

First Year (Total Credits: 48)

| Semester | Course Code | Course Title | Credits | Degrees |
|----------|-------------|-------------------------------------|---------|------------------|
| Fall | MATH 307 | Introduction to Proof | 4 | Mathematics |
| | MATH 231 | Elements of Discrete Mathematics I | 4 | Computer Science |
| | CS 212 | Computer Science III | 4 | Computer Science |
| Winter | MATH 282 | Several-Variable Calculus II | 4 | Mathematics |
| | MATH 316 | Fundamentals of Analysis I | 4 | Mathematics |
| | MATH 232 | Elements of Discrete Mathematics II | 4 | Computer Science |
| Spring | MATH 317 | Fundamentals of Analysis II | 4 | Mathematics |
| | MATH 444 | Introduction to Abstract Algebra I | 4 | Mathematics |
| | CS 314 | Computer Organization | 4 | Computer Science |

Second Year (Total Credits: 36)

| Semester | Course Code | Course Title | Credits | Degrees |
|----------|-------------|---------------------------------------|---------|------------------|
| Fall | MATH 445 | Introduction to Abstract Algebra II | 4 | Mathematics |
| | MATH 433 | Introduction to Differential Geometry | 4 | Mathematics |
| | CS 322 | Introduction to Software Engineering | 4 | Computer Science |
| Winter | MATH 446 | Introduction to Abstract Algebra III | 4 | Mathematics |
| | MATH 432 | Introduction to Topology I | 4 | Mathematics |
| | CS 313 | Intermediate Data Structures | 4 | Computer Science |
| Spring | MATH 432 | Introduction to Topology II | 4 | Mathematics |
| | MATH 616 | Real Analysis I | 4 | Mathematics |
| | CS 315 | Intermediate Algorithms | 4 | Computer Science |

Third Year (Total Credits: 36)

| Semester | Course Code | Course Title | Credits | Degrees |
|----------|-----------------------|-------------------------------------|---------|------------------|
| Fall | MATH 434 | Introduction to Topology III | 4 | Mathematics |
| | MATH 617 | Real Analysis II | 4 | Mathematics |
| | CS 350 | C/C++ and Unix | 4 | Computer Science |
| | CS elective (410-499) | | 4 | Computer Science |
| Winter | MATH 618 | Real Analysis III | 4 | Mathematics |
| | MATH 634 | Algebraic Topology I | 4 | Mathematics |
| | CS 415 | Operating Systems | 4 | Computer Science |
| | CS elective (410-499) | | 4 | Computer Science |
| Spring | MATH 635 | Algebraic Topology II | 4 | Mathematics |
| | MATH 411 | Functions of a Complex Variable I | 4 | Mathematics |
| | MATH 556 | Networks and Combinatorics | 4 | Mathematics |
| | CS 425 | Principles of Programming Languages | 4 | Computer Science |

Fourth Year (Total Credits: 48)

| Semester | Course Code | Course Title | Credits | Degrees |
|----------|-----------------------|------------------------------------|---------|------------------|
| Fall | MATH 412 | Functions of a Complex Variable II | 4 | Mathematics |
| | MATH 636 | Algebraic Topology III | 4 | Mathematics |
| | MATH 637 | Differential Geometry I | 4 | Mathematics |
| | MATH 681 | Advanced Algebra I | 4 | Mathematics |
| Winter | MATH 421 | Partial Differential Equations I | 4 | Mathematics |
| | MATH 638 | Differential Geometry II | 4 | Mathematics |
| | MATH 682 | Advanced Algebra II | 4 | Mathematics |
| | CS elective (410-499) | | 4 | Computer Science |
| Spring | MATH 422 | Partial Differential Equations II | 4 | Mathematics |
| | MATH 639 | Differential Geometry III | 4 | Mathematics |
| | MATH 682 | Advanced Algebra III | 4 | Mathematics |
| | CS elective (410-499) | | 4 | Computer Science |