

# Colleges and the Graduate School

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

**Daniel J. Bernardo, Dean**  
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**509-335-4562**  
**www.cahnrs.wsu.edu**

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 resources.

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.

Agriculture 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 pre-school to third grade educators, 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

Degree	Department
<b>Bachelor of Science</b>	
Agricultural and Food Systems	CAHNRS Academic Programs <i>(including Agricultural and Food Business Economics, Agricultural Education, Agricultural Technology and Production Management, Agriculture and Food Security, and Organic Agriculture Systems)</i>
Animal Sciences	Animal Sciences <i>(including Industry, Production Management, and Science/Pre-Veterinary Medicine)</i>
Economic Sciences	Economic Sciences <i>(including International Trade &amp; Development, Graduate School Preparation, Financial Markets, Environmental and Resource Economics, Business Economics, Agricultural Economics, and Economic Analysis and Policy)</i>
Food Science	Food Science
Integrated Plant Sciences <i>(Pending state approval)</i>	Crop and Soil Sciences Horticulture and Landscape Architecture <i>(including Agricultural Biotechnology, Field Crop Management, Fruit and Vegetable Management, Nursery and Greenhouse Management, Landscape Design and Implementation, Turfgrass Management, and Viticulture and Enology)</i>
Natural Resource Sciences	Natural Resource Sciences <i>(including Natural Resource Sciences and Wildlife Ecology)</i>

<b>Degree</b>	<b>Department</b>
<b>Bachelor of Landscape Architecture</b>	
Landscape Architecture	Horticulture and Landscape Architecture
<b>Bachelor of Arts</b>	
Apparel, Merchandising, and Textiles	Apparel, Merchandising, Design, and Textiles
<i>(including Apparel Design, and Merchandising)</i>	
Human Development	Human Development
<i>(including Adolescence, Gerontology, Early Childhood and Family Studies Certificates, teacher certification in Early Childhood Education and Family and Consumer Sciences Education)</i>	
Interior Design	Interior Design
<b>Master of Regional Planning</b>	
Regional Planning	Earth and Environmental Science
<i>(Interdisciplinary Degree)</i>	
<b>Master of Science</b>	
Agriculture	Crop and Soil Sciences
Animal Sciences	Animal Sciences
Biological and Agricultural Engineering	Biological Systems Engineering
Crop Science	Crop and Soil Sciences
Entomology	Entomology
Food Science	Food Science
Horticulture	Horticulture and Landscape Architecture
Landscape Architecture	Horticulture and Landscape Architecture
Molecular Plant Sciences	Molecular Plant Sciences
Natural Resource Sciences	Natural Resource Sciences
Plant Pathology	Plant Pathology
Soil Science	Crop and Soil Sciences
Statistics	Statistics
<i>(Interdisciplinary Degree)</i>	
<b>Master of Arts</b>	
Apparel, Merchandising, and Textiles	Apparel, Merchandising, Design, and Textiles
Applied Economics	Economic Sciences
Human Development	Human Development
Interior Design	Interior Design
<b>Doctor of Philosophy</b>	
Agricultural Economics	Economic Sciences
Animal Sciences	Animal Sciences
Biological and Agricultural Engineering	Biological Systems Engineering
Crop Science	Crop and Soil Sciences
Economics	School of Economic Sciences
Entomology	Entomology
Food Science	Food Science
Horticulture	Horticulture and Landscape Architecture
Molecular Plant Sciences	Molecular Plant Sciences
Plant Pathology	Plant Pathology
Soil Science	Crop and Soil Sciences
Statistics	Statistics
<i>(Interdisciplinary Degree)</i>	

## COLLEGE OF BUSINESS

**Eric R. Spangenberg, Dean and Maughmer Freedom Philosophy Chair**  
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**509-335-3596**  
**[www.business.wsu.edu](http://www.business.wsu.edu)**

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 two 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.

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; information systems; finance, insurance and real estate; marketing; and management and operations—offer the following majors for the Bachelor of Arts in Business Administration degree:

- Accounting
- Accounting and Information Systems
- Business Administration (Vancouver and Tri-Cities campuses only)
- 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 a major in Hospitality Business Management and a major in Wine Business Management.

