

<h1 style="text-align: center;">Summary of Course Requirements</h1>			<p style="text-align: center;">* (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 style="text-align: center;">Descriptions for Core Courses (Required)</h2>			<h2 style="text-align: center;">Elective Courses (must take 3)</h2>
<p><b>Manhattan College</b></p>	<p><b>ENVG 506 Water and Wastewater Treatment Processes</b> Study of the fundamental principles used to treat both drinking water and wastewater. Drinking water treatment principles include Stokes law for particle settling, theory of coagulation and flocculation, porous media filtration, and disinfection. Principles for wastewater treatment include reactor analyses, growth of complex organics, and hindered and compression settling.</p>	<p><b>ENVG 718 Biological Treatment of Wastewater</b> Application of microbiology to treatment of organic wastes including toxic chemicals. Treatment models, aerobic, facultative, and anaerobic processes, cell synthesis and respiration, oxygen and nutrient requirements. Biological nutrient removal, attached growth systems, bioremediation and process design.</p>	<p>ENVG 704 Advanced Water Quality Modeling            ENVG 706 Aquatic and Sediment Chemistry            ENVG 702 Air Quality Models            ENVG 736 Advanced Unit Operations            ENVG 505 Surface Water Quality Modeling            ENVG 535 Surface Water Quality Lab            ENVG 517 Env. Law            ENVG 507 Geohydrology            ENVG 739 Experimental Analysis in Env. Engr.            ENVG 709 Geochemistry            ENVG 708 Env. Biotech.            ENVG 712 Advanced Geohydrology            ENVG 721 Reg. &amp; Engr aspects of Water/Residual Reuse            ENVG 703 Env Fate &amp; Effects of Toxic Contam.            ENVG 705 Env. Chem</p>