To see a complete listing of all undergraduate degrees, majors, and options within the major, as well as all undergraduate minors and certificates, please see the Achieving Academic Success section of this catalog.

**COLLEGE OF AGRICULTURAL, HUMAN, AND NATURAL RESOURCE SCIENCES**

Wendy Powers, Cashup Davis Family Endowed Dean
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https://cahnrs.wsu.edu

The College of Agricultural, Human and Natural Resource Sciences (CAHNRS) creates a more resilient world. Discovery in CAHNRS improves the wellbeing of families and communities, our economy, and the environment, and encompasses the expanding, interconnected fields of agriculture and technology.

Putting students in roles of responsibility and service, CAHNRS is training an adaptable, highly skilled workforce for tomorrow. Graduates learn how to sustain our vital natural resources and secure reliable access to affordable, nutritious food for all. Research and engagement in the College supports thriving, healthy communities, families, and individuals of all ages. We fulfill WSU’s land-grant mission by providing affordable access to world-class education for all.

The College offers professional career paths through approximately 20 majors in 13 departments including Animal Sciences; Apparel, Merchandising, Design, and Textiles; Crop and Soil Sciences; Economic Sciences; Entomology; Environment; Food Science; Horticulture; Human Development; Plant Pathology; and Viticulture and Enology. Students receive a solid foundation in the sciences with a technological grounding that enables them to explore and stay up to date with relevant, dynamic fields. All degree programs provide students with opportunities for hands-on interactions in their field, whether it’s working with researchers in classrooms and labs or through internships and international study abroad programs.

Agriculture remains one of Washington’s largest economic engines, and supports a vibrant job market. Programs in agriculture prepare students for a wide variety of careers in science; education; agriculture and food security; fruit and vegetable management; agricultural technology and production management; biotechnology; field crop management; turfgrass management; organic and sustainable agriculture; landscape, nursery, and greenhouse management; viticulture and enology; business and finance; economics; food processing; and sales and distribution of food products.

The School of the Environment prepares students for careers in earth sciences, environmental and ecosystem sciences, and wildlife ecology and conservation sciences. Graduates enter their profession as agricultural producers, land managers, agriculture teachers, food scientists, winemakers, or industry representatives for agriculture, natural resources, and retail operations. Students who earn graduate degrees follow scientific careers in research; teaching university classes; Extension education; and highly technical pursuits within industry and government organizations.

CAHNRS also offers unique opportunities for students pursuing careers in veterinary medicine. Animal Sciences and Natural Resource Sciences both allow students to build a foundation for veterinary school and earn a baccalaureate degree simultaneously.

Programs in the human sciences prepare students for careers working with children, adolescents, and adults in a variety of professional settings, including human service agencies, early childhood education, public health, and teachers of family and consumer sciences. Other careers include apparel design and merchandising, consumer services, and commercial food service. Students in the human sciences are also well prepared for graduate school and often go on to positions in higher education, research firms, Extension, governmental agencies, and industry.

**Admission**

The requirements for admission to the College of Agricultural, Human, and Natural Resource Sciences are the same as those for Washington State University. 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 little difficulty in completing the requirements for one of the bachelor’s degrees in three additional years.

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 first and second years, with particular attention to those subjects required for the intended majors. In addition, students should also contact a CAHNRS academic advisor in their area of interest.

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 to simplify the transition to WSU.

**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.

**Agricultural, Human and Natural Resource Sciences Degrees**

**Degree**

**Bachelor of Science**

Agricultural and Food Systems

Animal Sciences

Economic Sciences

Earth and Environmental Sciences

Food Science

Integrated Plant Sciences

Viticulture and Enology

**Bachelor of Arts**

Apparel, Merchandising, Design, and Textiles

Human Development

**Master of Applied Economics**

**Master of Science**

Agriculture

Animal Sciences

Apparel, Merchandising, Design, and Textiles

Biological and Agricultural Engineering

Crop Science

**Academic Area**

CAHNRS Student Success and Academic Programs

Crop and Soil Sciences

Animal Sciences

Economic Sciences

Environment

Food Science

Crop and Soil Sciences

Horticulture

Viticulture and Enology

Apparel, Merchandising, Design, and Textiles

Human Development

Economic Sciences

CAHNRS Student Success and Academic Programs

Animal Sciences

Apparel, Merchandising, Design, and Textiles

Biological Systems Engineering

Crop and Soil Sciences
The College of Arts and Sciences (CAS) fosters an open and inclusive environment where faculty and students seek to discover, to create, and to educate in service to our state, the nation, and the world. We are the big thinkers, asking bold questions that drive knowledge forward. We encourage an openness to unfamiliar ideas and collaboration across boundaries, and we share a commitment to lifelong learning and creative thinking. Our efforts advance the frontiers of knowledge and artistic expression, and we are leading a reimagining of what WSU can achieve on our campuses and in the wider world.

