

Name \_\_\_\_\_ I.D. No. \_\_\_\_\_

## CIVIL ENGINEERING Curriculum Sheet Revised 7-31-07

<b><u>Fall Semester – Year 1</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>	<b><u>Spring Semester – Year 1</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>
ENG 101 English I	4	_____	ENG 102 English II	3	_____		
MTH 181 Calculus I	4	_____	MTH 182 Calculus II	4	_____		
CHM 261 General Chemistry I	4	_____	PHY 241 University Physics I	5	_____		
CHM 266 General Chemistry Lab I	1	_____	CVE 211 Surveying	3	_____		
ESC 120 Intro. to Engineering Design ***	2	_____	ESC 151 C Program'g OR ESC 150 Fortran	3	_____		
ESC 100 New Student Orientation*	1	_____	CSC 121 Career Orientation**	1	_____		
<b><u>Fall Semester – Year 2</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>	<b><u>Spring Semester – Year 2</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>
ESC 201 Statics	3	_____	ESC 211 Strength of Materials	3	_____		
ESC 250 Differential Equations for Engrs.	3	_____	ESC 301 Fluid Mechanics	3	_____		
MTH 283 Multivariable Calculus for Engrs.	2	_____	ESC 310 Engr. Statistics and Probability	3	_____		
PHY 242 Univ. Physics II	5	_____	ESC 315 Electrical Engineering Concepts or				
CVE 212 Surveying Lab	2	_____	ESC 321 Thermodynamics	3	_____		
Gen Ed Elective _____	3	_____	ESC 350 Linear Alg. Numer. Meth. Engr.	3	_____		
			Gen Ed Elective _____	3	_____		
<b><u>Fall Semester – Year 3</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>	<b><u>Spring Semester – Year 3</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>
CVE 310 Strength of Materials Lab	2	_____	CVE 322 Structural Steel Design	3	_____		
CVE 312 Structural Analysis I	3	_____	CVE 331 Intro. to Geotechnical Engineering	3	_____		
CVE 361 Hydraulic Engineering	3	_____	CVE 332 Geotechnical Engineering Lab	2	_____		
CVE 362 Hydraulics Lab	1	_____	CVE 412 Structural Analysis II	3	_____		
CVE 371 Environmental Engineering I	3	_____	CVE 473 Environmental Engineering II	3	_____		
ESC 202 Dynamics	3	_____	CVE 474 Environmental Engineering Lab	2	_____		
PHL 215 Engineering Ethics (Writing)	3	_____					
<b><u>Fall Semester – Year 4</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>	<b><u>Spring Semester – Year 4</u></b>		<b><u>Cr.</u></b>	<b><u>Grade</u></b>
CVE 422 Reinforced Concrete Design	3	_____	CVE 403 Construction Planning and Estimating	3	_____		
CVE 426 Senior Design	2	_____	CVE 426 Senior Design (Writing)	2	_____		
ESC 282 Engineering Economy	3	_____	CVE 446 Transportation Engineering	3	_____		
CVE 429 Foundation Engineering	3	_____	CVE Elective _____	3	_____		
Gen Ed Elective _____	3	_____	Gen Ed Elective _____	3	_____		
CVE Elective _____	3	_____	Gen Ed Elective _____	3	_____		

\* Not required for transfer students

\*\*Optional course. Required for participation in co-op and internship programs.

\*\*\* Required for freshmen and transfer students admitted to Engineering College Fall, 2003 and after.

Minimum number of credits required for degree (excluding orientation and co-op): 137

Name \_\_\_\_\_ Advisor \_\_\_\_\_

# CIVIL ENGINEERING

## Co-op Curriculum Sheet

REVISED 12-10-08

<u>Year 1</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	
MTH 181 Calculus I	4	_____	MTH 182 Calculus II	4	_____	Work or School	
CHM 261 Gen. Chemistry I	4	_____	PHY 241 Univ. Physics I	5	_____		
CHM 266 Gen. Chemistry Lab I	1	_____	CVE 211 Surveying	3	_____		
ENG 101 English I	4	_____	ENG 102 English II	3	_____		
ESC 100 New Student Orientation**	1	_____	ESC 151 C Programming	3	_____		
ESC 120 Intro. to Engineering Design***	2	_____	CSC 121 Career Orientation*	1	_____		
<u>Year 2</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr. Grade</u>
ESC 250 Differential Equations for Engineers	3	_____	ESC 211 Strength of Mat'l.	3	_____	Co-op or School:	
PHY 242 Univ. Physics II	5	_____	ESC 301 Fluid Mechanics	3	_____	ESC 300	1 _____
ESC 201 Statics	3	_____	ESC 310 Engr. Statistics and Probability	3	_____		
CVE 212 Surveying Lab	2	_____	ESC 315 Elec. Engr. Concepts	3	_____		
MTH 283 Multi. Var. Calc. Engr	2	_____	or ESC 321 Thermodynamics	3	_____		
Gen Ed. Elective _____	3	_____	ESC 350 Linear Algebra and Num. Meth. in Engr.	3	_____		
			Gen Ed Elective _____	3	_____		
<u>Year 3</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester.</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr. Grade</u>
CVE 310 Strength Lab	2	_____	Co-op: ESC 300	1	_____	ESC 282 Engr. Economy	3 _____
CVE 312 Structural Anal. I	3	_____		3	_____	Gen Ed Elective _____	3 _____
CVE 361 Hydraulic Engr.	3	_____		3	_____		
CVE 362 Hydraulics Lab	1	_____		3	_____		
CVE 371 Environmental Engr.	3	_____		3	_____		
PHL 215 Engineering Ethics (Writing)	3	_____		3	_____		
ESC 202 Dynamics	3	_____		3	_____		
<u>Year 4</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Summer Semester</u>	<u>Cr. Grade</u>
Co-op: ESC 300	1	_____	CVE 322 Structural Steel Design	3	_____	Co-op: ESC 300	1 _____
			CVE 331 Intro. to Geotechnical Engineering	3	_____		
			CVE 332 Geotechnical Engr. Lab (Writing)	2	_____		
			CVE 473 Environ. Engr. II	3	_____		
			CVE 474 Environ. Engr. Lab	2	_____		
			CVE 412 Structural Anal. II	3	_____		
<u>Year 5</u> <u>Fall Semester</u>	<u>Cr.</u>	<u>Grade</u>	<u>Spring Semester</u>	<u>Cr.</u>	<u>Grade</u>		
CVE 422 Reinforced Concrete Design	3	_____	CVE 403 Construct. Planning and Estimating	3	_____		
CVE 426 Senior Design (Writing)	1	_____	CVE 426 Senior Design (Writing)	2	_____		

CVE 429 Foundation Engr.	3	_____	CVE 446 Transport. Engr.	3	_____
CVE	3	_____	CVE	3	_____
Elective_____			Elective_____		
Gen Ed			Gen Ed		
Elective_____	3	_____	Elective_____	3	_____

Minimum number of credits required for degree (excluding orientation and co-op): 136

\* Required for co-op and internship programs.

\*\*Not required for transfer students.

\*\*\*Requirement for freshmen and transfer students admitted to Engineering College Fall 2003 and after