

20-23 unit certificate • 60 unit degree

The Drafting Technology certificate is designed to offer the math and drawing techniques you'll need to represent three-dimensional buildings and objects.

Required Courses (to earn certificate)

DFT/ENE-21 Drafting (3 units)*

Fundamentals of mechanical drawing.

DFT/ENE-27 Technical Communications (3 units)*

Procedures for organizing and presenting technical data through informal and formal documents and presentations.

DFT/ENE-30 Computer Aided Drafting (CAD) (3 units)*

Advisory: CIS-1A

Two-dimensional computer aided drafting class for drafters.

DFT/ENE-51 Blueprint Reading (2 units)*

Study of blueprints, interpretation, projection, symbols and abbreviations.

OR

CON-62 Print Reading for Construction (3 units)*

An overview of construction print and specification reading, the relationship of drawings and specifications to the contract and responsibilities of the inspector in interpreting the contract documents and in the inspection of the work.

DFT/ENE-41 Engineering Graphics (3 units)*

An introduction to principles of engineering drawings in visually communicating engineering designs and an introduction to Computer Aided Design (CAD). Topics include: the development of visualization skills, orthographic projections, mechanical dimensioning and tolerancing practices, and the engineering design process. Assignments develop sketching and 2D and 3D skills.

Plus, an additional 6-8 units from the following courses:

DFT/ENE-60 Math for Engineering Technology (3 units)

A course for mathematical problems frequently used by students enrolled in the trade and industrial and engineering programs.

OR

MAT-36 Trigonometry (4 units)*

Prerequisite: MAT-35 and 53 or qualifying placement level

The study of trigonometric functions, their inverses and their graphs; identities and proofs related to trigonometric expressions.

AND Pick an elective:

CON-60 Introduction to Construction (3 units),

ARE-37 Architectural Design (3 units),

DFT/ENE-42 SolidWorks I (3 units),

MAN-56 CNC Machine Set-up and Operation (4 units)

Note* Students can take ENE-41 as replacement for ENE-22 and ENE-28 (for those on previous program format)

Some of these courses have prerequisites or advisories. Refer to College Catalog for more information.

*This class transfers toward one or more CSUSB or CalPoly majors. Visit www.assist.org or the Counseling office for details.

Tuition \$46/unit • Duration of Study: 18 months

An Associate of Science Degree in Drafting Technology will be awarded upon completion of the required courses (20-23 units) plus the General Education requirements. Please refer to the Norco College Catalog or visit the Counseling Center.

Job & Wage Information

- Architectural and Civil Drafter
Wage Range*: \$19.13-32.52
0% increase expected in CA 2019-2029;
1,480 openings annually
More info: <http://bit.ly/DrafterNC>
- Drafting Technician
Wage Range*: \$19.13-32.52
0% increase expected in CA 2019-2029;
1,480 openings annually
More info: <http://bit.ly/DrafterNC>
- Computer Aided Design (CAD) Drafter
Wage Range*: \$19.13-32.52
0% increase expected in CA 2019-2029;
1,480 openings annually
More info: <http://bit.ly/DrafterNC>

*2020, Riverside/Ontario/San Bernardino Metro Area

What type of interests might be a good fit for this career choice?



Realistic

People who have athletic or mechanical ability and prefer to work with objects, machines and tools. Preference for working with things over people.

For more information on careers that fit this category of interests, visit the Career Center in the Center for Student Success.

What's Your School?



Visit www.norcocollege.edu/STEM for more information about this program.