Encompassing disciplines within the arts, humanities, social sciences, and the physical, natural, and life sciences, CAS academic programs provide students with a sound and challenging education where inquiry and teaching proceed in tandem, and which prepares them for a wide range of careers, further graduate and professional education, and—most importantly—rich and rewarding lives. Undergraduate and graduate degree programs within the college deliver multifaceted learning opportunities that include classroom instruction, seminars, labs, special projects, scholarship, and research. Together faculty and students pursue the learning demanded by our increasingly diverse, technologically sophisticated, and global society. The college provides leadership development opportunities through its student ambassador program and more than forty registered student organizations and promotes career-skill development through internships and other experiential learning options. Many undergraduate students conduct research and complete creative projects under the mentorship of a faculty member. Competitive grants are available through the college to support these activities.

Undergraduate students planning to pursue advanced degrees are counseled by professional advisors and faculty mentors on programs of study and planning course selections that meet admission requirements for advanced study or professional schools. The college also provides academic preparation for human and animal healthcare-related fields through the School of Biological Sciences, and pre-law curricula through the School of Politics, Philosophy, and Public Affairs, and in departments and programs such as comparative ethnic studies, English, history, and sociology.

At the graduate level, the college offers numerous advanced degrees that further prepare students for successful professional and academic careers. Rigorous and intensive training enhances their disciplinary expertise and prepares them to take on leadership roles across the state and around the world.

A number of CAS programs are externally accredited. For example, the doctoral program in clinical psychology is accredited by the American Psychological Association and the School of Music is a full member of the National Association of Schools of Music.

### Sciences

Major scientific 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, radiochemistry and environmental remediation, mathematical modeling of biological and physical processes, data analysis, reliability and fatigue studies, resource management, protein synthesis and export, chemotaxis, coevolution of plants and animals, and reproductive biology.

### Humanities, Arts, and Social Sciences

CAS scholars in the arts, humanities, music, and social sciences are making significant contributions in the fields of environmental studies and peace and security; identifying the personal and sociopolitical factors that influence chronic diseases and other threats to health, including substance abuse, accidents, and high-risk behaviors; fostering mutual understanding and cooperation across cultures and nations; and building partnerships with diverse communities—from the cultures of the Pacific Rim to Native American and Latinx cultures closer to home.

### Faculty

The faculty in the College of Arts and Sciences are skilled practitioners who have a passion for excellence in research and education. Many are nationally and internationally recognized for their expertise and have received prestigious honors and awards, including election to the American Association for the Advancement of Science, American Chemical Society, American Physical Society, and other professional organizations; fellowships with the Guggenheim Foundation, U.S. Fulbright program, National Endowment for the Humanities, American Council of Learned Societies; as well as national career development awards, National Institutes of Health Merit Awards, an Eli Lilly Award, and numerous state and national teaching awards. Faculty frequently serve on national review panels of granting agencies for instructional and research support and on editorial boards of international journals.

### Interdisciplinary Commitment

Beyond its own degree programs, CAS provides a significant portion of the courses which fulfill the University Common Requirements for all WSU undergraduate students. The college also provides extensive foundational course work for students earning degrees in disciplines offered by other WSU colleges. CAS is the founder and sponsor of the WSU Mathematics Learning Center, which helps all university students succeed in attaining the math skills they will need to complete their programs of studies.

Additionally, CAS sponsors and oversees the Health Professions Student Center and the Pre-Law Resource Center, both of which serve all university students interested in pursuing careers in healthcare or the legal field, respectively.

Working in cooperation with the College of Education, CAS prepares teachers for all levels of educational work. Students preparing for teaching at the elementary, secondary, and college levels usually complete course work in their chosen subject-matter field within the College of Arts and Sciences. The specific requirements for obtaining K-12 teaching credentials are listed under their chosen subject-matter field within the College of Arts and Sciences. The college also provides extensive foundational course work for students earning degrees in disciplines offered by other WSU colleges.

### Facilities and Resources

Hands-on opportunities and learning are enhanced by high-quality teaching and research laboratories, computer facilities, music and arts studios, museums, and
other infrastructure within the college. The Thomas S. Foley Institute for Public Policy and Public Service, Franceschi Microscopy and Imaging Center, School of Music Recording Studio, Nuclear Magnetic Resonance Center, Geoanalytical Laboratory, Ownbey Herbarium, Conner Natural History Museum, Language Learning Resource Center, Museum of Anthropology, Center for Digital Scholarship and Curation, Hudson Biological Reserve, Avery Microcomputer Lab, Center for Arts and Humanities, and Meyer's Point Environmental Field Station are just a few of the many facilities within the college. Joint academic and research programs with the Pacific Northwest National Laboratory provide access to leading scientists and additional state-of-the-art scientific technology. An expert technical services unit on the Pullman campus provides custom instrumentation and electronics design, construction, and repair.

Admission

The general requirements for admission to the College of Arts and Sciences are the same as those for Washington State University. Some academic units may have selective admissions criteria requiring demonstration of artistic achievement and/or completion of specific courses with specific grades prior to admission to the respective major; requirements can be found in degree descriptions in this catalog.

