

## Civil Engineering Curriculum 2013-2015 Catalog

Course	Course	Cr	Prerequisite (co-requisite)	Sem	Gr	Course	Course	Cr	Prerequisite (co-requisite)	Sem	Gr
	<b>Fall Semester</b>						<b>Spring Semester</b>				
<b>Freshman</b>											
ENGL 101	Rhet & Comp	3	ACT >18 or ENGL 90			ENGL 102	Composition & Lit.	3	ENGL 101 w/C grade		
CHEM 101	General Chemistry I	3	MATH 105 w/C grade			CHEM 108	General Chemistry II	3	CHEM 107 w/C grade		
MATH 270	Calculus I	4	ACT > 28 or MATH 110			CHEM 115		2	(CHEM 108)		
ITEC 270	Computer Graphics	3	Permission of Dept.			MATH 301	Calculus II	4	MATH 270 w/C grade		
CIVE 101	C.E. Orientation	1				PHYS 201	Gen. Physics I	4	MATH 270 w/C grade (MATH 301)		
UNIV 100	Freshman Seminar	2				UNIV 200	Inform. Literacy	2			
	<b>Total</b>	16						18			
<b>Sophomore</b>											
MATH 302	Calculus III	4	MATH 301 w/C grade			MATH 350	Differential Eqns.	3	MATH 301 w/C grade		
ENGR 211	Statics	3	PHYS 201 w/C grade			ENGR 219	Mech. Of Mat'ls	3	ENGR 211 w/C grade		
CIVE 225	Surveying	3	MATH 110, ITECH 270			ENGR 304	Fluid Mechanics	3	ENGR 211 w/C grade (ENGR 313)		
BIOL	Biology Elective	3	Check catalog			ENGR 313	Dynamics	3	ENGR 211 w/C grade		
ART	Art Elective	3	CIVE approved elective list			ENGR 201	Electric Circuits	3	PHYS 201 w/C grade		
	<b>Total</b>	16						15			
<b>Junior</b>											
ENGR 301	Thermodynamics	3	MATH 270, CHEM 107, PHYS 201 or CHEM 108			CIVE 322	Environmental Engineering I	3	CHEM 108, 115, ENGR 304 w/C grade		
CIVE 332	Structural Analysis	3	ENGR 219 w/C grade			CIVE 328	Geotechnical Engr.	3	ENGR 219, 304 w/C grade		
ECON 430	Ind. Econ & Finance	3	MATH 301 w/C grade			CIVE 429	Hydrology	3	ENGR 304 w/C grade		
CMCN	Comm. Elective	3	CIVE approved list			STAT	Statistics Elective	3	CIVE approved list		
HIST	History Elective	3	Cive approved list			LIT	Literature Elective	3	CIVE approved list		
BHSC	Behavioral Sc. Elect.	3	CIVE approved list								
	<b>Total</b>	18						15			
<b>Senior</b>											
CIVE 422	Environmental Engineering II	3	CIVE 322 w/C grade			CIVE 426		3	CIVE 332 w/C grade		
CIVE 427	Reinf. Conc. Design	3	CIVE 332 w/C grade			CIVE 435		3	CIVE 225, Statistics		
CIVE 434	Hydraulic Engr	3	ENGR 304 w/C grade			CIVE 442		2	(CIVE courses & last semester)		
CIVE 438	Foundation Engr	3	CIVE 328 w/C grade			CIVE 444		1	(CIVE courses & last semester)		
CIVE 450	Hwy Engr Design	3	CIVE 225, 328 w/C grades (CIVE 480)			CIVE	CIVE approved Electives	6	Department approved		
CIVE 480	Construction Engr.	3	CIVE 328 (CIVE 427, ECON 430)								
	<b>Total</b>	18						15			