceeding in the following manner:
  - 1. The council shall determine the time and place of the proceeding, which shall be at least 10 days after delivery of written notice to the student. In the interest of timeliness and efficiency, upon the request of either the student or the Dean of Student Success, this 10-day interval may be waived by the Dean of Student Success, with the student's permission. Time and place shall be set to make the least inconvenience for all interested parties. The chair may change the time and place of the proceeding for sufficient cause.
  - 2. The council shall draw lots to determine a proceeding board consisting of five student names and three faculty names, with one student and one faculty serving as alternates to be available until the proceeding board has been constituted, and the chair who will act as the proceeding officer.
  - 3. No case shall be heard unless the full membership of the proceeding board is present.
  - 4. All cases will be heard de novo, whether the case be an appeal from a subsidiary conduct body or is heard as an original complaint.
- C. The secretary to the council shall send written notice by certified mail of the proceeding to the student's last known address. The notice shall contain:
  - 1. A statement of the date, time, place, and nature of the proceeding
  - 2. To the extent known, a list of witnesses who will appear
  - 3. A summary description of any documentary or other physical evidence that would be presented by the university
- D. The student shall have all authority possessed by the university to obtain information he or she specifically describes in writing and tenders to the council chair no later than two days prior to the proceeding or to request the presence of witnesses, or the production of other evidence relevant to the proceeding. However, the university shall not be liable for information requested by the student or the presence of any witnesses when circumstances beyond the control of the university prevent the obtaining of such information or the attendance of such witnesses at the proceeding.

- E. Proceedings will ordinarily be held in closed session unless the proceeding board determines there is a compelling reason for the proceeding to be open, or the student requests an open proceeding. A closed proceeding shall include only members of the proceeding board, persons directly involved in the proceeding as parties, and persons called as witnesses.
- F. The proceeding shall be audio tape recorded, and the tape shall be on file at the Office of the Dean of Student Success for a period of three years.
- G. The university shall be represented by the Dean of Student Success who shall present the university's case against the student.
- H. The student may be accompanied by counsel, or another third party, who may offer advice. If the student utilizes an attorney as advisor, the student must give the vice president two days notice of intent to do so. If the student elects to be advised by an attorney, the vice president may elect to have the university advised by an Assistant Attorney General.
- I. The council chair shall insure that:
  - 1. The proceeding is held in an orderly manner giving full care that the rights of all parties to a full, fair, and impartial proceeding are maintained.
  - 2. The charges and supporting evidence or testimony shall be presented first, and that there is full opportunity for the accused student to challenge the testimony and/or evidence, and to cross examine appropriately.
  - 3. The student charged shall next present evidence or testimony to refute the charge, and that there is full opportunity for the accuser to challenge testimony and/or evidence, and to cross examine appropriately.
  - 4. Only those materials and matters presented at the proceeding will be considered as evidence. The presiding officer shall exclude incompetent, irrelevant, immaterial, and unduly repetitious evidence.
- J. Any person disruptive of the proceeding or any other procedure described in this document shall be excluded from the process by the chair of the Student Conduct Council or by the Dean of Student Success using such means as are necessary to ensure an orderly process. Any student engaging in such interference shall be in contempt and may be summarily suspended from the university by the Student Conduct Council or the Dean of Student Success immediately. The student shall be subject to a suspension or any lesser sanction as may be determined by the Student Conduct Council or the Dean of Student Success at the time the interference takes place or within 15 working days thereafter.
- K. The student has a right to a fair and impartial proceeding, but the student's failure to cooperate with or attend a proceeding shall not preclude the council from making its finding of facts, conclusions, and recommendations. Failure by the student to cooperate may be taken into consideration by the Student Conduct Council and the vice president in deciding the appropriate disciplinary action.
- L. Upon conclusion of the proceeding, the proceeding board in closed session shall consider all the evidence presented and decide by majority vote to exonerate the student or to impose one of the sanctions authorized by this document.
- M. The student shall be provided with a copy of the board's findings of fact and conclusions regarding whether the student did violate any rule or rules of the Student Conduct Code and the board's decision as to the appropriate sanction to be imposed.
- N. If a student charged with misconduct under this code has been charged with a crime for the same act or closely related acts by federal, state, or local authorities, or if it appears that such criminal charge is under consideration, the Student Conduct Council may postpone action on the complaint until there has been a disposition of the criminal charge or of the consideration of filing such charge. However, prior to action by other agencies, the council may proceed to hear and decide the case if in the judgment of the council, the nature of the alleged misconduct, and the circumstances surrounding it pose a serious risk to the health or well being of the student or other members of the university. If there is a determination of guilt by the council and if the subsequent criminal proceedings result in a judgment of acquittal, the student may petition the Student Conduct Council for a rehearing.

## VII. Summary Suspension Proceedings

The Dean of Student Success may summarily suspend any student from the university pending investigation, action, or prosecution of charges of an alleged proscribed conduct violation or violations, if the Dean of Student Success has reason to believe that the student's physical or emotional safety and well-being, or the safety and well-being of other university community members, or the protection of property requires such suspension.

- A. If the Dean of Student Success finds it necessary to exercise the authority to summarily suspend a student, the Dean of Student Success shall:
  - 1. Give to the student an oral or written notice of intent to determine if summary suspension is an appropriate action.
  - 2. Give an oral or written notice of the alleged misconduct and violation(s) to the student.
  - 3. Give an oral or written explanation of the evidence in support of the charge(s) to the student.
  - 4. Determine a time for the summary suspension proceeding to be held within 36 hours.
  - 5. Give an oral or written notice of the time and place of the summary suspension proceeding before the Dean of Student Success.
  - 6. Give an oral or written explanation of the summary suspension which may be imposed on the student.
- B. At the place and time designated for the summary suspension proceeding, the Dean of Student Success shall:
  - 1. Consider the evidence relating specifically to the probability of danger to the student, to others on the campus, or to property.
  - 2. Provide the student with an opportunity to show why continued presence on campus does not constitute a danger to the physical and emotional well-being of self or others, or a danger to property.
  - 3. Give immediate oral notice of the decision to the student, followed by written notice.
  - 4. If summary suspension is warranted, summarily suspend the student for no more than 15 working days with a Student Conduct Council proceeding of the allegations to have commenced by the end of the suspension period.
- C. If a student has been instructed by the Dean of Student Success to appear for summary suspension proceedings and then fails to appear at the time designated, the Dean of Student Success may suspend the student from the university and shall give written notice of suspension to the student at the student's last address of record on file with the university.
- D. During the period of summary suspension, the suspended student shall not enter the campus of the university other than to meet with the Dean of Student Success. However, the Dean of Student Success may grant the student special permission for the express purpose of meeting with faculty, staff, or students in preparation for a proceeding before the Student Conduct Council.

## VIII. Readmission after Suspension

Any student suspended from the university under the provisions of the Student Conduct Code may be readmitted upon expiration of the time period specified in the document of original suspension.

If circumstances warrant reconsideration of the suspension prior to its time of expiration, the student may be readmitted following approval of a written petition submitted to the Dean of Student Success. Such petitions must state reasons which either provides new evidence concerning the situation which resulted in the suspension, or demonstrate that earlier readmission is in the best interest of the student and the university. Approval for such readmission must be given by the Dean of Student Success or by the Student Conduct Council.

