



## Undergraduate Degree Map for Completion in Four Years

<b>College:</b>	College of Science, Engineering & Technology <input type="button" value="v"/>
<b>Department:</b>	Mathematics & Statistics <input type="button" value="v"/>
<b>Name of Program:</b>	MATHEMATICS <input type="button" value="v"/>
<b>Degree Designation:</b>	BS <input type="button" value="v"/>
<b>Emphasis/Concentration:</b>	<input type="text"/> <input type="button" value="v"/>
<b>Option:</b>	<input type="text"/>
<b>Version:</b>	8 <input type="button" value="v"/>
<b>Version Explanation:</b>	CS Minor <input type="text"/>
<b>Type of Program:</b>	Standard Major <input type="button" value="v"/>
<b>Minor Required:</b>	Yes <input type="button" value="v"/>
<b>Specific Minor (if required):</b>	<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	
CS	110	Computer Science 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.

### 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 2	4	
CS	112	Computer Science II	4	
GEN ED	Goal Area 1B		3-4	
GEN ED	Goal Area 3		3-4	

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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 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	
CS	305	Algorithmic Structures	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 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 $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 60 credit hours Advance to Junior status
MATH	290	Foundations of Mathematics	4	
MATH	247	Linear Algebra 1	4	
GEN ED	Goal Area 6		6-8	

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**Term 4 Notes:**

See Course Application Policy in Bulletin in the Mathematics section of the bulletin

### TERM 5 - 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% Apply for Graduation
MATH	345 or 375	Abstract Algebra I or Introduction to Discrete Mathematics	4	
MATH	Major Unrestricted Elective		4	MATH 345 or MATH 375 is recommended
CS	230 or 240	Introduction to Intelligent Systems or Artificial Intelligence	4 or 3	
GEN ED	Goal Area 7		3-4	

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**Term 5 Notes:**

See Course Application Policy in Bulletin in the Mathematics section of the bulletin. 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 $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 90 credit hours Advance to Senior status
MATH	Major Unrestricted Elective		3-4	MATH 316 or MATH 417 is recommended
MATH	Major Unrestricted Elective		3-4	
GEN ED	Goal Area 8		3-4	
CS			3	

<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
	350 or 460	Network Architectures or Operating Systems: Design and Implementation		
GEN ED	Goal Area 11		2-3	

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#### Term 6 Notes:

See Course Application Policy in Bulletin in the Mathematics section of the bulletin. 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 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	4	
MATH	Major Unrestrict ed Elective		3-4	
GEN ED	Goal Area 9		3-4	
GEN ED	Goal Area 10		3-4	

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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 Unrestrict ed Elective		3-4	
GEN ELEC	Elective		10-12	300 - 400 level

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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

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### 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: 20px;" 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: 20px;" type="text"/> credits
<input type="checkbox"/>	10. Total credits required for degree <input style="width: 20px;" type="text"/>

### DEGREE MAP COMPLETE

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

<input checked="" type="checkbox"/>	Map reviewed and approved by Dean
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Save and Close