High school students should include the following subjects as preparation for work in the college: four years of English, 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

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

Degrees

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

Degree | Bachelor of Arts | Bachelor of Music | Bachelor of Science | Master of Arts | Master of Fine Arts | Master of Public Affairs
--- | --- | --- | --- | --- | --- | ---
Anthropology | Anthropology and Biological Sciences | Biology | American Studies | Art | Art
Art | Music | Chemistry | Anthropology | Art | Art
Asian Studies | Earth and Environmental Science | Criminal Justice and Criminology | Criminal Justice and Criminology | English | English
Chemistry | Mathematics | History | History | Sociology | Sociology
Comparative Ethnic Studies | Physics | Music | Music | Sociology | Sociology
Criminal Justice and Criminology | Psychology | Political Science | Political Science | Sociology | Sociology
Digital Technology and Culture | Science (Bachelor of) | | | | |
English | Statistics | | | | |
Foreign Languages and Cultures | (Clinical and Experimental) | Anthropology and Biological Sciences | Anthropology and Biological Sciences | | |
(Clinical and Experimental) | Languages, Cultures, and Race | Languages, Cultures, and Race | Languages, Cultures, and Race | | |
History | History | History | History | | |
Humanities | (Interdisciplinary Program) | (Interdisciplinary Program) | (Interdisciplinary Program) | | |
Music | Mathematics | Mathematics | Mathematics | | |
Philosophy | Molecular Plant Sciences | Molecular Plant Sciences | Molecular Plant Sciences | | |
Political Science | Physics | Physics | Physics | | |
Public Affairs (Vancouver campus) | Plant Biology | Plant Biology | Plant Biology | | |
Social Sciences | Plant Pathology | Plant Pathology | Plant Pathology | | |
Social Studies | Political Science | Political Science | Political Science | | |
Sociology | Psychology | Psychology | Psychology | | |
Women's, Gender, and Sexuality Studies | (Clinical and Experimental) | (Clinical and Experimental) | (Clinical and Experimental) | | |
Bachelor of Fine Arts | Sociology | Sociology | Sociology | | |
Art | Art | Art | Art | | |

Some of the graduate degree programs are jointly supported by the College of Agricultural, Human, and Natural Resource Sciences and the Voiland College of Engineering and Architecture.
The Carson College of Business (CCB) is dedicated to world-class research, global learning, professional development, innovative teaching and learning, and the pursuit of excellence in all levels of business education. The college spans campuses across WSU with the largest campus in Pullman, a thriving Global campus, and urban campuses located in Everett, Vancouver, and the Tri-Cities area, as well as international partnerships and/or programs at the undergraduate or graduate level in Asia, Europe, and Latin America including Chile, China, France, Greece, Italy, Korea, Spain, Switzerland, Tanzania, and Thailand.

The college conducts scholarly and applied research, and offers degree programs in a variety of business disciplines, supplementing face-to-face offerings through innovative online learning and international programs. Of note, the CCB is among the top two percent of business schools worldwide to be accredited by the Association to Advance Collegiate Schools of Business International (AACSB) at the baccalaureate, masters, and doctoral levels.

Through the Carson College’s interactive and collaborative classes, undergraduate business students develop a global business perspective, and gain skills in business data analytics, effective communication, team management, and professionalism that employers demand.

Through the International Experience Requirement (IER), students develop a global perspective through education abroad, internships abroad, and internationally-focused courses. In addition to learning about another culture and interacting with students from around the world, study abroad provides students with a lifetime of memories and experiences that will shape their future careers. The CCB’s undergraduate international business program accounts for more than 30 percent of WSU’s participation in study abroad activities and has been ranked in the top 25 nationally since 2005 by U.S. News & World Report.

Expertise in managing and analyzing big data is critical in today’s businesses. Through the Analytics in the Major (AIM) initiative, students are introduced to data analytics in the first year upon admission into the College, and they build upon these skills through several data-intensive courses in their major.

An integral component to the Carson College’s undergraduate business degrees is the Carson Career Amplifier Program (CCAP). Required by all undergraduate students, this program is designed to walk students through the career development process and help them gain the experiences and skills that strengthen their interpersonal communication and professional skills so that they are career-ready by graduation.

Innovation and business creation are essential for global competitiveness in the 21st century. Through the CCB’s annual business plan competition and national venture forums, students execute and deliver innovative ventures with real-world applications. The business plan competition provides undergraduates, graduate, and select high school students an opportunity to develop their ideas in interdisciplinary team settings, with experienced entrepreneurs, executives, and venture capitalists as mentors and judges.

Additionally, the CCB’s Carson Center for Student Success supports the academic, personal, and professional success of more than 3,000 undergraduate students. The Carson Center integrates academic advising, career development, business club involvement, international experience, and scholarships in a single location.

The CCB has offered a Master of Business Administration (MBA) for more than 60 years, with graduates occupying leadership positions in all fields of business. The Carson College’s online MBA and the online Executive MBA are ranked #27 among the U.S. News & World Report “Best Online MBA Programs” for 2023, and have been listed among the top 15% for 11 straight years. In addition, the online MBA is among the top-ranked best online graduate business programs for Veterans for 2023 by U.S. News & World Report and Poets and Quants, ranking 17th and 19th respectively. Additional graduate program offerings include the 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.

Areas of Study
The college departments—Accounting; Management, Information Systems, and Entrepreneurship; Finance and Management Science; Marketing and

International Business—offer the following majors for the Bachelor of Arts in Business Administration degree:
Accounting
Business Administration (Vancouver and Tri-Cities campuses only)
Entrepreneurship
Finance
International Business
Management
Management Information Systems
Marketing

Within the college, the School of Hospitality Business Management offers a specialized Bachelor of Arts in Hospitality Business Management degree with majors in:
Hospitality Business Management
Senior Living Management
Wine and Beverage Business Management

In addition to the online MBA programs, the college offers graduate work leading to the Doctor of Philosophy degree in Business Administration (all areas). The Master of Accounting is not accepting applications at this time.

