The College of Agricultural, Human, and Natural Resource Sciences generates and disseminates knowledge about physical, biological, social, and economic aspects of agriculture, natural resources, human, consumer, and family sciences that is vital to the well being of our state and nation. The college also offers formal classroom instruction, ongoing research programs, and outreach programs through Extension. All of these contribute to the development of Washington’s human and natural resource professionals.

The college offers approximately 20 majors that prepare professionals for careers in agricultural systems, natural resource management, food production, processing, and distribution, as well as in areas of health, apparel and textiles, and interior and landscape design. Students receive a solid base in science with a technological grounding that enables them to remain abreast of the dynamic fields of agricultural, human, and natural resource sciences. Study programs also help prepare graduates to live and work in our environmentally conscious and globally focused economy and society. All degree programs provide students with opportunities for interactions with researchers in the classroom and in their labs/studios, and with hands-on experiences in their fields through internships.

Agricultural and natural resources are two of the most important industries in the state of Washington. Although the number of individuals directly involved in production agriculture has declined, the overall agricultural industry remains Washington’s number one industry economically and offers an increasing number of job opportunities. Programs in agriculture and natural resource sciences prepare students for a wide variety of careers, including business and finance, economics, communications, food processing, natural resource management, pest and plant disease management, and sales and distribution of food products. Graduates are qualified to be agricultural producers, land managers, agriculture teachers, landscape architects, or industry representatives for agriculture or natural resources. Students who earn graduate degrees are prepared to follow scientific careers in research, college teaching, Extension, and highly technical pursuits in industry and government.

The College of Agricultural, Human, and Natural Resource Sciences offers unique opportunities to prepare students interested in pursuing a career in veterinary medicine. Animal Sciences and Natural Resource Sciences have programs that allow students to prepare for admission to veterinary school and earn a baccalaureate degree simultaneously.

College programs in the human sciences prepare students for positions as teachers of family and consumer sciences, human science and community agency managers, and directors of aging programs. Other careers include apparel design and merchandising, interior design, consumer services, or commercial food service. Students who graduate are prepared to teach in public schools, to work in adult education, and to administer and supervise preschool and child care centers. Those who earn advanced degrees are educationally qualified to fill positions in research, extension, governmental agencies, foreign services, college teaching, and business.

Admission

The requirements for admission to the College of Agricultural, Human, and Natural Resource Sciences are the same as those for WSU. High school students planning to enroll in the college are urged to work closely with their counselors and with representatives from WSU in developing an appropriate background of high school courses in biological, physical, and social sciences, mathematics, and other elective areas.

Transfer Students

Most transfer students who have completed one year in another college or university ordinarily will have no difficulty in completing the requirements for one of the bachelor’s degrees in three additional years.

Some students who have completed two years before transferring could have some difficulty in completing requirements in two additional years because of required courses and course sequences. To avoid this difficulty, students enrolled in other colleges or universities but planning to transfer to the College of Agricultural, Human, and Natural Resource Sciences should concentrate as much as possible on general education, science, and other departmental requirements normally scheduled during the freshman and sophomore years, with particular attention to those subjects required for the intended majors. Students at community colleges in the state should check to see whether there is an articulation agreement between their institution and the WSU program of interest. Students should also contact a College of Agricultural, Human, and Natural Resource Sciences advisor in their area of interest.

Requirements for Graduation

Requirements for graduation in the College of Agricultural, Human, and Natural Resource Sciences vary according to the major and the degree to be granted, as described in the departmental sections of this catalog. The student and the advisor jointly have the responsibility of selecting courses to fit the student’s native ability and professional interests, consistent with departmental and general education requirements. Students are encouraged to do more than satisfy the minimum requirements.

Agriculture and Natural Resource Science Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Department</th>
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<tbody>
<tr>
<td>Bachelor of Science</td>
<td>CAHNRS Academic Programs</td>
</tr>
<tr>
<td>Agricultural and Food Systems</td>
<td>Agricultural and Food Business Economics, Agricultural Education, Agricultural Technology and Production Management, Agriculture and Food Security, and Organic Agriculture Systems</td>
</tr>
<tr>
<td>Animal Sciences</td>
<td>Animal Sciences</td>
</tr>
<tr>
<td>(including Industry, Production Management, and Science/Pre-Veterinary Medicine)</td>
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<tr>
<td>Economic Sciences</td>
<td>Economic Sciences</td>
</tr>
<tr>
<td>Food Science</td>
<td>Food Science</td>
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<tr>
<td>Integrated Plant Sciences</td>
<td>Crop and Soil Sciences</td>
</tr>
<tr>
<td>Horticulture and Landscape Architecture</td>
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</tr>
<tr>
<td>(including Agricultural Biotechnology, Field Crop Management, Fruit and Vegetable Management, Nursery and Greenhouse Management, Landscape Design and Implementation, Turfgrass Management, and Viticulture and Enology)</td>
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<tr>
<td>Natural Resource Sciences</td>
<td>Natural Resource Sciences</td>
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<tr>
<td>(including Natural Resource Sciences and Wildlife Ecology)</td>
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</tbody>
</table>
The College of Business (CB) is dedicated to innovative teaching and learning, world-class research, and the pursuit of excellence in all levels of business education. The CB spans four campuses of Washington State University with the largest campus in Pullman and regional campuses located in Spokane, Vancouver, and the Tri-Cities. The CB conducts scholarly and applied research offering degree programs in a variety of business disciplines including hospitality business management as well as wine business management, and supplements these offerings through innovative online learning and exchange programs throughout the world.

The CB is among five percent of business schools worldwide to be accredited by the Association to Advance Collegiate Schools of Business (AACSB) at the bachelor, master, and doctoral levels, and is ranked 11th among business programs at public universities in the Western United States by US News and World Report 2007. In addition, the account programs maintain an additional specialized AACSB accreditation.

The College of Business is developing globally competent business leaders who will successfully drive the commercialization of innovation across disciplines. Through the College’s annual business plan competition and national venture forums, students drive the execution and delivery of transformational innovations. Students develop global competencies in study-abroad programs and international internships facilitated by the CD International Business program. The College of Business sends more students abroad than any other college at WSU.

With over 50 years of excellence in graduate education, the MBA curriculum focuses on the management of innovation to develop leaders who can successfully take new products to market. The WSU MBA program was named one of Princeton Review’s “Best Business Schools.” Graduate program offerings include an Executive MBA program, Online MBA, Full-time MBA, Professional MBA, Master of Accounting, and a Ph.D. in Business Administration. The doctor of philosophy in business prepares its graduates for careers in teaching and research positions and places students at prestigious research institutions.

Additionally, the Scott and Linda Carson Center for Professional Development equips students with the skills and knowledge necessary for personal and professional success.

**Areas of Study**

The college departments—accounting; entrepreneurship and information systems; finance and management science; international business; management; and marketing—offer the following majors for the Bachelor of Arts in Business Administration degree:

- **Accounting**
- **Entrepreneurship**
- **Finance** (six career tracks include Risk Management/Insurance and Real Estate)
- **International Business**
- **Management Information Systems (Operation or Organization tracks)**
- **Management and Operations**
- **Marketing**

Within the college a specialized Bachelor of Arts degree is offered in the area of Hospitality Business Management, with majors in:

- **Hospitality Business Management**
- **Wine Business Management**

Graduate work may be taken in business administration and accounting leading to Master and Doctor of Philosophy degrees.

**Minors**

The College of Business offers two minors, one in business administration and a second in hospitality business management. For specific information regarding minor requirements, see the Business Administration and Hospitality Business Management sections of this catalog.

**Admission**

Admission on the Pullman Campus is competitive and based on capacity. Students should certify into hospitality business management or a particular business major upon completion of 60 hours of credits and specific course and GPA requirements (see the certification requirements in the Business Administration section of this catalog). To be eligible to enroll in 300-400-level business or HBM courses, business and hospitality business management students must have certified in their respective majors upon completion of 60 hours of course work and meeting GPA and other certification requirements.

For specific information regarding the acceptability of college courses taken at other institutions in areas of study offered by the departments of the College of Business, prospective students should communicate with the appropriate department chair or the CB Advising Center.
Diversity, Recruitment, and Retention

The College of Business is strongly committed to diversifying its student body as well as to improving its retention and graduation rates of underrepresented students. The College strives to create an environment that is supportive and inclusive and where all students can succeed academically and professionally.

