

**CIVIL AND ENVIRONMENTAL TECHNOLOGY (2235)**

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**First Semester**

Course #	Course Name	Credit	GER	UD credit	Term	Grade	Credit Received	Comment
ENGS 101	Intro to Engineering	2		0				
SOET 116	Intro to Computer Aided Dr+D	2		0				
MATH	Math Elective <sup>4</sup>	4	1	0				
PHYS 121	College Physics I Lab	3	2	0				
PHYS 125	College Physics I Lab	1	2	0				
ENGL 102	Oral and Written Expression	3	10	0				
		15						

**Second Semester**

CONS 172	Technical Statics	3		0				
ENGS 102	Programming for Engineers	2		0				
SOET 250	Intro 3D CADD and BIM	2		0				
MATH	Math Elective <sup>4</sup>	4	1	0				
PHYS 122	College Physics II	3	2	0				
PHYS 126	College Physics II Lab	1	2	0				
		15						

**Third Semester**

CONS 101	Elementary Surveying	4		0				
CONS 272	Strength of Materials for Tech	3		0				
CONS 280	Civil Engineering Materials	3		0				
MATH	Math Elective <sup>4</sup>	4	1					
CHEM 150	College Chemistry I and Lab	4	2	0				
		18						

**Fourth Semester**

CONS 336	Structural Analysis	3		3				
CONS 322	Hydraulics	4		4				
CONS 285	Engineering Geology	4		0				
CONS 220	Engineering Materials	3		0				
MATH	Math Elective <sup>4</sup>	3	1					
		17						

**Fifth Semester**

CONS 203	Advanced Surveying	4		0				
CONS 386	Water Quality	4		4				
CONS 385	Hydrology and Hydrogeology	4		4				
	Program Elective <sup>1</sup>	3						
		15						

**Sixth Semester**

CONS 387	Water and Wastewater Treatment	3		3				
CONS 274	Construction Management	3		0				
SOET 370	Engineering Project Analysis	3		3				
	GER <sup>2</sup>	3						
	Program Elective <sup>1</sup>	3						
		15						

## Seventh Semester

Course #	Course Name	Credit	GER	UD credit	Term	Grade	Credit Received	Comment
CONS 314	Soil Mechanics <sup>3</sup>	4		4				
SOET 377	Engineering Technology Issues	1		1				
	GER <sup>2</sup>	3						
	GER <sup>2</sup>	3						
	Program Elective <sup>1</sup>	3						
	Program Elective <sup>1</sup>	3						
		17						

## Eighth Semester

CONS 477	Capstone Project	3		3				
SOET 348	Engineering Safety	1		1				
	GER <sup>2</sup>	3						
	Program Elective <sup>1</sup>	3						
	Program Elective <sup>1</sup>	3						
		13						

<b>Total Upper Division (UD) Credits (45 required)</b>								
<b>Total Program Credits (minimum 125 required)</b>								

Graduation Requirements: Total Semester Credit Hours - 125

Minimum G.P.A. 2.0

Student \_\_\_\_\_ Certified for Graduation: Yes No  
 ID# \_\_\_\_\_ Certified by: \_\_\_\_\_  
 Class of \_\_\_\_\_ G.P.A. 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_ 4 \_\_\_\_\_ Total G.P.A. \_\_\_\_\_

<sup>1</sup> Program Elective: Selected under advisement and approved by the advisor or program coordinator. A list of program electives for the Civil and Environmental Technology Program is included below. One program elective must be Structural Steel Design, Reinforced Concrete Design, or Structural Engineering Design.

<sup>2</sup> GER = General Education Elective. Students must accomplish 7 GER categories: GER 3, 4, 5, 6, 7, 8, or 9.

<sup>3</sup> Writing Intensive Course

<sup>4</sup> MATH = students must complete 4 math courses. At a minimum, students must enter the program at MATH 123. If entering at MATH 123, they will complete the following sequence: MATH 123, MATH 161, MATH 162, MATH 364. If entering at MATH 161 they will complete the following: MATH 161, MATH 162, MATH 364, and a 4th Math elective of their choice with approval of their advisor or the program coordinator.

## Approved Civil and Environmental Technology Program Electives

### Structural Program Electives

Course #	Course Name	Credit
CONS 226	Bridge Building	1
CONS 304	Reinforced Concrete Design	4
CONS 324	Structural Steel Design	3
CONS 338	Advanced Mechanics of Materials	3
CONS 366	Structural Steel Detailing	3
CONS 368	Building Electrical and Mechanical Systems	3
CONS 370	Timber Design	3
CONS 372	Highways and Transportation	3
CONS 375	Structural Engineering Design	3
CONS 472	Advanced Highway Design	3

### Environmental Program Electives

Course #	Course Name	Credit
CONS 388	Environmental Law	2
CONS 485	Solid Waste Management	3
CONS 486	Soil and Groundwater Remediation	3
CONS 487	Water Resources Management	3
BIOL 209	Microbiology	4
MATH141	Statistics	3
CHEM 155	College Chemistry II + Lab	4

### Other Program Electives

Course #	Course Name	Credit
CONS 222	Construction Estimating	2
CONS 350	Introduction to GIS	3
CONS 432	Civil Drafting and Design	3
SOET 250	Intro to 3D CAD and BIM	2
SOET 391	Special Topics: Advanced Revit	3
MECH 3XX	Mech. Tech. approved course	3
MECH 4XX	Mech. Tech. approved course	3
AREA 3XX	ARES approved course	3
AREA 4XX	ARES approved course	3
ELEC 3XX	Elec. Tech. approved course	3
ELEC 4XX	Elec. Tech. approved course	3