MATHEMATICS: PURE MATHEMATICS TRACK (MATH)

Our research specialties are in algebra, analysis, geometry, number theory, probability and topology. The American Mathematical Society has ranked us in the top group of U.S research departments. Industries employ mathematicians doing statistical and actuarial work (for example the financial and insurance industry, and healthcare), in accounting, computer software, and in engineering-related industries, like aerospace. Many mathematicians plan to enter other professions upon graduation, and many attend graduate or professional school in other areas (for example law, medicine, economics or physics). The Pure Mathematics track is for students intending to go to graduate school in mathematics.

TOP FIVE
REASONS TO STUDY THIS MAJOR

1. Increase your capacity to think analytically.

2. Develop skills to solve complex problems.

3. Engage with a variety of mathematic subfields

4. Participate in an active collaborative program.

5. Prepare yourself for a wide variety of future careers or further studies.

MATH +
Mathematics

College of Arts and Sciences
541-346-4705
math.uoregon.edu

WHERE CAN I GO?

Students in Mathematics may choose to pursue a Bachelor of Arts (BA) or Bachelor of Science (BS), a Master of Arts (MA) or Master of Science (MS), or a Doctor of Philosophy (PhD). Mathematics provides students with a foundation for employment in:

Computer systems design firms

Software and technology companies

Local, state, and federal government agencies

Insurance agencies

Brokerage firms

Professional, scientific, and technical consulting firms

Financial companies and banks

Research institutes

K-12 schools

Colleges and universities

ALUMNI JOBS

Actuary analyst

Software engineer

Energy resource analyst

Geologist

Technology consultant

Senior application analyst

COURSES YOU MAY NEED

1ST YEAR
MATH 25x; MATH 307+4 lab, MATH 231/2+2 lab, or MATH 261/2+2 lab; CS 122, CS 210, or other

2ND YEAR
MATH 281, MATH 282, MATH 341

3RD YEAR
MATH 342; MATH 316 & 317

4TH YEAR
Choose one: (a) MATH 391 & 392; MATH 444 & 445; Choose two 3xx-4xx MATH from approved list

MAJOR CREDITS

Required	44
Electives	16
Total	60

CORE EDUCATION REQUIREMENTS

BS or BA Degree Minimum = 180 credits.

Core Education is approximately 71—83 credits depending on transfer credits and placement scores and requires courses in:

Writing

Math and/or CS (BS) or Language (BA)

US: Difference, Inequality, Agency

Global Perspectives

Areas of Inquiry in:

Arts and Letters

Social Science / Science

WHAT WILL I LEARN?

Statistics

Theoretical and applied research

Accounting and finance

Project management

Systems analysis

Risk assessment

Actuarial science

Probabilistic and other analytic methods

Teaching and tutoring

Technical writing

SPECIALIZED COURSES

Analysis and Number Theory

Combinatorics

Differential Equations

Abstract Algebra

History and Applications of Calculus

Topology

Differential Geometry

Mathematical Cryptography

EXPERIENTIAL LEARNING OPPORTUNITIES

Paid summer internships

Experience for Undergraduates (REU)

Math Circle Assistant

ADD A MINOR OR CERTIFICATE

Business Administration

Chemistry

Computer Information Science

Computer Information Technology

Economics

CONTACT US

Tykeson College and Career Advising
541-346-9200
advising.uoregon.edu/tykeson