Business Degrees

The curricula of the College of Business lead to the following degrees:

**Pullman Campus Degrees**
- Bachelor of Arts, Business Administration
- Bachelor of Arts, Hospitality Business Management
- Master of Accounting
- Master of Business Administration
- Doctor of Philosophy, Business Administration

**Spokane Campus Degrees**
- Master of Business Administration, Executive Program

**Tri-Cities Campus Degrees**
- Bachelor of Arts, Business Administration
- Master of Business Administration

**Vancouver Campus Degrees**
- Bachelor of Arts, Business Administration
- Master of Accounting
- Master of Business Administration

THE EDWARD R MURROW COLLEGE OF COMMUNICATION

Lawrence Pintak, Founding Dean
Communication Addition, Room 101
509-335-7333
www.communication.wsu.edu

Communication is central both to a democratic society and to membership in the global community. The faculty of the Edward R. Murrow College of Communication is dedicated to creating knowledge and facilitating learning about the production and interpretation of messages. Combining programs that integrate fundamental communication domains, we are uniquely positioned to disseminate knowledge in a world where interpersonal and mediated communication converge.

We are dedicated to educating professional, ethical, and socially responsible citizens. Such an education shall provide students with an understanding of the social, political and ethical implications of communication. We are committed to developing in students a dedication to lifelong learning, communication skills, analytical and critical thinking skills, appreciation of diversity, and professional excellence. Our students learn through traditional teaching methods, innovative approaches to learning and application of professional skills and knowledge. In addition to undergraduate instruction, graduate education is an important component of our mission. Thus, we are also dedicated to guiding exceptional students’ development as teachers, researchers, and leading professionals.

Research is necessary to fully serve our constituencies including students, industry, policy makers, and the communication discipline. As active members of a Research I institution, we are dedicated to the pursuit of knowledge regarding the complex and multifaceted nature of communication. We pursue quality research that respects and is informed by diverse disciplines, perspectives, and methods and strive to contribute knowledge with both theoretical and practical implications. Because research enhances teaching, we aim to develop and maintain a mutually beneficial relationship between research and instruction.

As citizens, we endeavor to share our expertise and abilities with the broader community. We are committed to the advancement of the University and local, national and international communities through service activities beyond research and instruction. Such activities are exemplified by faculty outreach to various community and industry groups, and by faculty participation in decision making at all levels of the University.

Seeking understanding of communication and its role in society, teaching that understanding in the classroom and beyond, and applying our knowledge in the broader community thus comprise the mission of the College of Communication.

Named for its most illustrious alumnus, the Edward R. Murrow College of Communication is highly regarded nationwide by educators and professionals. It has won national and regional Emmys for student television productions, is nationally ranked 4th in television news and first in the Northwest for its public relations sequence, and has a faculty and student body with good gender and racial diversity.

Study in the College provides students exposure to state-of-the-art computer-based technologies. The Edward R. Murrow College of Communication has four computer labs, including: a writing lab, advanced video and graphics labs, data analysis lab, and a broadcast news lab; two television production studios, several video editing suites, radio/audio labs, and student-run radio and cable television stations.

The Edward R. Murrow College of Communication offers sequences in communication fields: journalism and media production (broadcasting and journalism), organizational communication, and strategic communication (advertising and public relations). The Murrow College offers the only comprehensive broadcast program in the state of Washington. The College is noted for cutting edge professional skill-building and theory, and is one of only a few programs in the nation that airs a daily, student-produced television newscast.

Admission

To certify a major in communication a student must meet the following minimum requirements:

2. Earn a grade no lower than C in Communication 295.

The Communication GPA and the cumulative GPA are averaged together. Students are placed in rank order based on their averaged GPAs. The top students are certified based on the number of available spots that semester, approximately 140 spots in Fall; 115 spots in Spring; and 40 spots in the Summer. The limitation is imposed due to limited space, equipment and faculty resources. Students transferring into the College with 55 or more credit hours should complete the certification requirements within two semesters. However, all students should apply to certify before earning 90 credit hours.

Note: COM 295 - All students must apply for Communication 295 Media Writing. Entrance to COM 295 is based on cumulative GPA, for transfer students it is based on the transfer GPA. The course should be taken in the second semester sophomore year or first semester junior year to graduate in four years. Applications are available online at www.communication.wsu.edu and are due in October for the Spring semester, and in March for the Summer and Fall semesters. A student should have completed at least 40 credits before applying to take COM 295.

Requirements for Graduation

Requirements for graduation in the College of Communication vary according to the major and the degree to be granted, as described in the departmental sections of this catalog. The student and the advisor jointly have the responsibility of selecting courses to fit the student's native ability and professional interests, consistent with departmental and general education requirements.

Degrees

The College of Communication offers programs of study leading to the following degrees:

**Degree**

**Bachelor of Arts, Communication**

**Emphasis**
- Advertising
- Applied Intercultural Communication
- Broadcast News
- Broadcast Production
- Journalism
- Organizational Communication
- Public Relations
- Communication, Organizations, and Culture
- Media, Health, and Social Issues

**Master of Arts, Communication**

**Doctor of Philosophy**
Master of Arts

- Counseling
- Curriculum and Instruction
- Educational Leadership (K-12)
- Educational Psychology
- English Language Learners (ELL)
- Higher Education Administration
- Literacy Education
- Special Education
- Sport Management

Master in Teaching

Doctor of Education

Doctor of Philosophy

COLLEGE OF ENGINEERING AND ARCHITECTURE

Candis Claiborn, Dean
Dana Hall, Room 146
509-335-5593
www.cea.wsu.edu

The College of Engineering and Architecture provides instruction, research, and public service in engineering, architecture, construction management, computer science, and materials science. The college offers degree programs in the College of Education are as follows:

- Architecture and Construction Management
- Chemical Engineering
- Civil Engineering
- Electrical Engineering
- Environmental Engineering
- Mechanical and Materials Engineering
- Mechanical Engineering and Public Service
- Materials Science

The college offers undergraduate degree programs of sufficient breadth to prepare students for elementary school, secondary school, and college instruction; specialists and researchers in a variety of educational fields; administrators for schools, colleges, and universities; and sport-related specialists for private and community agencies. The college also provides professional training in movement studies, athletic training, counseling, and psychology. It offers a variety of educational services to local school systems.

At the baccalaureate level, the General Education Requirements provide a foundation for professional work in the College of Education through offerings in the arts and humanities and in the social and natural sciences. Practical experiences are integrated with course work throughout professional preparation curricula.

For graduate programs in the College of Education offer advanced course work and field experience in education and human services. Certification programs in administration and school counseling are available at the graduate level. Doctoral programs focus on preparation of administrative personnel for the schools, counselors, and community colleges, as well as teacher educators and educational researchers. Graduate programs stress scholarship as a basis for all professional endeavors.

The College of Education also functions as a service institution for schools and communities in the state of Washington. Applied research services are provided to education and health-related agencies throughout the United States and internationally. Services of faculty are available for consultant purposes, school studies, professional development programs, school seminars, and community conferences in the departmental specialties.

Degrees

Degrees offered in the College of Education are as follows:

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<td>Teaching and Learning</td>
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<td>Bachelor of Arts, Sport Management</td>
<td>Educational Leadership and Counseling Psychology</td>
</tr>
<tr>
<td>Bachelor of Science, Kinesiology (Movement Studies or Health and Fitness)</td>
<td>Educational Leadership and Counseling Psychology</td>
</tr>
<tr>
<td>Bachelor of Science, Athletic Training</td>
<td>Educational Leadership and Counseling Psychology</td>
</tr>
<tr>
<td>Master of Education</td>
<td>Curriculum and Instruction</td>
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<td>Educational Leadership (K-12)</td>
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<td></td>
<td>Educational Psychology</td>
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<td>English Language Learners (ELL)</td>
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<td></td>
<td>Higher Education Administration</td>
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<td></td>
<td>Literacy Education</td>
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<td></td>
<td>Special Education</td>
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<td></td>
<td>Sport Management</td>
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</table>

The college prepares teachers for elementary school, secondary school, and college instruction; specialists and researchers in a variety of educational fields; administrators for schools, colleges, and universities; and sport-related specialists for private and community agencies. The college also provides professional training in movement studies, athletic training, counseling, and psychology. It offers a variety of educational services to local school systems.

At the baccalaureate level, the General Education Requirements provide a foundation for professional work in the College of Education through offerings in the arts and humanities and in the social and natural sciences. Practical experiences are integrated with course work throughout professional preparation curricula.

