

Be Something...

Architectural and Engineering Technology

What preparation will this program give me?

The Architectural and Engineering Technology Department offers transfer courses for architecture and engineering degree programs at universities as well as preparation for paraprofessional job entry in these fields. Laney's architectural program offers a range of courses providing excellent technical and design skills and knowledge needed for career success.

What kind of job will I be qualified for when I finish?

In addition to university transfer, the curriculum provides necessary skills for employment in the design and construction fields. Students may prepare for positions as Computer Aided Design (CAD) drafters, surveyor aides, office managers, and other occupations in public and private sector architecture and engineering offices.

Architectural drafters prepare detailed drawings of architectural and structural features of buildings or drawings used in civil engineering projects, such as highways and bridges. They use their knowledge of building materials, engineering practices, and mathematics to complete drawings.

Surveyors determine property boundaries; they provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features for engineering, mapmaking, construction, and other purposes.

In 2006, median annual earnings of architects were \$64,000 with the highest 10% earning more than \$104,000.

The demand for both Architectural Drafters and Surveyors is projected to increase by 12% by 2012 in the Oakland Metropolitan Area.

Source: Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2008-09 Edition*

What classes will I take?

Required Courses

	Units
A/ET 10 Introduction to Design Professions	2
A/ET 13 Architectural Drafting and Design I	4
A/ET 107 Architectural History and Theory	3
CONMT 20 Blueprint Reading and Interpretation	3
A/ET 23 Architectural Drafting and Design II	4
A/ET 35 Perspectives, Shades and Shadow I	2
A/ET 103 Materials of Construction	2
A/ET 33 Architectural Drafting and Design III	4
A/ET 100 Measurements and Plane Surveying I	3
A/ET 104A Beginning CAD	3
PHYS 2A General Physics	5
A/ET 43 Architectural Drafting and Design IV	4
A/ET 105 Introduction to Statics and Structural Mechanics	3
A/ET 104B Intermediate CAD	3
PHYS 3A General Physics	5
PHYS 2A General Physics with Calculus	5 OR
A/ET 110 Intro to 3D Modeling and Rendering	3
ENGL 1A Composition and Reading	4
Total Required Units	57

What degree will I receive and how many course credits will I need?

Students can obtain either a Certificate of Completion or an Associate in Arts Degree. A Certificate of Completion in Architectural Technology is given after satisfactory completion of the 57 units of required coursework. An Associate of Arts degree is given after satisfactory completion of the required coursework plus additional general education and elective course units.

Where do I get more information?

Contact Laney College Architectural and Engineering Technology Department at (510) 464-3450

