

COMPUTER-AIDED DESIGN, CERTIFICATE

The Manufacturing Technology program provides training in a wide variety of skill areas of product manufacturing and services. The four degree options in the program are Automated Manufacturing Systems, Drafting/Design, Manufacturing Technology and Manufacturing Engineering Technology. Automated Manufacturing is designed to prepare the student for careers in computer-aided manufacturing, robotics and numerical control. Drafting/Design prepares the student for careers in the drafting and computer-aided design areas. Manufacturing Technology provides the student with a broad background in the areas of machining, drafting and fluid systems so as to prepare them for entry level positions as machine operators, machine maintenance personnel and quality control personnel. The Manufacturing Engineering Technology degree prepares students for entry-level engineering technician positions in manufacturing. This certificate requires 24 credits in the courses listed below.

For more information about Manufacturing Technology, please visit the program page (<http://www.cod.edu/manufacturing/>).

Certificate Requirements

Field of Study Code: MANUF.CER.CAD

| Code | Title | Credits |
|---|--|-----------|
| Program Requirements | | |
| MANUF 1101 | Industrial Design/CAD | 3 |
| MANUF 2202 | Solid Modeling and Design | 3 |
| MANUF 2203 | Manufacturing Processes and Design | 3 |
| MANUF 2206 | Mechanical Computr-Aided Drafting/Design | 3 |
| MANUF 2207 | Tool Design | 3 |
| MANUF 2208 | Mechanical Design Portfolio | 3 |
| Program Electives | | |
| Select six credits from the following: ¹ | | 6 |
| MANUF 1110 | Metrology | |
| MANUF 1121 | Physical Metallurgy | |
| MANUF 2201 | Geometric Dimensioning and Tolerancing | |
| MANUF 2280 | Industrial Safety | |
| MANUF 2281 | Cost Analysis | |
| ELECT 1100 | Electricity and Electronics Fundamentals | |
| ELMEC 1141 | Hydraulics and Pneumatics | |
| Total Credits | | 24 |

¹ In addition to the courses listed above.