

## How to complete a Math Major in Central Oregon...

\*Complete an AAOT including all math courses that take you through Calculus. This will insure you have completed the University's lower division requirements.

\*See UO Adviser...

\*Apply to the UO through the Cascades Campus.

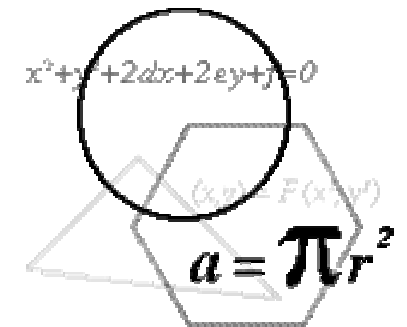
\*Begin your journey through the world of mathematics.



*University of Oregon*

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## *Mathematics Major In Central Oregon*



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*University of Oregon*

Chandler Building  
1027 NW Trenton  
Bend, OR 97701  
Phone: 541-617-4660  
FAX: 541-617-4664

# Major Requirements

The department offers undergraduate preparation for positions in government, business, and industry and for graduate work in mathematics and statistics. Each student's major program is individually constructed in consultation with an adviser.

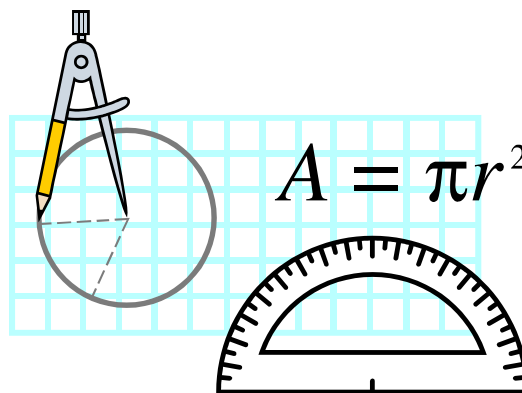
Upper division courses used to satisfy major requirements must be taken for letter grades, and only one D grade (D+ or D or D-) may be counted toward the upper-division requirement. At least 12 credits in upper-division mathematics courses must be taken in residence at the university (Bend).

Statistical Methods I, II (MATH 425, 426) cannot be used to satisfy requirements for a mathematics major.

To qualify for a bachelor's degree with a major in mathematics, a student must satisfy the requirements for one of the following options:

## Option One: Pure Mathematics

Introduction to Differential Equations (MATH 256), Several Variable Calculus I,II (MATH 281, 282 ~ COCC's 254, 255), Elementary Analysis (MATH 315), Elementary Linear Algebra (MATH 341, 342), and four courses selected from: Fundamentals of Abstract Algebra I,II,III (MATH 391, 392, 393), Geometries from an advanced Viewpoint I,II (MATH 394, 395), Introduction to Analysis I,II,III (MATH 413, 414, 415), Introduction to Topology (MATH 431), Introduc-



tion to Differential Geometry (MATH 433), Linear Algebra (MATH 441), Introduction to Abstract Algebra I,II,III (MATH 444, 445, 446).

## Option Two: Secondary Teaching

Elementary Analysis (MATH 315), Number Theory (MATH 346), Elementary Linear Algebra (MATH 341), Fundamentals of

Abstract Algebra I,II,III (MATH 391, 392, 393), Geometries from an Advanced Viewpoint I,II (MATH 394, 395), Introduction to Mathematical Methods of Statistics I (MATH 461), and Concepts in Computing : Algorithms and Programming (CIS 122) or another programming course approved by an adviser

## Preparation:

Students planning to major in mathematics at the university should take four years of high school mathematics including a year of mathematics as a senior. Courses in algebra, geometry, trigonometry and more advanced topics should be included whether offered as separate courses or as a unit.

**College transfer students** who have completed a year of calculus should be able to satisfy the major requirements in mathematics at the University of Oregon in two years.

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