

**Recommended Sequence
B.S. in Mathematics**

Freshman Year

| Fall Even | | Spring Odd | |
|--|----|---|----|
| Route A - MATH1314 College Algebra and MATH1316 Plane Trigonometry | 6 | Route A/B1 - MATH2413 Calculus I or Route B2 - MATH2414 Calculus II | 4 |
| Route B1 - MATH2412 Precalculus or | 4 | ENGL1302 Composition II | 3 |
| Route B2 - MATH 2413 Calculus I | 4 | HIST1302 U.S. History II | 3 |
| ENGL1301 Composition I | 3 | Core Elective (Natural Science plus Lab) | 4 |
| HIST1301 U.S. History I | 3 | Core Elective (Social Science) | 3 |
| Core Elective (Natural Science plus Lab) | 4 | | |
| Total Route A | 16 | Total | 17 |
| Total Route B | 14 | | |

| Summer Odd | |
|-----------------------------------|---|
| Route A/B1 - MATH2414 Calculus II | 4 |

Sophomore Year

| Fall Odd | | Spring Even | |
|---|----|--|----|
| MATH2415 Calculus III | 4 | MATH2320 Differential Equations | 3 |
| MATH2305 Discrete Mathematics (non-CS majors) | 3 | MATH352 Math Foundations and Applications | 3 |
| GOVT2301 American Govt I: Fed & TX Constitution | 3 | GOVT2302 American Govt II: Fed & TX Pol Behavior | 3 |
| Core Elective (Humanities) | 3 | Core Elective (Fine Arts) | 3 |
| Core Elective (Other) | 3 | Core Elective (Humanities) | 3 |
| Total | 16 | Total | 15 |

Junior Year

| Fall Even | | Spring Odd | |
|--|----|------------------------------------|----|
| MATH334 Introduction to Abstract Algebra | 3 | MATH321 College Geometry | 3 |
| MATH2318 Linear Algebra | 3 | MATH357 Probability and Statistics | 3 |
| 3 Electives | 9 | 3 Electives | 9 |
| Total | 15 | Total | 15 |

Senior Year

| Fall Odd | | Spring Even | |
|-----------------------|----|---------------------------------|----|
| MATH437 Number Theory | 3 | MATH430 Mathematical Modeling | 3 |
| 3 Electives | 9 | MATH493 Capstone in Mathematics | 3 |
| | | 2 Electives | 6 |
| Total | 12 | Total | 12 |

| | |
|----------------------|-----|
| Degree Total Route A | 122 |
| Degree Total Route B | 120 |

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| Route B1 - MATH2412 Precalculus or | 4 | ENGL1302 Composition II | 3 |
| Route B2 - MATH 2413 Calculus I | 4 | HIST1302 U.S. History II | 3 |
| ENGL1301 Composition I | 3 | Core Elective (Natural Science plus Lab) | 4 |
| HIST1301 U.S. History I | 3 | Core Elective (Social Science) | 3 |
| Core Elective (Natural Science plus Lab) | 4 | | |
| Total Route A | 16 | Total | 17 |
| Total Route B | 14 | | |

| Summer Even | |
|-----------------------------------|---|
| Route A/B1 - MATH2414 Calculus II | 4 |

Sophomore Year

| Fall Even | | Spring Odd | |
|---|----|--|----|
| MATH2415 Calculus III | 4 | MATH321 College Geometry | 3 |
| MATH2305 Discrete Mathematics (non-CS majors) | 3 | MATH2320 Differential Equations | 3 |
| GOVT2301 American Govt I: Fed & TX Constitution | 3 | GOVT2302 American Govt II: Fed & TX Pol Behavior | 3 |
| Core Elective (Humanities) | 3 | Core Elective (Fine Arts) | 3 |
| Core Elective (Other) | 3 | Core Elective (Humanities) | 3 |
| Total | 16 | Total | 15 |

Junior Year

| Fall Odd | | Spring Even | |
|-------------------------|----|---|----|
| MATH437 Number Theory | 3 | MATH352 Math Foundations and Applications | 3 |
| MATH2318 Linear Algebra | 3 | MATH430 Mathematical Modeling | 3 |
| 3 Electives | 9 | 3 Electives | 9 |
| Total | 15 | Total | 15 |

Senior Year

| Fall Even | | Spring Odd | |
|--|----|------------------------------------|----|
| MATH334 Introduction to Abstract Algebra | 3 | MATH493 Capstone in Mathematics | 3 |
| 3 Electives | 9 | MATH357 Probability and Statistics | 3 |
| | | 2 Electives | 6 |
| Total | 12 | Total | 12 |

| | |
|----------------------|-----|
| Degree Total Route A | 122 |
| Degree Total Route B | 120 |