

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

Major Requirements

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

General Education requirements on reverse side

(revised May 2007)

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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 ([MATH 111])	3 or 4	<u>met by major</u>
Laboratory Science ([CHEM 105])	3 or 4	<u>met by major</u>
Science, Technology & the World		<u>waived</u>
Two of the following:	6	
Social Science (3 credits)		_____
European History (3 credits)		_____
United States History (3 credits)		_____
Literature	3	_____
Philosophy and Religion	3	_____
Arts		<u>waived</u>
Language/Cross Cultural		
First Semester of Language	3	_____
Second Semester of Language	3	_____
One 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	_____
One 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	42
Major Core Requirements	61
Concentration Requirements	28
Total	131

Major requirements on reverse side

(revised May 2007)