

Department: Civil and Architectural Engineering
Program: Civil Engineering BS 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)
Critical Thinking & Problem Solving Skills	ABET outcomes 1 and 2. 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 4289: Senior Design Project II (M) CEEN 3392: Hydraulics & Fluid Mechanics (M) CEEN 3303: Structural Analysis (M) CEEN 3304: Reinforced Concrete Design (R) CEEN 3311: Strength of Materials (R) CEEN 4316: Structural Steel Design (R)
Professionalism/ Work Ethics	ABET outcomes 4. Demonstrate personal accountability and effective work habits e.g., punctuality, working productively with others, and time workload management, and understand the impact of non-verbal communication on professional image. The individual demonstrates integrity and ethical behavior, acts responsibly with the interests of the larger community in mind, and is able to learn from his/her mistakes.	CEEN 4289: Senior Design Project II (M) CEEN 3365: Environmental Engineering (R) CEEN 3342 Geotechnical Engineering (M) CEEN 4289 : Senior Project II (M) CEEN 4316: Structural Steel Design (M) CEEN 4359: Transportation Engineering (M)
Oral/Written Communications	ABET outcome 3. 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 4316: Structural Steel Design (M) CEEN 4326: Construction Engineering (M)

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Teamwork and Leadership/	ABET outcome 5. Leverage the strengths of others to achieve common goals, and use interpersonal skills to coach and develop others. The individual is able to assess and manage his/her emotions and those of others; use empathetic skills and motivate; and organize, prioritize, and delegate work.	CEEN 4289: Senior Design Project II (M) CEEN 4316: Structural Steel Design (M) CEEN 4326: Construction Engineering (M) ASCE Student Chapter (M)