Students who have been suspended and whose suspension upon appeal is found to have been unwarranted shall be provided full opportunity to reestablish their academic and student standing to the extent possible within the abilities of the university, including an opportunity to retake examinations or otherwise complete course offerings missed by reason of such action.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## Student Sexual Assault Response Policy CWUP 8-40-050

For the complete policy, please go to: www.cwu.edu/resources-reports/cwup-8-40-050-student-sexual-assault-response.

Central Washington University will not tolerate sexual assault or sexual misconduct in any form. The university affirms respect, responsibility and caring among all persons within the community. Federal law requires specific policies and procedures to address sexually assault behavior on the part of students. Allegations of sexual assault by students should be addressed through this policy, administered by the office of the Dean of Student Success, Bouillon Hall, room 204, 509-963-1515.

The university is committed to preventing all forms of sexual assault and to providing accessible, responsive services for dealing with such offenses. Sexual assault on the part of any student is clearly inconsistent with Central Washington University values. It is also considered a form of sexual harassment in violation of the university Student Conduct Code, as well as a violation of state and federal law.

Individuals are responsible for their behavior when they are consuming alcohol or other controlled substances, and such consumption is not an excuse for unacceptable behavior. Sexual assault often occurs in the context of the use of alcohol or other controlled substances. Under these circumstances, individuals put themselves at increased risk for being a victim of sexual assault or of being accused as a perpetrator. Lack of consent can exist if a person is too intoxicated and/or is unable to freely agree to sexual intercourse or sexual contact. The university's highest concern is for the emotional and physical well being of sexual assault victims. The victim shall have access to the full complement of university services that can help students maintain emotional and psychological well-being and provide for the safety of the victim. These include, but are not limited to, assistance in changing academic and on-campus living arrangements if these changes are reasonably available. The University Sexual Assault Response Coordinator will be the official first point of contact (509-963-3233), other than police, for facilitating victim access to all needed services. Other departments, if contacted first, will make a referral to the Sexual Assault Response Coordinator. The Sexual Assault Response Coordinator is located in the Wellness Center in SURC 139.

Central Washington University encourages all members of the campus community who believe they are victims of sexual assault to immediately report the incident to the police agency of jurisdiction. Although reporting is not required, it is encouraged. If the assault occurs in the residence halls or apartments, the Office of University Housing and New Student Programs and the C.W.U. Public Safety and Police Services should be contacted, as well as the Sexual Assault Response Coordinator. Immediate reporting to the police is an important factor in successful investigation and prosecution of sexual assault cases. Victims are not required to pursue prosecution just because they report a crime to a police agency. However, the reporting of sexual assault to the police agency may prevent others from being victims. If a victim has a complaint with a non-student member of the university community, they should contact the Office For Equal Opportunity at 509-963-2205 or by e-mail at oeo@cwu.edu.

Any member of the university community can file a third party report with the Sexual Assault Response Coordinator, Student Medical and Counseling Clinic or CWU Public Safety and Police Services detailing an incident involving sexual assault. It is important to note that the university cannot initiate student judicial action or a criminal complaint against the alleged perpetrator based on a third party report. The report is encouraged, none the less, as it can provide useful information for protecting the community-at-large and connecting similar reports while protecting the victim's anonymity.

Where there is sufficient evidence to believe that the university regulations prohibiting sexual assault have been violated, the university may pursue disciplinary action through its Student Conduct Code. Sanctions for persons found in violation of these policies may include suspension and/or expulsion from the university. Education, including violence prevention and awareness, may be required of the perpetrator. The university, through the office of the Dean of Student Success, reserves the right to pursue disciplinary action in the case of an off-campus incident, when the alleged perpetrator is a student and the behavior involved threatens the health, safety, and/or property of the university and its staff and students. When proceedings are conducted on-campus in cases of alleged sexual assault, the accuser and the accused are entitled to: (a) the same opportunity to have an advocate present, and (b) be informed of the outcome of the proceeding. For a detailed description of due process see the Student Conduct Code. No victim of sexual assault shall be penalized or retaliated against in any way for his or her participation in the university's complaint process.

A victim has the right to avoid face-to-face interaction with the offender during any campus conduct hearings. She/ he also has the right to appeal the findings of investigations conducted by the Dean of Student Success' Office. A victim of sexual assault or misconduct has legal recourse outside the university, if she/ he chooses. Campus authorities will assist victims in notifying proper law enforcement authorities, including CWU Public Safety and Police Services and local police. It is the victim's right to decide whether or not to file a complaint. Legal and medical advocacy is freely available through A.S.P.E.N., the local domestic violence/ sexual assault agency.

Disclaimer: all policies and procedures are regularly updated by the Office of the President.

## **University Personnel**

TRUSTEES

Dan Dixon, BA

Seattle (September 30, 2012)

Sid Morrison, BS

Zillah (September 30, 2015)

Kate Reardon, BA

Everett (September 30, 2017)

Annette Sandberg, JD

Davenport (September 30, 2014)

Keith Thompson, BA

Spokane (September 30, 2013)

Ron Erickson, JD

Bainbridge Island (September 30, 2015)

Ivana Trottman, Student Trustee

Ellensburg (June 30, 2012)

EXECUTIVE OFFICERS James L. Gaudino, PhD

President

Marilyn Levine, PhD

Provost/ Vice President for Academic and Student Life

George Clark, MBA

Vice President for Business and Financial Affairs/ Chief Financial Officer

Sherer M. Holter, JD

Chief of Staff

PRESIDENT'S DIVISION James L. Gaudino, PhD

President

Alan Smith, JD

Assistant Attorney General

Sherer M. Holter, JD

Chief of Staff

Jack Bishop, MEd

Director, Athletics

Vacant

Assistant Vice President for Human Resources

Delores Cleary, PhD

Inclusivity Coordinator

Linda Schactler, MA

Director, Public Affairs

Scott Wade, MS

Director, University Advancement

ACADEMIC AND STUDENT

LIFE

Marilyn Levine, PhD

Provost/ Vice President for Academic and Student Life

Tracy Pellett, EdD

Associate Vice President, Undergraduate Studies

Margaret Badgley, MA

Assistant Vice President, University Centers

Marji Morgan, PhD

Dean, College of Arts and Humanities

Michael Chinn, MFA

Associate Dean, College of Arts and Humanities

Roy Savoian, PhD

Dean, College of Business

Laura Milner, PhD

Associate Dean, College of Business

Connie Lambert, PhD

Dean, College of Education and Professional Studies

Bill Bender, PhD

Interim Dean, College of Education and Professional Studies

Kirk Johnson, PhD

Dean, College of the Sciences

Dave Darda, PhD

Associate Dean, College of the Sciences

Wayne Quirk, PhD

Associate Vice President, Research, Economic Development, and Dean, Graduate Studies

