

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)
<p>Rutgers University</p>	<p>BIOLOGICAL TREATMENT 16:375:531 Biological Waste Treatment - Advanced topics in biological waste treatment, particularly activated sludge, focusing on microbial ecosystems.</p>	<p>PHYSIOCHEMICAL TREATMENT 16:375:504 Water & Wastewater Treatment - Chemical, physical, and biological factors affecting development of water supplies; water quality; municipal and industrial water treatment processes consisting of removal of particulate matter, softening, disinfection, corrosion control, iron and manganese removal, aeration, de-aeration, and taste and odor removal.</p> <p>11:117:462 Design of Solid Waste Treatment Systems 16:375:530 Hazardous Waste Management 16:375:523 Environmental Fate and Transport 16:375:510 Environmental Microbiology 16:375:517 Applications of Aquatic Chemistry 16:375:534 Environmental Sustainability 16:375:522 Environmental Organic Chemistry 16:375:524 Source Control of Atmospheric Pollution 16:375:541 Environmental Models 16:375:555 Soil Physics 16:375:563 Geomicrobiology 16:375:573 Soil Ecology 16:375:536 Air Sampling and Analysis Techniques 16:375:540 Atmospheric Chemistry 16:375:527 Physiochemical Process Dynamics in Environmental Systems 16:375:529 Biodegradation and Bioremediation 16:375:509 Groundwater Pollution</p>