

* (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.)

Summary of Course Requirements

Descriptions for Core Courses (Required)			Elective Courses (must take 3)
<p>Utah State University</p>	<p>CEE 6640 Physical and Chemical Environmental Process Engineering - Principles of physical and chemical environmental engineering processes, including sedimentation, filtration, gas transfer, aeration, absorption, ion exchange, membrane processes, coagulation, flocculation, precipitation, oxidation, reduction, and disinfection. Process modeling and analysis applications in treatment of water, wastewater, industrial wastes, vapor treatment, and soil remediation.</p>	<p>CEE 6650 Biological Processes in Environmental Engineering- Theory and design of biological processes used in environmental engineering. Stoichiometric, energetic, and kinetic analysis of biological treatment processes; modeling and design of suspended growth and fixed film processes for treatment of municipal, industrial, and hazardous wastes; nutrient removal; and bioremediation.</p>	<p>CEE 6670 Environmental Process Laboratory CEE 6610 Environmental Quality Analysis CEE 6660 Environmental Data Anal. And Experimentation CEE 6630 Process Dynamics in Env. Engr. Systems CEE 6600 Environmental Chemistry of Inorganic Contam. CEE 6680 Soil-based Waste Mgmt. CEE 6690 Natural Systems Engineering CEE 6719 Environmental Engineering Microbial Ecology CEE 6730 Analysis & Fate of Env. Contaminants CEE 6740 Environmental Quality Modeling CEE 6830 Mgmt. and Utilization of Biological Solids CEE 6850 Atmospheric and Air Pollution Chemistry CEE 5880 Remediation Engineering CEE 5670 Hazardous Chemicals Handling and Safety CEE 5620 Aquatic Chemistry CEE 5750 Air Quality Measurements CEE 5810 Biochemical Engineering CEE 5860 Air Quality Mgmt. CEE 5870 Hazardous Waste Incineration CEE 5790 Accident and Emergency Management CEE 6480 Groundwater Contam. Model, Monit., Mgmt. CEE 7520 Math. Methods for Civil & Env. Engr.</p>