Patricia Cutright, ML

Dean, Library Services

Michael Launius, PhD

Assistant Vice President, International Studies and Programs

Neil McFarlane, PhD

Director, Academic Achievement and Student Support Services

Scott Carlton, MS

Director, Academic Advising

Doug Lonowski

Interim Director, Continuing Education

Tom Henderson, PhD

Director, Instructional Assessment

Matthew Altman, PhD

Director, William O. Douglas Honors College

John Swiney, PhD

Associate Vice President for Enrollment Management

Sarah Swager, PhD

Dean. Student Success

Keith M. Champagne, MS

Associate Dean, Student Life

Richard DeShields, MEd

Associate Dean, Student Living

Jesse Nelson, PhD

Associate Dean, Student Achievement

Jack Baker, MS

Assistant of the Dean of Student Success

Randy Robinette, PhD

Senior Director, Student Medical and Counseling

Lorinda Anderson, BA

Director, Don and Verna Duncan Civic Engagement Center

Mateo Arteaga, MEd

Director, Educational Outreach Services, EOC, HEP, CAMP

## Janie Charlton, BA

Director, Early Childhood Learning Center

## Gail Farmer, MA, MBA

Director, Wellness Center

## Kathy Gaer-Carlton, BA

Director, Admissions

## Jackson B. Horsley, MD

Medical Director, Student Medical and Counseling Clinic

## Chris Hull, BA

General Manager, KCWU Radio

## Jenna Hyatt, MA

Director, Residence Life & New Student Programs

## Jaqualyn Johnson, MS

Director, Career Services

## Rhonda McKinney, MS

Director of Counseling/ Associate Director, Student Medical and Counseling Clinic

## Tracy Terrell, BS

Registrar

## Carolyn Thurston, MA

Director, STAR Program

# BUSINESS AND FINANCIAL AFFAIRS

## George Clark, MBA

Vice President for Business and Financial Affairs/ Chief Financial Officer

## Vacant

Assistant Vice President, Financial and Business Auxiliaries

## Ed A. Day, CPA

Interim Director, Organizational Effectiveness

#### Mike Luvera

Director, Public Safety and Police Services

## Carmen Rahm, MBA

Assistant Vice President for Information Technology

#### Bill Vertrees, MEd

Assistant Vice President for Facilities Management

## Shelly Baird, MBA

Director, Budget and Budget Development

## Agnes Canedo, MSOD

Director, Student Financial Services

## Kevin Conwell, BS

Director, Financial Services

## Bruce Porter, BS

Director, Business Services and Contracts

## Ken Baxter, BS

Senior Director, Conference and Retail Services

## Dan Layman, MBA

Director, Dining Services

## Mark Lundgren, MA

Director, Institutional Research

## Steve Wenger, BA

Manager, Wildcat Shop

## **Faculty**

Faculty as of January 31, 2012 **Aaby**, Anthony: Lecturer, Computer Science; PhD, Pennsylvania State University, University Park

**Abdalla**, Laila: Professor, English; PhD, McGill University, Canada

Adkinson, Cheryl: Lecturer, Continuing Education; MED, Eastern Washington University

**Adkisson**, Kevin: Senior Head Coach, Athletics; MS, Central Washington University

Affholter, Tara: Lecturer, Science Education; MED, Central Washington University

**Airth**, Paula: Assistant Professor, Art; MFA, University of Utah

**Aldcroft**, Julie: Lecturer, Sociology; PhD, University of Liverpool

Alder, Yvonne: Senior Lecturer, Information Technology & Administrative Management; BA, Washington State University

**Alkire**, Terry: Lecturer, Management; MBA, City University

Allen, Robert: Lecturer, Management; MA, University of Washington

Alsoszatai-Petheo, John: Professor, Anthropology; PhD, University of Alberta

Altman, Matthew: Assistant Professor, William O. Douglas Honors College; PhD, University of Chicago

Amason, Jessica: Lecturer, Anthropology; MA, University of Arkansas, Fayetteville

Amos, Yukari: Assistant Professor, Language, Literacy, & Special Education; PhD, University of Washington Anacker, Robert: Lecturer, Continuing Education; MA, Northwestern Illinois University

Andaya, Mario: Head Coach, Athletics; BS, Central Washington University

Andersen, Carol: Senior Lecturer, Physical Education, School and Public Health; MA, University of Oklahoma

Andler, Michael: Lecturer, Industrial & Engineering Technology; BS, Central Washington University

Andonie, Razvan: Professor, Computer Science; PhD, University of Bucharest

**Andrews**, Tracy: Professor, Anthropology; PhD, University of Arizona

Anvik, John: Assistant Professor, Computer Science; PhD, University of British Columbia

**Appleton**, Laura: Professor, Sociology; PhD, University of California, Santa Barbara

**Arango**, Clay: Lecturer, Biological Sciences; PhD, University of Notre Dame

**Armstrong**, Liahna: Professor, Art; PhD, University of California, Los Angeles

Armstrong, Sue: Senior Lecturer, Law & Justice; JD, Puget Sound School of Law

**Atkinson**, Maryanne: Associate Professor, Accounting; PhD, Drexel University

**Auslander**, Mark: Associate Professor, Anthropology; PhD, University of Chicago

Avey, James: Assistant Professor, Management; PhD, University of Nebraska, Lincoln **Bach**, Glen: Professor, Art; MFA, Vermont College of Norwich University

**Backlund**, Judy: Senior Lecturer, Language, Literacy, & Special Education; MED, Central Washington University

**Backlund**, Philip: Professor, Communication; PhD, University of Denver

Bagamery, Bruce: Professor, Finance & Supply Chain Management; PhD, Northwestern University

**Bailey**, William: Assistant Professor, Accounting; MLAWTAX, University of Washington

**Ballou**, Gary: Assistant Professor, Educational Foundations and Curriculum; PhD, Antioch University, Yellow Springs

**Barlow**, Howard: Lecturer, Art; MFA, Central Washington University

**Barlow**, Kathleen: Professor, Anthropology; PhD, University of California, San Diego

**Barnett**, David: Lecturer, Theatre Art; MFA, University of Idaho

**Barrigan**, Christina: Associate Professor, Theatre Art; MFA, University of Texas, Austin

**Bartel**, Kimberlee: Professor, Family & Consumer Sciences; PhD, Utah State University

**Bartlett**, Gary: Assistant Professor, Philosophy & Religious Studies; PhD, Rutgers University

**Basic**, Denis: Lecturer, Political Science; PhD, University of Washington

**Bayazit**, Ozden: Associate Professor, Finance & Supply Chain Management; PhD, Ankara University, Turkey **Beaghan**, James: Professor, Management; DBA, U.S. International University

**Beard**, Mary: Lecturer, Asia University America Program; MA, University of Idaho

**Beardsley**, Roger: Assistant Professor, Industrial & Engineering Technology; MS, Central Washington University

**Beck**, Daniel: Professor, Biological Sciences; PhD, University of Arizona

**Becker**, Melissa: Senior Lecturer, Accounting; MBA, Baylor University

**Beckley**, Gloria: Assistant Professor, Sociology; PhD, University of Washington

Bellah, George: Associate Professor, Theatre Art; MFA, University North Carolina, Greensboro

**Bellah**, Patricia: Lecturer, Teaching Elementary, Adolescent and Young Children; MFA, University of North Carolina, Greensboro

