



## Undergraduate Degree Map for Completion in Four Years

<b>College:</b>	College of Science, Engineering & Technology <input type="button" value="v"/>
<b>Department:</b>	Mechanical & Civil Engineering <input type="button" value="v"/>
<b>Name of Program:</b>	MECHANICAL ENGINEERING <input type="button" value="v"/>
<b>Degree Designation:</b>	BSME <input type="button" value="v"/>
<b>Emphasis/Concentration:</b>	<input type="text"/> <input type="button" value="v"/>
<b>Option:</b>	4-year Plan for Mechanical Engineering
<b>Version:</b>	1 <input type="button" value="v"/>
<b>Version Explanation:</b>	2014 Bulletin for Mechanical Engineering
<b>Type of Program:</b>	Standard Major <input type="button" value="v"/>
<b>Minor Required:</b>	No <input type="button" value="v"/>
<b>Specific Minor (if required):</b>	<input type="text"/>

<b>Program Description:</b>	<input type="text" value="Mechanical Engineering"/>
<b>Admission Requirements:</b>	<p>Students are initially admitted as Pre-Mechanical Engineering students. To be considered for full admission to the Mechanical Engineering program at the junior year, students must complete the following steps:</p> <p>Be admitted to the College of Science, Engineering, and Technology.          Achieve a minimum GPA of 2.50 in all math, science, and engineering courses.          Submit an application for admission to the Mechanical Engineering program, including a program plan of study (usually completed during the sophomore year).          Complete a minimum of 50 credits, including the following courses with grades of "C" or better:</p> <ul style="list-style-type: none"> <li>General Physics I and II (calculus-based, with lab), 8 credits</li> <li>Calculus I, II and III, and Differential Equations, 16 credits</li> <li>Chemistry, 3 credits</li> <li>English Composition, 4 credits.</li> <li>Introduction to Mechanical Engineering, 2 credits</li> <li>Computer Graphics Communication, 1 credit</li> <li>Geometric Dimensioning and Tolerancing in Engineering Design, 2 credit</li> <li>Introduction to Problem Solving and Mechanical Engineering Design, 2 credits</li> <li>Engineering mechanics (Statics, Dynamics, and Mechanics of Materials), 9 credits</li> <li>Electrical engineering (Circuits, including lab), 4 credits</li> </ul>
<b>Advising:</b>	<p>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.</p> <p><input type="text" value="Students must meet with their advisor each semester prior to registration to receive their registration access code."/></p>
<p>A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.</p>	

### TERM 1 - 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% Completion of $\geq$ 15 credit hours
MATH	121	Calculus I	4	
CHEM	191	Chemistry for Engineers	3	
ENG	101	English Composition	4	
ME	101	Introduction to Mechanical Engineering	2	
ECON	201	Macro-Economics	3	or ECON202 Micro-Economics

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**Term 1 Notes:**

### 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	Apply for admission to College.
PHYS	221	General Physics I	4	
CMST	102	Public Speaking	3	
ME	103	Computer Graphical Communication	1	
ME	201	Introduction to Problem Solving and Design	2	
EE	244	Digital Logic	2	

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**Term 2 Notes:**

### 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	321	Differential Equations	4	
PHYS	222	General Physics II	3	
PHYS	232	General Physics II Laboratory	1	

<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%
ME	212	Statics	3	
EE	230	Circuits I	3	
EE	240	Circuits I Laboratory	1	

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**Term 3 Notes:**

### 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	223	Calculus III	4	Apply for admission to program.
ME	203	GD&T in Engineering Design	2	
ME	214	Dynamics	3	
ME	291	Engineering Analysis	3	
		Math/Science Required Elective	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 $\geq$ 2.0 Course Completion Rate $\geq$ 67% Apply for Graduation
ME	206	Materials Science	3	
ME	241	Thermodynamics	3	
ME	321	Fluid Mechanics	3	
ME	223	Mechanics of Materials	3	
ME	341	Linear Systems Analysis	3	

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**Term 5 Notes:**

### 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
ME	324	Heat Transfer	3	Apply for graduation.
ME	329	Applied Thermodynamics	3	
ME	333	Manufacturing Processes	3	
ME	336	ME Experimentation I	2	
ME	417	Machine Elements	3	
		Humanities/Social Science Required Course	3	

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**Term 6 Notes:**

### 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%
ME	420	Computer Aided Engineering	3	
ME	428	Design Project I	3	
ME	436W	ME Experimentation II	2	
ME	463	Automatic Controls	3	
ME		ME Required Elective	3	
ME	492	ME Seminar	1	
		Humanities/Social Science Required Course	3	

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**Term 7 Notes:**

### 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%
ME	438W	Design Project II	3	
ME	466W	ME Experimentation III	2	
ME		ME Required Elective	3	
		Humanities/Social Science Required Course	4	
		Humanities/Social Science Required Course	3	

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**Term 8 Notes:**

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### PROGRAM NOTES

A 2.5 GPA for upper division engineering courses is required for graduation.  
 Students should consult department guidelines for the approved Humanities/Social Science and Math/Science elective courses.  
 Students should consult with their academic advisor during the selection of ME Required Electives.

### 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; text-align: center;" type="text" value="128"/>

### 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