

Pre-dentistry

Departments
and Programs
in the College
of Science

Biochemistry &
Biophysics

Biology

Botany & Plant
Pathology

Chemistry

Environmental
Sciences

Geosciences

Mathematics

Microbiology

Molecular &
Cellular Biology*

Physics

Pre-professional
Programs in the
Health Sciences

Professional
Science Masters*

Science &
Mathematics
Education*

Statistics*

Zoology

*graduate program only

... a pre-professional option within a General Science bachelor's degree. Dentistry is a branch of the healing sciences dedicated to the care and treatment of teeth and surrounding tissues. The profession includes many specialties—each essential to total health. Dentists promote good health through the prevention, diagnosis, and treatment of oral diseases and disorders.

Career Opportunities

The U.S. Department of Labor projects employment of dentists to grow about as fast as average for all occupations through 2014. Most jobs will result from the need to replace the large number of dentists expected to retire. Job prospects should be good as new dentists take over established practices or start their own. Demand for dental care should grow substantially because of the aging population, but dental hygienists and dental assistants are more likely to handle the routine services.

U.S. Department of Labor, Bureau of Labor Statistics, *Occupational Handbook 2006-07*.

Preparing for Dental School

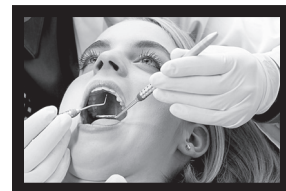
The College of Science at OSU offers a pre-dental program in which students fulfill the requirements for admission to the OHSU School of Dentistry or to other dental schools.

Three choices are available:

1. A four-year major in one of the sciences, such as biology, botany, microbiology, or zoology, and a bachelor's degree from OSU before entering dental school. Choosing one of these majors offers students other employment options, should their plans for dental school change.
2. A four-year major in general science with an option in pre-dentistry leads to a B.S. or B.A degree.
3. A three-year preparation and entry into dental school before graduation from OSU. In this case students can obtain a bachelor's degree in general science from OSU by meeting graduation requirements with science courses taken in the first year of dental school. This option is now very rarely selected.

Prospective dental students at OSU have access to a group of knowledgeable advisors who are ready to help with many decisions. Entering students are encouraged to take a pre-dental orientation course that offers career-related information not available through regular classes. The head of the OHSU Dental School Admissions Committee, practicing dentists, and dental students participate in this seminar.

The Pre-dental Society, an active student club, provides a supportive network for students interested in a career in dentistry. A preceptorship program is available to students who want the opportunity to observe a practicing dentist at work. Although admission to dental school is competitive, in recent years nearly all applicants who completed the OSU program were admitted. OSU has an outstanding placement record and an excellent relationship with the dental schools.



General Science/Pre-dentistry

What to know about Oregon State University

Head Advisor
College of Science
128 Kidder Hall
541-737-4811

OSU Admissions
104 Kerr Administration
541-737-4411
800-291-4192

OSU Financial Aid
Student Employment
Loans & Scholarships
College Work Study
218 Kerr Administration
541-737-2241

OSU Registrar
102 Kerr Administration
541-737-4331

OSU Housing
102 Buxton Hall
541-737-4771

OSU Website
<http://oregonstate.edu>

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<http://catalog.oregonstate.edu/Option-Detail.aspx?code=595&majorid=233>

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Course of Study

Students should see a pre-dentistry advisor early to discuss an appropriate study plan. The curriculum includes yearlong sequences in general and organic chemistry, biology, and physics. Also recommended are additional courses in mathematics, biochemistry, embryology, and genetics to provide a stronger scientific background for future work in dental school. Courses involving laboratory work are particularly good preparation. Students will also have the opportunity to choose a number of electives in science as well as in humanities and social sciences.

Graduation requirements from OSU also include 48 credits of baccalaureate core (BC) courses, consisting of writing/speech (9 cr.), mathematics (3 cr.), fitness (3 cr.), physical and biological sciences (12 cr.), western culture/cultural diversity/literature & arts/social processes/difference, power and discrimination (15 cr.), and contemporary global issues/science, technology and society (6 cr.).

Sample Curriculum

An official graduation checklist may be obtained from an advisor.

Graduation in pre-dentistry requires a total of 40 credits of upper division science. Additional laboratory work in chemistry, microbiology, or zoology is helpful preparation for dental school. Business and art courses are also recommended.

Freshman Year			Sophomore Year		
		credits			credits
General Chemistry	CH 221, 222, 223	15	Organic Chemistry	CH 331, 332, 337	12
Calculus	MTH 251	4	Biology	BI 211, 212, 213	12
Pre-dentistry orientation	BI 107	1	Cell and Molecular Biology	BI 314	4
			Principles of Statistics or Introd. to Statistical Methods	ST 201/202 or ST 351/352 or MTH 252 or MTH 268	8
BC: Writing I	WR 121	3	BC and electives		10
BC and electives		22			
Junior Year			Senior Year		
		credits			credits
General Biochemistry	BB 450, 451	7	Cell Biology	BI 460	3
Genetics	BI 311	4	Embryology	Z 425	5
Human Anatomy and Physiology	Z 331, 332, 333, 341, 342, 343	15	BC: Writing intensive course (history of science)		3
BC and electives		19	General Physics	PH 201, 202, 203	15
			BC and electives		20

Experience.
Explore.
Discover
Achieve.

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Biology

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Mathematics

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