

ARCHITECTURAL/CONSTRUCTION TECHNOLOGY

Architectural/Construction Technology Management Major

TECHNOLOGY & WORKFORCE DEVELOPMENT DIVISION

Program of Study

The Architectural Construction Management program offers students an introductory to renewable energy and sustainable architecture in addition to basic traditional architecture courses and construction management courses.

Students will gain an understanding of current trends in energy resources and sustainable/green architecture through site visits, guest speakers and text. The students will also gain an understanding of the construction industry through vocabulary, drafting techniques, blueprint reading, construction standards, and computer-aided design (CAD). Codes and regulations established by governing bodies are also studied.

The faculty has identified the following Learning Outcomes for all graduates:

- Use of proper building terms.
- Demonstrate knowledge of the potential alternative energy sources and in today's world and research new sources of alternative energy.
- Be able to help make a building more green by following the Leadership in Energy and Environmental Design (LEED) guidelines as promoted by Green Building Council (GBC).
- Produce a set of drawings in a professional manner by appropriate lettering, line wgt. and neatness.
- Use of CAS as a tool to produce working drawings such as plans, building sections and details.
- Research material through various support products.
- Demonstrate knowledge of construction standards and the ability to research new standards.
- To calculate quantities of a building by looking at a set of working drawings and by using a computer program arrive to an estimate.

POTENTIAL OCCUPATIONS

- Architectural Technician
- Survey Technician
- Estimator

Associate of Applied Science

TECHNICAL CONCENTRATION

		Credit Hrs.
ADT 1110	Architectural Drafting	3
ADT 1120	Construction Methods and Materials	3
ADT 1140	Construction Survey	3
ADT 2190	Building System	3
ADT 2210	Structures	3
ADT 2240	Site Planning	3
ADT 2250	Sustainable Architecture	3
ADT 2360	Estimating	3
ADT 2400	Fundamentals of Alternative Energy	3
CAD 1240	Architectural CAD	3
QCT 1020	Blueprint Reading	2
	Total Technical Credit Hours	32

GENERAL EDUCATION AND RELATED COURSES

GEN 1000	First-Year Seminar	1
CIT 1090	Computer Fundamentals	3
ENG 1050	College Composition I	3
ENG 1900	Technical Writing	3
MTH 1310	Intermediate Algebra	4
MTH 1320	Intermediate Trigonometry	3
PHY 1310	General Physics I	4
PHY 1315	General Physics Lab I	1
	Science Elective	3
	Humanities Elective	3
	Social Science Elective	3
	Total General Education and Related Credit Hours	31
	TOTAL CREDIT HOURS	63

* See page 95 for a listing of specific electives.

See your advisor for appropriate course selection.

For available Certificate Program options, see catalog pages 97-103.

** All students graduating from Terra State Community College with an Associate degree of any kind will be functionally proficient in common computer operations and applications. Please see your academic advisor or academic division office for further details.

To determine when courses are scheduled, see program curriculum sheet which is available from the Enrollment Services office in Building A/Room 100, from the Technology and Workforce Development Division office, Building E, Room 107 or on the web at www.terra.edu.