

# ENVIRONMENTAL ENGINEERING CURRICULUM

## FRESHMAN YEAR

First Semester		Second Semester	
MATH 1131Q – Calculus I (4)		MATH 1132Q – Calculus II (4)	
CHEM 1127Q – General Chemistry (4)		CHEM 1128Q – General Chemistry (4)	
ENGR 1000 – Orientation to Engineering (1)		ENGR 1166 – Foundations of Engineering (3)	
CSE 1100C – Introduction to Computing (2)		General Education CA: 1, 2 or 4* (3)	
ENGL 1010* or 1011* – Expository Writing (4)		General Education CA: 1, 2 or 4* (3)	
General Education CA: 1, 2 or 4* (3)		<i>* These courses may be taken either semester</i>	
Semester credits: 18	Cumulative credits: 18	Semester credits: 17	Cumulative credits: 35

Summer Session I	Summer Session II
MATH 2110Q – Multivariable Calculus (4)	MATH 2410Q – Elementary Differential Equations (3)
General Ed CA: 1, 2 or 4** (3)	PHIL 1104 – Philosophy & Ethics (3)

**TOTAL = 7**

**TOTAL = 6**

## SOPHOMORE YEAR

First Semester		Second Semester	
CHEG 2111 – Chemical Engineering Thermodynamics(3)		CEWP 4297 COOPERATIVE WORK EXPERIENCE (0)	
PHYS 1501Q – Physics for Engineers I (4)		Free Elective (3) (Take as an on-line course)	
CE 2110 – Applied Mechanics I (3)			
ENVE 2310 – Environmental Engineering Fundamentals (3)			
NRME 3105 – Wetlands Biology & Conservation(even yrs)(3) OR NRME 3155 – Water Quality Management (odd yrs) (3)			
Semester credits: 16	Cumulative credits: 64	Semester credits: 3	Cumulative credits: 67

## JUNIOR YEAR

### GEN Ed. Course – January Intersession

First Semester		Second Semester	
CE 3120 – Fluid Mechanics (3) OR CHEG 3123 – Transfer Operations I (3)		ENVE 3220 – Water Quality Engineering (3)	
ENVE 2330 – Decision Analysis in Civil & Environmental Engineering (3)		ENVE 3200 – Environmental Engineering Laboratory (3)	
NRME 3105 – Wetlands Biology & Conservation(even yrs)(3) OR NRME 3155 – Water Quality Management (odd yrs) (3)		ENVE 3310 – Environmental Modeling (3)	
CHEG 3173 – Introduction to Biochemical Engineering (3)		ENVE 2320 – The Environmental Debate (1)	
Free Elective** (3)		Professional Elective** (3)	
<i>** These courses may be taken either semester</i>		PHYS 1502Q – Physics for Engineers II (4)	
Semester credits: 15	Cumulative credits: 82	Semester credits: 17	Cumulative credits: 99

## SENIOR YEAR

First Semester		Second Semester	
ENVE 4910W – Environmental Engineering Design I (2)		ENVE 4920W – Environmental Engineering Design II (2)	
ENVE 3210 – Environmental Engineering Chemistry (3)		ENVE 3230 – Introduction to Air Pollution (3)	
NRME 4135C – Introduction to Ground-Water Hydrology (4) OR GEOL 3710 – Engineering and Environmental Geology (3)		ENVE 4996 – Thesis (3)	
ENVE 4810 – Engineering Hydrology (Fall) (3) OR ENVE 4820 – Hydraulic Engineering (Spring) (3)		Professional Electives (6)	
General Ed CA: 1, 2 or 4** (3)		ENVE 2320 – The Environmental Debate (1)	
<i>** This course may be taken either semester</i>			
Semester credits: 14/15	Cumulative credits: 113/114	Semester credits: 15	Cumulative credits: 128/129