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)
Michigan Techno-logical University	**CE 5502 Biological Treatment** Application of kinetics, reactor theory, and microiology to modeling and design of aerobic and anaerobic wastewater treatment systems. Topics include activated sludge process models and application of thes models to process design and operation.	**CE 5503 Physical - Chemical Treatment Processes** Advanced theory, fundamentals, and application fo physical and chemical processes employed in design and operation of drinking water systems.	**CE 5501 Environmental Process Engineering** **CE 5504 Surface Water Quality Modeling** **CE 5511 Air Quality and the Built Environment** **CE 5610 Civil and Environmental Engr. Syst. Analysis** **CE 5665 Sediment Transport** **CE 5243 Probabilistic Analysis & Reliability in Cvl. Engr.** **CE 5999 Masters Research** **CE 4506 Appl. of Env. Regs. & Pol. Prev. to Engr. Practice** **CE 4507 Intro to GIS for Nat. Resource Mgmt** **CE 4509 Envr. Process. & Simulation** **CE 5661 GIS Applications** **CE 5510 Practical Appl. & Anal. Techniques for Env. Meas.** **CE 4338 Computer Based Proj. Mgmt.** **CE 4508 Water & WW Treatment**