Department: Environmental Engineering Program: MS in Environmental Engineering

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Knowledge-based skills Problem-solving skills	 Abilities in designing, optimizing, predicting or better managing air, land and water resources systems using in-depth knowledge, advanced technologies, discovery and innovation for professional practice in environmental engineering Ability to integrate environmental regulations and policies into advanced engineering applications and decision-making Analytical skills to comprehend, define and analyze complex environmental problems and propose engineering solutions incorporating large scale system level perspectives; Creativity to identify alternate solutions with broader impacts and envisioning possible unanticipated consequences of the solutions. Ability to apply advanced technologies, in-depth knowledge, methods, data science engineering, and best project management practice in solving environmental engineering problems particularly related to resiliency, sustainability, and global climate change. 	 EVEN 6308 (R/M) EVEN 6319 (R/M) EVEN 6325 (R/M) EVEN 6309 (R/M) EVEN 6316 (R/M) EVEN 6329 (R/M) EVEN 6329 (R/M) EVEN 6354 (R/M) EVEN 6318 (R/M) EVEN 6102 (I) EVEN 5306 (M) M.S. research project /thesis (M) EVEN 6308 (R) EVEN 6319 (R) EVEN 6325 (R) EVEN 6316 (R) EVEN 6329 (R) EVEN 6329 (R) EVEN 6354 (R) EVEN 6354 (R) EVEN 6318 (R) EVEN 6329 (R) EVEN 6318 (R) EVEN 6318 (R) EVEN 6318 (R) EVEN 6318 (R) EVEN 5306 (M) M.S. research project /thesis (M)

Skill Set	Professional Application	Delivery of Skill Set Courses, extracurricular activities, etc. in which the skill set is introduced (I), reinforced (R), or mastered (M)
Professional skills	 Strong communication skills Effective project managements and successful engagement to other engineers, stakeholders, community leaders and citizens with diverse backgrounds Leadership and team building skills 	 EVEN 6329 (R) M.S. research project/thesis (R) Presentations in conferences or professional meetings (R) Conference proceedings and journal publications (R)