

# Mathematics Major

A Mathematics major requires 33 credits of MATH, 5 credits of PHYS or CHEM and 2 credits of CPSC.

Besides the basic Mathematics major, there are two mathematics tracks: **Actuarial Science** and **Data Science**.

**Program:** Mathematics

**Type:** Major

## Required Courses

### Required Courses

Item #	Title	Credits
MATH 210	Elementary Statistics	3
MATH 231	Calculus I	4
MATH 232	Calculus II	4
MATH 233	Calculus III	4
MATH 496	Mathematics Seminar	1
CPSC 111	Introduction to Computer Science	3

Take 5 credits from the following lecture and lab combinations:

Item #	Title	Credits
PHYS 231	Engineering Physics I	4
PHYS 231	Engineering Physics Laboratory I	1
CHEM 111	General Chemistry I	4
CHEM 111	General Chemistry I Laboratory	1

Choose 18 credits from the following:

Item #	Title	Credits
MATH 310	Probability and Statistical Inference	3
MATH 325	Proof Techniques	3
MATH 331	Linear Algebra	3
MATH 334	Foundations of Geometry	1-3
MATH 343	Abstract Algebra	3
MATH 431	Ordinary Differential Equations	3
MATH 432	Numerical Analysis	3
MATH 442	Advanced Calculus	3

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**Total credits: 42**

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