The mission of the certification programs in the College of Education is to furnish intensive preparation for persons who serve or aspire to serve in teaching, supervisory, special services, or administrative fields at all levels of education as well as in related areas of professional services. Candidates for certification must demonstrate knowledge and competencies at qualified levels of professional practice.

Graduate programs in the College of Education offer advanced course work and field experience in education and human services. Certification programs in administration and school counseling are available at the graduate level. Doctoral programs focus on preparation of administrative personnel for the schools, counselors, and community colleges, as well as teacher educators and educational researchers. Graduate programs stress scholarship as a basis for all professional endeavors.

The College of Education is a member of the American Association of Colleges for Teacher Education and the University Council on Educational Administration. The doctoral program in counseling psychology is accredited by the American Psychological Association. The athletic training program is accredited by the American Association of Health, Physical Education, Recreation, and Dance and the National Athletic Trainers' Association. The athletic training program is also accredited by the Commission on Accreditation of Athletic Training Education.

The College of Education offers degree programs which prepare teachers for elementary school, secondary school, and college instruction; specialists and researchers in a variety of educational fields; administrators for schools, colleges, and universities; and sport-related specialists for private and community agencies. The college also provides professional training in movement studies, athletic training, counseling, and psychology. It offers a variety of educational services to local school systems.

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The College of Education also functions as a service institution for schools and communities in the state of Washington. Applied research services are provided to education and health-related agencies throughout the United States and internationally. Services of faculty are available for consultant purposes, school studies, professional development programs, school seminars, and community conferences in the departmental specialties.

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<td>Sport Management</td>
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</table>

The College of Education offers degree programs which prepare teachers for elementary school, secondary school, and college instruction; specialists and researchers in a variety of educational fields; administrators for schools, colleges, and universities; and sport-related specialists for private and community agencies. The college also provides professional training in movement studies, athletic training, counseling, and psychology. It offers a variety of educational services to local school systems.

At the baccalaureate level, the General Education Requirements provide a foundation for professional work in the College of Education through offerings in the arts and humanities and in the social and natural sciences. Practical experiences are integrated with course work throughout professional preparation curricula.

The mission of the certification programs in the College of Education is to furnish intensive preparation for persons who serve or aspire to serve in teaching, supervisory, special services, or administrative fields at all levels of education as well as in related areas of professional services. Candidates for certification must demonstrate knowledge and competencies at qualified levels of professional practice.

Graduate programs in the College of Education offer advanced course work and field experience in education and human services. Certification programs in administration and school counseling are available at the graduate level. Doctoral programs focus on preparation of administrative personnel for the schools, counselors, and community colleges, as well as teacher educators and educational researchers. Graduate programs stress scholarship as a basis for all professional endeavors.

The College of Education also functions as a service institution for schools and communities in the state of Washington. Applied research services are provided to education and health-related agencies throughout the United States and internationally. Services of faculty are available for consultant purposes, school studies, professional development programs, school seminars, and community conferences in the departmental specialties.
Colleges and the Graduate School

Students majoring in degrees offered by the College of Engineering and Architecture are guided in selection of courses in arts and humanities, social sciences, intercultural studies, and communication to integrate general education requirements with needs of the major. Students are encouraged to take general education courses concurrently with courses in the major to facilitate effective integration of subjects for practical application. Students planning to transfer to Washington State University after completing general education requirements at other institutions should obtain sample schedules of studies for their proposed major at WSU to be familiar with specific requirements for that major.

Additional information on the College of Engineering and Architecture is available on-line.

Degrees

Degrees offered in the College of Engineering and Architecture at the Pullman campus are listed below (exceptions are listed in parentheses):

<table>
<thead>
<tr>
<th>Degree</th>
<th>Department or Area</th>
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</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>Architectural Studies</td>
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<td></td>
<td>Bioengineering</td>
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<td></td>
<td>Chemical Engineering</td>
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<td></td>
<td>Civil Engineering</td>
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<td></td>
<td>Computer Engineering</td>
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<tr>
<td></td>
<td>Computer Science (also Tri-Cities and Vancouver)</td>
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<td></td>
<td>Construction Management</td>
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<tr>
<td></td>
<td>Electrical Engineering</td>
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<td></td>
<td>Materials Science and Engineering</td>
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<tr>
<td>Master of Architecture</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Master of Engineering and</td>
<td>Architecture Management (Spokane, Tri-Cities, and</td>
</tr>
<tr>
<td>Technology Management</td>
<td>Vancouver only)</td>
</tr>
<tr>
<td>Master of Science</td>
<td>Biological and Agricultural Engineering</td>
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<td></td>
<td>Chemical Engineering</td>
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<tr>
<td></td>
<td>Civil Engineering</td>
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<tr>
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<td>Electrical Engineering (also Tri-Cities)</td>
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<td></td>
<td>Environmental Engineering (also Tri-Cities)</td>
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<td></td>
<td>Materials Science and Engineering</td>
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<td>Mechanical Engineering (also Tri-Cities and Vancouver)</td>
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<tr>
<td>Doctor of Philosophy</td>
<td>Biological and Agricultural Engineering</td>
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<td>Chemical Engineering</td>
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<td>Civil Engineering</td>
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<td></td>
<td>Computer Science (also Tri-Cities)</td>
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<tr>
<td></td>
<td>Electrical and Computer Engineering (also Tri-Cities)</td>
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<tr>
<td></td>
<td>Engineering Science</td>
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<td>Materials Science</td>
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<td></td>
<td>(Interdisciplinary Program)</td>
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<td></td>
<td>Mechanical Engineering (also Tri-Cities)</td>
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</tbody>
</table>

Engineering

Engineering practice is based on sound fundamental and practical knowledge of mathematics, the sciences, and liberal arts. Basic sciences and mathematics form the foundation on which engineering science and engineering design courses are built. Engineering courses prepare students to solve problems in society by quantitatively analyzing alternatives and making decisions guided by economics and an awareness of social and ethical issues.

The established undergraduate engineering programs offered by the college are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700. Accreditation for the bioengineering program and the Vancouver mechanical engineering and computer science programs has been applied for and is currently under consideration by ABET.

Graduate degrees in engineering, listed previously, are offered at the master's and doctoral levels. Students desiring graduate degrees in areas not listed may arrange with the program of interest to pursue a Master of Science in Engineering or Doctor of Philosophy in Engineering Science, allowing their programs of study to be designed for their particular needs and interests. Admission to engineering graduate programs is open to qualified students with a recognized degree in engineering, mathematics, a physical science, or a biological science. Additional information about specific areas of active research may be obtained by contacting the Associate Dean for Research or the appropriate department chair or school director.

Strong supporting courses are available from the Departments of Mathematics, Physics, Chemistry, and the Program in Biology. The graduate programs are also supported by many excellent University facilities such as the Water Research Center, Albrook Hydraulics Laboratory, Laboratory for Atmospheric Research, Wood Materials and Engineering Laboratory, Electron Microscopy Center, Food Engineering Pilot Plant, National Science Foundation Center for Design of Analog/Digital Integrated Circuits, Power Systems Engineering Research Center, Center for Multiphase Environmental Research, Center for Integrated Biotechnology, Bioengineering Research Center, Center for Materials Research, Center for Intelligent and Networked Systems, Center for Asphalt Technology, Washington State Transportation Research Center, and Engineering Education Research Center.

Computer Science

Computer science is the scientific foundation for computing, with roots in mathematics, the sciences, and engineering. Computer science encompasses the theory and techniques by which information is represented, processed, stored, and communicated. It deals particularly with the theory of algorithm and the step-by-step procedures for creating software to solve a problem or accomplish some goal. Students study computer software and hardware systems for efficient solution of practical problems. The Bachelor of Science program in computer science, offered through the School of Electrical Engineering and Computer Science, is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700. Curricular specializations available include computer engineering, databases, distributed computing, networks, network security, operating systems, and software engineering. Students use a variety of scientific workstations, graphic workstations, and microcomputer laboratories, all of which are networked to each other and to national networks. The Bachelor of Arts in Computer Science emphasizes breadth by requiring expertise in computer science and another area. The latter is accomplished through the requirements of a formal minor. The areas of specialization within computer science are the same as those listed for the Bachelor of Science degree. The degree is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, 410-347-7700.

