

# Mechanical Engineering

125 credit hours total

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
<div><b>*MATH 220 (4)</b></div> <div>Analytic Geometry and Calculus I</div> <div>KSC-3</div>	<div><b>MATH 221 (4)</b></div> <div>Analytic Geometry and Calculus II</div> <div>PR: MATH 220 ≥ C</div>	<div><b>MATH 222 (4)</b></div> <div>Analytic Geometry and Calculus III</div> <div>PR: MATH 221 ≥ C</div>	<div><b>MATH 340 (4)</b></div> <div>Elementary Differential Equations</div> <div>PR: MATH 221 ≥ C</div>	<div><b>CE 533 (3)</b></div> <div>Mechanics of Materials</div> <div>PR/CO: MATH 221 PR: CE 333 ≥ C or 530 ≥ C</div>	<div><b>ME 533 (3)</b></div> <div>Machine Design I</div> <div>PR: ME 212, ME 512, CE 533</div>	<div><b>ME 574 (3)</b></div> <div>Interdisciplinary Industrial Design Projects I</div> <div>PR: ME 533, ME 535, ME 571 PR/CO: ENGL 200</div>	<div><b>ME 575 (3)</b></div> <div>Interdisciplinary Industrial Design Projects II</div> <div>PR/CO: ME 574</div>
<div><b>CHM 210 (4)</b></div> <div>Chemistry I</div>	<div><b>*PHYS 213 (5)</b></div> <div>Engineering Physics I</div> <div>KSC-4 PR/CO: MATH 220</div>	<div><b>PHYS 214 (5)</b></div> <div>Engineering Physics II</div> <div>PR: PHYS 213 PR/CO: MATH 221</div>	<div><b>MATH 551 (3)</b></div> <div>Applied Matrix Theory</div> <div>PR: MATH 220</div>	<div><b>ECE 519 (3)</b></div> <div>Electric Circuits for Engineers</div> <div>PR: PHYS 214</div>	<div><b>ME 535 (3)</b></div> <div>Measurement and Instrumentation Laboratory</div> <div>PR: ME 513 and ECE 519 or ME 519</div>	<div><b>ME 573 (3)</b></div> <div>Heat Transfer</div> <div>PR: MATH 340, ME 400, ME 571</div>	<div><b>IMSE 530 (2)</b></div> <div>Engineering Economic Analysis</div> <div>PR: MATH 220</div>
<div><b>DEN 160 (1)</b></div> <div>College of Engineering Orientation</div>	<div><b>ME 212 (2)</b></div> <div>Engineering Graphics</div> <div>PR/CO: MATH 205 or 220</div>	<div><b>CE 333 (3)</b></div> <div>Statics</div> <div>PR: MATH 221, PHYS 213</div>	<div><b>ME 512 (3)</b></div> <div>Dynamics</div> <div>PR: CE 333, PR/CO: MATH 340</div>	<div>OR</div>	<div><b>ME 571 (3)</b></div> <div>Fluid Mechanics</div> <div>PR: ME 512 PR/CO: ME 513</div>	<div><b>ME 570 (4)</b></div> <div>Control of Mechanical Systems I</div> <div>PR: MATH 340, ME 400, ME 512 PR/CO: ME 535</div>	<div><b>* Elective (3)</b></div> <div>Arts and Humanities</div> <div>KSC-6</div>
<div><b>DEN 161 (1)</b></div> <div>Engineering Problem Solving</div> <div>PR/CO: MATH 150</div>	<div><b>CHE 354 (1)</b></div> <div>Basic Concepts in Materials Science and Engineering (5-week class)</div> <div>PR: CHM 210, PR/CO: PHYS 213</div>	<div><b>IMSE 250 (2)</b></div> <div>Introduction to Manufacturing Processes and Systems</div> <div>PR/CO: MATH 220</div>	<div><b>NE 495 (3)</b></div> <div>Elements of Nuclear Engineering</div> <div>PR: MATH 221, PHYS 213</div>	<div><b>ME 513 (3)</b></div> <div>Thermodynamics I</div> <div>PR: MATH 221, PHYS 213</div>	<div><b>* Elective (3)</b></div> <div>Social and Behavioral Sciences</div> <div>KSC-5</div>	<div><b>* Elective (3)</b></div> <div>Institutional</div> <div>KSC-7</div>	<div><b>* Elective (3)</b></div> <div>Institutional</div> <div>KSC-7</div>
<div><b>* Elective (3)</b></div> <div>Arts and Humanities</div> <div>KSC-6</div>	<div><b>CHE 355 (1)</b></div> <div>Fundamentals of Mechanical Properties (5-week class)</div> <div>PR: CHE 354</div>	<div><b>*ENGL 100 (3)</b></div> <div>Expository Writing I</div> <div>KSC-1</div>	<div><b>*ENGL 200 (3)</b></div> <div>Expository Writing II</div> <div>KSC-1 PR: ENGL 100</div>	<div><b>▲ Elective (3)</b></div> <div>Restricted</div>	<div><b>▲ Elective (3)</b></div> <div>ME/NE</div>	<div><b>▲ Elective (3)</b></div> <div>ME/NE</div>	<div><b>▲ Elective (3)</b></div> <div>ME/NE</div>
<div><b>* Elective (3)</b></div> <div>Social and Behavioral Sciences</div> <div>KSC-5</div>	<div><b>*COMM 106 (3)</b></div> <div>Public Speaking</div> <div>KSC-2</div>			<div><b>ME 400 (3)</b></div> <div>Computer Applications in Mechanical Engineering</div> <div>PR/CO: MATH 340</div>			<div><b>▲ Elective (3)</b></div> <div>&gt;600</div>

(16 credit hours)

(16 credit hours)

(17 credit hours)

(16 credit hours)



(15 credit hours)

(15 credit hours)

(16 credit hours)

(14 credit hours)

## KEY

 = Prerequisite for another course	PR = Prerequisite requirement	PR/CO = Prerequisite or concurrent requirement	 = Class applies as specialization if applicable
* = K-State Core (KSC) course	▲ = See department approved electives	● = Only offered in the semester shown	

Flowchart is for advising purposes only. Students are responsible for complying with University Catalog requirements.