

**Engineering with Mechanical Concentration**  
(Department of Engineering)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
<a href="#">[ENGR 101]</a> Engineering Graphics	2	
<a href="#">[ENGR 102]</a> Introduction to Engineering	2	
<a href="#">[ENGR 201]</a> Group Orientation	1	
<a href="#">[ENGR 231]</a> Engineering Statics	3	
<a href="#">[ENGR 254]</a> Materials Engineering	4	
<a href="#">[ENGR 262]</a> Circuit Analysis	4	
<a href="#">[ENGR 290]</a> Engineering Economics	2	
<a href="#">[ENGR 301]</a> Seminar I	1	
<a href="#">[ENGR 302]</a> Seminar II	1	
<a href="#">[ENGR 366]</a> Control Systems	4	
<a href="#">[ENGR 488]</a> Project III	2	
<a href="#">[ENGR 489]</a> Project IV	2	
<a href="#">[CHEM 105]</a> General Chemistry I	4	
<a href="#">[MATH 111]</a> Calculus I	4	
<a href="#">[MATH 112]</a> Calculus II	4	
<a href="#">[MATH 211]</a> Calculus III	4	
<a href="#">[MATH 261]</a> Linear Algebra	3	
<a href="#">[MATH 308]</a> Differential Equations	3	
<a href="#">[PHYS 211]</a> General Physics I	4	
<a href="#">[PHYS 212]</a> General Physics II	4	
<b><u>Mechanical Concentration</u></b>		
<a href="#">[ENGR 232]</a> Engineering Dynamics	3	
<a href="#">[ENGR 242]</a> Experimental Methods	3	
<a href="#">[ENGR 288]</a> Project I	1	
<a href="#">[ENGR 333]</a> Mechanics of Materials	3	
<a href="#">[ENGR 371]</a> Thermodynamics	3	
<a href="#">[ENGR 372]</a> Fluid Mechanics	4	
<a href="#">[ENGR 373]</a> Instrumentation and Measurement	3	
<a href="#">[ENGR 374]</a> Heat Transfer Analysis and Design	4	
<a href="#">[ENGR 381]</a> Mechanical Design	3	
<a href="#">[ENGR 384]</a> Manufacturing Processes	3	
<a href="#">[ENGR 388]</a> Project II	1	

General Education requirements on next page

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General Education Requirements

<u>Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
First Year Seminar	3	
Oral Communications	3	
Created and Called for Community	3	
Mathematical Sciences ( <a href="#">[MATH 111]</a> )	3 or 4	<u>met by major</u>
Laboratory Science ( <a href="#">[CHEM 105]</a> )	3 or 4	<u>met by major</u>
Science, Technology & the World	3	<u>waived</u>
<b>Two</b> of the following:	6	
Social Science (3 credits)		
European History (3 credits)		
United States History (3 credits)		
Literature	3	
Philosophy and Religion	3	
Arts	3	<u>waived</u>
Language/Cross Cultural		
First Semester of Language	3	
Second Semester of Language	3	
<b>One</b> of the following*:	2 or 3	
Third Semester of Language		
Cross Cultural		
Non-Western Studies		
Bible	3	
Christian Beliefs	3	
Health and Physical Fitness		
Introduction to Wellness	2	
Activity Course	1	
<b>One</b> of the following:	3	
Ethics (3 credits)		
World Views (3 credits)		
Pluralism in Contemporary Society (3 credits)		
Writing Enriched Course		

\*The choice of either a third semester of a language, a cross cultural, or a non-western studies course applies **only** to the Engineering major.

SUMMARY OF DEGREE REQUIREMENTS:

General Education	41-42
Major Core Requirements	58
Concentration Requirements	31
<b>Total</b>	<b>130-131</b>

Major requirements on reverse side