

Department: Civil and Architectural Engineering
Program: Architectural 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)
Core Skill: Critical Thinking & Problem-Solving Skills	(1) an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics. *Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems. *Analyzing information and evaluating results to choose the best solution and solve problems. *Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.	CEEN 2301: Mechanics I (I) CEEN 3311: Strength of Materials (R) AEEN 3303: Structural Analysis (R) AEEN 3304: Reinforced Concrete Design (R) AEEN 3335: Environmental Systems for Buildings (R) AEEN 3337: Electrical Systems in Buildings (R)
Core Skills: Oral / Written Communications	(3) an ability to communicate effectively with a range of audiences. *Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person. *Communicating effectively in writing as appropriate for the needs of the audience. *The ability to communicate information and ideas in speaking so others will understand	AEEN 3316: Architectural Design (I) AEEN 4316: Structural Steel Design (WI) (R) AEEN 4326: Construction Engineering (R)
Core Skill: Professionalism / Work ethic	(4) an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.	CEEN 3317: Engineering Economy (I) CEEN 3342: Geotechnical Engineering (I) AEEN 4326: Construction Engineering (I) AEEN 4316: Structural Steel Design (WI) (R) AEEN 4289: Senior Design Project II (WI) (R)

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)
Core Skill: Teamwork / Collaboration / Leadership	(5) an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan	

Skill Set	Professional Application	C	Delivery of Skill Set
------------------	---------------------------------	----------	------------------------------