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

### Minors

Minors are available in the following business administration fields: accounting, business administration [only non-business majors are eligible], entrepreneurship, finance, human resource/personnel, international business, management information systems, and marketing. A minor in hospitality business management is also available. For specific information regarding minor requirements, see the Business Administration and Hospitality Business Management sections of this catalog.

## Admission

Admission 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 Business Administration

## COLLEGE OF COMMUNICATION

**Lawrence Pintak, Founding Dean**  
**Communication Addition, Room 101**  
**509-335-7333**  
**[www.communication.wsu.edu](http://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 exposure to new computer-based technologies. The Edward R. Murrow College of Communication has three computer labs, including a writing lab, an advanced graphics and data analysis lab, and a broadcast news lab; television production studios and TV editing suites; a radio station and radio/audio labs; and a state-of-the-art news production/broadcast lab with NewStar computer system.

The Edward R. Murrow College of Communication offers sequences in communication fields: advertising, broadcasting, journalism, and public relations. It offers the only comprehensive broadcast program in the state of Washington. The School is noted for combining 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:

- (1) Complete Communication 101, 245, 265, 295 and Communication Studies 102
- (2) Earn a grade no lower than C in Communication 295.

The Communication GPA and the cumulative GPA are averaged together. Students will then be placed in rank order. The top students then are certified based on how many spots are available that semester, approximately 140 spots in Fall; 115 spots in Spring; and 40 spots in the Summer. Limitation is imposed because of limited space, equipment and faculty resources. Students transferring into the department with 55 or more hours should complete the certification requirements within two semesters.

All students should apply to certify before earning 90 credit hours.

COM 295 - All students must apply for Communication 295 Media Writing. Entrance to Communication 295 is based on cumulative GPA, for transfer students it is based on your transfer GPA. The course should be taken your second semester sophomore year or first semester junior year to graduate in four years. Applications are available outside of the Main Office in October for the Spring semester, and in March for the Summer and Fall semesters. A student should have at least 40 credits before applying. Upon completion of Communication 295 a student must apply for certification.

## 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:

<b>Degree</b>	<b>Emphasis</b>
<b>Bachelor of Arts, Communication</b>	Advertising Applied Intercultural Communication

Broadcast News  
 Broadcast Production  
 Journalism  
 Organizational Communication  
 Public Relations  
 Communication, Organizations, and Culture  
 Media, Health, and Social Issues  
 Communication

**Master of Arts, Communication**

**Doctor of Philosophy**

**COLLEGE OF EDUCATION**

**Judy Nichols Mitchell, Dean**  
**Cleveland Hall**  
**509-335-1738**  
**www.education.wsu.edu**

The College of Education consists of the Department of Educational Leadership and Counseling Psychology and the Department of Teaching and Learning. The college has both degree and certification programs. 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 counseling 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 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.

School-focused curricula at all degree levels in the College of Education are accredited by the National Council for Accreditation of Teacher Education. The doctoral program in counseling psychology is accredited by the American Psychological Association. The College of Education is a member of the American Association of Colleges for Teacher Education and the University Council on Educational Administration.

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:

<b>Degree</b>	<b>Department</b>
<b>Bachelor of Arts, Education</b>	Teaching and Learning
<b>Bachelor of Arts, Sport Management</b>	Educational Leadership and Counseling Psychology
<b>Bachelor of Science, Kinesiology</b> <i>(Athletic Training, or Movement Studies, or Health and Fitness)</i>	Educational Leadership and Counseling Psychology
<b>Master of Education</b>	Counseling Curriculum and Instruction Educational Leadership (K-12)

Educational Psychology  
 ESL/Bilingual  
 Higher Education Administration  
 Literacy  
 Special Education  
 Sport Management  
 Counseling  
 Curriculum and Instruction  
 Educational Leadership (K-12)  
 Educational Psychology  
 ESL/Bilingual  
 Higher Education Administration  
 Literacy  
 Special Education  
 Sport Management  
 Elementary Education  
 Secondary Education  
 Educational Leadership (K-12)  
 Higher Education Administration  
 Special Education  
 Teacher Leadership  
 Educational Leadership (K-12)  
 Counseling Psychology  
 Cultural Studies and Social Thought in Education  
 Educational Psychology  
 Higher Education Administration, Student Affairs  
 Language and Literacy Education  
 Math Education  
 Special Education

