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)
Clemson	**EE&S 803: Physicochemical Operations in Water and Wastewater Treatment Systems:** Principles of physicochemical operations used in water and wastewater treatment, including coagulation/flocculation, precipitation, sedimentation, conventional and membrane filtration, gas transfer, adsorption, ion exchange, disinfection and oxidation.	**EE&S 804: Biochemical Operations in Wastewater Treatment Systems:** Principles of biochemical operations used in wastewater treatment; includes modeling of ideal biochemical reactors and design criteria for aerated lagoons, activated sludge, trickling filters, rotating biological contactors, nitrification, denitrification and digestion.	**EE&S 805 Environmental Unit Operations Laboratory** **EE&S 806 Process & Facility Design for Env. Control Syst.** **EE&S 832 Air Pollution Meteorology** **EE&S 833 Air Pollution Control Systems** **EE&S 837 Biodegradation and Bioremediation** **EE&S 844 Environmental Engineering Chemistry Laboratory** **EE&S 855 Surface and Subsurface Transport** **EE&S 856 Pollution of the Aquatic Environment** **EE&S 880 Environmental Risk Assessment** **EE&S 630 Air Pollution Engineering** **EE&S 684 Municipal Solid Waste Management**