

Department: Civil and Architectural Engineering
Program: Civil Engineering – MS Program

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)
Problem Solving Research Skills	Exercise sound reasoning to analyze issues; make decisions; overcome problems, obtain, interpret, and use knowledge, facts, and data in this process; and may demonstrate originality and inventiveness.	CEEN 5342 (Adv. Geo. I) CEEN 5321 (Str. Dyn.) CEEN 5350 (Trans. I) CEEN 5335 (Pre- Conc.) Department Exit Exam Thesis / Project Defenses
Design of Complex Systems	Accepting responsibility, identifying problems, setting goals, work efficiently with technology and people, being methodical, and having knowledge of building codes. Being up to date in the profession. Having knowledge of best practices in engineering, time and deadline management.	CEEN 5320 (Foundations I) CEEN 5361 (Adv. Steel)
Oral/Written Communications	Articulate thoughts and ideas clearly and effectively in written and oral forms to persons inside and outside of the organization. Has public speaking skills; is able to express ideas to others; and can write/edit memos, letters, and complex technical reports clearly and effectively.	CEEN 5321 (Str. Dyn.) CEEN 5350 (Trans. I) CEEN 5361 (Adv. Steel) Thesis / Project Defenses