**Master of Arts**

**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.cca.wsu.edu**

The College of Engineering and Architecture provides instruction, research, and public service in engineering, architecture, construction management, computer science, and materials science. Academic units in the college offering engineering degree programs are chemical engineering and bioengineering, civil and environmental engineering, electrical engineering and computer science, mechanical and materials engineering, and mechanical engineering and computer science in Vancouver. The School of Architecture and Construction Management offers degrees in architecture and construction management. The PhD in Materials Science is offered through an interdisciplinary program through the College of Engineering and Architecture and the College of Sciences.

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.

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 of the college also serve as editors, authors, and reviewers for professional journals serving the nation and the world.

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.

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):

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

## 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](http://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/](http://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, pharmacology and toxicology, 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 Agribusiness, Graduate Certificate in Biotechnology Management, Graduate Certificate in Constraints Management, Graduate Certificate in Construction Project Management, 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 Interdisciplinary Environmental Biogeochemistry, Graduate Certificate in Manufacturing Leadership, Graduate Certificate in Optoelectronics, 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](http://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 graded graduate-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. 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.

## 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 Distance Degree Programs

Credit earned in graduate-level courses taken through the WSU Distance Degree Programs 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 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 by registering in one of the following categories: 1) full-time enrollment, 2) part-time enrollment, 3) continuous enrollment 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 reenrollment form to reenroll and will be assessed a fee. 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 reenrollment form and pay a reenrollment fee. 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.

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 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, Interim Dean**  
**Honors Hall, Room 130**  
**509-335-4505**  
**honors.wsu.edu**

The University Honors College at Washington State University is one of the oldest and most well-known honors colleges in the nation. The mission of the Honors College is to offer students of high ability and initiative 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.

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.

### Admission to the University Honors College

High school students who have shown outstanding scholastic ability, intellectual achievement, motivation, and extracurricular and community involvement may apply to the Honors College for admission. 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 currently freshmen (by credits) at Washington State University, and achieve a grade point average of at least 3.5 their first semester, can also apply to join by completing the Honors College application. Transfer and international students may apply to the Honors College. However, we recommend talking with an advisor first 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 contributes to a liberal education through courses in the arts, communication, humanities, and social sciences for undergraduate students in all colleges at WSU, regardless of major. As a bearer of the tradition of liberal education, the College of Liberal Arts places much importance upon soundly conceived and well-taught courses developed to give a properly balanced presentation of the basic areas of human endeavor. Undergraduate students are assured a nucleus of courses in arts, communication, humanities, and social sciences; knowledge of at least one foreign language; and selection of a concentration from a broad array of major and minor fields. Graduate students are assured of advanced study and research in their selected fields.

The College of Liberal Arts offers programs that prepare students for professions and careers. Graduate as well as undergraduate degrees are offered by most departments.

A number of curricula are offered to give preprofessional training (such as pre-law) to students who will then enter professional schools.

Washington State University's graduate training program in clinical psychology is accredited by the American Psychological Association. The

speech-language pathology and audiology programs are accredited by the State Board of Education and the American Speech-Language-Hearing Association Educational Standards Board. The Music Program is a full member of the National Association of Schools of Music.

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.

## 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, speech, and communication is also recommended.

Visit our Web site at [libarts.wsu.edu](http://libarts.wsu.edu).

## Requirements for Graduation

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 of the catalog.

Departmental units offering degrees and majors include anthropology, comparative ethnic studies, English (includes DTC), fine arts, foreign languages and cultures, history (includes social studies), music, philosophy, political science, psychology, sociology, speech and hearing sciences, theatre arts and drama, and women's studies. Additional degree curricula offered, listed alphabetically in this catalog, include American studies, Asia program, criminal justice, and general studies (classics, humanities, international area studies, liberal arts, linguistics, religious studies, and social sciences).

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 communication, comparative ethnic studies, English, history, philosophy, and sociology.

