

ENVIRONMENTAL ENGINEERING

Catalog Year: 2024

Fall Quarter	Units	Winter Quarter	Units	Spring Quarter	Units	
		FIRST YEAR				To earn a B.S., you must complete all College and University requirements. For a full list of
CEE 010	1	CHEM 001B & CHEM 01LB	5	CHEM 001C & CHEM 01LC	5	requirements, go to catalog.ucr.edu.
Intro to Chem. & Envir. Engineering		General Chemistry & Lab		General Chemistry & Lab		requirements, go to catalog.uci.edu.
CHEM 001A & CHEM 01LA	5	ENGL 001B	4	ENGL 001C or Alternate*	4	ENGLISH COMPOSITION*
General Chemistry & Lab		Intermediate Composition		Applied Intermediate Composition		A C or better is required in all English
ENGL 001A	4	MATH 009B	4	MATH 009C	4	Composition courses to satisfy the graduation
Beginning Composition		First Year Calculus		First Year Calculus		requirement. Please consult with your
MATH 009A	4	PHYS 040A	5	PHYS 040B	5	Academic Advisor for ENGL 1C alternatives.
First Year Calculus		Physics (Mechanics)		Physics (Heat/Waves/Sound)		
SECOND YEAR						BREADTH REQUIREMENTS
CHEM 008A & CHEM 08LA	4	CHE 100	4	CS 009A	4	For an approved list of Breadth courses, go to
Organic Chemistry		Engineering Thermodynamics		Intro to Programming		http://student.engr.ucr.edu/policies/requirements/
ENVE 171	4	CHEM 008B & CHEM 08LB	4	ENVE/CHE 130	4	breadth.html.
Fundamentals of Environmental Engr.		Organic Chemistry		Advanced Engr. Thermodynamics		
MATH 046	4	MATH 010A	4	MATH 010B	4	Humanities: (3 courses)
Differential Equations		Multivariable Calculus		Multivariable Calculus		A. World History:
PHYS 040C	5	Breadth	4	ME 010	4	B. Fine Arts, Lit., Phil., Rlst:
Physics (Electricity/Magnetism)		Humanities/Social Sciences		Statics		C. Human Persp. on Science:
		THIRD YEAR				Social Sciences: (3 courses)
BIOL 005A & BIOL 05LA	5	CHE 120	4	ENVE 146	4	A. Econ. or Posc.:
Cell & Molecular Biology & Lab		Mass Transfer		Water Quality Systems Design		B. Anth., Psyc, or Soc.:
CHE 114	4	ENVE 133	4	ENVE/CHE 160A	3	C. General Social Science:
Applied Fluid Mechanics		Fund. of Air Pollution Engineering		Chem. & Envir. Engineering Lab		Ethnicity: (1 course)
ENGR 118	4	ENVE 142	4	ENVE 134	4	1
Engineering Modeling & Analysis		Water Quality Engineering		Technology of Air Pollution Control		Upper Division: (2 courses)
Breadth	4	Breadth	4	ENVE 140	4	1
Humanities/Social Sciences		Humanities/Social Sciences		Aquatic Chemistry		2
FOURTH YEAR						TECHNICAL ELECTIVES **
ENSC/SWSC 100	4	ENVE 135	4	ENVE 175B	4	Please note that Technical Electives may be
Intro to Soil Science		Fate & Trans. of Envir. Contaminants		Senior Design Project		offered throughout the Academic Year.
ENVE 120	4	ENVE 160C	3	ENVE 121	4	Consult with your Faculty Mentor about
Unit Operations and Processes		Environmental Engineering Lab		Biological Unit Processes		potential offerings. See approved technical
ENVE 160B	3	ENVE 175A	4	Technical Elective**	4	electives on back.
Environmental Engineering Lab		Senior Design Project				
CEE 158	3	Breadth	4	Breadth	4	Course Plan is subject to change.
Professional Development for Engr		Humanities/Social Sciences		Humanities/Social Sciences		
Breadth	4					
Humanities/Social Sciences						

Total Units: 196

Maximum units: 235

Environmental Engineering-Technical Electives

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

Course	Course Title (Units)
CEE 125	Analytical Methods for Chemical and Environmental Engineers (4)
CEE 132	Green Engineering (4)
CEE 136	Aerosol Technology (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.