

# CIVIL ENGINEERING - Class of 2016

Total Credits = **124**

## Freshman Year *Fall* Semester

Course Code	Description	Cr	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chem I Lab	1	
EGR 105	Foundations of Engineering I	1	
MTH 141	Intro Calculus w/Analytic Geom [GE-MQ]	4	
ECN 201	Principles of Microeconomics [GE-S]	3	
	General Education Elective*	3	
		<b>15</b>	

## Freshman Year *Spring* Semester

Course Code	Description	Cr	
EGR 106	Foundations of Engineering II	2	
MTH 142	Intermed Calc with Analytic Geom [GE-MQ]	4	
PHY 203	Elementary Physics I Lect [GE-N]	3	
PHY 273	Elementary Physics I Lab [GE-N]	1	
	General Education Elective*	3	
	General Education Elective*	3	
		<b>16</b>	

## Sophomore Year *Fall* Semester

Course Code	Description	Cr	
CVE 205	Intro to Civil Engineering Tools	2	
GEO 103	Understanding the Earth [GE-N]	4	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
PHY 204	Elementary Physics II Lecture	3	
PHY 274	Elementary Physics II Lab	1	
		<b>16</b>	

## Sophomore Year *Spring* Semester

Course Code	Description	Cr	
CHM 112	General Chemistry II Lecture [GE-N]	3	
CVE 220	Mechanics of Materials	3	
CVE 230	Mechanics of Materials Lab	1	
MCE 263	Dynamics	3	
MTH 244	Differential Equations	3	
	General Education Elective*	3	
		<b>16</b>	

## Junior Year *Fall* Semester

Course Code	Description	Cr	
CVE 346	Transportation Engineering	3	
CVE 354	Structural Analysis	3	
CVE 355	Structural Analysis Lab	1	
CVE 374	Environmental Engineering	3	
CVE 381	Geotechnical Engineering	3	
CVE 382	Geotechnical Engineering Lab	1	
MCE 354	Fluid Mechanics	3	
		<b>17</b>	

## Junior Year *Spring* Semester

Course Code	Description	Cr	
CVE 347	Highway Engineering	3	
CVE 348	Highway Engineering Lab	1	
CVE 370	Hydraulic Engineering	3	
CVE 375	Hydraulic Engineering Lab	1	
MCE 341	Fundamentals of Thermodynamics	3	
STA 409	Statistics	3	
		<b>14</b>	

## Senior Year *Fall* Semester

Course Code	Description	Cr	
CVE 400	Civil Engineering Licensure	1	
CVE 465	Analysis & Design of Concrete Structures	3	
CVE 497	Civil Engineering Design I	2	
ELE 220	Passive and Active Circuits	3	
WRT 333	Scientific and Technical Writing [GE-ECw]	3	
	Professional Elective**	3	
		<b>15</b>	

## Senior Year *Spring* Semester

Course Code	Description	Cr	
CVE 483	Foundation Engineering	3	
CVE 498	Civil Engineering Design II	3	
ISE 404	Engrg Economy and Project Planning	3	
	Professional Elective**	3	
	Professional Elective**	3	
---	Take FE Exam	---	
		<b>15</b>	

\* Note the following *specific* requirements and restrictions for General Education [GE] electives:

-Refer to *specific* Civil Engineering General Education *course requirements* (see 2016 CVE Check Sheet).

-**Must** take WRT 333 [GE-ECw] and additional **three (3)** credits of General Education [GE-EC/ECw].

\*\* **Three** of the **nine (9)** credits **must** be one of the following courses: CVE 470, 471, 475, 478. The **remaining six (6)** credits are to be selected from the list in the Civil Engineering Undergraduate Student Handbook.

Name \_\_\_\_\_

ID # \_\_\_\_\_

**CIVIL ENGINEERING - Class of 2016****124 Credits**

SPECIFIED MATH, SCIENCE, AND ENGINEERING COURSES											
INTRODUCTORY ENGINEERING						ENGINEERING SCIENCE AND DESIGN					
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
	EGR 105	1					CVE 205	2			
	EGR 106	2					CVE 220	3			
		3					CVE 230	1			
<b>MATHEMATICS</b>							CVE 346	3			
	MTH 141 [GE-MQ]	4					CVE 347	3			
	MTH 142 [GE-MQ]	4					CVE 348	1			
	MTH 243	3					CVE 354	3			
	MTH 244	3					CVE 355	1			
	STA 409	3					CVE 370	3			
		17					CVE 374	3			
<b>NATURAL SCIENCES</b>							CVE 375	1			
	CHM 101 [GE-N]	3					CVE 381	3			
	CHM 102	1					CVE 382	1			
	CHM 112 [GE-N]	3					CVE 465	3			
	GEO 103 [GE-N]	4					CVE 400	1			
	PHY 203 [GE-N]	3					CVE 483	3			
	PHY 273 [GE-N]	1					CVE 497	2			
	PHY 204 [GE-N]	3					CVE 498	3			
	PHY 274 [GE-N]	1					ELE 220	3			
							ISE 404	3			
							MCE 262	3			
							MCE 263	3			
							MCE 341	3			
							MCE 354	3			
								58			
						<b>**PROFESSIONAL ELECTIVES</b>					
								3			
								3			
								3			
		19						9			
<b>TAKE FUNDAMENTALS OF ENGINEERING (FE) EXAM</b>											
	<input type="checkbox"/> October	<input type="checkbox"/> April	---	---	---						
<b>GENERAL EDUCATION [GE] COURSES</b>											
<b>BREADTH</b> At least one course in <i>each</i> of the Gen Ed Areas						<b>DEPTH</b> At least one additional course in 3 <i>different</i> Gen Ed Areas Remainder are taken in <i>any</i> Gen Ed Area/Areas					
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
<b>***English Communication-Writing [GE-ECw]</b>						<b>Natural Sciences [GE-N]</b>					
	WRT 333	3				---	<i>Satisfied by Required Courses</i>	15	---	---	---
<b>Mathematical and Quantitative Reasoning [GE-MQ]</b>						<b>Mathematical and Quantitative Reasoning [GE-MQ]</b>					
	<i>Satisfied by</i> MTH 141	4	---	---	---		<i>Satisfied by</i> MTH 142	4	---	---	---
<b>Fine Arts &amp; Literature [GE-A]</b>						<b>**One additional course from: EC/ECw</b>					
		3					[GE-EC/ECw]	3			
<b>Foreign Language/Culture [GE-FC]</b>						<b>Free Elective</b>					
		3				---	<i>Not Required</i>	---	---	---	---
<b>Letters [GE-L]</b>						<b>Other Courses (not for degree credit)</b>					
		3									
<b>Natural Sciences [GE-N]</b>											
	<i>Satisfied by</i> CHM 101	3	---	---	---						
<b>Social Sciences [GE-S]</b>											
	ECN 201	3									

\* Select a course from the list in the Civil Engineering Undergraduate Student Handbook.

\*\* *Three (3) of the nine (9) credits must be one of the following courses: CVE 470, 471, 475, 478.  
The remaining six (6) cr are selected from the list in the CVE Undergraduate Student Handbook.*\*\*\* Note the following specific requirements and restrictions for General Education [GE] electives:  
-[GE-ECw] *Must* take at least *one (1)* General Education course in *writing* [GE-ECw].