Summary of Course Requirements Descriptions for Core Courses (Required)			 * (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.) Elective Courses (must take 3)
Northeastern University	Examines microbiology with emphasis on biological processes in environmental engineering applications. Topics include cell structure, morphology, cell nutrition and growth, energy transfer and utilization, aerobic and anaerobic microbial metabolism, biological wastewater process theory and modeling, biological nutrients removal	processes typically include aeration, screening, coagulation and flocculation, sedimentation, filtration, ion exchange, activated carbon adsorption, and disinfection. Covers wastewater treatment with emphasis on secondary municipal treatment	CIV G250 Environmental Chemistry CIV G253 Advanced Municipal and Industrial Wastewater Treatment Processes CIV G261 Surface Water Hydraulics and Quality Modeling CIV G262 Watershed Management. CIV G263 Groundwater Hydraulics and Quality Modeling CIV G270 Environmental Protection and Management CIV G271 Solid and Hazardous Waste Management CIV G272 Air Quality Management CIV G321 Geoenvironmental Engineering CIV G322 Engineering Geology IEM G200 Engineering Probability and Statistics CIV G260 Hydrology