ARCHITECTURAL ENGINEERING TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

Program Description

This program trains students to convert preliminary designs from architects and engineers into working drawings and specifications, as well as plan, supervise and estimate preliminary costs of construction projects.

Mission Statement

Graduates of the Architectural Engineering Technology associate degree will be prepared with the technical skills necessary to enter careers with construction industry vendors, sub-contractors and design-build contractors, and architectural and engineering firms. Graduates will have gained knowledge in the building of residential and commercial facilities and will be equipped with the ability to create basic construction documents. Students will be prepared for CAD drafting and limited code analysis in an office environment.

Entrance Requirements

High school diploma or GED

Type of Program

Day or evening

Program Accreditation

The AET Associate in Applied Science program is accredited by the Engineering Technology Accreditation Commission of ABET, https://www.abet.org/.

Employment Opportunities

Architectural and engineering firms, construction companies, retail and wholesale suppliers of building materials

Transfer Options

Students planning to transfer and pursue a bachelor's degree in engineering are strongly urged to utilize Greenville Technical College's academic advising services. The transfer process for specific career pathways is very specific and leaves little opportunity for error in choosing classes. It is very important that students discuss curriculum and transfer requirements with their assigned academic advisor and with a transfer advisor at the four-year institution of their choice. It is most beneficial to the student if these discussions begin as soon as the choice to transfer to a four-year institution has been made.

Visit our web page at https://www.gvltec.edu/aet/.

Recommended Program Schedule

Listed below is the ideal grouping of courses in order by semester. This plan assumes a full-time schedule. Note, however, that many variables can affect this plan, and not every course is offered every semester.

Please see your advisor to map out your own personalized progression toward graduation.

Note: Please contact your advisor for recommended evening schedules.

The course schedule listed is designed for students who begin the program with ENG 101 English Composition I* and MAT 110 College Algebra* based on the placement test.

First Semester		Hours
EGR 130	Engr Tech Applications & Programming	3
AET 110	Architectural Graphics I	3
ENG 101	English Composition I	3
MAT 110	College Algebra	3
CET 120	Construction Materials	3
	Total Semester Hours	15
Second Semester		
AET 111	Architectural Computer Graphics I	3
AET 127	Building Information Modeling	3
AET 101	Building Systems I	3
PHY 201	Physics I	4
CET 103	Construction Surveying	2
AET 103	International Building/Residential Codes	3
	Total Semester Hours	18
Third Semester		
AET 150	Preliminary Project Estimating	2
Humanities elective (ART 107 recommended)		3
ARV 121	Design	3
MAT 111	College Trigonometry	3
	Total Semester Hours	11
Fourth Semester		
AET 122	Basic Design Theory	3
AET 105	Construction Documents	3
AET 221	Architectural Computer Graphics II	4
CET 115	Mechanical & Electrical Systems	2
EGR 194	Statics and Strength of Materials	4
	Total Semester Hours	16
Fifth Semester		
SPC 205	Public Speaking	3
AET 225	Architectural Design Senior Project (or Department Head approved CWE course)	4
AET 231	Architectural Computer Graphics III	4
AET 201	Building Systems II	3
Social Science Elective (SOC 101 or PSY 201 suggested)		3
	Total Semester Hours	17
	Total Required Credit Hours	**77**