**Belofsky**, Gil: Assistant Professor, Chemistry; PhD, University of Iowa

**Bender**, Sara: Lecturer, Undergraduate Studies; MSCE, University of West Alabama

**Bender**, William: Professor, Industrial & Engineering Technology; PhD, University of Maryland

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**Pearl**, Kevin: Lecturer, Educational Foundations and Curriculum; MS, Syracuse University

**Pearson**, Rebecca: Assistant Professor, Physical Education, School and Public Health; PhD, University of Arkansas

Pease, Michael: Assistant Professor, Department of Geography; PhD, Southern Illinois University

**Pedersen**, Lene: Associate Professor, Anthropology; PhD, University of Southern California

**Pederson**, Nadine: Assistant Professor, Theatre Art; PhD, City University of New York

**Penick**, Jeffrey: Associate Professor, Psychology; PhD, Georgia State University

Perez, Mark: Assistant Professor, Physical Education, School and Public Health; PhD, Capella University

**Perkins**, Robert: Professor, Family & Consumer Sciences; EDD, University of Georgia, Athens

Perry, Amy: Lecturer, Information Technology & Administrative Management; MED, Central Washington University **Peters**, JoAnn: Professor, Chemistry; PhD, Harvard

Petersen, Naomi: Associate Professor, Educational Foundations and Curriculum; EDD, Seattle Pacific University

**Piacsek**, Andrew: Assistant Professor, Physics; PhD, Pennsylvania State University

Picha, John: Assistant Coach, Athletics; BA, Central Washington University

**Pichardo**, Nelson: Associate Professor, Sociology; PhD, University of Michigan

**Pickett**, Barbara: Senior Lecturer, Music; MM, Indiana University

**Pickett**, John: Professor, Music; DMA, Indiana University Bloomington

**Pierce**, James: Lecturer, Nutrition Exercise & Health Science

Pigeon, Nancy: Assistant Professor, Management; JD, McGeorge School of Law

**Pimomo**, Paulus: Professor, English; PhD, Southern Illinois University, Carbondale

Pinkart, Holly: Associate Professor, Biological Sciences; PhD, University of Tennessee, Knoxville

Pitts, Jamey: Lecturer, University English Second Language; MA, Central Washington University

**Plambeck**, Kevin: Lecturer, Continuing Education; MED, City University

Plourde, Lee: Associate Professor, Educational Foundations and Curriculum; PhD, University of Hawaii, Manoa

**Plugge**, Philip: Assistant Professor, Industrial & Engineering Technology; PhD, Colorado State University **Polage**, Danielle: Assistant Professor, Psychology; PhD, University of Washington

**Porath**, Bradley: Lecturer, Philosophy & Religious Studies; PhD, Claremont McKenna College

**Poulson**, Mary: Associate Professor, Biological Sciences; PhD, University of Illinois, Urbana

**Powell**, Joseph: Professor, English; MFA, University of Arizona

**Pribble**, Jessica: Lecturer, Theatre Art; MFA, Purdue University West, Lafayette

**Pringle**, Charles: Assistant Professor, Industrial & Engineering Technology; MS, Central Washington University

**Pritchard**, Mark: Professor, Management; PhD, University of Oregon

Pritchett, Kelly: Assistant Professor, Nutrition Exercise & Health Science; PhD, University of Alabama

Pritchett, Robert: Assistant Professor, Nutrition Exercise & Health Science; PhD, University of Alabama

**Provaznik**, William: Assistant Professor, Management; MBA, University of Nebraska, Omaha

**Purcell**, Michelle: Lecturer, Educational Foundations and Curriculum

**Quitadamo**, Ian: Associate Professor, Science Education; PhD, Washington State University

Radeke, Mary: Lecturer, Psychology; MS, Central Washington University

Randall, Paul: Lecturer, Continuing Education; MED, Eastern Washington University

Raubeson, Linda: Professor, Biological Sciences; PhD, Yale University Rawlinson, David: Associate Professor, Information Technology & Administrative Management; JD, South Texas College of Law

Ray, Chantell: Lecturer, Physical Education, School and Public Health; BA, Central Washington University

**Reasons**, Charles: Professor, Law & Justice; PhD, Washington State University

Reay, Vianne: Lecturer, Teaching Elementary, Adolescent and Young Children; BED, Pacific Luthern University

**Reddout**, Terri: Lecturer, Communication; MS, Utah State University

**Reed**, Linda: Lecturer, Educational Foundations and Curriculum; MA, University of Washington

Reiffer-Flanagan, Barbara Ann: Associate Professor, Political Science; PhD, University of Nebraska

**Reimund**, Mary: Associate Professor, Law & Justice; JD, Drake University

**Revels**, Craig: Assistant Professor, Department of Geography; PhD, Louisiana State University

Richardson, Gary: Associate Professor, Finance & Supply Chain Management; PhD, University of Texas, Arlington

**Richmond**, F: Associate Professor, Management; PhD, University of Oregon

Riggs, Mike: Lecturer, Educational Foundations and Curriculum; DED, Washington State University

Rittenhouse, Robert: Lecturer, Chemistry; PhD, Worcester Poly Institute

**Rivera**, Dion: Assistant Professor, Chemistry; PhD, University of Utah Roberts, Peggy: Lecturer, Sociology; MS, Central Washington University

**Roberts**, Randy: Lecturer, Sociology; MSW, University of Washington

Robertson, Juan: Lecturer, Industrial & Engineering Technology; PhD, University of California

Robinson, Connie: Lecturer, Sociology; PhD, William C Kimmel University

**Robinson**, Scott: Professor, Theatre Art; MFA, Illinois State University

**Robison**, Stephen: Assistant Professor, Art; MFA, University of Iowa

Romboy, Dieter: Associate Professor, Foreign Languages; PhD, University of Utah

Romfo, Rose: Lecturer, Asia University America Program; MA, Central Washington University

**Rosell**, Sharon: Assistant Professor, Physics; MS, University of Washington

Ross, Amanda: Lecturer, English; MA, Central Washington University

**Ross**, Elaine: Assistant Professor, Music; PhD, Texas Tech University

Ross, Molly: Assistant Professor, Educational Foundations and Curriculum; EDD, Seattle University

Rosser, Carl: Senior Lecturer, University English Second Language; PhD, University of Iowa

Rothenberg, Florie: Lecturer, Music; DMA, University of Arizona

**Ruble**, Michael: Associate Professor, Accounting; PhD, Arizona State University, Tempe Salyer, Brian: Associate Professor, Teaching Elementary, Adolescent and Young Children; PhD, Oklahoma State University, Stillwater

**Sandberg**, Annette: Lecturer, Law & Justice; JD, Seattle University

Sanders, Maria: Assistant Professor, Communication; MFA, American Film Institute Conservatory

Santamaria Graff, Cristina: Assistant Professor, Language, Literacy, & Special Education; PhD, University of Arizona