The doctor of philosophy in business administration program at WSU is an intensive program of coursework, research and intellectual interaction with faculty and other students that prepares graduates for careers as academic teachers and researchers. Students work closely with individual faculty members and are actively involved in joint research and publication projects throughout the program.

Minors
The CCB offers minors in business administration, human resource management, entrepreneurship, event planning, hospitality business management, senior living management, and wine and beverage 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 may apply for admission after their first year. Please see the following section for the minimum requirements to be eligible for admission. To be eligible to enroll in most 300-400-level business or HBM courses, business and hospitality business management students must have been admitted to their respective majors.

For specific information regarding the acceptability of college courses taken at other institutions in areas of study offered by the departments of the CCB, prospective students should communicate with the WSU Transfer Clearinghouse first, then with a CCB advisor.

Diversity, Recruitment, and Retention
The CCB 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 Carson College of Business lead to the following degrees:

Pullman Campus
Bachelor of Arts, Business Administration
Bachelor of Arts, Hospitality Business Management
Master of Accounting (Not accepting applications for the 2023-2024 year.)
Master of Science in Business Administration (MS)
Doctor of Philosophy, Business Administration

Tri-Cities Campus
Bachelor of Arts, Business Administration
Bachelor of Arts, Hospitality Business Management

WSU Global Campus
Bachelor of Arts, Business Administration
Bachelor of Arts, Hospitality Business Management

Washington State University, 2023
Admission

Undergraduate Students are admitted directly into their desired major in the College of Communication upon admission and enrollment at Washington State University.

To remain admitted in any major in the College of Communication, a student must complete all required courses and remain in good academic standing. COM 300 must be completed with a C or better, and only two attempts are allowed and a “W” is counted as an attempt. With an appeal to the department chair, a student may request to take COM 300 for a 3rd attempt during a summer session. All pre-requisites must be met in order to move through the Murrow curriculum. If a student fails to complete the required curriculum, they will not be able to remain admitted in the Murrow College. If a student is failing to complete academic requirements in a reasonable timeline, an advisor will work with the student to identify another academic path. Students must remain in good academic standing in order to graduate with a degree from the Murrow College.

Direct to Degree for Transfer Students

Transfer students bringing in 30 or more semester credits from an outside institution, and a 3.0 or higher transfer GPA will be directly admitted into the Murrow College. After consulting with a Murrow academic advisor, a student transferring with junior status (60 or more semester credits), with a 3.0 or higher transfer GPA, and who has completed COM 101 or COM 105 from another institution, will be allowed to take COM 300 in their first semester at WSU with all remaining 100 level required communication courses. All transfer students are required to consult with a Murrow academic advisor prior to enrollment at WSU.

Murrow Professional Student Code of Conduct

The Murrow College of Communication is named after Edward R. Murrow, a legendary journalist, communicator, and WSU alumnus who held strong personal values of honesty, integrity, and truth. The Student Professional Code of Conduct is an outline of behavior expectations set for all students admitted to a major within the Murrow College of Communication. These standards serve to uphold the professionalism and ethical behavior that was demonstrated by our namesake and ensure an environment of academic excellence. They provide a foundation for the many skills, lessons, experiences, and opportunities you will gain as a student and future alum of the Murrow College of Communication at Washington State University.

The full code of conduct can be found on the Murrow College website: https://murrow.wsu.edu/student-work/student-services-lobby/student-code-of-conduct/.

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.

Degrees

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

Degree  Emphasis

Bachelor of Arts  
Journalism and Media Production  
Broadcast News  
Broadcast Production  
Media and Innovation  
Multimedia Journalism

Strategic Communication  
Advertising  
Integrated Strategic Communication  
Public Relations  
Risk and Crisis Communication

Master of Arts  
Communication  
Health Communication and Promotion  
Strategic Communication

Doctor of Philosophy  
Communication
### Degrees

Degrees offered in the College of Education are as follows:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Academic Area or Emphasis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>Teaching and Learning</td>
</tr>
<tr>
<td>Education</td>
<td>Educational Leadership and Sport Management</td>
</tr>
<tr>
<td>Sport Management</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>Sports Medicine</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>(part of the Master</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>in Athletic Training</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>degree program)</td>
<td>Kinesiology and Educational Psychology</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>Curriculum and Instruction</td>
</tr>
<tr>
<td>Educational Leadership</td>
<td>Educational Leadership</td>
</tr>
<tr>
<td>K-12</td>
<td>Educational Leadership</td>
</tr>
<tr>
<td>Master of Science</td>
<td>Kinesiology</td>
</tr>
<tr>
<td>Master of Education</td>
<td>Curriculum and Instruction</td>
</tr>
</tbody>
</table>

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### VOILAND COLLEGE OF ENGINEERING AND ARCHITECTURE

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https://vcea.wsu.edu

The Voiland College of Engineering and Architecture provides instruction, research, and public service in various engineering disciplines, architecture, construction management, computer science, and materials science. The college offers several engineering degrees including bioengineering, chemical engineering, civil engineering, computer engineering, construction engineering, electrical engineering, materials science and engineering, mechanical engineering, and software engineering. The School of Design and Construction offers degrees in architecture, interior design, landscape architecture, and construction management. The Ph.D. in materials science is offered through an interdisciplinary program through the Voiland College of Engineering and Architecture and the College of Arts and Sciences. Online master's degrees are offered in electrical power engineering, engineering and technology management, and software engineering.

