

ENVIRONMENTAL ENGINEERING

Fall Quarter	Units	Winter Quarter	Units	Spring Quarter	Ur
		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 009P	4
Organic Chemistry		Engineering Thermodynamics		Intro to 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	CHE 120	4	ENVE 146	4
Cell & Molecular Biology & Lab		Mass Transfer		Water Quality Systems Design	
CHE 114	4	ENVE 133	4	ENVE/CHE 160A	3
Applied Fluid Mechanics		Fund. of Air Pollution Engineering		Chem. & Envir. Engineering Lab	
ENGR 118	5	ENVE 142	4	ENVE 134	4
Engineering Modeling & Analysis		Water Quality Engineering		Technology of Air Pollution Control	
Breadth	4	Breadth	4	ENVE 140	4
Humanities/Social Sciences		Humanities/Social Sciences		Aquatic Chemistry	
		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	ENVE 121	4
Unit Operations and Processes		Environmental Engineering Lab		Biological Unit Processes	
ENVE 160B	3	ENVE 175A	4	Technical Elective**	4
Environmental Engineering Lab		Senior Design Project			
CEE 158	3	Breadth	4	Breadth	4
Professional Development for Engr		Humanities/Social Sciences		Humanities/Social Sciences	
Breadth	4	,		,	
Humanities/Social Sciences	•				

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

Course Plan is subject to change.

Catalog Year: 2022

Total Units: 197

electives on back.

Maximum units: 236

Environmental Engineering-Technical Electives

You must complete 4 units of Technical Elective coursework. Select from the list below:

Course Title (Units)

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

CEE 132 Green Engineering (4)

CHE 102* Catalytic Reaction Engineering (4)

CHE 116 Heat Transfer (4)

CHE 124* Biochemical Engineering Principles

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

ENVE 145 Hazardous Waste Management (4)

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

ENSC 136* Chemistry of Natural Waters (4)

ENSC 163* Hydrology (4)

HNPG 199H* Senior Honors Research (4)

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