

Mathematical Sciences Track

This track is designed for the student who will work in industry or a national laboratory. Advisors will work with students to create a curriculum for each individual student. All electives **MUST** be approved by your advisor.

Freshman Year

FALL SEMESTER

| Course | Name | Hours |
|----------|--|-----------|
| ENC 1101 | Freshman Communication Skills I | 3 |
| MAC 3211 | Calculus I | 4 |
| AMH 2091 | Introduction to African American History | 3 |
| | Humanities Core | 3 |
| ISC 1058 | Scientists Life Skills | 2 |
| | | 15 |

SPRING SEMESTER

| Course | Name | Hours |
|-----------|----------------------------------|-----------|
| ENC 1102 | Freshman Communication Skills II | 3 |
| COP 3014C | Programming in C Language | 4 |
| MAC 2312 | Calculus II | 4 |
| | Humanities Elective | 3 |
| | | 14 |

* Must complete a one year sequence of: **General Biology** (BSC 1010/L, BSC 1011/L), **General Chemistry** (CHM 1045/L, CHM 1046/L), or **General Physics** (PHY 2048/L, PHY 2049/L).

** Approved Mathematical Sciences Electives: **MAP 4103** Mathematical Modeling (**spring only**), **MAA 4212** Advanced Calculus II (**spring only**)

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Sophomore Year

FALL SEMESTER

| Course | Name | Hours |
|----------|-------------------------------------|-----------|
| MAC 2313 | Calculus III | 5 |
| STA 3034 | Mathematical Statistics (fall only) | 3 |
| MAS 3105 | Linear Algebra | 3 |
| | Approved Sciences Sequence* | 4 |
| | | 15 |

SPRING SEMESTER

| Course | Name | Hours |
|----------|--|-----------|
| MHF 4202 | Foundations of Mathematics (spring only) | 3 |
| MAP 2302 | Differential Equations | 3 |
| | Approved Sciences Sequence* | 4 |
| | Social Science Core | 3 |
| | Elective | 3 |
| | | 16 |

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** Approved Mathematical Sciences Electives: **MAP 4103** Mathematical Modeling (spring only), **MAA 4212** Advanced Calculus II (spring only)

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Junior Year

FALL SEMESTER

| Course | Name | Hours |
|----------|--------------------------------|-----------|
| MAD 3401 | Numerical Analysis (fall only) | 3 |
| MAA 4937 | Senior Seminar (fall only) | 3 |
| | Social Science Elective | 3 |
| | Electives | 6 |
| | | 15 |

SPRING SEMESTER

| Course | Name | Hours |
|----------|----------------------------------|-----------|
| MAS 4301 | Abstract Algebra I (spring only) | 3 |
| MAA 4402 | Complex Variables (spring only) | 3 |
| SPC 2608 | Public Speaking | 3 |
| | Electives | 9 |
| | | 18 |

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Senior Year

FALL SEMESTER

| Course | Name | Hours |
|----------|---------------------------------|-----------|
| MAA 4211 | Advanced Calculus I (fall only) | 3 |
| | Electives | 12 |
| | | 15 |

SPRING SEMESTER

| Course | Name | Hours |
|--------|----------------------------------|-----------|
| | Mathematical Sciences Elective** | 3 |
| | Electives | 9 |
| | | 15 |

* Must complete a one year sequence of: **General Biology** (BSC 1010/L, BSC 1011/L), **General Chemistry** (CHM 1045/L, CHM 1046/L), or **General Physics** (PHY 2048/L, PHY 2049/L).

** Approved Mathematical Sciences Electives: **MAP 4103** Mathematical Modeling (spring only), **MAA 4212** Advanced Calculus II (spring only)