The college's undergraduate degree programs prepare graduates for both professional careers and advanced study and are known for their practical, hands-on components, coupled with a strong foundation of basic principles. The college's programs use formal classroom instruction, coupled with individual and group projects, seminars, and individually directed studies to prepare students to develop solutions that are technically, socially, and economically appropriate. Many students also gain work experience in their fields of interest through employment on college research projects or internships in industry.

The college offers undergraduate degree programs of sufficient breadth to enable its graduates to choose employment from a large number of specialties within their general fields. Opportunities for specialization are made available to qualified students through graduate programs in the various schools and departments.

Faculty, graduate students, and staff in the college perform basic and applied research addressing problems of state, national, and international importance. Research projects are designed to enhance economically, ecologically, and culturally sound use of our material resources and to promote well-balanced industrial and professional development. Research is an integral part of graduate degree programs, providing graduate project topics and opportunities for graduate student interactions with outside professionals. The college's research also strengthens its undergraduate programs by involving undergraduate students in relevant creative exploration and by keeping undergraduate course content current with the latest research developments.

The college provides important educational services to industries, professions, and the general public. Short courses, conferences, and workshops taught by college faculty produce valuable interactions among professionals and
deliver current technical information to these audiences. Faculty members of the college also serve as editors, authors, and reviewers for professional journals serving the nation and the world.

Students majoring in degrees offered by the Voiland College of Engineering and Architecture are guided in selection of courses in arts and humanities, social sciences, diversity, and communication to University Common Requirements (UCORE) consistent with the needs of the major. Students are encouraged to take UCORE 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 regarding the Voiland College of Engineering and Architecture is available online at [vcea.wsu.edu](http://vcea.wsu.edu).

### 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 ABET, [http://www.abet.org](http://www.abet.org).

Registration as a professional engineer, which is granted by each individual state, is required for many types of positions. The professional curricula in engineering at Washington State University are designed to prepare students to pursue a professional engineering license, starting with the Fundamentals of Engineering (FE) Examination.

Seniors in accredited engineering programs of the Voiland College of Engineering and Architecture are encouraged (and sometimes required) to take the FE Examination toward professional registration during their final academic year.

The 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 graduate engineering 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 Mathematics and Statistics, Physics and Astronomy, Chemistry, and Biological Sciences. The graduate programs are also supported by many excellent University facilities such as the Water Research Center, Laboratory for Atmospheric Research, Composite Materials and Engineering Laboratory, Electron Microscopy Center, Power Systems Engineering Research Center, Energy Systems Innovations Center, Center for Multiphase Environmental Research, Integrated Design Experience, Institute for Sustainable Design, Bioengineering Research Center, Center for Materials Research, Smart Environments Research Center, Center for Asphalt Technology, Sports Science Laboratory, and Washington State Transportation 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 to practical problems. The Bachelor of Science in Computer Science, offered through the School of Electrical Engineering and Computer Science, the School of Engineering and Applied Sciences (Tri-Cities), and the School of Engineering and Computer Science (Vancouver) is accredited by the Computing Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org). Curricular specializations available include computer engineering, databases, distributed computing, networks, network security, operating systems, and software engineering.

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 degree is accredited by the Computing Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

### Design and Construction

The School of Design and Construction offers programs of study in architecture, interior design, landscape 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 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 1.5, 2.5, or 3.5 year 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), a Bachelor of Arts in Interior Design accredited by the Council for Interior Design Accreditation (CIDA), and a Bachelor of Landscape Architecture accredited by the Landscape Architecture Accreditation Board (LAAB). The school also offers a Master of Arts in Interior Design and a Master of Science in Landscape Architecture.

### Undergraduate Admission

When admitted to Washington State University, students are typically assigned advisors in their desired major. Students may be admitted to a major in the college by upon demonstrating that they are calculus-ready or by completing any departmental-approved alternative pathway, and by making their intention known to the department offering the major. See [vcea.wsu.edu/directadmit](http://vcea.wsu.edu/directadmit).

The departmental section of the catalog lists admission requirements as well as information about requirements to remain in good standing in the major.

Prospective students are welcome to contact the department administering their choice of majors to discuss their readiness for the major and to determine if other preparation is warranted.

