

CIVIL ENGINEERING - Class of 2014

Total Credits = **123**

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	
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	
ECN 201	Principles of Microeconomics [GE-S]	3	
EGR 106	Foundations of Engineering II	2	
MTH 142	Intermed Calculus w/Analytic Geometry	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	
GEO 103	Understanding the Earth [GE-N]	4	
MCE 262	Statics	3	
MTH 243	Calculus for Functions of Several Vars	3	
	General Education Elective [GE-S]	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 370	Hydraulic Engineering	3	
CVE 375	Environmental Engineering Lab	1	
CVE 347	Highway Engineering	3	
CVE 348	Highway Engineering Lab	1	
STA 409	Statistics	3	
	Engineering Elective**	3	

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Senior Year *Fall* Semester

Course Code	Description	Cr	
CVE 465	Analysis & Design of Concrete Structures	3	
CVE 497	Civil Engineering Design I	2	
	Professional Elective***	3	
	Professional Elective***	3	
	General Education Elective*	3	

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Senior Year *Spring* Semester

Course Code	Description	Cr	
CVE 483	Foundation Engineering	3	
CVE 498	Civil Engineering Design II	3	
	Professional Elective***	3	
	Professional Elective***	3	
	Free 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 2014 CVE Check Sheet).

-[GE-MQ] Additional [GE-MQ] electives are restricted to MTH 111 (*only if taken prior to passing MTH 141*), BUS 111, and STA 220 only.

-[GE-ECw] *Must* take at least *one* General Education course in *writing* [GE-ECw].

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

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

*** **Three** of the 12 credits *must* be one of the following courses: CVE 470, 471, 475, 478. The **remaining** 9 credits are to be selected from the list in the Civil Engineering Undergraduate Student Handbook.

**** Recommend a CVE Professional Elective to satisfy this requirement.

CIVIL ENGINEERING - Class of 2014

GENERAL EDUCATION [Gen Ed] REQUIREMENTS *(Effective Fall 2010)*

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 2014 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 2014 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 follow the revised Gen Ed requirements.

GENERAL EDUCATION [GE] COURSES						
BREADTH At least one course in <i>each</i> of the Gen Ed Areas						
Sem	Course	Cr	Grade	QP	Note	
***English Communication-Writing [GE-ECw]						
	WRT	3				
Mathematical and Quantitative Reasoning [GE-MQ]						
	Satisfied by MTH 141	4	---	---	---	
Fine Arts & Literature [GE-A]						
		3				
Foreign Language/Culture [GE-FC]						
		3				
Letters [GE-L]						
		3				
Natural Sciences [GE-N]						
	Satisfied by CHM 101	3	---	---	---	
Social Sciences [GE-S]						
	ECN 201	3				
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	
Natural Sciences [GE-N]						
---	Satisfied by Required Courses	12	---	---	---	
***Two additional courses: <i>one</i> from EC/ECw; and <i>one</i> from S						
	[GE-EC/ECw]	3				
	[GE-S]	3				
****FREE ELECTIVE						
		3				
OTHER COURSES (<i>not for degree credit</i>)						

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[illegible]