

ARCHITECTURE TECHNOLOGY



Pathway: Construction, Maintenance & Utilities
Chair: William (Bill) Elarton, Room SQ/B-122
(213) 763-3700, cdm@lattc.edu

Award Title	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Architectural Technology*	A.A.	21*	46	1	47
Architectural Technology	C		46	1	47

At least 60 degree applicable units are required to earn an Associate degree.

*This Associate Degree is eligible for a reduction of General Education requirements from 21 to 18 units; please consult with a counselor for more details.

PROGRAM OVERVIEW

In keeping with the LATTC and Construction, Design, and manufacturing mission, we offer transfer courses and provide assistance with job placement in various venues, including architectural, urban planning and engineering offices; construction management firms; the construction manufacturing industry; and government agencies. We meet Leadership in Energy and Environmental Design (LEED) standards and use sustainable design strategies and current computer tools (including Global Positioning System—GPS, CFM, Computer-aided design—CAD, Geographic Information System—GIS, Building Information Modeling—BIM, 3-D modeling and others) to record, organize, design and maintain the life cycle of the built environment.

Our courses are integrated and comprehensive, covering four clusters of study: 1) design/space-planning/programming; 2) construction documents/BIM; 3) building systems/materials/historical context; and 4) sustainable tools, such as BIM, GPS, CAD, GIS, 3-D modeling, and simulation. Every class includes training in organizational skills, time management, teamwork, communication and digital file management, and the equipment used in the classroom is the same found in professional offices.

In the architecture design program, students learn additional skills, such as prototyping, visualization, conceptualization, 3-D composition, lighting, proportion, sketching and modeling.

This critical foundational knowledge can be applied to the fields of industrial design, toy design, furniture design, interior design, landscape architecture, set design and virtual reality spaces.

By fulfilling the program requirements, students will have the skills needed to enter the field as an Architectural Technician who is both a problem solver and an integral part of the design process. Students will master the skills necessary to work in the construction, drafting, estimating, building inspection, civil, electrical, mechanical and structural engineering, construction computer rendering, and computer-aided drawing arenas. General education classes provide a well rounded education, imparting the knowledge and skills needed to successfully participate in all aspects of society.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree/Certificate program, students are able to:

1. Use modern industry tools, software, methods, and techniques required for creating architectural design documents, templates, presentations, and projects.
2. Produce construction documents and architectural drawings for a variety of building projects in accordance industry standards, practices, and principles.
3. Design architectural and building solutions for engineering problems utilizing architectural design concepts and techniques, math, and geometrical composition to address human needs and use.

ARCHITECTURAL TECHNOLOGY

Associate in Arts Degree
Major Units: 47

Requirements for the Associate in Arts degree in Architectural Technology may be met by completing 46 units of Required Courses and 1 unit of Major Electives with a "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements.

REQUIRED COURSES

SEMESTER I		UNITS
INT 200	Residential Planning	3
ARC 130	History of Architecture I	2
ARC 172	Architectural Drawing I	3
DRAFT 062	C.A.D.D. for Architects	3

SEMESTER II		UNITS
ENV 101	Foundations of Design I	3
ARC 151	Materials of Construction	3
ARC 173	Architectural Drawing II	3
ARC 261	Computer-Aided Design for Architecture I	3

SEMESTER III		UNITS
ARC 131	History of Architecture II	2
ARC 201	Architectural Design I	3
ARC 271	Architectural Drawing III	3
DRAFT 063	C.A.D. for Building	3

SEMESTER IV		UNITS
ARC 152	Equipment of Buildings	3
ARC 202	Architectural Design II	3
ARC 341	GIS Metropolitan Access Planning Systems I	3
DRAFT 010	CADD for Sustainable Landscape Design	4

MAJOR ELECTIVES

Select at least 1 unit from the courses below		UNITS
ARC 160	Computers for Designer	3
DRAFT 060 †	CAD Introduction	3
DRAFT 064 †	CADD Laboratory	3

† Course currently unavailable

ARCHITECTURAL TECHNOLOGY

Certificate of Achievement
Major Units: 47

A Certificate of Achievement in Architectural Technology may be earned by completing 46 units of Required Courses and 1 unit of Major Electives listed under the Associates degree in Architectural Technology with a "C" or better in each course.

USEFUL LATTC LINKS:

College Catalog: <http://college.lattc.edu/catalog/>
Financial Aid Office: <http://college.lattc.edu/financialaid/>
Counseling Department: <http://college.lattc.edu/counseling/>
General Education Information: <http://college.lattc.edu/catalog>
Construction, Design, and Manufacturing Pathway: <http://college.lattc.edu/cdm>

You can register in these classes by logging on to the Student Information System at <http://college.lattc.edu/student/new-students/register-now/>
 For additional information consult a LATTC college counselor.