

<h1>Summary of Course Requirements</h1>			<p>* (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.)</p>
<h2>Descriptions for Core Courses (Required)</h2>			<h2>Elective Courses (must take 3)</h2>
<p>University of Southern California</p>	<p>CEE 523 Process Kinetics and Dynamics in Environmental Engineering Environmental reactor design, coagulation, flocculation, sedimentation, filtration, adsorption, solid waste management (drying, centrifugation, incineration), membrane processes, advanced water treatment; mathematical modeling of physical processes</p>	<p>CEE 553 Chemical and Biological Processes in Environmental Engineering Chemistry of softening, coagulation, disinfection, oxidation, corrosion control, dry and wet combustion and ion exchange, aerobic and anaerobic processes and the ecology of liquid and solid waste treatment.</p>	<p>CE 484 Water Treatment Design CE 485 Wastewater Treatment Design CE 503 Microbiology for Environmental Engineers CE 510 Groundwater Management CE 516 Geohydrology CE 522 GW Hydrological Modeling CE 563 Chemistry and Biology of Natural Waters ENE 510 Water Quality Management and Sustainability Practices ENE 526 Particulate Air Pollutants: properties, behavior, measurement ENE 535 Air Pollution Management: exposure, health effect and risk ENE 580 Appl Env Biotechnology</p>