

<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>Colorado State University</p>	<p>CE 439 Environmental Engineering Chemical Concepts Application of chemical and physical principles to analysis of environmental engineering processes and problems, with a focus on water treatment -- mass balance, reaction rates, reactor design, gas transfer, solid/liquid phase reactions, particle processes, colloid transport.</p>	<p>CE 540 Fundamentals of Environmental Biotechnology: basic environmental microbiology and microbial ecology; detection, enumeration and characterization of microorganisms; microbial reactions -metabolism, energetics and kinetics; environmental influences on microbial activity; applications of molecular biology, bioreactor design (2 credits)</p> <p>CE 536 Wastewater Treatment: Application of environmental biotechnology to wastewater treatment engineering and design (1 credit)</p>	<p>CE 440 Nonpoint Source Pollution CH524 Bioremediation CE 538 Aqueous Chemistry CE 539 Water and Wastewater Analysis CE 541 Treatment of Water Contaminants II CE 542 Water Quality Modeling CE 545 Management and Monitoring of Water Quality CE 547 Statistics for Environmental Monitoring CE 520 Physical Hydrology CE 522 Engineering Hydrology CE 531 Groundwater Hydrology CE 633 Groundwater Contaminant Transport Modeling CE 658 Remediation Systems-Subsurface Contamination CE 573 Urban Stormwater Management CE 578 Infrastructure Engineering and Management</p>