Architecture and Construction Management

The School of Architecture and Construction Management offers programs of study in architecture and construction management. Practice in these fields relies on studies of the arts and humanities as well as the sciences and technologies. Courses are designed to provide both professional fields with the breadth and depth of knowledge necessary to respond to the environmental and cultural forces that continually shape the decision-making processes associated with each field. Programs of study in the school lead to the following degrees: a Bachelor of Science in Architectural Studies (a four-year degree) followed by a three-semester Master of Architecture degree that is accredited by the National Architectural Accreditation Board (NAAB), a Bachelor of Science in Construction Management (a four-year degree) that is accredited by the American Council for Construction Education (ACCE) and a non-accredited Master of Science in Architecture with emphasis on design theory or design-build management.

Admission

Students must apply and be accepted (certified) into the undergraduate programs in the college before they may enroll in 300-400-level courses in the major. When admitted to Washington State University, students are assigned advisors
in their indicated major for the period prior to their being certified in a major. Students may certify into a major after they have completed at least 24 semester credit hours and a prerequisite set of courses for the specific major.

Prospective students in engineering or computer science may apply for certification into the major of their choice upon completion of the applicable program requirements. Prospective students should contact the department or school administering their choice of majors to determine specific courses to be completed, application procedures, and application deadlines for certification. Factors considered in certification decisions include grades in science and math courses, grades in the major, overall grade point average, course repeats, professional experience and goals, and other indicators of the student’s potential for successful completion of the curriculum. Students denied certification into an engineering program may appeal to the Dean of the College of Engineering and Architecture for a review to ensure that departmental procedures were followed.

Prospective students in architecture are assigned to an architecture advisor and go through a step-by-step screening process scheduled at the end of the first year of study.

Prospective students in construction management are assigned to a construction management advisor and go through a step-by-step screening process scheduled at the end of the first year of study.

THE GRADUATE SCHOOL

Howard Grimes, Vice President for Research and Dean
French Administration Building, Room 324
509-335-6424
www.gradschool.wsu.edu

A graduate school has been described as a select community of scholars, faculty, and students dedicated to the extension of scholarship and the advancement of knowledge for the ultimate common good of mankind. The fields of intellectual and scholarly activity are numerous, and the student who contemplates graduate study should select a graduate school that offers a superior program in the chosen field. The student should study the accomplishments of the members of the graduate faculty, the adequacy of the research facilities, and the appropriateness of the curricula. For many, the Graduate School of Washington State University will provide advantageous and attractive opportunities.

Prospective graduate students should prepare themselves adequately, both in the fundamental subject matter necessary for their advanced work and in the other branches of learning, so that they may intelligently fulfill their responsibilities of leadership and service to society.

In a graduate program, a student is required to complete appropriate advanced courses, to participate in seminars, and to make an original contribution to knowledge. At least one academic year of graduate study, or the equivalent, is necessary for the completion of a program leading to a master’s degree. A doctor’s degree is awarded in recognition of distinctive scholarship. The period of study for the Doctor of Philosophy degree is at least three years (six semesters) beyond the baccalaureate degree. The period of study for the Doctor of Education degree is at least three years (six semesters) beyond the baccalaureate degree. Most advanced degree programs emphasize the preparation of students for careers as productive scholars, and accomplishments in research constitute an important part of the training. It is recognized also that those who earn advanced degrees often become the teachers in our institutions of learning. For this reason, in many departments special attention is given to the preparation of students for careers in the teaching profession.

Except as they apply to undergraduate students only, graduate students are subject to the usual procedures and regulations of the institution and to Graduate School rules and procedures as outlined on the following pages and in the Graduate School Policies and Procedures.

Opportunities for advanced study and research with members of the faculty are offered in the Graduate School. Graduate instruction and research are carried on in most of the regularly organized departments. Programs of study leading to advanced degrees are under the governance of the Graduate Studies Committee.

The faculty involved in graduate education consists of the president of Washington State University, the deans of the various academic units, the chairs of the academic departments and programs in which advanced degree programs are offered, and selected other members of the faculty. Members of the faculty involved in graduate education have the responsibility of offering courses limited to graduate students, guiding graduate seminars, serving as thesis advisors and members of thesis committees, administering Graduate School examinations (master’s, preliminary, and doctoral) and, from time to time, serving as members of the Graduate Studies Committee. Graduate students have opportunities for studying and working in a close professional relationship with these faculty members who have been selected because of their special competence and interest.

The overview below outlines the basic policies and procedures for the Graduate School at Washington State University; however it is not meant as a comprehensive discussion. Detailed policies and procedures may be found at www.gradsch.wsu.edu.

Degrees and Certificates Granted

Doctor of Philosophy

Programs leading to this degree are available in the following fields of study: agricultural economics, American studies, animal sciences, anthropology, biological and agricultural engineering, botany, business administration, chemical engineering, chemistry, civil engineering, communication, computer science, criminal justice, crop science, economics, education, electrical and computer engineering, engineering science, English, entomology, environmental and natural resource sciences, food science, geology, history, horticulture, individual interdisciplinary studies, materials science and engineering, mathematics, mechanical engineering, molecular biosciences, molecular plant sciences, neuroscience, nursing, nutrition and exercise physiology, pharmaceutical sciences, physics, plant pathology, political science, psychology, sociology, soil science, veterinary science, and zoology.

Master of Arts and Master of Science

The appropriate degree may be earned in most departments. (See the paragraph on degrees under the descriptive material for each department or other unit of the institution.)

Additional Degrees

Courses of study leading to the Doctor of Education and Master of Education degrees are offered in the Department of Educational Leadership and Counseling Psychology and the Department of Teaching and Learning. A student may undertake a program for the degree of Doctor of Design, Master of Accounting, Master of Architecture, Master of Business Administration, Master of Engineering and Technology Management, Master of Fine Arts, Master of Health Policy and Administration, Master of Nursing, Master of Public Affairs, or Master in Teaching.

Graduate Certificates

Formal graduate certificates convey that students have developed mastery of course material. Requirements for the Graduate Certificate vary with Department or Program. They typically consist of 9 to 12 credits of graded coursework. Certificate programs offered at WSU include Graduate Certificate in Bioethics, Graduate Certificate in Biotechnology Management, Graduate Certificate in Constraints Management, Graduate Certificate in Construction Project Management, Graduate Certificate in Contextualized Foreign Language Instruction, Graduate Certificate in Early Childhood Leadership and Administration, Graduate Certificate in Engineering Nanotechnology, Graduate Certificate in Exercise Science, Graduate Certificate in General Engineering and Technology Management, Graduate Certificate in Global Justice and Security Studies, Graduate Certificate in Health - Assistive Smart Environment Design, Graduate Certificate in Interdisciplinary Environmental Biogeochemistry, Graduate Certificate in Manufacturing Leadership, Graduate Certificate in Molecular Biosciences, Graduate Certificate in Nuclear Engineering, Graduate Certificate in Nurse Educator, Graduate Certificate in Nursing Leadership, Graduate Certificate in Post Master’s Family Nurse Practitioner, Graduate Certificate in Project Management, Graduate Certificate in Protein Biotechnology, Graduate Certificate in Reproductive Biology, Graduate Certificate in Six Sigma Quality Management, Graduate Certificate in Supply Chain Management, Graduate Certificate in Sustainable Agriculture, Graduate Certificate in Systems Engineering Management.

Admission

Graduates of Washington State University and other colleges and universities whose degrees are recognized by this institution and who meet the requirements
for graduate admission may be admitted to the Graduate School. For necessary
interpretations, inquiries should be directed to the dean of the Graduate
School. Prospective graduate students who have established superior academic
records and whose degree interests are compatible with the programs offered at
Washington State University are invited to apply for admission to the Graduate
School.

Students who contemplate entering the Graduate School should apply
online from the Graduate School Web site at www.gradschool.wsu.edu. For
admission to the Graduate School, Washington State University requires official
transcripts from each of the following: (1) colleges or universities attended for
any undergraduate course work; (2) colleges or universities from which any
degrees have been granted or are expected; (3) colleges or universities showing
graduated-undergraduate level (including doctoral) course work taken after the bachelor’s
degree. Note: Students intending to request transfer credit for their program
of study will need to submit official transcripts from colleges or universities
showing such credit. Departments and programs are free to request additional
transcripts as deemed appropriate. Official transcripts are those mailed directly
to the Graduate School from the registrar of the institution attended. Complete
credentials should be on file at least one month before registration. Transcripts
from other institutions cannot be returned. Records of previous work at
Washington State University need not be submitted.

