

Mathematical Sciences

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

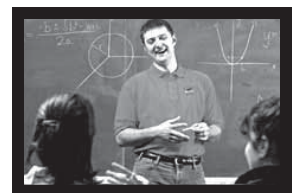
... mathematics, computer science, and statistics. For students interested in mathematics, computers, statistics and applications of all three disciplines, the undergraduate degree in mathematical sciences might be an excellent way to prepare for work in several areas.

Career Opportunities

Career opportunities for graduates with a degree in mathematical sciences are excellent since such interdisciplinary training provides much flexibility. The demand for people trained in mathematical statistics, programming, actuarial mathematics (as applied to insurance), and statistical data analysis is constantly growing. Graduates find employment in industry, with insurance companies, and with state and federal agencies.

Offered by the Department of Mathematics with the cooperation of the Departments of Computer Science and Statistics, the major in mathematical sciences allows students to concentrate in applied mathematics, computer science, mathematical statistics and applied statistics. The program is designed to provide employment opportunities in a variety of settings and to prepare students for graduate work in areas requiring a quantitative background without narrow specialization.

A very helpful resource for freshmen and sophomores at OSU is the Mathematics Learning Center (MLC), which provides individual help and self-study resources for students in algebra, trigonometry, and calculus. Students can stop by the MLC virtually at any time and get help from student tutors or faculty volunteers.



Mathematical Sciences

Course of Study

Students majoring in mathematical sciences begin by taking a common core of courses. They specialize in a particular area of the program in the junior and senior years. Graduation requirements include 48 credits for the baccalaureate core (BC), consisting of writing/communication (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

A sample course of study and an official graduation checklist may be obtained online:

http://www.math.oregonstate.edu/undergrad_deg_progs

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>

For more information, please contact:

Lea Murphy
Head Undergraduate Advisor
Department of Mathematics
College of Science
Oregon State University
368 Kidder Hall
Corvallis, Oregon 97331-4605
phone: 541-737-4686
fax: 541-737-0517

email: murphy@math.oregonstate.edu
<http://www.math.oregonstate.edu>

Oregon State University is an Affirmative Action
Equal Opportunity Employer and complies with
Section 504 of the Rehabilitation Act of 1973.

0806

Freshman and Sophomore Years			credits		
Calculus	MTH 251, 252, 253	12	Applied Differential Equations	MTH 256	4
Discrete Mathematics	MTH 231, 232	8	Introd. to Computer Science	CS 161, 162	8
Introduction to Statistics		4-6	Introduction to C Programming, Data Structures, Computer Architecture, and Assembly Language	CS 151, 261, 271	12
One of					
Introd. to Stat. for Engineers	ST 314				
Probability and Stat. for ECE	ST 317				
Intro. to Statistical Methods	ST 351				
or					
Both of					
Principles of Statistics	ST 201				
Principles of Hypothesis Testing	ST 209		BC courses and electives		40-42

Junior and Senior Years			credits		
GPA of 2.25 or better in required math science courses					
Analysis of Algorithms	CS 325	4	Advanced Calculus	MTH 311	4
Linear Algebra	MTH 341	3	Methods of Data Analysis	ST 411	4
Introduction to Numerical Analysis	MTH 351	3	Introduction to Mathematical Statistics	ST 421, 422	8
BC: Writing Intensive Course one of	MTH 323, 333, 338, CS 361	3-4	Approved upper-division specialization courses from a mathematics list or a computer science list or a statistics list		9-12
BC courses and electives		48-52			

Experience.
Explore.
Discover
Achieve.

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

