

# Engineering Science

				<i>Courses with Intensive Designation</i>	
<i>Course Number</i>	<i>Course Name</i>	<i>Credits</i>	<i>Comments</i>	<i>CORE SKILL I</i>	<i>ADD. CORE SKILLS</i>
<b>REQUIREMENTS:</b>					
CHM121	General Chemistry I	4	Prerequisite	SCIENCE & TECH	QUANTITATIVE REASONING
ECO201	Micro Economics	3		QUANTITATIVE REASONING	
ECO202	Macro Economics	3		QUANTITATIVE REASONING	GLOBAL AWARENESS
ENG101	English Composition I	3			
ENG102	English Composition II	3	Prerequisite		
ENG103	Technical Writing	3	Prerequisite	WRITTEN COMMUNICATION	
EST104	Engineering Essentials & Design	3	Corequisite	SCIENCE & TECH	
EST110	Engineering Design Graphics	3		SCIENCE & TECH	
MAT251	Calculus I	4	Prerequisite	QUANTITATIVE REASONING	
MAT252	Calculus II	4	Prerequisite		
MAT253	Calculus III	4	Prerequisite		
MAT254	Differential Equations	4	Prerequisite		
PHS131	Engineering Physics I	4	Prerequisite	SCIENCE & TECH	
PHS132	Engineering Physics II	4	Prerequisite	SCIENCE & TECH	
<b>CHEMICAL ENGINEERING CONCENTRATION</b>					
CHM122	General Chemistry II	4	Prerequisite	SCIENCE & TECH	QUANTITATIVE REASONING
	Chemical Engineering Elective	3/4	EST213 or higher, or MAT125, MUST see advisor, prerequisite	QUANTITATIVE REASONING – MAT125 ONLY	
PHI110	Ethics	3			
<b>CIVIL/ENVIRONMENTAL ENGINEERING CONCENTRATION</b>					
EST111	Computer Aided Drafting I	3	Prerequisite	SCIENCE & TECH	
EST112	Computer Aided Drafting II	3	Prerequisite	SCIENCE & TECH	
CHM122	General Chemistry II	4	Prerequisite	SCIENCE & TECH	QUANTITATIVE REASONING
	Civil/Environmental Engineering Elective	3	EST211 or higher, MUST see advisor, prerequisite		SCIENCE & TECHNOLOGY
	Civil/Environmental Engineering Elective	3	EST212 or higher, MUST see advisor, prerequisite		
<b>ELECTRICAL/COMPUTER ENGINEERING CONCENTRATION</b>					
CTE101	Fundamentals of Digital Logic	3	Corequisite		
CTE103	Digital Design Lab	2	Corequisite		SCIENCE & TECHNOLOGY

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	Electrical/Computer Engineering Elective	3	EST231 or higher, MUST see advisor, prerequisite		
	Electrical/Computer Engineering Elective	3	EST232 or higher, MUST see advisor, prerequisite		
<b>MECHANICAL ENGINEERING CONCENTRATION</b>					
EST111	Computer Aided Drafting I	3	Prerequisite	<b>SCIENCE &amp; TECH</b>	
EST112	Computer Aided Drafting II	3	Prerequisite	<b>SCIENCE &amp; TECH</b>	
	Mechanical Engineering Elective	3	EST211 or higher, MUST see advisor, prerequisite		<b>SCIENCE &amp; TECHNOLOGY</b>
	Mechanical Engineering Elective	3	EST212 or higher, MUST see advisor, prerequisite		
PHI110	Ethics	3			

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<b>ELECTIVES:</b>					
	Computer Program Electives	4	CIS 140, CIS200 or higher, <b>not</b> CIS141	<b>INFORMATION LITERACY – CIS140</b>	
	Humanities Elective	3	COM111 strongly recommended	<b>Choices to be identified by program</b>	<b>GLOBAL AWARENESS –</b> <b>ART104, ART105,</b> <b>ART109, ART231,</b> <b>CHN101, DAN147,</b> <b>FRN101, FRN102,</b> <b>FRN201, FRN202,</b> <b>GER101, GER102,</b> <b>ITN101, ITN102, LIT224,</b> <b>LIT263, LIT271, LIT272,</b> <b>MUS112, REL101,</b> <b>SPN105, SPN111,</b> <b>SPN112, SPN201,</b> <b>SPN202, SPN221,</b> <b>SPN222, THE101</b>  <b>INFORMATION LITERACY – ART104,</b> <b>ART105, ASL203,</b> <b>JRN101</b>  <b>PUBLIC PRESENTATION –</b> <b>ART108, ART109,</b> <b>ART130, COM111,</b> <b>COM115, DAN203,</b> <b>LIT262, LIT271, THE110,</b> <b>THE113</b>  <b>SCIENCE &amp; TECH –</b> <b>ART152</b>

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					<i>WRITTEN COMMUNICATION – ART104, ART105, DAN131, ENG103, ENG111, ENG113, ENG115, ESL115, LIT202, LIT211, LIT212, LIT213, LIT215, LIT224, MUS224</i>
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