



Humanities base	General Science	CEE courses	Co-requisite
General education electives (4 areas, 3 in your cluster)	Math	Technical elective	Integrated Engineering Core
			Prerequisites (left to right)

**UNIVERSITY OF DAYTON BACHELOR OF CIVIL ENGINEERING PROGRAM**

Revised May 2011

DEPT NO.	COURSE	CREDIT HOURS
<b>FIRST YEAR</b>		<b>1st/2nd Term</b>
EGR 100	Enrichment Workshop	0
EGR 100	Enrichment Workshop	0
CEE 101	Seminar	0
CEE 101	Seminar	0
EGR 103	Engineering Innovation	2
EGR 201	Engineering Mechanics	3
CHM 123 <sup>5</sup>	General Chemistry <sup>1</sup>	4
ENG 101-102	College Composition I, II	6
MTH 168-169	Analytic Geometry & Calculus I, II	8
PHY 206	General Physics I	3
HST 103	The West and The World	3
REL 103	Introduction to Religion	3
PHL 103	Introduction to Philosophy	3
Total Hours		35

DEPT NO.	COURSE	1st Term	2nd Term	Summer
CEE 213	Surveying	2		
CEE 221L	Civil Computation Laboratory	2		
EGM 202	Dynamics	3		
MTH 218	Analytic Geometry and Calculus III	4		
PHY 207	General Physics II	3		
CHM 124	General Chemistry II	3		
CEE 200	Seminar	0	0	
CEE 214	Highway Geometrics		2	
EGM 303	Mechanics II		3	
MTH 219	Applied Differential Equations		3	
GEO 218	Engineering Geology		3	
EGR 202	Thermodynamics		3	
----	Art Elective		3	
CEE 215L	Surveying Field Practice			3
Total Hours		17	17	3

DEPT NO.	COURSE	1st Term	2nd Term
CEE 316	Analysis of Structures I	3	
CEE 313 <sup>5</sup>	Hydraulics	4	
PHL 316 or REL 369	Engineering Ethics	3	
CEE 403	Transportation Engineering	3	
CMM 11X	Communications	1	
EGR 203	Electrical and Electronic Circuits	3	
CEE 300	Seminar	0	0
CEE 311 <sup>6</sup>	Civil Engineering Materials		3
CEE 312 <sup>5</sup>	Geotechnical Engineering		4
CEE 333	Water Resources Engineering		3
CEE 411	Design of Steel Structures		3
CEE 425	Civil Engineering Systems		3
CMM 11X	Communications		1
Total Hours		17	17

DEPT NO.	COURSE	1st Term	2nd Term
CEE 412	Design of Concrete Structures	3	
CEE 434 <sup>7</sup>	Water and Wastewater Engineering	4	
CMM 11X	Communications	1	
----	Philosophy/Religion Elective	3	
----	Civil Engineering Elective <sup>3,4</sup>	6	3
CEE 400	Seminar	0	0
CEE 450	Civil Engineering Design		3
HST 343	History of Civil Engineering		3
----	Social Science Elective		3
----	Technical Elective <sup>2</sup>		3
Total Hours		17	15

Total Credit Hours: 138

<sup>1</sup>All engineering, mathematics and science courses must be taken for grading option 1.

<sup>2</sup>Selected from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.

<sup>3</sup>Select from list approved by the Department of Civil and Environmental Engineering and Engineering Mechanics.

<sup>4</sup>May be used to concentrate studies in the areas of construction, environmental, structures, soils, transportation, and water resources engineering.

<sup>5</sup>3 credit hours lecture; 1 credit hour lab.

<sup>6</sup>2 credit hours lecture; 1 credit hour lab