### Degrees

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

<table>
<thead>
<tr>
<th>Degree</th>
<th>Academic Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Arts</td>
<td>Computer Science (also Tri-Cities)</td>
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<tr>
<td>Bachelor of Landscape Architecture</td>
<td>Landscape Architecture</td>
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<tr>
<td>Bachelor of Science</td>
<td>Architectural Studies</td>
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<td></td>
<td>Bioengineering</td>
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<td>Chemical Engineering</td>
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<td>Civil Engineering (also Tri-Cities)</td>
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<tr>
<td></td>
<td>Computer Engineering</td>
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<td></td>
<td>Computer Science (also Tri-Cities, Vancouver)</td>
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<td></td>
<td>Construction Engineering</td>
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<td></td>
<td>Construction Management</td>
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<td></td>
<td>Cybersecurity (also Tri-Cities, Everett)</td>
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<tr>
<td></td>
<td>Electrical Engineering (also Bremerton, Everett, Tri-Cities, Vancouver)</td>
</tr>
<tr>
<td></td>
<td>Materials Science and Engineering</td>
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<tr>
<td></td>
<td>Mechanical Engineering (also Bremerton, Everett, Tri-Cities, Vancouver)</td>
</tr>
<tr>
<td></td>
<td>Software Engineering (also Everett)</td>
</tr>
<tr>
<td>Master of Architecture</td>
<td>Architecture</td>
</tr>
</tbody>
</table>
The Honors College at Washington State University is one of the oldest and most 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 Common Requirements (UCORE) because the Honors curriculum fulfills the graduation requirements. However, students who transfer to UCORE before graduation will be held to all University Common Requirements.

The Honors curriculum is designed to be compatible with any major. Through small, discussion-based 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 as well as a thesis, students acquire broad foundations of 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 competency in a second language before graduation.

Admission to the Honors College

High school students who have shown excellent scholastic ability, intellectual achievement, and motivation should apply directly to the Honors College after they have submitted their application to WSU. Current Washington State University students and transfer students who have achieved a college grade point average of at least 3.5 should contact Honors directly to apply. International students should contact Honors to find out how they can be considered for admission. For more information on the Honors College and its curriculum, please refer to the departmental section of this catalog and the Honors College website.

ELSON S. FLOYD COLLEGE OF MEDICINE

James Record, Interim Dean
WSU Spokane
Elson S. Floyd College of Medicine/SAC 503F
412 E. Spokane Falls Blvd.
Spokane, WA 99202
509-358-7944
https://medicine.wsu.edu/
medicine@wsu.edu

The Elson S. Floyd College of Medicine is Washington's community-based medical school. Named after the university's late president, Elson S. Floyd, the college was created to expand medical education and health care access in communities across the state of Washington. Led by Interim Dean Dr. James Record, the College of Medicine is driven by its mission to solve problems in challenging health care environments across the state of Washington.

The College of Medicine administration is primarily located on the WSU Spokane campus with clinical campuses in Everett, Spokane, Tri-Cities, and Vancouver. The College of Medicine's graduate medical education programs, also known as residency programs, are available in three locations: internal medicine in Everett, family medicine in Pullman, and pediatrics in Spokane. Employing a community-based model in which medical students gain clinical experiences in hospital and health care settings within approximately 100 miles of the four clinical campus locations, the college emphasizes training in the kind of environments where students will ultimately settle to practice as physicians. All campuses foster active learning environments, interdisciplinary teaching, research, outreach, and clinical services.

The college consists of the departments of Community and Behavioral Health, Medical Education and Clinical Sciences, Nutrition and Exercise Physiology, Speech and Hearing Sciences, and Translational Medicine and Physiology.

The Department of Translational Medicine and Physiology is the central hub of foundational and translational biomedical research at the College of Medicine. The faculty represent a diverse set of interests, ranging from the neuroscience of sleep to cancer. Their work encompasses both foundational and translational research, extending from cell and molecular physiology to behavioral studies and they employ a full range of model systems as well as human subjects. The department provides research opportunities to graduate students in participating Ph.D. programs and to medical students.

The Department of Community and Behavioral Health extends the reach of the college's mission by improving health outcomes through community-informed research and the development of evidence-based policies and practices. The department provides the opportunity for the college's research enterprise to hone its focus in these areas and bring behavioral health to the fore.

The Department of Medical Education and Clinical Sciences delivers the MD program, training medical students to be insightful and compassionate physicians. It immerses students in a variety of real-world and simulated learning environments that provide them with the clinical and behavioral competencies to be successful in the future practice of medicine. In addition to preparing students to care for individual patients, it readsies them to take the lead in addressing community health care issues. Students learn to recognize problems in health care delivery, innovate solutions, and mobilize change that improves the health of entire populations. The department also delivers the Master of Healthcare Administration and Leadership and two professional certificate programs, the Certificate in Healthcare Leadership and the Certificate in Medical Ethics. These programs provide training to current and future health care leaders in key leadership skills and professional competencies.

The Department of Nutrition and Exercise Physiology focuses on the effects of nutrition and physical activity on human health. The interdisciplinary program combines study in human nutrition, exercise physiology, and biological sciences, along with population, social, and psychological sciences. Opportunities for research and applied, practical experiences are the core of

HONORS COLLEGE

M. Grant Norton, Dean
Elmina White Honors Hall, Room 130
509-335-4505
http://honors.wsu.edu

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Nurses taught at Washington State University. Courses are offered in Spokane, Yakima, Tri-Cities, and Vancouver and sites in Yakima and Walla Walla. Programs at the Health Sciences campus in Spokane, and at WSU campuses in Yakima and Walla Walla. The College of Nursing offers degrees in nursing at the baccalaureate (BSN), master's (MN), and doctoral (Doctor of Nursing Practice and Ph.D) levels. The undergraduate program prepares students as generalists in the practice of nursing. The curriculum at the graduate level provides preparation for advanced, specialized nursing practice, leadership, education, and research.

