

Summary of Course Requirements

* (Note: Core Courses and Electives listed are for the Engineering The Future Funding Program - Students must also satisfy their University's degree requirements regarding core courses and electives, which may differ from those listed here.)

		Descriptions for Core Courses (Required)	Elective Courses (must take 3)
University of California, Irvine	CEE263 Advanced Biological Treatment Processes. Water and wastewater microbiology. Engineering principles, molecular aspects, and introduction to microorganisms of importance to public health. Topics include aerobic and anaerobic wastewater treatment and disinfection of pathogens in water, wastewaters and biosolids.	CEE265. Analysis of natural chemical processes in the aquatic environment. Modeling of physical-chemical treatment systems. Analysis of chemical processes which affect the fate of contaminants in the natural environment. Computer modeling of several systems included.	CEE262 Environmental Chemistry II CEE278 Flow in Rivers and Estuaries CEE271 Flow in Unsaturated Porous Media CEE277 Transport in Rivers and Estuaries CEE273 Computer Tools for Watershed Modeling CEE274A Transport Phenomena in Saturated Porous Media CEE274B Transport Phenomena in Unsaturated Porous Media and Fractures CEE279A Computations in Environmental Hydraulics CEE276 Surface Water Hydrology CBEMS210 Reaction Engineering CBEMS216 Field Practicum in Environmental Engineering CEE167 Ecology of Coastal Waters