**B.S. in Mathematics**

**4-Year Program Sequence**

**Freshmen: Fall Freshmen: Spring**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** | **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** |
| First Year Academic Seminar | MATH 0001 | 1 | Major | Calculus II | MATH 1262 | 4 | Area D |
| Calculus I | MATH 1261 | 4 | Area A2 | Computer Science II | CSCI 1302 | 3 | Major |
| Computer Science I | CSCI 1301 | 3 | Major | English Composition II | ENGL 1102 | 3 | Area A1 |
| English Composition I | ENGL 1101 | 3 | Area A1 | Linear Algebra | MATH 2150 |  3 | Major |
| Critical Thinking | GC1Y 1000 | 3 | Area B | Foreign Language 1002 | 1002 | 3 | Major |
| Foreign Language 1001 | 1001 | 3 | Major |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **TOTAL** | 17 |  |  | **TOTAL** | 16 |  |

**Sophomore: Fall Sophomore: Spring**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** | **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** |
| Calculus III | MATH 2263 | 4 | Major | Differential Equations | MATH 4340 | 3 | Major |
| Foundations of Mathematics  | MATH 3030 | 3 | Major | Geometry | MATH 4510 | 3 | Major |
| Probability and Statistics | MATH 2600 | 3 | Major | Global Perspectives | GC2Y 2000 | 4 | Area B |
| Core or Electives |  | 6 | Core or Elective | Core or Electives |  | 6 | Core or Elective |
|  |  |  |  |  |  |  |  |
|  | **TOTAL** | 16 |  |  | **TOTAL** | 16 |  |

**Junior: Fall Junior: Spring**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** | **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** |
| Complex Variables | MATH 4300 | 3 | Major | Mathematical Analysis I | MATH 4261 | 3 | Major |
| Number Theory | MATH 4110  | 3 | Major | Intro to Research in Math | MATH 4989 | 1 | Major |
| Principles of Chemistry I with LaborPrinciples of Physics I with Lab | CHEM 1211 & 1211LorPHYS 2211 & 2211L | 4 | Area D | Principles of Chemistry II with LaborPrinciples of Physics II with Lab | CHEM 1212 & 1212LorPHYS 2212 & 2212L | 4 | Area D |
| Core or Electives |  | 6 | Core or Elective | Core or Electives |  | 6 | Core or Elective |
|  |  |  |  |  |  |  |  |
|  | **TOTAL** | 16 |  |  | **TOTAL** | 14 |  |

**Senior: Fall Senior: Spring**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** | **Course Title** | **Course Number** | **Credits** | **Area (Core/Major/****Elective)** |
| Senior Project | MATH 4990 | 3 | Major | MATH elective at 4000 level | MATH 4XXX | 3 | Major |
| Abstract Algebra | MATH 4081 | 3 | Major | Core or Electives |  | 12 | Core or Elective |
| Core or Electives |  | 9 | Core or Elective |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  | **TOTAL** | 15 |  |  | **TOTAL** | 15 |  |