# B.A. Mathematics

General Education Requirements for all Bachelor's degrees

BA Foreign Language Requirement

Quality Enhancement Plan (QEP) Requirement

## Required Courses

| Item # | Title | credits |
|---|---|---|
| MATH 141 | Introduction to Probability and Statistics | 3 |
| MATH 181 | Calculus I | 4 |
| MATH 182 | Calculus II | 4 |
| MATH 283 | Calculus III | 4 |
| MATH 211 | Logic and Set Theory | 3 |
| MATH 321 | Differential Equations | 3 |
| MATH 361 | Introduction to Linear Algebra | 3 |
| MATH 431 | Abstract Algebra | 3 |
| MATH 484 | Mathematics Seminar | 1 |
| MATH 485 | Portfolio | 1 |
| | Mathematics Upper Division Electives | 3 |

## Required cognate: take one of the following courses:

| Item # | Title | credits |
|---|---|---|
| CSIS 110 | Principles of Computer Programming I | 3 |
| CSIS 111 | Principles of Computer Programming II | 3 |
| PHYS 121 | General Physics I | 4 |
| PHYS 122 | General Physics II | 4 |
| | **Total credits:** | **35-36** |

# Category Descriptions

## Mathematics Upper Division Electives

Credits: 3

| Item # | Title | credits |
|---|---|---|
| MATH 322 | Partial Differential Equations | 3 |
| MATH 341 | Geometry | 3 |
| MATH 371 | History of Mathematics | 3 |
| MATH 381 | Complex Variables | 3 |
| MATH 411 | Numerical Analysis with Application | 3 |
| MATH 441 | Calculus-Based Probability Theory | 4 |
| MATH 442 | Actuarial Exam P Preparation | 3 |
| MATH 461 | Number Theory | 3 |