



Undergraduate Degree Map for Completion in Four Years

| | |
|--------------------------------------|---|
| College: | College of Science, Engineering & Technology <input type="button" value="v"/> |
| Department: | Mathematics & Statistics <input type="button" value="v"/> |
| Name of Program: | MATHEMATICS <input type="button" value="v"/> |
| Degree Designation: | BS <input type="button" value="v"/> |
| Emphasis/Concentration: | <input type="text"/> <input type="button" value="v"/> |
| Option: | <input type="text"/> |
| Version: | 2 <input type="button" value="v"/> |
| Version Explanation: | Actuarial Science Minor starting in an odd year <input type="text"/> |
| Type of Program: | Standard Major <input type="button" value="v"/> |
| Minor Required: | Yes <input type="button" value="v"/> |
| Specific Minor (if required): | <input type="text"/> |

Program Description:

Mathematics in its purest form is an art concerned with ideas. The Department of Mathematics and Statistics believes that an undergraduate major should be both an introduction to more advanced study and a survey of the many facets of mathematics. From the profound insights Thales to the undecidability of Gödel, from the intuitive to the rigorous, from the abstract to the applied, with a solid emphasis on both the discrete and continuous cases, the Department expects all majors to be engaged in a wide range of mathematical ideas. The B.S. Mathematics program is intended to prepare students for advanced study in mathematics or to work in business, industry or government.

Admission Requirements:

Meet the University admission requirements of a minimum of 32 earned semester credit hours and minimum cumulative 2.0 GPA. Complete 8 credits of mathematics in courses numbered 121 or higher. Have a minimum 2.5 GPA in mathematics courses.

Advising:

You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.

A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|-------------------------|----------------|---------------------|-----------------|---|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 15 credit hours |
| MATH | 121 | Calculus I | 4 | |
| GEN ED | Goal Area 1A | | 4 | |
| General Elective Course | | | 3 | Elementary Statistics 154 is recommended |
| GEN ED | Goal Area 3 | | 3-4 | |


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Term 1 Notes:

Mathematics majors automatically satisfy General Education goal areas 2 and 4.

TERM 2 - SPRING

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|--------------------|----------------|---------------------|-----------------|--|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 30 credit hours Advance to Sophomore status |
| MATH | 122 | Calculus II | 4 | |
| GEN ED | Goal Area 1B | | 3-4 | |
| GEN ED | Goal Area 3 | | 3-4 | |
| GEN ED | Goal Area 5 | | 3-4 | |
| GEN ED | Goal Area 11 | | 2 | |


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Term 2 Notes:

Apply for Admission to Major at the CSET Student Relations Office located in TR C125. Admission to Major, or provisional Admission to Major, is required to take 300 - 400 level courses

TERM 3 - FALL

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|--------------------|----------------|--|-----------------|--|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% |
| MATH | 223 | Calculus III | 4 | |
| STAT | 354 | Concepts of Probability and Statistics | 3 | Admission to Major or permission is required. Go to TR C125. |
| GEN ED | Goal Area 5 | | 3-4 | |
| GEN ED | Goal Area 6 | | 6-7 | |

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Term 3 Notes:

Apply for Admission to Major at the CSET Student Relations Office located in TR C125. Admission to Major, or provisional Admission to Major, is required to take 300 - 400 level courses

TERM 4 - SPRING

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|--------------------|----------------|----------------------------|-----------------|--|
| | | | | Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Completion of ≥ 60 credit hours Advance to Junior status |
| MATH | 290 | Foundations of Mathematics | 4 | |
| MATH | 247 | Linear Algebra I | 4 | |
| STAT | 450 | Regression Analysis | 3 | |
| GEN ED | Goal Area 7 | | 3-4 | |

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Term 4 Notes:

TERM 5 - FALL

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|-----------------------------|----------------|--|-----------------|--|
| | | | | Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Apply for Graduation |
| Major Restricted Elective | 345 375 | Abstract Algebra 1 Introduction to Discrete Mathematics | 4 | |
| Major Unrestricted Elective | | | 4 | Math Abstract Algebra 1 or Introduction to Discrete Mathematics is recommended |
| ACT | 200 | Financial Accounting | 3 | |
| GEN ED | Goal Area 8 | | 3-4 | |

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Term 5 Notes:

See Course Application Policy in Bulletin in the Mathematics section. At least two of Math 316, 345 or 375 must be taken. At least one mathematics unrestricted elective must be at the 400 level.