## Degrees

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

### Degree

#### Bachelor of Arts

#### Department or Area

American Studies  
 Anthropology  
 Asian Studies  
 Comparative Ethnic Studies  
 Criminal Justice  
 Digital Technology and Culture  
 English  
 Fine Arts  
 Foreign Languages and Cultures  
 History  
 Humanities  
 Leadership and Professional Studies  
 (Spokane)  
 Liberal Arts  
 Music  
 Philosophy  
 Political Science  
 Psychology  
 Public Affairs (Vancouver)  
 Social Sciences  
 Social Studies  
 Sociology

#### Bachelor of Fine Arts

#### Bachelor of Music

#### Bachelor of Science

#### Master of Arts

#### Master of Fine Arts

#### Master of Public Affairs

#### Master of Science

#### Doctor of Philosophy

Speech and Hearing Sciences  
 Theatre Arts and Drama  
 Women's Studies  
 Fine Arts  
 Music  
 Psychology  
 American Studies  
 Anthropology  
 Criminal Justice  
 English  
 Foreign Languages and Cultures  
 History  
 Music  
 Philosophy  
 Political Science  
 Sociology  
 Speech and Hearing Sciences  
 Fine Arts  
 Public Affairs (Vancouver)  
 Psychology (Clinical and  
 Experimental)  
 American Studies  
 Anthropology  
 English  
 History  
 Political Science  
 Psychology (Clinical and  
 Experimental)  
 Sociology

## COLLEGE OF NURSING

**Patricia Butterfield, Dean**  
**W. 2917 Ft. George Wright Drive**  
**Spokane, WA 99224-5291**  
**509-324-7337**  
**[www.nursing.wsu.edu](http://www.nursing.wsu.edu)**

The College of Nursing is a college of nursing shared in common by three institutions of higher education: Eastern Washington University, Washington State University, and Whitworth University.

Instructional programs are conducted at the baccalaureate and master's degree levels to develop responsible citizens and to provide the professional knowledge, skills, and values essential to the practice of nursing society. 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 and specialized nursing practice.

## 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 700 generic and registered nurse students are enrolled in the baccalaureate nursing program at Spokane, the outreach site in Yakima, the branch campuses in Tri-Cities and 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, one of the consortium schools, 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 Intercollegiate College of Nursing building in Spokane, the outreach site in Yakima, and the WSU branch 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 300-400-level nursing major in Spokane and Yakima 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 the Intercollegiate College of Nursing/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

Established in 1983, the Master of Nursing program prepares nurses for leadership in psychiatric/mental health nursing, community-based population focused nursing, and family nurse practitioner positions. The program is accredited by the National League for Nursing and approved by the American Association of Colleges of Nursing. Degree requirements can be completed in four semesters of full-time study. Individualized programs can be arranged to facilitate part-time study. Applications must be complete by March 15 for fall admission and by November 1 for spring admission.

## Professional Development

The Professional Development Program focuses on specific learning needs of registered nurses and other professional health care workers. The technology and resource strengths of the Intercollegiate College of Nursing/WSU College of Nursing are used to provide cost effective opportunities to prepare individuals for professional certification, recertification, and/or relicensure. Contracted partnerships with health care agencies/organizations and with other WSU entities are arranged to design and offer specific professional offerings. For further information, 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:

Degree	Area
<b>Bachelor of Science in Nursing</b>	Generalized practice of professional nursing
<b>Master of Nursing</b>	Community-based population-focused nursing Family nurse practitioner Psychiatric/mental health nurse practitioner
<b>Doctor of Philosophy</b>	Nursing

## COLLEGE OF PHARMACY

**James P. Kehrer, Dean**  
**Wegner Hall, Room 105**  
**509-335-5901**  
**[www.pharmacy.wsu.edu](http://www.pharmacy.wsu.edu)**

### Admission

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 third professional year of the PharmD curriculum is delivered in the Health Sciences building located on the Washington State University Spokane campus. The fourth professional year of the PharmD curriculum consists of advanced experiential training in which students will be assigned to one of the following geographic locations: Spokane, Yakima, Vancouver, Tri-Cities, or Pullman. They 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 February 1. Although a bachelor's degree is not required for admission, prerequisites for admission require more than two 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 Affairs at 509-335-1402.

