

UNIVERSITY OF PUERTO RICO AT PONCE
DEPARTMENT OF ENGINEERING
Associate Degree in Civil Engineering Technology in
Architectural Drafting

PROGRAM EDUCATIONAL OBJECTIVES	STUDENT OUTCOMES
<p><i>Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.</i></p>	<p><i>Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.</i></p>
<ol style="list-style-type: none"> 1. Graduates will support Engineers, Architects, and other Professionals in the delivery of projects with an ethical behavior and strong commitment towards business and environmental sustainability. 2. Graduates will pursue academic and professional development relevant to their careers. 3. Graduates will exhibit appropriate interpersonal skills to effectively interact and communicate with other people, increase team's efforts, and create value. 	<ol style="list-style-type: none"> 1. Produce architectural, engineering, construction documents and presentations, utilizing graphic techniques. 2. Conduct, analyze, and interpret results of standardized field and laboratory testing on civil engineering materials. 3. Use modern surveying equipment for land surveying and setting out points in the Field. 4. Determine forces and stresses in elementary structural systems. 5. Select materials and estimate quantities for technical projects 6. Employ productivity software to solve technical problems. 7. Apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge. 8. Function effectively as a member of a technical team. 9. Apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature. 10. Understand the need for an ability to engage in self-directed continuing professional development. 11. Understand and be committed to address professional and ethical responsibilities including a respect for diversity. 12. Develop a commitment to quality, timeliness, and continuous improvement.