**Saunders**, Peter: Professor, Economics; PhD, University of Colorado, Boulder

**Scarlett**, Chris: Lecturer, Industrial & Engineering Technology; MS, Central Washington University

**Schaefer**, Todd: Professor, Political Science; PhD, Northwestern University

**Schedler**, Christopher: Associate Professor, English; PhD, University of California, Santa Barbara

**Schepman**, Stephen: Professor, Psychology; PhD, Purdue University, West Lafayette

**Schiel**, Melissa: Lecturer, Music; DMA, University of Maryland

**Schlanger**, Gregg: Professor, Art; MFA, Northern Illinois University

**Schmidt**, Linda: Lecturer, Mathematics; MS, University of Central Florida

Schmitz, Debra: Lecturer, Language, Literacy, & Special Education; MED, University of Washington

Schmitz, Steven: Professor, Educational Foundations and Curriculum; EDD, Washington State University **Schnelle**, Robert: Senior Lecturer, English; MA, Middlebury College

Schuler, William: Lecturer, Teaching Elementary, Adolescent and Young Children; MED, Central Washington University

**Schwartz**, Terrence: Associate Professor, Psychology; PhD, University of Washington

**Schwing**, James: Professor, Computer Science; PhD, University of Utah

Scoville, Alison: Assistant Professor, Biological Sciences; PhD, Utah State University

**Seidenstadt**, Robert: Lecturer, Psychology; PhD, University of New Hampshire

**Selski**, Daniel: Assistant Professor, Biological Sciences; PhD, University of Rochester

**Selzler**, Shannon: Lecturer, Teaching Elementary, Adolescent and Young Children; MS, Walden University

**Sevigny**, Laurie: Lecturer, Teaching Elementary, Adolescent and Young Children

**Sheeran**, Lori: Associate Professor, Anthropology; PhD, Ohio State University Columbus

Shields, Robert: Assistant Professor, Information Technology & Administrative Management; PhD, University of Washington

**Shiver**, Janet: Lecturer, Mathematics; PhD, University Georgia, Athens

**Shiver**, Lamar: Professor, Music; DMA, University of Georgia, Athens

Shriner, Sylvia: Lecturer, Asia University America Program; MA, Central Washington University

**Singh**, Vijay: Professor, Music; MS, Portland State University

**Sipic**, Toni: Assistant Professor, Economics; PhD, University Oregon

Sledge, Andrea: Associate Professor/ Phased Retiree, Language, Literacy, & Special Education; PhD, University of Arizona

**Sloan**, Teresa: Professor, Aviation; MA, Gonzaga University

**Smith**, Bret: Associate Professor, Music; PhD, University of Michigan

Smith, Carlo: Assistant Professor, Finance & Supply Chain Management; PhD, University of Tennessee, Knoxville

Smith, David: Lecturer, Philosophy & Religious Studies; PhD, Temple University

**Smith**, Margaret: Lecturer, Accounting; MBA, Gonzaga University

**Smith**, Michael: Professor, Theatre Art; MFA, University of Oklahoma

**Smoke**, Jane: Lecturer, Educational Foundations and Curriculum; MED, Seattle University

**Snedeker**, Jeffrey: Professor, Music; DMA, University of Wisconsin, Madison

Soelling, Mark: Senior Lecturer, Psychology; PhD, California School Professional Psychology

**Solum**, Chloe: Assistant Coach, Athletics; BS, North Dakota State University

**Sorenson**, Patricia: Lecturer, Educational Foundations and Curriculum; AB, Gonzaga University

**Sorey**, Tim: Associate Professor, Chemistry; PhD, Montana State University, Bozeman

**Sparling**, Greg: Head Coach, Athletics; BA, Central Washington University **Spencer**, Emelie: Senior Lecturer, Music; MM, Central Washington University

Spybrook, Janet: Assistant Professor, Language, Literacy, & Special Education; EDD, University of San Francisco

St.George, Gerald: Lecturer, Educational Foundations and Curriculum; MED, Central Washington University

**Staab**, Tobias: Lecturer, Communication; MED, Central Washington University

Stacy, Gerald: Senior Lecturer, English; PhD, Bowling Green State University, Fireland

**Stacy**, Ian: Lecturer, History; MA, Central Washington University

**Stahelski**, Anthony: Professor/ Phased Retiree, Psychology; PhD, University of California, Los Angeles

**Stange**, Ericka: Lecturer, Sociology; MA, University of Albany

**Stein**, Stephanie: Professor, Psychology; PhD, University of Oregon

**Stein**, Stephen: Lecturer, Mathematics; PhD, Capella University

**Stinson**, Jeffrey: Assistant Professor, Management; PhD, University of Oregon

**Stoddard**, Cody: Assistant Professor, Law & Justice; MA, Boise State University

**Stoddard**, Shari: Associate Professor, Art; PhD, Indiana University

**Storey**, Desi: Head Coach, Athletics; BS, Central Washington University

**Strawn**, Jessica: Lecturer, Sociology; MA, Washington State University

**Street**, Elizabeth: Professor, Psychology; DED, West Virginia University, Morgantown

Stryker, Gabrielle: Assistant Professor, Biological Sciences; PhD, Johns Hopkins University

**Sun**, Key: Professor, Law & Justice; PhD, Rutgers University

**Sun**, Lixing: Professor, Biological Sciences; PhD, State University of New York

Sund, James: Lecturer, University Math Center; MS, Central Washington University

Sungi, Simeon: Lecturer, Law & Justice; MA, Indiana State University

**Sutphin**, Christine: Professor, English; PhD, University of Oregon

**Switzer**, Carissa: Lecturer, Nutrition Exercise & Health Science

**Szabo**, Danielle: Lecturer, Nutrition Exercise & Health Science

**Szal**, Dennis: Assistant Professor, Advanced Programs; EDD, University of Wyoming

**Szeliga**, Walter: Lecturer, Geological Sciences; PhD, University of Colorado

Szpek, Heidi: Associate Professor, Philosophy & Religious Studies; PhD, University of Wisconsin, Madison

**Takei**, Hideki: Assistant Professor, Information Technology & Administrative Management; DBA, Southrn New Hampshire University

**Taussig-Simpson**, Gretchen: Lecturer, Nutrition Exercise & Health Science; MS, Central Washington University

**Temple**, Kathryn: Assistant Professor, Mathematics; PhD, University of Wisconsin

**Tenerelli**, Thomas: Assistant Professor, Economics; PhD, University of Chicago

**Thomas-Bradley**, Carin: Professor, Chemistry; PhD, University of Nevada, Reno

**Thompson**, James: Associate Professor, Accounting; PhD, University of Oklahoma

**Tidd**, Ronald: Professor, Accounting; PhD, University of Minnesota, Twin Cities

**Tietz**, Janice: Lecturer, Educational Foundations and Curriculum

**Tolin**, Philip: Professor/ Phased Retiree, Psychology; PhD, University of Iowa, Iowa City

**Tolzin**, Keith: Lecturer, Industrial & Engineering Technology; PhD, Walden University

**Trimble**, Richard: Lecturer, Finance & Supply Chain Management; PhD, Arizona State University, Tempe

**Trudgeon**, Richard: Senior Lecturer, Mathematics; MA, Gonzaga University

Trumpy, Robert: Assistant Professor, Information Technology & Administrative Management; EDD, Seattle University