### Degrees

The College of Pharmacy offers the following degree programs:

Degree	Area
<b>Master of Science</b>	Pharmacology and Toxicology
<b>Master of Health Policy and Administration</b>	Health Policy and Administration
<b>Doctor of Pharmacy</b>	Pharmacy
<b>Doctor of Philosophy</b>	Pharmacology and Toxicology

## COLLEGE OF SCIENCES

**Michael D. Griswold, Dean**  
**Morrill Hall, Room 208**  
**509-335-5548**  
**[www.sci.wsu.edu](http://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. The college shares support and use of several University-wide facilities such as the Laboratories for Bioanalysis and Biotechnology, and the Environmental Research Center.

Major research areas in the college include biotechnology, shock physics, molecular and atomic interactions on surfaces, continuum mechanics, avian environmental physiology, regulation of cellular growth and differentiation, genetic engineering, cytogenetics, 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, repair of DNA, biochemical mechanism of muscle contraction, 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:

### Degree Bachelor of Science

**Department or Area**  
 Biochemistry  
 Biology  
 Biotechnology  
 Chemistry  
 Environmental Science  
 Exercise Physiology and Metabolism  
 (advising only)  
 Genetics and Cell Biology  
 Geology  
 Mathematics  
 Microbiology  
 Physics  
 Sciences—General Studies  
*(includes Basic Medical Science;  
 Biological Sciences; Mathematics;  
 and Physical Sciences)*  
 Zoology  
 Biology (non-thesis option)  
 Botany  
 Chemistry  
 Environmental Science  
 Geology  
 Mathematics  
 Molecular Biosciences  
 Molecular Plant Sciences  
 Physics  
 Plant Physiology  
 Statistics  
 Zoology

### Master of Science

## Doctor of Philosophy

Botany  
 Chemistry  
 Environmental and Natural  
 Resource Sciences  
 Geology  
 Materials Science  
 Mathematics  
 Molecular Biosciences  
 Molecular Plant Sciences  
 Physics  
 Plant Physiology  
 Zoology

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.

## COLLEGE OF VETERINARY MEDICINE

**Brian Slinker, Dean**  
**Bustad Hall, Room 110**  
**509-335-9515**  
**[www.vetmed.wsu.edu](http://www.vetmed.wsu.edu)**

The curriculum of the College of Veterinary Medicine prepares students for positions in many areas of veterinary medicine, e.g., private practice, U.S. Public Health Service, federal and state disease regulatory programs, industry, teaching, research, and military medicine. Fields of study include animal health, disease eradication, comparative pharmacology and toxicology, environmental sciences, laboratory animal medicine, and comparative biomedical studies to help resolve human disease problems.

The professional degree, Doctor of Veterinary Medicine, is recognized by all state and territorial licensing boards, as well as those in foreign countries.

The College of Veterinary Medicine is accredited by the Council of Education of the American Veterinary Medical Association.

Complete information on admission and program requirements may be found in this catalog under departmental listings and on our web site.

## Degrees

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

Doctor of Veterinary Medicine  
 Bachelor of Science in Neuroscience  
 Master of Science in Veterinary Science  
 Master of Science in Neuroscience  
 Doctor of Philosophy (Neuroscience and Veterinary Science)

## Western Regional Higher Education Compact

The College of Veterinary Medicine at Washington State University has entered into a regional educational program with the states of Arizona, Hawaii, Montana, New Mexico, Nevada, North Dakota, Utah and Wyoming. Under the terms of this compact, a certified student admitted from one of these states is sponsored financially by the home state and is subject to the same fees as Washington resident students.

Students must apply to their home state for certification in addition to making application to the College of Veterinary Medicine, Washington State University. Additional information regarding 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](http://www.wiche.edu).

## Regional Program in Veterinary Medical Education

Washington State University has agreed to engage in a regional program in veterinary medicine with the University of Idaho. The regional program involves instruction on the WSU campus and at the Caine Center (UI). Specific quotas of students from Idaho have been established under the terms of this agreement.