In general, admission to the Graduate School on regular student status requires
at least a B (3.00 on a 4.00 scale) cumulative grade point average for
graded undergraduate work. Admission is to be on the basis of graduate study
elsewhere, when it has been accomplished in a recognized graduate school with
at least a B (3.00) average in 12 or more semester hours of graded graduate work
beyond the bachelor’s degree. Provisional admission may be granted to those
students recommended by a department whose average is below 3.00, provided
their total record indicates a high probability of success.

Admission of a student from a foreign university may be approved by
the dean of the Graduate School if the student presents a superior academic
record, furnishes satisfactory evidence of adequate ability in English, and has
sufficient financial resources. Such applications should be completed at least
six months in advance of the proposed date of enrollment in the Graduate
School. Applicants who attended school outside the United States or Canada
must submit a course-by-course evaluation report of their foreign credentials
from the WSU-approved credential evaluation service (see the WSU Apply
website for complete information). International students who have undertaken
graduate study in other institutions will be accepted only after evaluation of
their undergraduate records, as well as their performance in graduate study, and
the minimum criteria, as described above, will apply.

Because of limitations within certain departments, it may be necessary to
deny admission to some qualified applicants. Students who come to Washington
State University before receiving the admission certificate do so at their own
risk. The complete policies and procedures regarding admissions can be found
at www.gradschool.wsu.edu.

Transfer of Graduate Credits

Appropriate credits (with a grade of B or higher) earned in other accredited
graduate schools may be applied to a limited extent toward an advanced
degree. The number of such hours is limited to no more than half of the total
graded course credits required by the program that is listed on the Program of
Study. Individual departments/programs may choose to limit transfer credits
to an amount less than what is specified above. Use of WSU credit earned
prior to formal admission to the Graduate School is restricted. For necessary
interpretations, inquiries should be sent to the dean of the Graduate School.

Summer Sessions

Credit earned during summer sessions of Washington State University may be
applied in the same manner and subject to the same rules and regulations as
credit earned during fall and spring semesters.

In a number of departments there are unusually good opportunities for
research during the summer months. Summer work in the College of Education
is planned especially to meet the needs of teachers and administrators.

Graduate Work Through WSU Online

Credit earned in graduate-level courses taken through WSU Online will be
accepted on graduate student programs without limit, subject only to customary
admission and program approvals.

No extension credits from other institutions, or work done by correspondence
with this or any other institution, or credit earned by special examination may
be used to meet advanced degree requirements.

Graduate Study by Seniors

Seniors who have at least a 3.00 grade point average in the last 60 hours of their
undergraduate work at Washington State University may register for up to 6
semester hours of work in the Graduate School in excess of the number of hours
required to complete the bachelor’s degree. Graduate School approval is required
at the time of registration. Only grades of B or higher may be applied toward
an advanced degree. Work done by an undergraduate under other conditions
may not be applied toward an advanced degree.

Seniors who wish to enroll in 500-level courses must obtain approval of
the major advisor and the chair of the department or program in which the
course is offered.

Select Graduate Admission Program

The SGA Program is to encourage outstanding undergraduate students with top
academic records to remain at WSU for a graduate degree by (1) extending an
early offer of admission and support to outstanding candidates, (2) removing
financial and other costs associated with regular application, and (3) potentially
reducing the total number of combined semesters required to complete the
undergraduate/graduate degree (without reducing the credit requirements for
either).

Registration

All degree-seeking graduate students must maintain continuous enrollment
in the Graduate School, registering for each semester excluding summer
session from the time of first enrollment until all requirements for the degree
are completed. Continuous enrollment may be maintained through: 1) full-
time enrollment, 2) part-time enrollment, 3) continuous doctoral status, or 4)
approved leave of absence.

Degree-seeking students who fail to maintain continuous enrollment or
official leave status for up to two consecutive semesters (excluding summer)
must complete a re-enrollment form to re-enroll and will be assessed a fee.
Re-enrollment requires departmental approval and is not guaranteed. Degree-
seeking students who fail to reenroll after two consecutive semesters (excluding
summer) will be dropped from the University. Students who want to be
readmitted to the program will be required to reapply and pay an application
fee. Readmission is not guaranteed.

Non-degree-seeking students who are not enrolled for up to four consecutive
semesters (excluding summer) must complete a re-enrollment form and pay
a reenrollment fee. Re-enrollment requires departmental approval and is not
guaranteed. After four consecutive semesters (excluding summer) of non-
enrollment, students will be dropped from the university. Students who want to
be readmitted to the program will be required to reapply and pay an application
fee. Readmission is not guaranteed.

Special Projects or Independent Study (600), Master’s Research, Thesis,
and/or Examination (700), Master’s Special Problems, Directed Study, and/or
Examination (702), and Doctoral Research, Dissertation, and/or Examination
(800) shall have as prerequisite regular or provisional student status in the
Graduate School.

Registration Policy for Graduate Students Completing Degree

Requirements

Graduate students must register for a minimum of two 700, 702, or 800
credits during the semester or summer session in which they take their final
examinations. Fall and spring semesters and summer session officially end at the
time final grades are due in the Registrar’s Office. Examinations are not normally
scheduled between regular terms. However, students who have received special
permission from the Graduate School to schedule final master’s or doctoral oral
examinations in the interim nonclass period after the end of a term will be
required to register for the following semester or summer session.

Scholarship Standards

A student must earn a 3.00 grade point average for all course work (including
all courses listed on the program and other graduate upper- and lower-division
courses). No work of B- grade or less may be dropped from a program, nor can
a course be repeated for a higher grade if the final grade is C or higher. Any course listed on the program in which a grade of C, D, or F is earned must be repeated.

An I grade for incomplete work for a course will be changed to an F grade if the work is not completed within one academic year following the semester in which the I grade was assigned, unless a shorter time is specified by the instructor. All outstanding incomplete work (including grades of I, X, and blank/no grade) must be completed and posted to the official transcript prior to the conferment of the degree.

Any graduate student who fails to maintain a cumulative grade point average of 3.00 or higher for all course work subsequent to admission to the Graduate School will be dropped from the University. A student who is dropped may be permitted to re-enroll if a special recommendation is made by the chair of the major department with the concurrence of the dean of the Graduate School.

Requirements for a Graduate Degree

The Graduate School’s graduation requirements necessary for the completion of a graduate degree are those as published in the Graduate School Policies and Procedures Manual in effect at the time of the student’s initial admission as a regular or provisional graduate student. Departmental requirements for graduation are those in effect at the time the student files a program of study.

Subsequent changes in degree requirements of the Graduate School or in departmental requirements may be substituted at the option of the student upon approval by the master’s or doctoral committee, the department chair, and the dean of the Graduate School.

If a student is dropped from the University for failure to maintain continuous enrollment, the graduation requirements of the Graduate School are those in effect at the time of readmission to the Graduate School.

Time Limit

The time limit for the use of graduate credits toward a graduate certificate and master’s degree is six years from the beginning date of the earliest course applied toward the degree.

Work for the doctoral degree should be completed within three years of the date of the satisfactory completion of the preliminary examination, and within ten years of the earliest course applied toward the degree. At least four months must elapse between preliminary and final examinations for doctoral degrees.

Assistantships, Fellowships, and Scholarships

Teaching and research assistantships are available in most departments offering advanced degrees, and research fellowships are granted in some departments. For the student personnel program, staff assistants are appointed each year.

The Graduate Catalog and Graduate School Policies and Procedures should be consulted concerning qualifications, eligibility, and application procedures.

Assistantship appointments require part-time service. Students on appointment must maintain regular full-time enrollment in graduate school for the duration of their appointments. Stipends vary according to the amount of required service, the extent of the student’s training, and other factors.

Graduate students appointed to assistantships of half-time service or more and who reside in the state of Washington while attending WSU may qualify for some form of tuition waiver. Forms for assistantship or fellowship applications are included as part of the general application for admission to the Graduate School. Most appointments are made by April 15 for the following academic year. Washington State University subscribes to the following resolution of the Council of Graduate Schools in the United States regarding scholars, fellows, trainees, and graduate assistants:

Acceptance of an offer of financial support (such as a graduate scholarship, fellowship, traineeship, or assistantship) for the next academic year by a prospective or enrolled graduate student completes an agreement that both student and graduate school expect to honor. In that context, conditions affecting such offers and their acceptance must be defined carefully and understood by all parties.

