

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

Major Requirements

<u>Core 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 242]</a> Experimental Methods	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>Computer Concentration</u></b>		
<a href="#">[COSC 181]</a> Computer Programming I	3	_____
<a href="#">[COSC 182]</a> Computer Programming II	3	_____
<a href="#">[COSC 281]</a> System Internals and Assembly Language	3	_____
<a href="#">[COSC 282]</a> Data Structures and Algorithms	3	_____
<a href="#">[ENGR 340]</a> Analog Electronics	3	_____
<a href="#">[ENGR 342]</a> Microprocessor Applications	4	_____
<a href="#">[ENGR 349]</a> Digital Electronics	3	_____
Approved ENGR/COSC elective	3	_____
Approved ENGR/COSC elective	3	_____

General Education requirements on reverse side

Revised August 2008

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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		<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		<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	61
Concentration Requirements	28
<b>Total</b>	<b>130-131</b>

Major requirements on reverse side