

# Architectural Engineering Technology

## Architectural Engineering Technology Associate in Applied Science

### 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:

Acceptable placement test score(s); plus high school diploma or equivalent

### Type of Program:

Day or evening

### Employment Opportunities:

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

- 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.
- Graduates may continue their training for two or more years at four-year institutions offering Bachelor of Engineering Technology programs.
- The AET program is accredited by the Engineering Technology Accreditation Commission of ABET, ([www.abet.org](http://www.abet.org)).

### Recommended Program Schedule

(\*\*See Note: Developmental Studies, COL 103 & EGR 102)

#### First Semester - Fall

AET	105	Construction Documents	3.0
AET	110	Architectural Graphics I	3.0
AET	111	Architectural Computer Graphics I	3.0
CET	120	Construction Materials	3.0
MAT	110	College Algebra*	3.0
CPT	170	Microcomputer Applications	3.0
		or	
EGR	130	Engineering Technology Applications & Programming (preferred)	

#### Second Semester - Spring

AET	101	Building Systems I	3.0
AET	103	International Building and Residential Codes	3.0
AET	120	Architectural Graphics II	3.0
AET	127	Building Information Modeling	3.0
ENG	101	English Composition I*	3.0
PHY	201	Physics I*	4.0

#### Third Semester - Summer

AET	150	Preliminary Project Estimating	2.0
CET	103	Construction Surveying	2.0
ART	101	Art History and Appreciation*	3.0
MAT	111	College Trigonometry*	3.0

**Fourth Semester - Fall**

AET	221	Architectural Computer Graphics II	4.0
CET	115	Mechanical and Electrical Systems	2.0
EGR	194	Statics & Strength of Materials	4.0
SPC	205	Public Speaking*	3.0

**Fifth Semester - Spring**

AET	201	Building Systems II (or department head-approved elective)	3.0
AET	231	Architectural Computer Graphics III	4.0
CET	220	Concrete and Steel Design	3.0
PSY	201	General Psychology*	3.0
		or	
SOC	101	Introduction to Sociology*	

**Total Required Credit Hours:****73.0**

\*General education course

Note: Please contact your advisor for recommended evening schedules.

\*\*The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 110 (MAT 140) based on the placement test. Students who are taking prerequisite courses for MAT 110 should also take the following courses: COL 103 for students taking MAT 100 and/or EGR 102 for students taking MAT 105.

Visit <https://www.gvltec.edu/gainful-employment/> for important information about the educational debt, earnings and graduation rates of students who attended programs