Students are under no obligation to respond to offers of financial support prior to April 15; earlier deadlines for acceptance of such offers violate the intent of this Resolution. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made. Similarly, an offer by an institution after April 15 is conditional on presentation by the student of the written release from any previously accepted offer. It is further agreed by the institutions and organization subscribing to the above Resolution that a copy of this Resolution should accompany every scholarship, fellowship, trainees, and assistantship offer.

For information about special scholarships and fellowships, write to the Dean of the Graduate School or the chair of the department concerned.

UNIVERSITY HONORS COLLEGE

Libby Walker, Dean
Honors Hall, Room 130
509-335-4505
www.honors.wsu.edu

The University Honors College at Washington State University is one of the oldest and most well respected honors colleges in the nation. The mission of the Honors College is to offer students an enriched, four-year core curriculum that satisfies University graduation requirements for general education. Students in the University Honors College are not required to complete General Education Requirements (GERs) because the Honors curriculum fulfills the graduation requirements. However, students who transfer to General Education before graduation will be held to all requirements of General Education.

The Honors curriculum is designed to be compatible with any major. Through small classes taught by experienced and enthusiastic faculty dedicated to scholarship and learning, the Honors College helps students develop a lifelong love of learning, as well as skills in critical thinking, writing, public presentation, information literacy, and cultural competency. By completing an enriched series of small classes, and a thesis, students admitted into the Honors College acquire the broad foundations of liberal learning in the natural and social sciences, the arts and humanities, and cultures of the world. In addition, the Honors College emphasizes study of foreign languages and education abroad as premier vehicles for gaining key competencies for an increasingly globalized society and economy. The Honors College offers a number of advantageous opportunities for education abroad and requires demonstration of proficiency in a second spoken language before graduation.

Admission to the University Honors College

High school students who have shown outstanding scholastic ability, intellectual achievement, motivation, and extracurricular and community involvement may be invited to join the Honors College. The Honors College welcomes students from diverse cultural and academic backgrounds who are willing to take risks and want to engage in this special academic opportunity. Students who are interested in Honors but have not been invited within three weeks of their acceptance to WSU should contact Honors. Students who are currently freshmen (by credits) at Washington State University, and achieve a grade point average of at least 3.5 their first semester, transfer, and international students should contact Honors if they are interested in the program. We recommend talking with an Honors advisor to see whether the Honors curriculum is a good fit with the student's program. For more information on the Honors College, please refer to the departmental section of this catalog and our website.

COLLEGE OF LIBERAL ARTS

Douglas Epperson, Dean
Thompson Hall, Room 309
509-335-4581
www.libarts.wsu.edu

The College of Liberal Arts fosters an open and diverse environment where faculty and students engage in wide-ranging research, artistic creativity, humanistic inquiry, global learning, and community involvement. Undergraduate academic programs in the arts, humanities, and social sciences provide students in all disciplines with both a broad and deep understanding of culture, society, and human behavior. They are inspired to become critical thinkers and life-long learners, prepared for a rich and rewarding life in any career field or for further graduate and professional education. Many programs within the college offer graduate degrees that further prepare students for successful professional and academic careers.
A number of programs in the College of Liberal Arts are externally accredited. The doctoral program in clinical psychology is accredited by the American Psychological Association and the Music Program is a full member of the National Association of Schools of Music, for example.

The college, in cooperation with the Department of Teaching and Learning, prepares teachers for all levels of educational work. Students preparing for teaching at the elementary, secondary, and college levels usually complete the course work in their chosen subject-matter field within the College of Liberal Arts. The specific requirements for certification and teaching majors and minors for K-12 teachers are listed under the Department of Teaching and Learning.

The Pre-law Advising Center is located in the Department of Political Science. Other pre-law curricula are offered through such departments and programs as comparative ethnic studies, English, history, philosophy, and sociology.

Admission
The general requirements for admission to the College of Liberal Arts are the same as those for Washington State University. Some departments have selective admissions criteria requiring demonstration of artistic achievement and/or completion of specific courses with specific grades prior to certification of the respective major.

High school students should include the following subjects as preparation for work in the college: at least four years of English, at least two years of one foreign language, three years of mathematics, two years of science, and three years of social sciences; participation in music, art, and speech.


Requirements for Graduation
The degrees offered by the College of Liberal Arts are listed below. The requirements for graduation include the University requirements for graduation plus additional College of Liberal Arts requirements in the humanities, social sciences, and sciences. See graduation requirements in the catalog.

Degrees
The College of Liberal Arts offers programs of study leading to the following degrees:

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<th>Degree</th>
<th>Department or Area</th>
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<td>Bachelor of Arts</td>
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<td>Asian Studies</td>
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<td>Comparative Ethnic Studies</td>
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<td>Criminal Justice</td>
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<td>Digital Technology and Culture</td>
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<td>English</td>
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<td>Fine Arts</td>
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<td>Foreign Languages and Cultures</td>
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<td>History</td>
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<td>Humanities (General Studies)</td>
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<td>Music</td>
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<td>Philosophy</td>
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<td>Political Science</td>
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<td>Public Affairs (Vancouver)</td>
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<td>Social Sciences (General Studies)</td>
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<td>Social Studies</td>
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<td>Sociology</td>
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<td>Speech and Hearing Sciences</td>
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<td>Women's Studies</td>
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<td>Bachelor of Fine Arts</td>
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<td>Bachelor of Music</td>
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<td>Bachelor of Science</td>
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<td>Fine Arts</td>
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<td>Doctor of Philosophy</td>
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<td>Psychology (Clinical and Experimental)</td>
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COLLEGE OF NURSING
Patricia Butterfield, Dean
P.O. Box 1495
Spokane, WA 99210-1495
509-324-7360
www.nursing.wsu.edu

Instructional programs are conducted at the baccalaureate, master’s, and PhD degree levels to develop responsible citizens and to provide the professional knowledge, skills, and values essential to the practice of nursing. The undergraduate curriculum includes both liberal arts education and preparation as a generalist in the practice of nursing. The curriculum at the graduate level provides preparation for advanced, specialized nursing practice, leadership, and research.

Undergraduate Program
WSU College of Nursing's undergraduate program is approved by the Washington State Nursing Care Quality Assurance Commission, is accredited by the Commission on Collegiate Nursing Education, and is approved by the American Association of Colleges of Nursing. Approximately 800 generic and registered nurse students are enrolled in the baccalaureate nursing program at Spokane, Yakima, Tri-Cities, Vancouver, and throughout Eastern Washington.

The program is open to students beginning a nursing career and to registered nurses who wish to obtain a baccalaureate degree in nursing. Graduates practice in a variety of settings, including hospitals, community health agencies, schools, long-term care facilities, occupational health programs, home health care, and community mental health centers.

The curriculum for students initiating the study of nursing consists of lower- and 300-400-level components and is four academic years in length. The first two years of the curriculum (lower-division component) are completed on the Pullman campus or at any institution offering courses equivalent to those taught at Washington State University.

The last two years of the professional curriculum (300-400-level component) are provided at the College of Nursing building in Spokane, Yakima, and the WSU campuses in Tri-Cities and Vancouver.

Admission
All students planning to major in nursing must apply to the Office of Admissions at WSU and be admitted to the University. Requirements may be met at WSU or may be transfer credits from another institution of higher education. Applications to the nursing major are obtained from the Office of Admissions at WSU. Tri-Cities applicants should contact the Admissions Office on the Tri-Cities campus. Applications must be completed by January 15 for fall admission and August 5 for spring admission.

All registered nurses planning to apply to the nursing major at WSU Tri-Cities or WSU Vancouver must do so through the Admissions Office at the respective sites. Applications are available throughout the year. Students are encouraged to contact an advisor at their campus for lower-division advising.

Registered nurse applicants must be graduates of an approved community college or hospital school of nursing and be currently licensed or eligible for licensure to practice in the state of Washington at the time of application. Admission to the 300-400-level nursing major is based upon evaluation of the student’s entire application. Applicants for admission to the college must...
present at least 60 semester hours or 90 quarter hours of acceptable credit from an accredited college or university. The credits must include those courses which are prerequisite to nursing.

Since the number of applicants to WSU College of Nursing may exceed the number that can be admitted, there is no assurance that all persons meeting the admission criteria will be selected.