Tsai, Shu-Fei: Assistant Professor, Language, Literacy, & Special Education; PhD, University of Washington

Turcotte, Karen: Senior Lecturer, Philosophy & Religious Studies; MA, Central Washington University

**Turnbull**, Scott: Lecturer, Political Science; JD, Seattle University of Law

**Uebelacker**, Morris: Professor, Department of Geography; PhD, University of Oregon

Underhill, Jason: Lecturer, Aviation; BS, Central Washington University Unruh, Angela: Senior Lecturer, Information Technology & Administrative Management; MBA, University of Montana

Unruh, Richard: Assistant Professor, Physical Education, School and Public Health; EDD, University of Montana

Upperman, Philippe: Lecturer, Information Technology & Administrative Management; MA, Seattle University

Vaagen, Lindsey: Lecturer, Sociology; MSW, Eastern Washington University

Van, Peter: Assistant Professor, Physical Education; School and Public Health; PhD, University Idaho

VanDyke, Carly: Assistant Coach, Athletics; BA, Carroll College Mt

**Vendsel**, Jeffrey: Lecturer, Communication; BA, San Francisco State University

Volyn, Scott: Lecturer, Communication; JD, University of Idaho

**Wade**, Suzanne: Lecturer, Department of Geography; MS, Central Washington University

Wagner, Ronald: Associate Professor, Biological Sciences; PhD, Oregon State University

Wahle, Charles: Lecturer, Information Technology & Administrative Management; MED, Central Washington University

Walker, Sharryn: Assistant Professor, Language, Literacy, & Special Education; PhD, University of Toledo

Walker, Teresa: Assistant Professor, Teaching Elementary, Adolescent and Young Children; MED, Southwestern College, Kansas Wallace, Michael: Lecturer, Information Technology & Administrative Management; MDI, Nyack Alliance Theological Seminary

Wallen, Norman: Lecturer, Music; MA, Central Washington University

Wallin, Jason: Lecturer, Sociology; BS, Central Washington University

Walsh, Megan: Assistant Professor, Department of Geography; PhD, University of Oregon

Wang, Fang: Assistant Professor, Finance & Supply Chain Management; PhD, West Virginia University

Wang, Fen: Assistant Professor, Information Technology & Administrative Management; PhD, University of Maryland

Wang, Penglin: Professor, Anthropology; PhD, University of Hawaii, Manoa

**Ward**, Christopher: Lecturer, Veterans Center; IND

Ward, Paul: Assistant Professor, Physical Education, School and Public Health; PhD, University of Northern Colorado

Wassell, Charles: Associate Professor, Economics; PhD, University of Wisconsin, Madison

Watkins, Shani: Lecturer, Information Technology & Administrative Management; MED, Central Washington University

Watkins, Tracee: Assistant Professor, Nutrition Exercise & Health Science

Watson, Becky: Lecturer, Communication; DED, University Nevada Las Vegas

Weaver, Robert: Lecturer, Biological Sciences; MS, Central Washington University Weber, Todd: Assistant Professor, Management; PhD, University North Carolina Chapel, Hl

Weidenaar, Gary: Assistant Professor, Music; DMA, University of Kansas

Wentworth, Sandra: Assistant Professor, Language, Literacy, & Special Education; PhD, University of Southern Mississippi

Whelan, Lynne: Lecturer, Family & Consumer Sciences; MS, University of Wyoming

Whelan, Michael: Associate Professor, Industrial & Engineering Technology; PhD, Iowa State University

Whitcomb, Katharine: Associate Professor, English; MFA, Norwich University

Whitehill, Caroline: Lecturer, Geological Sciences; PhD, Stanford University

Whitmire, Jane: Assistant Professor, Mathematics; PhD, University of Montana

Whitworth, Nick: Assistant Coach, Athletics

**Wibe**, Maria: Senior Lecturer, Music; PhD, Russian Institute of Art History

Wickstrom, Stefanie: Senior Lecturer, Foreign Languages; PhD, University of Oregon

Width, Dale: Senior Lecturer, Mathematics; MA, Central Washington University

Willard, Teri: Associate Professor, Mathematics; EDD, Montana State University, Bozeman

Williams, Garey: Lecturer, Music; MM, Central Washington University

Williams, Henry: Professor, Advanced Programs; EDD, East Tennessee State University Williams, Wendy: Associate Professor, Psychology; PhD, University of California, San Diego

Willis, Scott: Senior Lecturer, Law & Justice; MS, Central Washington University

Wilson, Asher: Lecturer, Accounting; JD, University of Washington

Wilson, Dale: Professor, Aviation; MS, Central Missouri State University

Wilson, Theresa: Lecturer, Management; MBA, University of Washington

Winberry, Jeremy: Research Associate, Geological Sciences; PhD, Pennsylvania State University, University Park

**Wirth**, Rex: Professor, Political Science; PhD, University of Tennessee, Knoxville

**Wise**, Mary: Professor, Library Services; MLS, California State University, Fullerton

Woodcock, Bruce: Lecturer, Mathematics; MED, Western Washington University

Woods, Robert: Senior Lecturer, University English Second Language; MA, Macquarie University Australia

Woody, Susan: Associate Professor, Nutrition Exercise & Health Science; PhD, University of California, Davis

Wretzel, Joshua: Lecturer, Philosophy & Religious Studies; PhD, Binghamton University

**Wu**, Keke: Assistant Professor, Management; PhD, University Alabama, Tuscaloosa

**Wyatt**, Marla: Professor, Family & Consumer Sciences; PhD, Ohio State University Columbus

**Xiao**, Hong: Professor, Sociology; PhD, University of Connecticut

Yanez, Socorro: Lecturer, Educational Foundations and Curriculum; MED, Central Washington University

Yang, Taiqian: Professor, Industrial & Engineering Technology; PhD, University of Washington

Yarberry, Leonard: Lecturer, Undergraduate Studies; MA, University of Washington

Yastchenko, Alena: Lecturer, Undergraduate Studies; MS, Central Washington University Yoon, Bang-Soon: Professor, Political Science; PhD, University of Hawaii, Manoa

Young, Michael: Associate Professor, Finance & Supply Chain Management; PhD, University of Missouri, Columbia

Young, Therese: Assistant Professor, Physical Education, School and Public Health; MA, Texas Womans University

Zacharias, Karen: Lecturer, Communication; BS, Oregon State University Zeiger, Jeffrey: Lecturer, Family & Consumer Sciences; EDD, Oklahoma State University, Stillwater

Zempel, Gregory: Lecturer, Law & Justice; JD, University of Puget Sound

**Zentner**, Nicolaus: Lecturer, Geological Sciences; MS, Idaho State University

**Zhong**, Ke: Assistant Professor, Accounting; PhD, Southern Illinois University

## **Distinguished Professor Awards**

In 1977, Central Washington University initiated an annual program to honor professors who excel in teaching, research or artistic accomplishment, and public service. The honorees' names are placed on a continuing plaque and they receive a monetary bonus during the award year. The honorees to date are:

