

CIVIL ENGINEERING - Class of 2015

Total Credits = **124**

Freshman Year *Fall* Semester

Course Code	Description	Cr	
EGR 105	Foundations of Engineering I	1	
CHM 101	General Chemistry I Lec [GE-N]	3	
CHM 102	General Chem I Lab	1	
MTH 141	Intro Calculus w/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	

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Freshman Year *Spring* Semester

Course Code	Description	Cr	
EGR 106	Foundations of Engineering II	2	
ECN 201	Principles of Microeconomics [GE-S]	3	
MTH 142	Intermed Calc with Analytic Geom [GE-MQ]	4	
PHY 204	Elementary Physics II Lecture	3	
PHY 274	Elementary Physics II Lab	1	
	General Education Elective*	3	

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Sophomore Year *Fall* Semester

Course Code	Description	Cr	
CVE 205	Intro to Civil Engineering Tools	2	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
GEO 103	Understanding the Earth [GE-N]	4	
CHM 112	General Chemistry II Lecture [GE-N]	3	

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Sophomore Year *Spring* Semester

Course Code	Description	Cr	
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	
	General Education Elective*	3	

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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	

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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	
WRT 333	Scientific and Technical Writing [GE-ECW]	3	

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Senior Year *Fall* Semester

Course Code	Description	Cr	
CVE 400	Civil Engineering Licensure	1	
CVE 465	Analysis & Design of Concrete Structures	3	
CVE 483	Foundation Engineering	3	
CVE 497	Civil Engineering Design I	2	
ELE 220	Passive and Active Circuits	3	
	Professional Elective**	3	

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Senior Year *Spring* Semester

Course Code	Description	Cr	
CVE 498	Civil Engineering Design II	3	
ISE 404	Eng. Economy & Project Planning	3	
STA 409	Statistics	3	
	Professional Elective**	3	
	Professional Elective**	3	
---	Take FE Exam	---	

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

-Refer to *specific* Civil Engineering General Education *course requirements* (see 2015 CVE Check Sheet).

** *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.

CIVIL ENGINEERING - Class of 2015

GENERAL EDUCATION [Gen Ed] REQUIREMENTS (*Effective Fall 2011*)

Please carefully note the following regarding completion of your degree requirements.

1) The Gen Ed requirements shown below are not retroactive to any previous catalog years.

♦♦♦This means that if you choose to follow the Gen Ed requirements shown, you are required to follow any and all other changes to the required courses for your major (see 2015 Curriculum Sheet and Check Sheet on the COE web page).

2) If you change engineering majors, then you are required follow the Gen Ed requirements for that major. *These requirements vary by major* (see 2015 Curriculum Sheet and Check Sheet on the COE web page).

3) If you are considering following the new Gen Ed requirements shown, you must meet with your advisor to discuss the implications this will have on your degree progress.

4) You must also notify the Associate Dean of Engineering (102 Bliss Hall) once you decide that you want to to follow the revised Gen Ed requirements.

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/Areas					
Sem	Course	Cr	Grade	QP	Note	Sem	Course	Cr	Grade	QP	Note
***English Communication-Writing [GE-ECw]						Natural Sciences [GE-N]					
	WRT 333	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 (<i>not for degree credit</i>)					
		3									
Natural Sciences [GE-N]											
	Satisfied by CHM 101	3	---	---	---						
Social Sciences [GE-S]											
	ECN 201	3									

*** 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].

-[GE-ECw] Can only take *one (1)* of the following **100-level** writing courses for General Education credit [GE-ECw]: WRT 104, WRT 105, WRT 106.

Notes