**Graduate Program**

The Master of Nursing (MN) program prepares nurses for advanced practice nursing as a Family Nurse Practitioner (FNP) or a Psychiatric Mental Health Nurse Practitioner (PMHNP). In addition an Advanced Population Health (APH) track leads to a specialty in nursing education, organizational leadership or care management of populations. Additional course work can lead to certification eligibility for Community Clinical Nurse Specialist. The PhD program in Nursing has a core of nursing science courses, analytical courses, and education courses, guiding the student to conduct qualitative or quantitative inquiry. The PhD program prepares students as nurse scientists, able to carry out independent research; and to serve as leaders in nursing education. Full or part-time study is available and all graduate tracks, and courses are offered in hybrid delivery (some in class and others via videoconference and web). Graduate School deadlines for application are followed.

**Professional Development**

The Office of Professional Development at the WSU College of Nursing focuses on specific learning needs of registered nurses in the community, state and throughout the country. Cost effective programs are made available to promote professional certification, licensure and re-licensure. The Office of Professional Development is an approved provider of continuing education by the Washington State Nurses Association (an accredited approver by the American Nurses Credentialing Center Commission on Accreditation), by the California Board of Registered Nursing and by the Office of the Superintendent of Public Instruction in Washington. For more detailed information on programs offered visit [www.nursing.wsu.edu](http://www.nursing.wsu.edu).

**Degrees**

The degrees offered through the Intercollegiate College of Nursing/WSU College of Nursing are as follows:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>Generalized practice of professional nursing</td>
</tr>
<tr>
<td>Master of Nursing</td>
<td>Advanced population health</td>
</tr>
<tr>
<td>Doctor of Nursing Practice</td>
<td>Nursing</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Nursing</td>
</tr>
</tbody>
</table>

**COLLEGE OF PHARMACY**

Gary Pollack, Dean  
Wegner Hall, Room 105  
509-335-5901  
[www.pharmacy.wsu.edu](http://www.pharmacy.wsu.edu)

**Doctor of Pharmacy**

The College of Pharmacy offers a course of study leading to a Doctor of Pharmacy (PharmD) degree. The PharmD schedule of studies involves four professional years, the first two of which are offered in Pullman. The third professional year of the PharmD curriculum is delivered in the Health Science building located on the Washington State University Spokane campus. The fourth professional year of the PharmD curriculum consists of an advanced experiential training in which students will be assigned to one of the following geographic locations: Spokane, Yakima, Vancouver, Tri-Cities, Tacoma, or Pullman. Students will be expected to complete the majority of their rotations in their assigned geographic locations. Students will gain experience in a variety of health care environments, including community, institutional, and long-term care settings. Ninety-four students are enrolled annually in the fall in the first professional year of the PharmD program. Pre-pharmacy requirements are listed under Pharmacy in this catalog.

The application period each academic year is from October 1 to January 1. Although a bachelor's degree is not required for admission, prerequisites for admission require at least three years of pre-pharmacy education. Because the number of applicants to the professional program exceeds the number that can be admitted, no assurance can be given that those who successfully complete the pre-pharmacy requirements will be admitted to the Doctor of Pharmacy program. For additional information regarding the Doctor of Pharmacy curriculum, please see the College of Pharmacy home page at [www.pharmacy.wsu.edu](http://www.pharmacy.wsu.edu), or contact the College of Pharmacy Office of Student Services at 509-335-2356.

**Program in Nutrition and Exercise Physiology**

The Program in Nutrition and Exercise Physiology (NEP) offers an undergraduate BS degree that integrates coursework in nutrition and exercise physiology with the goal of preparing students for professional accreditation in the areas of dietetics and/or clinical exercise physiology. To this end, NEP offers an MS Coordinated Program in Dietetics, Nutrition, and Exercise Physiology that provides students with the coursework and practice hours required to sit for the exam for Registered Dietitian (RD). This program is accredited by the Commission on Accreditation for Dietetics Education. NEP also offers an MS in Nutrition and Exercise Physiology. Both MS degree programs include integrated coursework in nutrition and exercise, providing a spectrum of opportunities for professional credentialing as well as for training in basic, community, and clinical research. Complete information on admission and program requirements may be found in this catalog under departmental listings and on our web site.

**Pharmaceutical Sciences**

This research-oriented program in pharmaceutical sciences prepares students for careers in independent research and teaching and other related areas. Our graduates have been successfully placed in careers in universities and colleges, the pharmaceutical and biotech industries, and federal and state agencies.

The application period each academic year is from October 1 to January 10. Applications for admission to the program must include: official GRE scores, official transcripts for all college-level work, three letters of recommendation, and a letter discussing career goals and research interests. For students whose native language is not English, TOEFL scores above 600 (paper-based test), 250 (computer-based TOEFL) or 100 (Internet based TOEFL) are required. Inquiries should be emailed to: drhowe@wsu.edu. Students entering the program should have completed undergraduate work in biology, chemistry (including organic chemistry and biochemistry), mathematics (through calculus), an upper division level organ/mammalian physiology course, and an undergraduate statistics course. A bachelor's degree is required for admission to the PhD. program. Applicants apply on-line through the Graduate School.

**Health Policy and Administration**

The program is one of four in the fourteen-state western region accredited by Commission on Accreditation of Healthcare Management Education (CAHME). A core value of the HPA Program and its faculty is to prepare health services managers with the knowledge, skills, and values to exercise professional leadership to promote healthier communities. The primary mission of the Department of Health Policy and Administration graduate program is (1) to prepare working students in metropolitan Spokane, eastern Washington and the Inland Northwest region and students for a variety of professional health services management positions, and (2) to contribute to community health services enhancement and community health policy development through education, applied research and service. HPA students must complete a total of 50 semester hours. Through the core courses, students develop basic understanding and experience in managing health care systems in the context of enhancing community health status. A multidisciplinary systems perspective helps students develop knowledge and skills in communication, ethics, interpersonal relations, team-building, management, and delivery of cost-effective health care. Internships, fellowships, research assistantships, and special projects enhance the experience of HPA students. The time required for completion of the program will vary for each student, depending on course load. The minimum for a full-time student is likely to be two years. For inquiries, contact Joseph S. Coyne, Dr. PH., Interim Chair and Professor; 509-335-7981, jsc@wsu.edu; [www.spokane.wsu.edu/academics/health_sciences/hpa/](http://www.spokane.wsu.edu/academics/health_sciences/hpa/).
Degrees

The College of Pharmacy offers the following degree programs:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science</td>
<td>Nutrition and Exercise Physiology</td>
</tr>
<tr>
<td>Master of Health Policy and Administration</td>
<td>Health Policy and Administration</td>
</tr>
<tr>
<td>Master of Science</td>
<td>Human Nutrition</td>
</tr>
<tr>
<td>Doctor of Pharmacy</td>
<td>Nutrition and Exercise Physiology</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Pharmaceutical Sciences</td>
</tr>
</tbody>
</table>

COLLEGE OF SCIENCES

Daryll B. DeWald, Dean
Morrill Hall, Room 208
509-335-5548
www.sci.wsu.edu

Faculty and curricula within the College of Sciences provide a sound and challenging education for students in disciplines covering the life sciences, physical sciences, environmental science, and mathematics. Both undergraduate and graduate degree programs within the college include classroom instruction, seminars, special projects, and research, which together provide first-rate training to meet the demands of our diverse technological society.

Undergraduate students planning to pursue advanced work in graduate or professional schools are advised to plan curricula to meet admission requirements for advanced study.

One of the major service functions of the college is to provide course work in the sciences and mathematics for students majoring in other disciplines.

Many of the college's faculty have attained national and international reputations and have received numerous honors and awards. These include National Academy of Science membership, state and national teaching awards, Guggenheim Fellowships, Fulbright Scholarships, national career development awards, National Institutes of Health Merit Awards, and an Eli Lilly Award. Faculty frequently serve on national review panels of granting agencies for instructional and research support and on editorial boards of international journals.

Many undergraduate majors conduct research projects under supervision of a faculty member. This hands-on introduction to the scientific method is facilitated by the high quality of the teaching and research laboratories, computer facilities, and other infrastructure within the college. The Franceschi Microscopy and Imaging Center, Nuclear Magnetic Resonance Center, Geoanalytical Laboratory, Ownbey Herbarium, Conner Zoological Museum, Hudson Biological Reserve, and Meyer's Point Biological Study Site are all facilities within the college. A strong technical services unit provides instrument shops, electronics construction and repair, and graphics.

