Behind every product, building, or process are drawings and models created by someone using the techniques and principles taught in drafting courses. If you enroll in the DRAFTING TECHNOLOGY certificate courses, you’ll learn the math and drawing techniques you’ll need to represent three-dimensional buildings and objects.

**Required Courses**

- **ENE-21 Drafting (3 units)**
  - Fundamentals of mechanical drawing
- **ENE-30 Computer Aided Drafting (CAD) (3 units)**
  - Two-dimensional computer aided drafting class for drafters
- **ENE-42 Solidworks I (3 units)**
  - Intro to three-dimensional parametric solid modeling with SolidWorks
- **ENE-51 Blueprint Reading (2 units)**
  - Study of blueprints, interpretation, projection, symbols and abbreviations
- **ENE-52 Geometric Dimensioning & Tolerancing (2 units)**
  - Helps students to read and use ANSI Y14.M, the current standard for drafting
- **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
- **ENE-22 Engineering Drawing (3 units)** prerequisite ENE-21
  - Drafting fundamentals reviewed, geometric construction, orthographic projections, free-hand
- **ENE-28 Technical Design (3 units)** prerequisite ENE-21
  - Study of industrial design and drafting procedures relating to the basic elements of mechanisms, including drawing of machine parts in various stages of manufacturing

And 2-4 units from the following

- **ARE-24 Architectural Drafting (3 units)** prerequisite ENE-21 & 30
- **ENE-23 Descriptive Geometry (3 units)** prerequisite ENE-22 & MAT-36
- **ENE-26 Civil Engineering Drafting (3 units)** prerequisite ENE-21
- **ELE/ENE-27 Technical Communications (3 units)**
- **ENE-42B SolidWorks II (3 Units)** prerequisite ENE-42
- **MAN-56 CNC Machine Set-up and Operation (4 Units)**

*This class transfers towards one or more CSUSB or Cal Poly majors. Visit www.assist.org or the Counseling Office for details.

**SUGGESTED SEMESTER SEQUENCE**

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**Norco College Counseling Department**
(951) 372 - 7101

For more information regarding certificate program, course sequencing or scheduling:

Gerald Cordier, Associate Professor, Drafting  
(951) 372 - 7106 • gerald.cordier@norccollege.edu
Drafting Technology
24-26 UNIT CERTIFICATE - 60 UNIT ASSOCIATE DEGREE

† An Associate of Science Degree in Drafting Technology will be awarded upon completion of the required courses (24-26 units) plus the General Education requirements. Please refer to the Norco College Catalog or visit the Counseling Center.

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website at: http://www.norcocollege.edu/cte/pages/drafting.aspx

This project was funded fully or in part by Carl D. Perkins CTE Act of 2006 grant no. 15-C01-045 awarded to Riverside Community College District (RCCD) and administered by the California Community Colleges Chancellor’s Office. RCCD complies with all federal and state rules and regulations. RCCD does not discriminate, and harassment of any employee or student is strictly prohibited, on the basis of ethnic group identification, national origin, religion, age, gender, gender identity, gender expression, race, color, ancestry, genetic information, sexual orientation, physical or mental disability, pregnancy, military or veteran status, or any characteristic listed or defined in Section 11135 of the Government Code or contained in the prohibitions of hate crimes of Section 422.6 of the California Penal Code, or any other status protected by law. This holds true for all students interested in participating in any educational and/or extracurricular program.

Limited English speaking skills will not be a barrier to admission or participation in any programs. For alternate formats of this material for individuals requiring disability accommodation contact CTE. For inquiries regarding compliance or grievance procedures, contact the District’s Title IX Officer/Section 504/ADA Coordinator, 450 E. Alessandro Blvd., Riverside, CA 92508, (951) 222-8039.

Jobs & Wages

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<th>Role</th>
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<tr>
<td>Drafter</td>
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<tr>
<td>Designer</td>
<td>$18.08 - $40.92</td>
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As of 2015. Subject to change.

tuition $1,104
books & supplies $645
duration of study 16 MONTHS
total estimated certificate cost $1,749

NORCO COLLEGE
Career & Technical Education

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2015