TERM 6 - SPRING

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|---|----------------|---------------------|-----------------|--|
| | | | | Overall GPA ≥ 2.0 Course Completion Rate $\geq 67\%$ Completion of ≥ 90 credit hours Advance to Senior status |
| Major Restricted or Unrestricted Elective | | | 3-4 | Math 316 Intermediate Analysis or Math 375 Introduction to discrete Mathematics is recommended |

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|-----------------------------|----------------|---------------------|-----------------|---|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% Completion of \geq 90 credit hours Advance to Senior status |
| Major Unrestricted Elective | | | 3-4 | |
| GEN ED | Goal Area 9 | | 3-4 | |
| FINA | 362 | Business Finance | 3 | |

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Term 6 Notes:

At least 3 credits of a Major Unrestricted Elective must be at the 400 level. See Course Application Policy in Bulletin in the Mathematics section. At two of MATH 316, 345, or 375 must be taken.

TERM 7 - FALL

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|-----------------------------|----------------|---------------------------------|-----------------|--|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% |
| MATH | 492 | Mathematics Capstone Experience | 3 | This course is offered only in the fall. Two of MATH 316, 345 OR 375 must be completed with a grade of C or better to take this class. |
| Major Unrestricted Elective | | | 6-8 | |
| GEN ED | Goal Area 10 | | 3-4 | |
| FINA | 460 | Investments | 3 | |

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Term 7 Notes:

At least 3 hours of mathematics unrestricted elective must be at the 400 level.

TERM 8 - SPRING

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|-----------------------------|----------------|-------------------------------|-----------------|---|
| | | | | Overall GPA \geq 2.0 Course Completion Rate \geq 67% |
| FINA | 467 | Insurance and Risk Management | | 3 |
| Major Unrestricted Elective | | | | 3-4 |
| General Elective | | | | 8-9 |

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Term 8 Notes:

At least one mathematics unrestricted elective must be at the 400 level.

PROGRAM NOTES

A grade of C or better is required in all courses applied to the major. Mathematics majors automatically satisfy General Education goal areas 2 and 4. Calculus I and Calculus II are prerequisites for the remaining mathematics and statistics course requirements. See Course Application Policy in Bulletin.

DEGREE MAP CHECKLIST: GRADUATION REQUIREMENTS

| | |
|--------------------------|---|
| <input type="checkbox"/> | 1. Minimum of 15 credits per semester |
| <input type="checkbox"/> | 2. General Education = 44 credits |
| <input type="checkbox"/> | 3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines |
| <input type="checkbox"/> | 4. Writing Intensive = 2 courses (6 credits minimum) |
| <input type="checkbox"/> | 5. Major = <input style="width: 30px;" type="text"/> credits |
| <input type="checkbox"/> | 6. Upper-Division Requirements = 40 credits minimum |
| <input type="checkbox"/> | 7. Professional Education (if required) = 30 credits |
| <input type="checkbox"/> | 8. Language Requirements (if BA) = 8 credits minimum |
| <input type="checkbox"/> | 9. Minor = <input style="width: 30px;" type="text"/> credits |
| <input type="checkbox"/> | 10. Total credits required for degree <input style="width: 30px;" type="text"/> |

DEGREE MAP COMPLETE

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Map is complete and ready for review <ol style="list-style-type: none"> 1. Faculty please send an email to your Department Chair when map is ready to review. 2. Department Chair please send an email to your Dean when map is ready to review. 3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review. |
|-------------------------------------|---|

DEAN APPROVAL

| | |
|-------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> | Map reviewed and approved by Dean |
|-------------------------------------|-----------------------------------|

Save and Close