

ENVIRONMENTAL ENGINEERING

Fall Quarter	Units	Winter Quarter	Units	Spring Quarter	Units
		FIRST YEAR			
CEE 010	1	CHEM 001B & CHEM 01LB	5	CHEM 001C & CHEM 01LC	5
Intro to Chem. & Envir. Engineering		General Chemistry & Lab		General Chemistry & Lab	
CHEM 001A & CHEM 01LA	5	ENGL 001B	4	ENGL 001C or Alternate*	4
General Chemistry & Lab		Intermediate Composition		Applied Intermediate Composition	
ENGL 001A	4	MATH 009B	4	MATH 009C	4
Beginning Composition		First Year Calculus		First Year Calculus	
MATH 009A	4	PHYS 040A	5	PHYS 040B	5
First Year Calculus		Physics (Mechanics)		Physics (Heat/Waves/Sound)	
		SECOND YEAR			
CHEM 008A & CHEM 08LA	4	CHE 100	4	CS 010	4
Organic Chemistry		Engineering Thermodynamics		C++ Programming	
ENVE 171	4	CHEM 008B & CHEM 08LB	4	ENVE/CHE 130	4
Fundamentals of Environmental Engr.		Organic Chemistry		Advanced Engr. Thermodynamics	
MATH 046	4	MATH 010A	4	MATH 010B	4
Differential Equations		Multivariable Calculus		Multivariable Calculus	
PHYS 040C	5	Breadth	4	ME 010	4
Physics (Electricity/Magnetism)		Humanities/Social Sciences		Statics	
		THIRD YEAR			
BIOL 005A & BIOL 05LA	5	CEE 158	3	ENVE 146	4
Cell & Molecular Biology & Lab		Professional Development for Engr		Water Quality Systems Design	
CHE 114	4	CHE 120	4	ENVE/CHE 160A	3
Applied Fluid Mechanics		Mass Transfer		Chem. & Envir. Engineering Lab	
ENGR 118	5	ENVE 133	4	Technical Elective**	4
Engineering Modeling & Analysis		Fund. of Air Pollution Engineering			
Breadth	4	ENVE 142	4	Breadth	4
Humanities/Social Sciences		Water Quality Engineering		Humanities/Social Sciences	
		FOURTH YEAR			
ENSC/SWSC 100	4	ENVE 135	4	ENVE 175B	4
Intro to Soil Science		Fate & Trans. of Envir. Contaminants		Senior Design Project	
ENVE 120	4	ENVE 160C	3	Technical Elective**	4
Unit Operations and Processes		Environmental Engineering Lab			
ENVE 160B	3	ENVE 175A	4	Breadth	4
Environmental Engineering Lab		Senior Design Project		Humanities/Social Sciences	
Technical Elective**	4	Breadth	4	Breadth	4
		Humanities/Social Sciences		Humanities/Social Sciences	

To earn a B.S., you must complete all College and University requirements. For a full list of requirements, go to www.catalog.ucr.edu.

Catalog Year: 2018

ENGLISH COMPOSITION*

A C or better is required in all English

Composition courses to satisfy the graduation requirement. Please consult with your

Academic Advisor for ENGL 1C alternatives.

BREADTH REQUIREMENTS

For an approved list of Breadth courses, go to http://student.engr.ucr.edu/policies/requirements/breadth.html.

Humanities: (3 courses)

- A. World History:
- B. Fine Arts, Lit., Phil., Rlst:
- C. Human Persp. on Science:

Social Sciences: (3 courses)

- A. Econ. or Posc.:
- B. Anth., Psyc, or Soc.:
- C. General Social Science:
- Ethnicity: (1 course)

Upper Division: (2 courses)

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- ______ 2.

TECHNICAL ELECTIVES **

Please note that Technical Electives may be offered throughout the Academic Year. Consult with your Faculty Mentor about potential offerings. See approved technical electives on back.

Course Plan is subject to change.

Environmental Engineering-Technical Electives

You must select one option below and complete 3 courses (at least 12 units) from that option. Units are listed in (). Select from the list below:

Air Pollution Control Technology Option:

*CHE 116 Heat Transfer (4)

*ENVE 134 Technology of Air Pollution Control (4)

*Choose one from:

CEE 125 Analytical Methods for Chemical and Environmental Engineers (4)

CEE 132 Green Engineering (4)

CHE 102** Catalytic Reaction Engineering (4)

ENSC/ENTX/CHEM 135 Chemistry of the Clean and Polluted Atmosphere (4)

ENVE 138 Combustion Engineering (4)
ENVE/ENSC 144 Solid Waste Management (4)
ENVE 145 Hazardous Waste Management (4)

Water Pollution Control Technology Option:

*Choose one from:

CHE 124** Biochemical Engineering Principles (4)

ENVE 121 Biological Unit Processes (4)

*Choose one from:

CEE 125 Analytical Methods for Chemical and Environmental Engineers (4)

CHE 116 Heat Transfer (4)

ENSC 136 Chemistry of Natural Waters (4)

ENSC 163 Hydrology (4)

*Choose one from:

CEE 132 Green Engineering (4)

ENVE/ENSC 144 Solid Waste Management (4)
ENVE 145 Hazardous Waste Management (4)

^{*}Required for the option selected

^{**}Course requires prerequisites not accounted for in curriculum. Please check with the undergraduate faculty advisor about the ability to take this course.