

Department of Chemistry

Oregon State University 153 Gilbert Hall Corvallis, OR 97331

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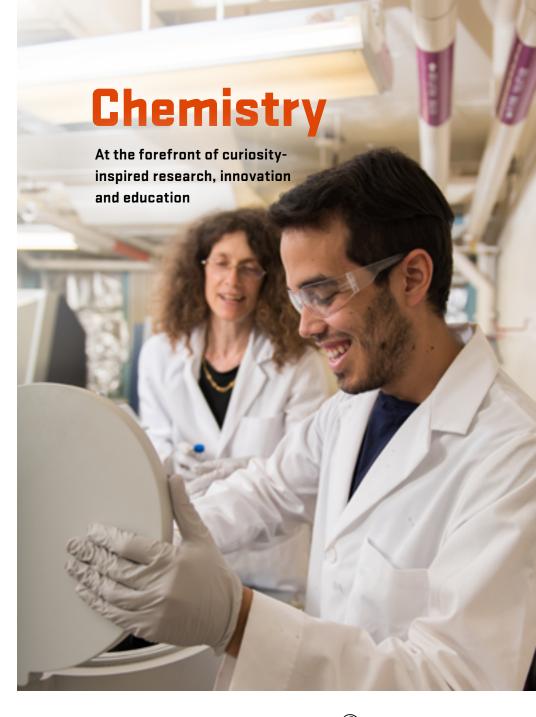
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College of Science

Oregon State University 128 Kidder Hall Corvallis, OR 97331

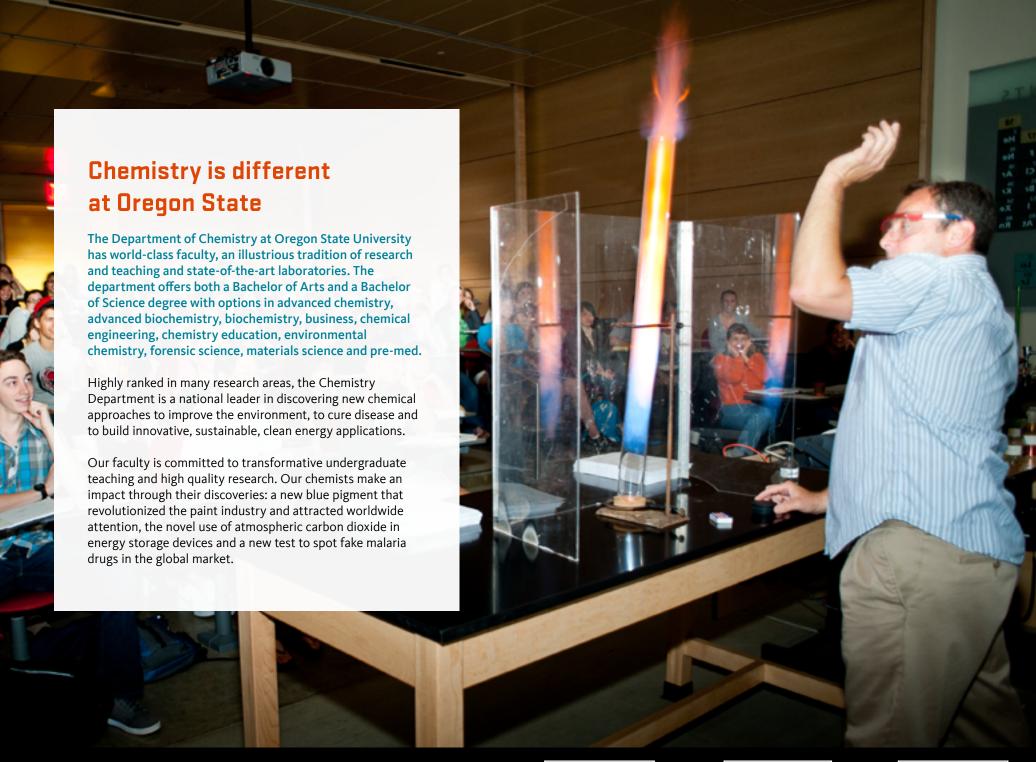
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Transformative power of research

To prepare the next generation of science leaders and 21st century citizens, faculty engage students in research and scientific inquiry. Students learn how to formulate hypotheses, design and execute experiments, analyze data and prepare and present their research.

The undergraduate experience is greatly enhanced by engaging in research. Students learn to balance collaborative and individual work, develop a passion for research and learn the value of teamwork.

The **Experimental Chemistry laboratory** courses are a distinctive feature of our program. These courses are centered on inquiry-based, integrated projects that emphasize first-hand experience using modern instrumentation.

The \$62 million **Linus Pauling Science Center** houses cuttingedge general chemistry laboratories for active learning.

The Natural Products and Small Molecule Nuclear Magnetic Resonance Facility features state-of-the-art equipment for hands-on learning.

Student success

Advisors help students make sound academic decisions that support their success and goals. They guide students through university policies to stay on track to graduation and write recommendations to graduate/professional schools and employers. The department has a formal internship program for chemistry majors to connect them to industry. For course requirements, refer to OSU's General Catalog online. Contact the department for career or graduate program information.

A Careers in Chemistry course helps chemistry majors form peer mentoring teams, network, develop study groups and get off to a successful start in college. The OSU Chemistry Club offers students a social outlet with events, speakers and outreach activities to generate interest in science.



Sample curriculum

YEAR ONE

Chemistry
Careers in Chemistry
Calculus
Principles of Biology
General course:
Multicultural Perspectives in
Natural Resources
Study abroad

YEAR TWO

Organic Chemistry
Experimental Chemistry
Infinite Series & Sequences or
Power Series & Matrix methods
Applied Differential Equations
or Linear Algebra
Physics
General course:
Argument and Critical Discourse
Summer research

YEAR THREE

Analytical Chemistry
Physical Chemistry
Experimental Chemistry II
General course:
Sustainable Communities
Internship

YEAR FOUR

Inorganic Chemistry
Experimental Chemistry II
Biochemistry
Approved career-supportive
electives
Electives, upper division courses

Recent graduates work as:

- Environmental chemists
- Laboratory managers
- High school teachers
- College professors
- Quality control chemists
- Pharmacists
- Forensic scientists
- Lawyers
- Biotechnology chemists
- Process engineers
- Materials science chemists
- Health professionals
- Research assistants
- Research technicians

What can you do with a degree in Chemistry?

Engage in cutting-edge research, develop high-performance products, discover solutions for clean water and medicine and positively influence people's lives around the world.

Chemistry is the science of molecules and materials that intersects with other sciences such as physics, geology and biology. Chemistry studies range widely between atoms, molecules and chemical compounds to drug discovery, electrochemical catalysis and the chemical devices and structures of nanoscience. Given its fundamental importance to daily life, career opportunities abound for Chemistry majors.

Career preparation

Graduates are career-ready and competitive when they enter the workforce into chemical industries or related fields as well as in wildly different areas, ranging from the food and beverages industry to medicine and health care to scientific organizations and research agencies.

Chemistry graduates are successful in top tier graduate schools in areas of analytical, materials, physical chemistry and bioorganic chemistry as well as in professional programs in science education, business, forensic science, pharmacy, medicine and dentistry. Many graduates work in a wide range of careers throughout the Pacific Northwest and across the country.

