

## CIVIL ENGINEERING - Class of 2019

**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	
		15	

### 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	
STA 409	Statistics	3	
	Technical Elective**	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	
WRT 332	Technical Writing [GE-ECw]	3	
	Professional Elective***	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 2019 CVE Check Sheet)*.

**Must take WRT 332 [GE-ECw] and additional *three (3)* credits of General Education [GE-EC/ECw].**

\*\* Select **one** of the following: CHE 333, ELE 220, MCE 341, or MTH 215.

\*\*\* **Three (3)** of the **twelve (12)** credits must be **one** of the following courses: CVE 470, 471, 475, 477.

The **remaining nine (9) credits** are selected from the list in the CVE Undergraduate Student Handbook.

Name \_\_\_\_\_

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

**CIVIL ENGINEERING - Class of 2019****Total Credits = 124**

SPECIFIED MATHEMATICS, 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			
MATHEMATICS							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			
NATURAL SCIENCES							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 [capstone]	2			
	PHY 204 [GE-N]	3					CVE 498 [capstone]	3			
	PHY 274 [GE-N]	1					ISE 404	3			
							MCE 262	3			
							MCE 263	3			
							MCE 354	3			
								52			
***TAKE FUNDAMENTALS OF ENGINEERING (FE) EXAM						*TECHNICAL ELECTIVE					
	<input type="checkbox"/> Oct/Nov	<input type="checkbox"/> Jan/Feb	---	---	---			3			
	<input type="checkbox"/> Apr/May	<input type="checkbox"/> Jul/Aug	---	---	---			3			
						**PROFESSIONAL ELECTIVES					
								3			
								3			
								3			
								3			
								12			
GENERAL EDUCATION [GE] COURSES											
BREADTH At least one course in <i>each</i> of the Gen Ed Areas						DEPTH At least one additional course in 3 <i>different</i> Gen Ed Areas Remainder are taken in <i>any</i> Gen Ed Area/Area					
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
English Communication-Writing [GE-ECw]						Natural Sciences [GE-N]					
	WRT 332	3				✓	Satisfied by Required Courses	15	---	---	---
Mathematical and Quantitative Reasoning [GE-MQ]						Mathematical and Quantitative Reasoning [GE-MQ]					
✓	Satisfied by MTH 141	4	---	---	---	✓	Satisfied by MTH 142	4	---	---	---
Fine Arts & Literature [GE-A]						One additional course from: EC/ECw					
		3					[GE-EC/ECw]	3			
Foreign Language/Culture [GE-FC]						Free Elective					
		3				---	Not Required	---	---	---	---
Letters [GE-L]						Other Courses (not for degree credit)					
		3									
Natural Sciences [GE-N]											
✓	Satisfied by CHM 101	3	---	---	---						
Social Sciences [GE-S]											
	ECN 201	3									

\* Technical Elective: Select *one (1)* of the following: CHE 333, ELE 220, MCE 341, or MTH 215.\*\* Professional Electives: *Three (3)* of the *twelve (12)* credits must be *one (1)* of the following courses: CVE 470, 471, 475, 477; the remaining *nine (9)* credits can be any 300-level and above CVE courses.\*\*\* FE Examination: *Official NCEES proof of having taken the exam is required.*