#### 1977

**Chester Z. Keller**, Professor of Philosophy, PhD, University of Southern California, Distinguished Teaching

#### 1978

**Curt A. Wiberg**, Professor of Biology, MS, University of Oregon, Distinguished Teaching

#### 1979

William F. Cutlip, Professor of Mathematics, PhD, Michigan State University, Distinguished Teaching

Martin R. Kaatz, Professor of Geography, PhD, University of Michigan, Distinguished Public Service

**George Macinko**, Professor of Geography, PhD, University of Michigan, Distinguished Research

#### 1980

**Dee R. Eberhart**, Professor of Geography, MA, Northwestern University, Distinguished Public Service

**Kenneth A. Hammond**, Professor of Geography, PhD, University of Michigan, Distinguished Teaching

**Stamford D. Smith**, Professor of Biology, PhD, University of Idaho, Distinguished Research

## 1981

**Robert D. Bentley**, Professor of Geology, PhD, Columbia University, Distinguished Research

Marco G. Bicchieri, Professor of Anthropology, PhD, University of Minnesota, Distinguished Teaching

#### 1982

Barbara M. Brummett, Associate Professor of Music, MM, Wichita State University, Distinguished Public Service

Patrick R. O'Shaughnessy, Professor of Accounting, MBA, Washington State University, Distinguished Teaching

**Robert M. Panerio**, Professor of Music, MEd, Central Washington University, Distinguished Research

#### 1023

**Terry L. DeVietti**, Professor of Psychology, PhD, University of Utah, Distinguished Research

Leo D. Nicholson, Professor of Health, Human Performance and Recreation, MEd, Central Washington University, Distinguished Teaching

Dorothy M. Purser, Associate Professor of Health, Human Performance and Recreation, MEd, University of Idaho, Distinguished Public Service

## 1984

**Donald W. Cummings**, Professor of English, PhD, University of Washington, Distinguished Teaching

**Leonard C. Duncan**, Professor of Chemistry, PhD, University of Washington, Distinguished Research

John F. Moawad, Associate Professor of Music, MEd, Central Washington University, Distinguished Public Service

#### 1985

Ronald J. Boles, Professor of Science Education and Biology, PhD, University of Wisconsin, Distinguished Teaching

Allen C. Vautier, Associate Professor of Accounting, JD, University of Washington, Distinguished Public Service

Robert E. Pacha, Professor of Biology, PhD, University of Washington, Distinguished Research

#### 1986

Kenneth A. Briggs, Professor of Health Education, EdD, University of Northern Colorado, Distinguished Public Service

William B. Owen, Professor of Mathematics, PhD, Colorado State University, Distinguished Teaching

## 1987

**Anthony Canedo**, Professor of English, PhD, University of Washington, Distinguished Teaching

Wolfgang W. Franz, Professor of Economics, PhD, Washington State University, Distinguished Public Service

Cynthia S. Krieble, Professor of Art, MFA, Stanford University, Distinguished Artistic Accomplishment

#### 1988

**Richard S. Mack**, Professor of Economics, PhD, Colorado State University, Distinguished Research

#### 1989

Laura L. Appleton, Professor of Sociology, PhD, University of California at Santa Barbara, Distinguished Teaching

James E. Brooks, Professor of Geography and Land Studies, PhD, University of Washington, Distinguished Public Service

Roger S. Fouts, Professor of Psychology, PhD, University of Nevada, Reno, Distinguished Research

#### 1990

**Peter M. Burkholder**, Professor of Philosophy, PhD, Tulane University, Distinguished Teaching

**Edward P. Klucking**, Professor of Biology, PhD, University of California at Berkeley, Distinguished Research

#### 1991

Makiko Doi, Associate Professor of Library Science, MLS, University of Washington, Distinguished Public Service

**Thomas J. Kerr**, Professor of Political Science, PhD, Syracuse University, Distinguished Teaching

Christian I. Schneider, Professor of German, PhD, University of California at Santa Barbara, Distinguished Research

#### 1992

**Elbert E. Bilyeu**, Professor of Spanish, PhD, University of Colorado, Distinguished Teaching

**Donald J. Cocheba**, Professor of Economics, PhD, Washington State University, Distinguished Research

#### 1993

**Robert J. Carbaugh**, Professor of Economics, PhD, Colorado State University, Distinguished Teaching

Glenn A. Madsen, Professor of Education, EdD, University of Oregon, Distinguished Public Service

#### 1994

William V. Dunning, Professor of Art, MFA, University of Illinois, Distinguished Artistic Accomplishment

**Gary W. Heesacker**, Professor of Accounting, MBA, University of Washington, CPA, Distinguished Public Service

**David G. Lygre**, Professor of Chemistry, PhD, University of North Dakota, Distinguished Teaching

#### 1995

**Carlos E. Martín**, Professor of Spanish, PhD, Northwestern University, Distinguished Teaching

**Kent D. Richards**, Professor of History, PhD, University of Wisconsin, Distinguished Research

#### 1996

A. James Hawkins, Professor of Theatre Arts, MA, Sacramento State College, Distinguished Public Service

**John Q. Ressler**, Professor of Geography, PhD, University of Oregon, Distinguished Teaching

Carolyn C. Schactler, Professor of Clothing and Textiles, MA, Central Washington University, Distinguished Research/ Artistic Accomplishment and Invention

#### 1997

James L. Nimnicht, Professor of Business Administration, PhD, University of Nebraska-Lincoln, Distinguished Teaching

Roger H. Yu, Professor of Physics, PhD, Montana State University, Distinguished Research

#### 1998

Morris L. Uebelacker, Associate Professor of Geography, PhD, University of Oregon, Distinguished Teaching

Hal J. Ott, Professor of Music, DM, Florida State University, Distinguished Research/ Artistic Accomplishment and Invention Norman J. Gierlasinski, Professor of Accounting, DB Administration, Nova University, Distinguished Public Service

#### 1999

Karen Jane Blair, Professor of History, PhD, State University of New York, Distinguished Research/ Artistic Accomplishment and Invention

**David Lawrence Gee**, Professor of Foods and Nutrition, PhD, University of California at Davis, Distinguished Teaching

## Stephen Charles Jefferies,

Professor of Health, Human Performance and Recreation, PhD, University of Oregon, Distinguished Public Service

#### 2000

Patricia Anne Callaghan, Professor of English, PhD, University of Oregon, Distinguished Public Service

**Terry Lynn Martin**, Professor of English, PhD, University of Oregon, Distinguished Teaching

## 2001

Ethan Alan Bergman, Professor of Family and Consumer Sciences PhD, University of Colorado, Distinguished Public Service

**Robert John Carbaugh**, Professor of Economics, PhD, Colorado State University, Distinguished Research

**Larry Dee Gookin**, Professor of Music, MM, University of Oregon, Distinguished Teaching

#### 2002

**David Michael Dard**a, Professor of Biological Sciences, PhD, University of California, Berkeley, Distinguished Teaching

Corwin King, Professor of Communication, PhD, Pennsylvania State University, Distinguished Public Service

Mark Warren Halperin, Professor of English, 2002, MFA, State University of Iowa, Distinguished Artistic Accomplishment/ Invention

