



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: | BA <input type="button" value="v"/> |
| Emphasis/Concentration: | <input type="text"/> <input type="button" value="v"/> |
| Option: | <input type="text"/> |
| Version: | N/A <input type="button" value="v"/> |
| Version Explanation: | Biology minor <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 | |
| BIOL | 105 105W | General Biology I | 4 | |
| 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. 8 hours of language are required. Some language requirements satisfy Goal Area 8.

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 | |
| BIOL | 106 | General Biology II | 4 | |

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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 is needed to take 300 and 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 3 | 4 | |
| BIOL | 211 | Genetics | 4 | |
| GEN ED | Goal Area 5 | | 6-8 | |

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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 is needed to take 300 and 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 | |
| BIOL | Minor Restricted Elective | | 4 | |
| GEN ED | Goal Area 6 | | 3-4 | |

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Term 4 Notes:

See Course Application Policy in Bulletin in the Mathematics section.

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 |
| MATH | 345 375 | Abstract Algebra I Introduction to Discrete Mathematics | 4 | |
| MATH | Major Restricted Elective | | 4 | Abstract Algebra I or Introduction to Discrete Mathematics is recommended |
| BIOL | Minor Restricted Elective | | 4 | |
| GEN ED | Goal Area 6 | | 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 3 credits of mathematics unrestricted elective must be at the 400 level. Math 345 is offered only in the fall. Math 316 is offered only in the spring.

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 |
| MATH | Major Unrestrict ed Elective | | 3-4 | MATH 316 Intermediate Analysis is recommended |
| BIOL | Minor Restricted Elective | | 4 | |
| GEN ED | | | 3-4 | |

| <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 |
| | Goal Area 7 | | | |
| GEN ED | Goal Area 8 | | 3-4 | |
| GEN ED | Goal Area 11 | | 2-3 | |

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Term 6 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 3 credits of mathematics unrestricted elective must be at the 400 level. Math 345 is offered only in the fall. Math 316 is offered only in the spring. Some language requirements satisfy Goal Area 8.

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 only offered in the Fall. Two of MATH 316, 345, or MATH 375 must be completed with a grade of C or better before his class can be taken. |
| GEN ED | Goal Area 9 | | 3-4 | |
| MATH | Major Unrestricted Elective | | 3-4 | |
| BIOL | Minor Restricted Elective | | 4 | 300 - 400 level |

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Term 7 Notes:

At least 3 credits of Major Unrestricted Electives must be at the 400 level. See Course Application Policy in Bulletin in the Mathematics section. A minimum of 40 hours of 300 or 400 level courses are required for graduation.

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% |
| MATH | Major Unrestricted Elective | | 3-4 | |
| GEN ED | Goal Area 10 | | 3-4 | |
| GEN ELECTIVE | | | 8-10 | 300 - 400 level |
| BIOL | | | 1-4 | 200 - 400 level |

| <i>Designator:</i> | <i>Course:</i> | <i>Course Name:</i> | <i>Credits:</i> | <i>Milestones:</i> |
|--------------------|-----------------------------------|---------------------|-----------------|---|
| | Minor Unrestricted Elective | | | Overall GPA ≥ 2.0 Course Completion Rate ≥ 67% |

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Term 8 Notes:

At least 3 credits of Major Unrestricted Electives must be at the 400 level. See Course Application Policy in Bulletin in the Mathematics section. A minimum of 40 hours of 300 or 400 level courses are required for graduation.

PROGRAM NOTES

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 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 type="text"/> credits |
| <input type="checkbox"/> | 10. Total credits required for degree <input 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

