



WHAT YOU WILL LEARN

All manufacturing industries, research and development organizations, and design divisions of major corporations use drafters in the preparation of various stages of formal drawings. Typically, companies that hire engineers, architects or designers have a need for people skilled in drafting.

The Computer-Aided Drafting Technology Program at CCM prepares a person for an entry-level position as a Junior Drafter, Drafter Trainee, or Drafter using computer-aided drafting (CAD). The supportive technical course work in manufacturing, materials, science, mathematics and writing will aid students in continuing to advance their careers and assist in strengthening the background of those desiring to continue their education.

WHY STUDY COMPUTER-AIDED DRAFTING TECHNOLOGY AT CCM?

County College of Morris has state-of-the-art computers running the latest version of Computer Aided Drafting and Design (CADD) software that provides the student with needed hands-on experience. A fully functional prototyping lab rounds out the student's experience in the manufacturing process, taking idea from concept to reality.

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Curriculum Checksheet: www.ccm.edu/checksheets

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CAREER OPPORTUNITIES

Computer-Aided Drafting Technology salaries vary depending on a person's drafting specialty. According to the U.S. Bureau of Labor Statistics, mechanical drafters earned a median annual salary of \$58,270 in 2020, while architectural and civil drafters had a median pay of \$57,500. PayScale.com reports that most CAD operators in 2021 earned between \$40k and \$77k.

Career options include:

- Architectural Drafters
- Computer-Aided Designer/Drafter/Engineer
- Electrical Drafters
- Mechanical Drafters

CAD drafters can have various specialties as well. For instance, drafters may work in fields such as:

- Aeronautics
- Architecture
- Civil engineering
- Electronics
- Mechanics
- Process Pipelines

CONTACT INFORMATION

Engineering Technology and Engineering Science Department

973-328-5760

engtech@ccm.edu

Advanced Manufacturing and Engineering Center, Room 104



Many student in this program continue and earn their Associates in Applied Science (AAS) in the Mechanical Engineering Technology Program at County College of Morris.

This program is through on-campus learning between lectures and laboratory for students on high-end computers and equipment.

WHERE YOU CAN GO!

Demand for drafting jobs is expected to continue to grow through the next decade. Since CAD is dependent upon the latest software, it is important for operators to stay current with developing technologies and techniques. Familiarity with the latest CAD systems increases your ability to get and retain jobs. Experience with the software and drafting skills is most important, although an associate degree or professional certification is quickly becoming a requirement.

For further information about certificates which apply to business labor, visit: <https://www.bls.gov/>. Student are welcome to learn more about CCM's Career Services, visit: www.ccm.edu/student-life/campus-services/.

SCHOLARSHIP OPPORTUNITIES

In addition to the general scholarships available at CCM, Glenbrook Technologies, NDIA John Amerspek, NDIA Rodney Frelinghuysen and NDIA Dean Gallo offer scholarships.

Please contact the Department of Engineering Technology and Engineering Science for more information.



CURRICULUM

COMMUNICATIONS (3 CR)

English Composition I	ENG 111	3
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MATHEMATICS/SCIENCE (7/8 CR)

College Algebra	MAT 110	3
OR		
Statistics	MAT 124	3
OR		
Probability and Statistics	MAT 130	4
Concept of Physics	PHY 103	4
OR		
Technical Physics I	PHY 111	4

TECHNICAL REQUIREMENTS (18/22 CR)

Computer Technology and Applications	CMP 126	4
OR		
Computer Concepts with Applications	CMP 135	3
Computer-Aided Drafting I	ENR 117	2
Computer-Aided Drafting II	ENR 118	2
Manufacturing Process for Engineering Technology	MEC 109	4
Materials for Engineering Technology	MEC 110	4
Electronic Fabrication	ELT 210	1
Intro to Experimentation and Design	ENR 132	3
Technical Elective		1-4

TOTAL

30-35

Note: You must see a faculty advisor to plan your sequence of courses. For the most up-to-date listing of courses, see the Curriculum Checklist for this program on the CCM website at www.ccm.edu/checksheets.