

# Mathematics

## Degree Type

Bachelor of Science

## Objective:

This program is for students who wish to prepare for graduate study in the mathematical sciences or for a career in applied mathematics in science or industry.

**Administrator:** Chair, Department of Mathematics and Computer Science

**Requirements:** A minimum of 47 credits including at least 40 in mathematics of which 29 shall be numbered above 2999.

## Required Courses:

| Item #   | Title                            | Credits |
|----------|----------------------------------|---------|
| MATH2310 | Discrete Mathematics             | 3       |
| MATH2510 | Calculus I                       | 4       |
| MATH2520 | Calculus II                      | 4       |
| MATH3240 | Probability and Statistics I     | 3       |
| MATH3310 | Methods of Proof                 | 3       |
| MATH3320 | Linear Algebra                   | 3       |
| MATH3530 | Calculus III                     | 4       |
| MATH3540 | Differential Equations           | 4       |
| MATH4320 | Modern Algebra I                 | 4       |
| MATH4510 | Real Analysis I                  | 4       |
| MATH4520 | Real Analysis II                 | 2       |
| COMP1220 | Introduction to Computer Science | 3       |

## Choose one of the following:

| Item #   | Title                         | Credits |
|----------|-------------------------------|---------|
| MATH3250 | Probability and Statistics II | 3       |
| MATH4330 | Modern Algebra II             | 2       |

## Choose one of the following options:

| Item # | Title                  | Credits |
|--------|------------------------|---------|
|        | PHYS1110 and PHYS1110L | 4       |
|        | PHYS2110 or PHYS2110L  | 4       |

In addition to the above requirements, the student is required to complete a written subject examination in the field of Mathematics, e.g., ETS Major Field Test for Mathematics or GRE Subject Test for Mathematics.

Students who plan on graduate study are advised to acquire a reading knowledge of German or French.

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**Total Credits**

**47**