## Mathematics \& Statistics Curriculum Guides

The following are only examples of four-year Mathematics degree programs and are subject to change without notice. Students should consult a Mathematics program advisor to ensure that they have the most accurate and up-to-date information available about a particular four-year degree option.

- Mathematics Emphasis
- Statistics Emphasis


## Mathematics

An example: Four year plan for Mathematics Major with Mathematics Emphasis
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

| Course | Title | Credits |
| :---: | :---: | :---: |
| Freshman |  |  |
| Fall |  |  |
| MATH 202 | Calculus and Analytic Geometry I | 4 |
| MATH 260 | Introductory Statistics | 4 |
| First Year Seminar |  | 3 |
| General Ed |  | 3 |
|  | Credits | 14 |
| Spring |  |  |
| MATH 203 | Calculus and Analytic Geometry II | 4 |
| MATH 314 | Proofs in Number Theory and Topology | 3 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |
| Sophomore |  |  |
| Fall |  |  |
| MATH 209 | Multivariate Calculus | 4 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |
| Spring |  |  |
| MATH 320 | Linear Algebra and Matrix Theory | 4 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |
| Junior |  |  |
| Fall |  |  |
| MATH 305 | Ordinary Differential Equations | 4 |
| MATH 328 | Abstract Algebra | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
| General Ed |  | 3 |
|  | Credits | 16 |
| Spring |  |  |
| MATH 355 | Applied Mathematical Optimization | 3 |
| MATH 385 | Foundations of Geometry | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
| Elective |  | 3 |
|  | Credits | 15 |


| Senior |  |
| :---: | :---: |
| Fall |  |
| MATH 323 Analysis | 4 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Credits | 16 |
| Spring |  |
| Math Upper Level Elective MATH 406 (Odd year); MATH 410 (Even year) | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Elective | 3 |
| Credits | 15 |
| Total Credits | 124 |

## Statistics

An example: Four year plan for Mathematics Major with Statistics Emphasis
120 credits necessary to graduate.
Plan is a representation and categories of classes can be switched. Check with your advisor.

| Course | Title | Credits |
| :---: | :---: | :---: |
| Freshman |  |  |
| Fall |  |  |
| MATH 202 | Calculus and Analytic Geometry I | 4 |
| MATH 260 | Introductory Statistics | 4 |
| First Year Seminar |  | 3 |
| General Ed |  | 3 |
|  | Credits | 14 |
| Spring |  |  |
| MATH 203 | Calculus and Analytic Geometry II | 4 |
| MATH 306 | Statistical Programming | 3 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |


| Sophomore |  |  |
| :---: | :---: | :---: |
| Fall |  |  |
| MATH 209 | Multivariate Calculus | 4 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |
| Spring |  |  |
| MATH 314 | Proofs in Number Theory and Topology | 3 |
| MATH 320 | Linear Algebra and Matrix Theory | 4 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |


| Junior |  |  |
| :--- | :--- | :--- |
| Fall |  |  |
| MATH 323 | Analysis | 4 |
| MATH 360 | Theory of Probability (Only Even years. Take an elective otherwise.) | 3 |
| General Ed |  | 3 |
| General Ed |  | 3 |
| Elective |  | 3 |
|  | Credits | 16 |



