

College of Science and Health

Michael R. Hulsizer, Dean

College of Science and Health website (external to catalog)

Mission Statement

Science is the foundation of our understanding of the natural and physical world that sustains us, life on our planet, and of humanity's efforts to promote health in the body, mind, and spirit for all persons and peoples. The science and health disciplines in our college directly contribute to healthy groups, organizations, and communities across cultural contexts and within sustainable natural environments. Through interprofessional collaborations, the College of Science and Health facilitates high-impact educational and professional experiences that develop global citizens whose work promotes the advancement of science and holistic health, healing and well-being of persons and peoples, and strives toward a healthier natural world in ways that are equitable, inclusive, accessible, and sustainable.

Degree Distinctions

International Distinction

The student must have a significant, practical, international field experience in a country other than his or her native country. This experience may be an internship, community service, volunteer work with a nongovernmental organization or other organization, paid employment in the second country, or other field experience that is proposed and approved.

The approval process involves submission of the proposed plan, identifying what the student will accomplish, and who will be involved, i.e. supervisor of the actual field experience, contact person at the University, etc. The student will work with his or her advisor and the Director of the Center for International Education in developing the plan for the international field experience. Prior to the field experience, the student must receive approval of the plan from the department in which the student expects to receive her or his undergraduate degree.

Approval must also be given by the Academic Director (or appointee) of the country in which the field experience will take place. Approval forms will be available electronically. During the field experience, a journal will be kept and will be handed in at the end of the experience along with a written synopsis of the field experience. The department will determine if the experience was acceptable or unacceptable.

Students should register for ISTL 2500 for 3-5 credit hours. Grade will be pass or fail. A minimum of 10 hours and a maximum of 20 hours per week will be spent doing the field experience.

Study Abroad Distinction

Students must have completed at least one term of study (eight weeks) as a full-time student at a Webster University international campus or a Webster University affiliated campus abroad. This campus must be a campus other than the student's home campus.

Natural Sciences and Mathematics

Stephanie Schroeder, Chair

Majors and Degrees

- Biological Sciences (BS)
Optional emphasis areas:
 - Chemistry
 - Bioinformatics
 - Health and Medicine
 - Research and Technology
- Biology (BA)
Optional emphasis areas:
 - Biodiversity
 - Bioinformatics
 - Education
 - Health Science
- Chemistry (BS)
- Exercise Science (BS)
- Mathematics (BS)

Minors

- Biology
- Chemistry
- Exercise Science
- General Science
- Mathematics

Certificates

- Entrepreneurship (Exercise Science majors track)
(In cooperation with the Walker School of Business & Technology)

Pre-Professional Programs

- Pre-Engineering
- Pre-Dental
- Pre-Medical
- Pre-Nursing
- Pre-Occupational Therapy
- Pre-Pharmacy
- Pre-Veterinary

Teacher Certification Opportunity

Students interested in middle school or secondary mathematics education generally earn majors in mathematics and education while completing the requirements for state certification. The Coordinator of Mathematics Pre-Service Education works closely with these students to assure they are prepared and qualified for their practice teaching experience.

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in mathematics (pre-engineering and non-engineering)) and five minor programs (biology, chemistry, exercise science, general science, and mathematics). We also offer individual courses satisfying the requirements for general education and special interest courses in environmental studies, education and health science.

Given the importance of independent research and experimentation in science, the department faculty are committed to providing hands-on research opportunities to all majors in the biological sciences. Our curriculum includes extensive laboratory experience, ensuring that each student will develop proficiency in a wide range of lab techniques, as well as in the analysis, interpretation and presentation of scientific data.

Special Requirements

Courses taken more than 10 years ago may not count as the prerequisite for certain advanced courses.

Transfer students must complete a minimum of 18 credit hours at Webster University within the Natural Sciences and Mathematics Department. This must include Research Methods (BIOL 4400 or CHEM 4400) and Senior Thesis (BIOL 4420, BIOL 4430 or CHEM 4430) for the appropriate majors. Transfer courses taken prior to enrollment at Webster University may be used to substitute for required courses if accepted by the chair.

No more than 6 credit hours of independent study courses may count toward the required biology hours. Coursework completed with a grade of "D" may not be counted toward the fulfillment of departmental requirements.

Nursing Department

Susan McFarlan, Chair

Majors and Degrees

- Nursing (BSN)
RN to BSN
Bachelor of Science in Nursing

Department Mission

The Nursing Department's mission is to provide exemplary experiential, student centered learning in an environment that encourages lifelong learning, accountability for self, respect for all humans and individual excellence in nursing practice.

The Department's vision is to be recognized in the region as the institution of choice for baccalaureate nursing degree completion and for attaining master's degrees in human services and in

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Minors

- Psychology: General
- Psychology: Health

Pre-Professional Programs

- Pre-Occupational Therapy

Department Mission

The Department of Psychology provides students with a solid foundation in the major theoretical perspectives of psychology and its scientific approach. By studying psychology at Webster, students attain a broad understanding of and appreciation for the complexity and diversity of human behavior within a global context.

The bachelor degrees in psychology prepare students for a wide range of professional career opportunities. To that end, there are four different psychology majors to assist students in meeting their career ambitions: psychological science (BS), psychology (BA), psychology (BA) with an emphasis in mental health, and psychology (BS). These majors are designed to prepare students for a variety of career options and graduate opportunities. Students also attain the necessary prerequisites for graduate education in psychology or for professional training in related fields such as counseling, education, social work, criminal justice, law, medicine, business or management. In addition,