

Suggested Course Plan for a UC Riverside Major in

ENVIRONMENTAL ENGINEERING

Catalog Year: 2016

Fall Quarter	Units	Winter Quarter	Units	Spring Quarter	Units	To earn a B.S., you must complete all College
	and University requirements. For a full list of					
CEE 010	2	CHEM 001B & CHEM 01LB	5	CHEM 001C & CHEM 01LC	5	requirements, go to www.catalog.ucr.edu.
Intro to Chem. & Envir. Engineering		General Chemistry & Lab		General Chemistry & Lab		
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 112A	4	CHE 100	4	CS 010	4	For an approved list of Breadth courses, go to
Organic Chemistry		Engineering Thermodynamics		C++ Programming		http://student.engr.ucr.edu/policies/requirements
ENVE 171	4	CHEM 112B	4	ENVE/CHE 130	4	/breadth.html.
Fundamentals of Environmental Engr.		Organic Chemistry		Advanced Engr. Thermodynamics		
MATH 010A	4	MATH 010B	4	MATH 046	4	Humanities: (3 courses)
Multivariable Calculus		Multivariable Calculus		Differential Equations		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	CEE 158	3	ENVE 146	4	A. Econ. or Posc.:
Cell & Molecular Biology & Lab		Professional Development for Engr		Water Quality Systems Design		B. Anth., Psyc, or Soc.:
CHE 114	4	CHE 120	4	ENVE/CHE 160A	3	C. General Social Science:
Applied Fluid Mechanics		Mass Transfer		Chem. & Envir. Engineering Lab		Ethnicity: (1 course)
ENGR 118	5	ENVE 133	4	Technical Elective**	4	1
Engineering Modeling & Analysis		Fund. of Air Pollution Engineering				Upper Division: (2 courses)
Breadth	4	ENVE 142	4	Breadth	4	1
Humanities/Social Sciences		Water Quality Engineering		Humanities/Social Sciences		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	Technical Elective**	4	Consult with your Faculty Mentor about
Unit Operations and Processes		Environmental Engineering Lab				potential offerings. See approved technical
ENVE 160B	3	ENVE 175A	4	Breadth	4	electives on back.
Environmental Engineering Lab		Senior Design Project		Humanities/Social Sciences		
Technical Elective**	4	Breadth	4	Breadth	4	Course Plan is subject to change.
		Humanities/Social Sciences		Humanities/Social Sciences		

Total Units: 194

Maximum units: 233

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:

Heat Transfer (4)
Technology of Air Pollution Control (4)
Analytical Methods for Chemical and Environmental Engineers (4)
Green Engineering (4)
Catalytic Reaction Engineering (4)
Chemistry of the Clean and Polluted Atmosphere (4)
Combustion Engineering (4)
Solid Waste Management (4)
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)				

*Required for the option selected

ENVE 145

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

Hazardous Waste Management (4)