Architectural Technology, Architectural Engineering Technology

Mission

The Department's central mission is to prepare men and women for productive and rewarding careers in the broad design/construct/maintenance arena through implementation of sound curricula and practical co-operative education experience in viable settings.

The mission requires that the professional faculty stay current with the state-of-the-art in theory, application and industrial developments, through leadership in research and publication and through engaging the work and ideas of other educators and practitioners

The Construction Science Department has established the following program educational objectives for the associate degree in architectural technology (AAS AT) and baccalaureate degree in architectural engineering technology (BS AET.) These inclusive and general statements describe the expected accomplishments of graduates during the first few years after graduation and are consistent with the department's mission statement.

Program Educational Objectives

The primary educational objective of the BS AET is to prepare graduates for project management roles in professional design practices. Graduates should therefore be able to:

- Function effectively on professional design teams and communicate well.
- Engage and conceptually integrate architectural design theory and history in the built environment.
- Employ critical thinking and problem solving skills to analyze and perform basic design of building systems components in both commercial and residential construction.
- Demonstrate a respect for the profession that entails ethical and social responsibility as well.
- Manage project manuals and construction documents.
- Coordinate and integrate the work of the various allied professional disciplines

Program Outcomes

All graduates of the Architectural Technology and Architectural Engineering Technology Programs must demonstrate the following:

a.) An appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines.
b.) an ability to apply current knowledge and adapt to emerging applications of mathematics, science engineering and technology

c.) an ability to conduct, analyze and interpret experiments and apply experimental results to improve processes
d.) an ability to apply creativity in the design of systems, components or processes appropriate to program objectives
e.) an ability to function effectively on teams
f.) an ability to identify, analyze and solve technical problems
g.) an ability to communicate effectively
h.) an recognition of the need for, and an ability to engage in lifelong learning
i.) an ability to understand professional, ethical and social responsibilities
j.) an respect for diversity and a knowledge of contemporary professional, societal and global issues
k.) an commitment to quality, timeliness, and continuous improvement.