COLLEGE OF SCIENCE

The College of Science faculty and students pursue both curiosity-driven, fundamental research to better understand the broader world and use-inspired research to tackle some of the grand challenges of science, engineering, business and education.

We offer internationally recognized undergraduate and graduate programs across the life, physical, mathematical and computational sciences. Specifically, we offer courses of study in biology, biochemistry and biophysics, biohealth sciences, microbiology, zoology, chemistry, physics, mathematics and statistics. We also offer 12 pre-professional programs to prepare students for careers in healthcare or medical professions.

The College of Science is an inclusive, welcoming and intellectually stimulating environment to a diverse community. Working together as one, the College of Science is a nucleus of learning, societal engagement, achievement, and discovery.

Research and instruction in the College of Science are enhanced within a university of outstanding professional schools in engineering, oceanography, agriculture, forestry, and pharmacy. Science students can enrich their degrees with courses from these areas. Students also have opportunities to make original discoveries while working on research with world-class scientists.

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Majors

The majors of the College of Science are informally divided into the following groups:

Life Sciences

- Biochemistry and Biophysics, Biochemistry and Molecular Biology, BioHealth Sciences, Biology, Microbiology, Molecular and Cellular Biology (graduate only), Zoology.

Physical Sciences

- Chemistry and Physics

Pre-professional Programs

- BioHealth Sciences

Computational, and Mathematical Sciences

- Mathematics and Statistics (graduate only)

Double Degrees

Undergraduates with majors in the College of Science can earn a second degree in education, innovation management, international studies, or sustainability. See the College of Education, College of Business, International Programs or Department of Forest Ecosystems and Society sections of this catalog for more information.

Pre-Professional Programs

The College of Science offers special programs in health-related fields to help students meet entrance requirements for professional schools in clinical laboratory science, dentistry, medicine, optometry, pharmacy, physical therapy, physician assistant, podiatry, and veterinary medicine.

Curricula in Science

Curricula in science lead to the following degrees: bachelor of arts (BA), bachelor of science (BS), master of arts (MA), master of science (MS), professional science master's (PSM), and doctor of philosophy (PhD). (See the Graduate School for advanced degree requirements.) The college also participates in the Master of Arts in Interdisciplinary Studies (MAIS) program.

Teacher Certification

All professional teacher education occurs in the College of Education. The following majors in the College of Science are suitable for teaching middle school and high school and have an education option available: biology (pre-education), chemistry (chemistry education), mathematics (secondary teaching emphasis), and physics (physics education).

Certain mathematics courses (MTH 211 *FOUNDATIONS OF ELEMENTARY MATHEMATICS, MTH 212 FOUNDATIONS OF ELEMENTARY MATHEMATICS, MTH 390 FOUNDATIONS OF ELEMENTARY MATHEMATICS) are highly recommended for students who plan to teach elementary or secondary mathematics. See the College of Education section of this catalog for admission to the teacher licensure programs.

Summer Courses for Secondary School Science and Mathematics Teachers

During the summer session, the College of Science offers a number of courses designed especially for high school teachers of science and/or mathematics. For offerings and full descriptions see the Summer Session (http://summer.oregonstate.edu) website.

Scholarships

The College of Science offers a variety of scholarships to currently enrolled College of Science students who have taken at least 28 credits at OSU. For more information and application forms contact the College of - Science or see http://www.science.oregonstate.edu/node/108.

Degree Requirements

To graduate with a BS degree in the College of Science, undergraduate students must fulfill the following requirements:

University Baccalaureate Core (48)

College of Science Requirements
(These credits can also fulfill part of the baccalaureate core requirements.)

- Mathematical sciences (12)
- Physical, earth, and/or biological sciences (15) to include a two-term sequence (At least one term in biological science and one term in physical or earth science. Must include a two-term sequence in one of these sciences.)
- Department requirements (see each department)

Some departments also grant a BA degree that requires a full year of a college-level (200-level or above) foreign language and at least 9 credits of College of Liberal Arts electives in addition to credits required for the baccalaureate core. See the department listings for specific requirements.

A minimum 2.00 GPA is required in College of Science majors and minors; (S/U grading is not allowed in science majors or minors).

The curricula are shown for each major; some substitutions can be made with department and college approval. Unless otherwise indicated, the conditions and credits for research, thesis, reading and conference, and seminar are to be arranged with the instructor involved.