

# MATHEMATICS (MATH)

## PURE TRACK

The pure track is recommended if you are interested in pursuing graduate studies leading to a career in academia or applied research. The Mathematics Department has been ranked in the top group of research departments in the US, with strengths in algebra, analysis, geometry, number theory, topology and probability.

### TOP FIVE REASONS TO STUDY THIS MAJOR

1. Increase your capacity to think logically and analytically.
2. Develop numerical skills to solve complex problems.
3. Engage with a wide variety of pure and applied topics.
4. Prepare yourself for a wide variety of future careers or future studies.
5. Be part of an active and collaborative program.

### SKILLS YOU'LL DEVELOP

Analytic reasoning

Logical mathematical foundations

Algebra, analysis & topology

Probabilistic & statistical methods using appropriate software

Mathematical writing using LaTeX

Teaching & tutoring

## ALUMNI OCCUPATIONS



Where will your degree take you?

Actuary Analyst

Software Engineer

Professor in College or University

Technology Consultant

Financial Advisor



College of  
Arts and Sciences

College of Arts and Sciences: Mathematics • 541-346-4705 • [naturalsciences.uoregon.edu/mathematics](https://naturalsciences.uoregon.edu/mathematics)

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# COURSES YOU WILL TAKE

## 1ST YEAR

Appropriate calculus  
(MATH 25x)

MATH 281, 282

Two math labs

## 3RD YEAR

CS 122 or 210

MATH 316, 317 or 347, 348  
or 391, 392

## 2ND YEAR

MATH 341, 342

MATH 307 & two math labs  
or MATH 231, 232

## 4TH YEAR

Four 4xx MATH courses from  
approved list including  
two-term sequence

## CORE ED REQUIREMENTS

Core Education is approximately  
**71-83 credits** depending on  
transfer credits and placement  
scores:



<https://catalog.uoregon.edu/genedcourses/>

Scan the QR code for more on  
Core Ed Course Requirements!

## MAJOR CREDITS

Required  
Electives

44 Credits  
16 Credits

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Total

60 Credits

BS or BA DEGREE MINIMUM =  
**180 Total Credits**

# MAKING THE MAJOR YOURS

## SPECIALIZED COURSES

Linear Algebra

Number Theory

Topology

Analysis

Abstract Algebra

Methods of Mathematical

Statistical Methods

Partial Differential Equations

Cryptography

Machine Learning & Statistics

## ADD A MINOR OR CERTIFICATE

Computer Science

Physics

Biology

Geology

Economics

Data Science

Business Administration

## EXPERIENTIAL LEARNING



<https://cas.uoregon.edu/experiential-learning>

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## SCHOLARSHIPS



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