Admission
All students planning to pursue either the BSN or RN-BSN programs must apply to the Office of Admissions at WSU and be admitted to the University. Requirements may be met at WSU or through transfer credits from another institution of higher education. The College of Nursing uses a Centralized Application Service (CAS) for BSN applicants.

Graduate Programs
The MN in Population Health (MN-PH) prepares graduates for an advanced practice nursing role in acute, outpatient and community settings. You may enter the program with a BSN or the RN-MN program as an RN with a bachelor's degree in another field. The MN-PH program also offers three graduate certificate options in nursing leadership, nursing education and public health.

The Doctor of Nursing Practice (DNP) post-baccalaureate program offers prospective students with a BSN in nursing the opportunity to earn a doctoral degree in one of three areas: Family Nurse Practitioner (DNP-FNP), Psychiatric Mental Health Nurse Practitioner (DNP-PMHNP), or Population Health (DNP-PH). Graduates of the FNP and PMHNP programs are eligible to complete a national certification examination leading to state licensure as Advanced Registered Nurse Practitioners. The post-master’s DNP general plan program offers prospective students with a master's degree in nursing the opportunity to add expertise in research and leadership to their current practice or pursue new specialization as a DNP-FNP, DNP-PMHNP, or DNP-PH.

The Ph.D. program in Nursing includes a core set of courses in nursing science, research, and theory guiding the student to conduct qualitative or quantitative inquiry. The Ph.D. program prepares students as nurse scientists, able to carry out independent research; and to serve as leaders in nursing education. Full or part-time plans of study are available. The Post-Baccalaureate to Ph.D. program in Nursing allows students with a baccalaureate degree and aRN license to enter the Ph.D. program after two semesters of Master's level courses.

Professional Development
The Office of Professional Development at the WSU College of Nursing focuses on meeting 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) and by the Office of the Superintendent of Public Instruction in Washington. For more detailed information on programs offered visit https://nursing.wsu.edu.
Degrees

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

<table>
<thead>
<tr>
<th>Degree</th>
<th>Academic Area</th>
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<tbody>
<tr>
<td>Bachelor of Science in Nursing</td>
<td>Generalized practice of professional nursing</td>
</tr>
<tr>
<td>Master of Nursing</td>
<td>Population Health</td>
</tr>
<tr>
<td>Doctor of Nursing Practice</td>
<td>Family Nurse Practitioner</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Nursing</td>
</tr>
</tbody>
</table>

COLLEGE OF PHARMACY AND PHARMACEUTICAL SCIENCES

Mark Leid, Dean
WSU Spokane Campus
Pharmaceutical & Biomedical Sciences Building, Room 120K
412 E. Spokane Falls Blvd.
Spokane, WA 99202
509-368-6700
https://pharmacy.wsu.edu/

The College of Pharmacy and Pharmaceutical Sciences offers three degree programs of study: the professional degree of the Doctor of Pharmacy (PharmD); the Doctor of Philosophy in Pharmaceutical Sciences and Molecular Medicine (PhD); and the undergraduate degree of the Bachelor of Science in Pharmaceutical and Medical Sciences (BS PharmEds).

These programs are all offered on the WSU Spokane campus. The PharmD degree is delivered in both Spokane and Yakima, Washington. One of the research programs within the college, the U.S. Transuranium and Uranium Registries, is located in Richland, Washington.

Professional Program

The Doctor of Pharmacy (PharmD) schedule of studies involves four professional years. The first three professional years of the PharmD curriculum are delivered at the WSU Spokane and the Pacific Northwest University of Health Sciences campus in Yakima. During your four years in pharmacy school you will have 1,960 hours of professional pharmacy experience in a variety of settings. Our experiential learning program ensures that you will gain the real-world skills you need to be practice ready upon graduation. The college boasts a vast network of 250 sites in Washington, Oregon, California and Idaho with more than 400 volunteer preceptors and faculty members. Together, they form the backbone of your introductory pharmacy practice experiences (IPPE) and advanced pharmacy practice experiences (APPE). Experiential learning takes place in a variety of health care environments, including community, institutional, and long-term care settings.

Certificates and dual degrees allow the development of skills beyond the traditional Doctor of Pharmacy curriculum. The college offers four dual degrees and certificates. Along with your PharmD, you can also pursue your studies in Engineering and Technology Management, Master of Business Administration, Communication, or a PhD in Pharmaceutical Sciences and Molecular Medicine.

The application period each academic year is July to January, and students should prepare to submit their application one calendar year before they intend to begin the pharmacy program. A bachelor's degree is not required for admission; prerequisites for admission typically require 2-3 years of prepharmacy education. For additional information regarding the Doctor of Pharmacy curriculum, please see the College of Pharmacy and Pharmaceutical Sciences home page at http://www.pharmacy.wsu.edu, or contact the Office of Student Services at 509-368-6605.