#### 2003

**David Warner Carns**, Professor of Industrial and Engineering Technology, MS, Oregon State University, Distinguished Teaching

James G. Pappas, Professor of Education, EdD, Nova Southeastern University, Distinguished Public Service

## Alla Ditta Raza Choudry,

Associate Professor of Mathematics, PhD, University of Bucharest, Romania, Distinguished Research/ Artistic Accomplishment

#### 2004

## Bruce Christopher Palmquist,

Associate Professor of Physics and Science Education, PhD, University of Minnesota, Distinguished Public Service

Lisa Lee Weyandt, Professor of Psychology, PhD, University of Rhode Island, Distinguished Research/ Artistic Accomplishment

### 2005

Natalie Lefkowitz, Professor of Spanish and French, PhD, University of Washington, Distinguished Teaching

John Pickett, Professor of Music, DM, Indiana University, Distinguished Artistic Accomplishment

## 2006

Jan S. Bowers, Professor of Family and Consumer Sciences, PhD, Kansas State University, Distinguished Public Service

Keith A. Lewis, Professor of Art, MFA, Kent State University, Distinguished Research/ Artistic Accomplishment Vincent M. Nethery, Professor of Health, Human Performance, and Recreation, PhD, University of Oregon, Distinguished Teaching

#### 2007

Jeffrey Dippmann, Professor of Philosophy and Religious Studies, PhD, Northwestern University, Distinguished Public Service

Peter Jason Saunders, Professor of Economics, PhD, University of Colorado, Distinguished Research,/ Artistic Accomplishment and Invention

**Gerald Joseph Stacy**, Professor of English, PhD, Bowling Green State University, Distinguished Teaching

#### 2008

Martha J. Kurtz, Professor of Chemistry and Science Education, PhD, Arizona State University, Distinguished Public Service

**Scott M. Lewis**, Professor of Mathematics, PhD, Oregon State University, Distinguished Teaching

Chenyang Li, Professor of Philosophy, PhD, University of Connecticut, Distinguished Research/ Artistic Accomplishment

## 2009

Matthew Altman, Director of The William O. Douglas Honors College and Assistant Professor of Philosophy and Religious Studies, PhD, University of Chicago, Distinguished Non-Tenure Track Teaching

**Roxanne Easley**, Professor of History, PhD, University of Oregon, Distinguished Teaching

**Robert Holtfreter**, Professor of Accounting, PhD, University of

Nebraska, Distinguished Public Service

Joseph Powell, Professor of English, MFA, Florida International University, Distinguished Artistic Accomplishment

#### 2010

**Peter Gries**, Professor of Music, DM, University of Oregon, Distinguished Service

**Susan Lonborg**, Professor of Psychology, PhD, Ohio State University, Distinguished Teaching

Ruthi Erdman, Senior Lecturer, English, MA, Central Washington University, Distinguished Non-Tenure Track Teaching

#### 2011

Vijay Singh, Professor of Music, MS, Portland State University, Distinguished Artistic Accomplishment

**Sharon Rosell,** Professor of Physics, MS, University of Washington, Distinguished Non-Tenure Track Teaching

**Laila Abdalla,** Professor of English, PhD, McGill University, Canada, Distinguished Teaching

**Bobby Cummings,** Professor of English, PhD, University of Michigan, Distinguished Public Service

## 2012

Anthony Gabriel, Professor of Geography, PhD, University of Guelph, Canada, Distinguished Research

Jeffrey Snedeker, Professor of Music, DMA, University of Wisconsin, Madison, Distinguished Service

## **Emeritus Faculty**

Emeritus Faculty as of January 31, 2012 **Agars**, Janis John (1964): Professor, Department of Art, BA, University of Washington; MFA, Washington State University

Alawiye, Osman (1989): Professor, Department of Education, 2005; BA, Dakota Wesleyan University; MA, University of South Dakota; PhD, New Mexico State University

Alexander, James M. (1965): Professor, Department of Anthropology, 2001; AB, University of New Mexico; MS, Clemson University; PhD, University of Washington (SeaTac)

Allen, Helen D. (1965): Assistant Professor, Library Services, 1975; AB, Earlham College, Indiana; MALS, George Peabody College

Alumbaugh, Richard (1969): Professor, Department of Psychology, 2002; BA, MS, Fort Hays Kansas State College; PhD, Texas Technological College (Steilacoom)

Amby, Joan M. (1996): Professor, Department of Family and Consumer Sciences, 2006; BA, MA, San Francisco State University; PhD, Oregon State University

Anderson, David R. (1969): Professor, Department of Mathematics, 1999; BA, Bradley University; PhD, Duke University

Andress, Joel M. (1966): Professor, Department of Geography, 1993; AB, University of Pacific; MS, PhD, University of California at Berkeley

Applegate, Jimmie R. (1970): Professor, Department of Education, 1996; BS, Oregon State University; BS, MS, Eastern Oregon College; PhD, Washington University, St. Louis

Arlt, Walter H. (1968): Associate Professor, Department of Health, Human Performance and Nutrition, 2000; BS, Washington State University; MEd, Central Washington University

Bagamery, Bruce (1988): Professor, Department of Finance & Supply Chain Management, 2011; BA, University of Toledo; MA, University of Toledo; PhD, Northwestern University

Basler, David D. (1960): Professor, Department of Education, 1992; BA, State College of Iowa; MA, PhD, State University of Iowa

Beamer, Adrian L. (1957): Assistant Professor, Department of Health, Human Performance and Nutrition, 1983; BAEd, MEd, Eastern Washington University

Beardsley, Eric R. (1959): Associate Professor, Department of Health, Human Performance and Nutrition, 1986; BAEd, Central Washington University; MS, Springfield College

Beath, Linda S. (1992): Professor, Department of Education, 2007; BA, MA, Western Washington University; PhD, University of Oregon

Beed, Galer W. (1973): Professor, Department of Industrial and Engineering Technology, 2001; BS, Oregon State University; MA, San Jose State College; EdD, University of Arkansas

Bennett, Robert B. (1967): Professor, Department of Physics, 1989; BA, Willamette University; MA, PhD, University of Oregon

**Benson**, William (1968): Professor, Department of Sociology, 2000; BA, PhD, Washington State University

Bentley, Robert (1969): Professor, Department of Geology, 1997; BS, Oregon State University; PhD, Columbia University

Berg, Walter L. (1955): Professor, Department of History, 1982; BA, University of Puget Sound; MA, PhD, University of Washington

Bilyeu, Elbert E. (1970): Professor,

Department of Foreign Language, 1995; BS, Southwest Missouri State College; PhD, University of Colorado

Bird, Herbert A. (1947): Professor, Department of Music, 1978; BM, Oberline Conservatory of Music; MA, Teachers College, Columbia University; ADM, Boston University

Blanton, Thomas L. (1967): Professor, Department of English, 1996; BA, MA, Washington State University

Bowman, Andrea C. (1989): Professor, Department of Education, 2003; BA, San Jose State University; MAE, Northern Arizona University; EdD, Arizona State University

Boyungs, Janice C. (1965): Associate Professor, Department of Health, Human Performance and Nutrition, 1998; BS, Western Illinois University; MEd, Central Washington University

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