Major research areas in the college include shock physics, molecular and atomic interactions on surfaces, continuum mechanics, avian environmental physiology, regulation of cellular growth and differentiation, photosynthesis, mechanisms of chemical reactions, biological evolution and ecology, environmental remediation, mathematical modeling of biological and physical processes, numerical analysis, reliability and fatigue studies, resource management, protein synthesis and export, chemotaxis, coevolution of plants and animals, and reproductive biology.

Admission

Admission requirements for the College of Sciences are the same as those for Washington State University.

High school students should include the following subjects as preparation for work in the College of Sciences: four years of English, at least two years of one foreign language, three (and preferably four) years of mathematics, three (and preferably four) years of science, and three years of social science.

Requirements for Graduation

Graduation requirements for a bachelor's degree include the University General Education Requirements plus additional College of Sciences requirements in arts and humanities, social sciences, and sciences. Each academic department or program has additional graduation requirements which are included in the departmental descriptions in this catalog.

Degrees

The College of Sciences offers programs of study leading to the following degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Department or Area</th>
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<tbody>
<tr>
<td>Bachelor of Science</td>
<td>Biology</td>
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<tr>
<td></td>
<td>Environmental Science</td>
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<td></td>
<td>Geology</td>
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<td></td>
<td>Mathematics</td>
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<td></td>
<td>Physics</td>
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<td></td>
<td>Sciences-General Studies</td>
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<tr>
<td></td>
<td>(includes Basic Medical Science; Biological Sciences; Mathematics; and Physical Sciences)</td>
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<tr>
<td>Master of Science</td>
<td>Zoology</td>
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<tr>
<td></td>
<td>Botany</td>
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<tr>
<td></td>
<td>Chemistry</td>
</tr>
<tr>
<td></td>
<td>Environmental Science</td>
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<td>Geology</td>
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<td></td>
<td>Mathematics</td>
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<tr>
<td></td>
<td>Molecular Plant Sciences</td>
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<td></td>
<td>Physics</td>
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<tr>
<td></td>
<td>Plant Physiology</td>
</tr>
<tr>
<td></td>
<td>Statistics</td>
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<tr>
<td></td>
<td>Zoology</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Botany</td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
</tr>
<tr>
<td></td>
<td>Environmental and Natural Resource Sciences</td>
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<td></td>
<td>Geology</td>
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<tr>
<td></td>
<td>Materials Science</td>
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<tr>
<td></td>
<td>Mathematics</td>
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<tr>
<td></td>
<td>Molecular Plant Sciences</td>
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<td></td>
<td>Physics</td>
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<td>Plant Physiology</td>
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<tr>
<td></td>
<td>Zoology</td>
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</tbody>
</table>

Some of the graduate degree programs are jointly supported by the Colleges of Agricultural, Human, and Natural Resource Sciences; Engineering and Architecture; and Veterinary Medicine, thus providing a broad base for graduate training.

UNIVERSITY COLLEGE

Mary F. Wack, Dean
French Administration, Room 436
509-335-8044
www.universitycollege.wsu.edu

The University College is a non-degree-granting college that supports all undergraduates at WSU. There are no admission requirements; any student can access the various programs and courses offered by the college. The University College recognizes the importance of partnership with parents and families to ensure student success, and offers programming to assist parents and families to support their students' degree completion. Faculty and staff of the University College engage in more than 225,000 student and parent contacts each year, and 2,300 students enroll in University College courses annually. The University College creates an atmosphere that minimizes anxiety, promotes student action and lifelong learning, and prepares students to succeed.
The University College offers a welcoming home for new students. It provides a dynamic and engaging first-year experience through orientation programs, Convocation, the Common Reading program, and learning communities such as Freshman Focus and the Pathways to Academic Success Seminar. It promotes student achievement through both general and targeted programs, including general academic advising and career development, specialized advising for pre-medical and pre-health sciences students, writing assistance, and general tutoring. Special programs and opportunities are offered to transfer students, to students wishing to compete for distinguished national and international scholarships, and to students desiring to engage in research, scholarship, or creativity activity.

The College’s curriculum is open to all students. One- and two-credit courses are designed to fit student schedules and can be paired with other University College courses or courses in the major for high-impact learning. Overall, the curriculum assists students in gaining the skills for effective decision-making to manage key transitions of the college years: from high school or a community college to a research university; transition into a major; and transition from college into a career. Active and collaborative learning environments develop teamwork and leadership skills while also fostering positive relationships with a diverse community of peers, faculty, and advising staff. Students’ progress in their degree programs is supported by these courses’ focus on developing critical thinking, analytical, and information skills, as well as their strong written and oral communication components. Frequent reflective assignments assist students in integrating their college experiences with their developing sense of personal and social responsibility and self-direction.

COLLEGE OF VETERINARY MEDICINE

Bryan Slinker, Dean
Bustad Hall, Room 110
509-335-9515
www.vetmed.wsu.edu

Faculty and curricula within the College of Veterinary Medicine provide a challenging, hands-on education for students in the life and biomedical sciences. Both undergraduate and graduate degree programs within the college include classroom instruction, seminars, special projects, and research, which together provide the education needed to meet society’s needs.

The Undergraduate students planning to pursue advanced work in graduate or professional schools are advised to plan curricula to meet admission requirements for advanced study. Many undergraduate majors conduct research projects under the supervision of a faculty member. In fact, this hands-on introduction to scientific discovery is a hallmark of these programs. Creative programs (such as the STARS program) are designed to facilitate the transition from undergraduate to graduate programs.

Graduate students are prepared for many exciting careers in life and health sciences by engaging in cutting-edge research in many areas, including regulation of cellular growth and differentiation, genetic engineering, chromosome biology, protein synthesis and export, repair of DNA, cancer cell biology, biochemical mechanism of muscle contraction, chemotaxis, coevolution of plants and animals, reproductive biology, immunology, infectious diseases of humans and animals, cellular and systems neurosciences, and global health.

The Doctor of Veterinary Medicine (DVM) curriculum of the College of Veterinary Medicine prepares students for positions in many areas of veterinary medicine, e.g., private practice, federal and state disease regulatory programs such as the USDA and CDC, industry, teaching, research, and military services. DVM students may also engage in research as part of their education. The DVM degree is recognized by all state and territorial licensing boards, as well as those in foreign countries, and is fully accredited. Complete information on DVM admission and program requirements may be found in this catalog under departmental listings and on our website.

Many of the college’s faculty have attained national and international reputations and have received numerous honors and awards. These include election to the IOM and as fellows of the AAAS, state and national teaching awards, national career development awards, and National Institutes of Health Merit Awards. Faculty frequently serve on national review panels of granting agencies for instructional and research support, as well as on editorial boards of international journals.

Degrees

The College of Veterinary Medicine offers courses of study leading to the following degrees:

**Doctor of Veterinary Medicine**
- Veterinary Medicine
- Biochemistry
- Genetics and Cell Biology
- Microbiology
- Neuroscience
- Molecular Biosciences
- Veterinary Science

**Bachelor of Science**
- Molecular Biosciences
- Veterinary Medicine

**Master of Science**
- Molecular Biology
- Molecular Biosciences
- Neuroscience
- Veterinary Science

**Doctor of Philosophy**
- Molecular Biology
- Molecular Biosciences
- Neuroscience
- Veterinary Science

Regional Program in Veterinary Medical Education

Washington State University’s DVM education program is offered in a regional partnership with the University of Idaho and Utah State University. This regional program involves instruction on the WSU campus, at Utah State University (Logan, UT), and at the Caine Center in Caldwell, ID (UI). Specific quotas of students to be admitted from Idaho and Utah have been established under the terms of these agreements. In addition, the College of Veterinary Medicine at Washington State University is a partner in the Western Interstate Commission for Higher Education (WICHE) with the states of Arizona, Hawaii, Montana, New Mexico, Nevada, North Dakota, and Wyoming. Under the terms of this compact, a student certified and admitted as a resident from one of these states is sponsored financially by their home state and is thus subject only to the same fees as Washington resident students. Students must apply to their home state for WICHE certification in addition to applying to the College of Veterinary Medicine at Washington State University. Additional information regarding WICHE regional veterinary education may be obtained from the Executive Director, Western Interstate Commission for Higher Education, 3035 Center Green Dr., Suite 200, Boulder, CO 80301-2204, 303-541-0214, www.wiche.edu.

Washington State University is fully accredited by the Northwest Commission on Colleges and the Graduate School.