Graduate Program

The college's PhD in Pharmaceutical Sciences and Molecular Medicine graduate program prepares you for careers in academia, industry, and other public and private institutions dedicated to the promotion of human health. The PhD program provides training in cancer biology, drug discovery, and translational pharmacology. Faculty in the program utilize multi-disciplinary and translational research approaches to (1) understand mechanisms of disease, (2) identify novel therapeutic targets, (3) develop novel treatments, and (4) optimize therapeutic regimens. The program strives to prepare you to become independent and creative problem solvers who will develop into leaders in your respective fields.

Students entering the program should have completed undergraduate work that includes biology, chemistry (including organic chemistry and biochemistry), mathematics (through calculus), and organ/mammalian physiology. Students working toward the PhD in Pharmaceutical Sciences and Molecular Medicine are expected to develop an area of research emphasis that is consistent with the capabilities and interests of the faculty.

A PharmD and PhD dual degree option is available to train clinician scientists. Interested students may apply for PhD admission in their second or third year of the PharmD program.

Applications for admission to the graduate program must include: official transcripts for all college level work, three letters of recommendation, and a letter discussing career goals, previous research experience, and research interests. The GRE is no longer required. For students whose native language is not English, TOEFL/IELTS scores are required. Inquiries should be emailed to: gradprograms@pharmacy.wsu.edu.

Undergraduate Program

The college offers a Bachelor of Science degree in Pharmaceutical and Medical Sciences. The first two years of coursework are to be completed at WSU Pullman or at another university, college, or community college. The last two years of the program are offered on the WSU Spokane campus. Interested students who have completed the first two years of coursework will apply to transfer to WSU Spokane to complete their degree.

The program incorporates options to serve the needs of students with various interests. The degree prepares students to apply to pharmacy school, medical school, graduate school, or other health-related programs following graduation, or to seek employment in the biotechnology and pharmaceutical sector. A research track provides the opportunity for students to gain research experience while completing their undergraduate degree, in preparation for applying to graduate school. A “3+4” option allows students who are interested in becoming pharmacists to complete the 4th year of their undergraduate degree while enrolled in the PharmD program. Inquiries should be emailed to: pharmacy.undergrad@wsu.edu or contact 509-358-7631.

Degrees

The College of Pharmacy and Pharmaceutical Sciences awards the following degrees:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Academic Area</th>
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<tbody>
<tr>
<td>Doctor of Pharmacy</td>
<td>Pharmacy</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>Pharmaceutical and Medical Sciences</td>
</tr>
<tr>
<td>* Master of Science</td>
<td>Pharmaceutical Sciences and Molecular Medicine</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Pharmaceutical Sciences and Molecular Medicine</td>
</tr>
</tbody>
</table>

* Not accepting applications at this time.

COLLEGE OF VETERINARY MEDICINE

Dori L. Borjesson, Dean
Bustad Hall, Room 110
509-335-9515
https://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. Undergraduate, professional, and graduate degree programs within the college include classroom instruction, seminars, special projects, and research opportunities, which together provide the education needed to meet society's needs.
Four undergraduate majors are housed in the College of Veterinary Medicine - Biochemistry, Genetics & Cell Biology, Microbiology, and Neuroscience. Graduating students choose to pursue many different career paths after graduation such as human or veterinary health professions, research careers, K-12 education, public health, and other careers that rely on a solid foundation of knowledge and skills in basic and applied biomedical sciences. The benefits of being a major in these programs include: preparation for postbaccalaureate professional or graduate education, research opportunities with WSU faculty members beginning the freshman year, academic scholarships, and faculty advising for students.

Graduate students are prepared for 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, mechanism of muscle contraction, chemotaxis, reproductive biology, immunology, infectious diseases of humans and animals, cellular and systems neurosciences, and global health. In addition to requirements unique to each degree granting program, graduate students participate in interdisciplinary training and professional development opportunities sponsored by the integrated Program in Biomedical Sciences (iPBS). There are also combined graduate degree and clinical residency or pathology residency programs administered through the Departments of Veterinary Clinical Sciences and Veterinary Microbiology and Pathology, respectively, as well as investigator-initiated programs with selected individuals.

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 National Academy of Medicine and Washington State Academy of Sciences, 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:

<table>
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<tr>
<th>Degree</th>
<th>Academic Area</th>
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<tbody>
<tr>
<td>Doctor of Veterinary Medicine</td>
<td>Veterinary Medicine</td>
</tr>
<tr>
<td>Bachelor of Science</td>
<td>Biochemistry, Genetics &amp; Cell Biology, Microbiology, Neuroscience</td>
</tr>
<tr>
<td>Master of Science</td>
<td>Biomedical Sciences, Molecular Biosciences, Neuroscience</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>Biomedical Sciences, Molecular Biosciences, Neuroscience</td>
</tr>
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</table>

Washington, Idaho, Montana, Utah (WIMU) Regional Program in Veterinary Medical Education

Washington State University’s DVM education program is offered in a regional partnership with the University of Idaho, Montana State University, and Utah State University. This regional program involves instruction on the WSU campus, at Montana State University (Bozeman, MT), and at Utah State University (Logan, UT). Specific quotas of students to be admitted from Idaho, Montana, 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). Under the terms of this agreement, a student admitted to the college who is a resident of participating states or territories is sponsored financially by their home state or territory, which covers a substantial portion of non-resident tuition. Students must apply to their home state or territory 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 Western Interstate Commission for Higher Education, 303-541-0200 or info@wiche.edu.