

Program Information

The Anoka Technical College Advanced CAD certificate is a 30-credit program that consists of technical courses designed to develop skills in mechanical drafting, design, and related fields.

In addition to drafting and detailing skills, the student receives training in related areas, such as industrial materials, manufacturing methods, machining and industrial relations. Students also receive hands-on training in Anoka Technical College’s computer-aided drafting (AutoCAD, Inventor, ProE/Creo and Solidworks) lab. Training in these programs opens up an entirely new area of job advancement, especially in large companies.

Course Prerequisites

Some courses may require appropriate test score or completion of basic math, basic English and/or reading courses with a “C” or better.

Graduation Requirements

All Anoka Technical College students seeking an Associate in Applied Science (AAS), diploma, or certificate must meet the cumulative grade point average (GPA) of 2.0 or higher.

Transfer Opportunities

To see how credits from this program may transfer into other Anoka Technical College programs or into a program at another college, visit:

- [Minnesota Transfer](http://www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search): (www.mntransfer.org/students/plan/s_agreements.php?numResults=25&archive=false&from_inst=70&from_prog=&to_inst=&Search=Search)
- [Anoka Technical College transfer student](http://www.anokatech.edu/BecomeStudent/Transfers.aspx): (www.anokatech.edu/BecomeStudent/Transfers.aspx)

Industry Information

Anoka Technical College Mechanical Drafting and Design Technology program graduates find employment with manufacturing companies, big and small, engineering firms, electro-mechanical companies and contract firms.

Mechanical Drafting and Design Technology graduates have the necessary knowledge and an excellent foundation to begin their careers as mechanical drafters in engineering departments that design and manufacture hard goods products of every description. Most mechanical drafters begin as detail drafters, making the drawings required for the manufacture of products. Mechanical drafters can advance to supervisory positions within the department or may advance to assistant engineer as they gain experience. Other areas of advancement include purchasing and sales.

Wages/Outlook/Advancement

Wage information is available from the [Minnesota Department of Employment and Economic Development](https://mn.gov/deed/job-seekers/job-outlook/) (https://mn.gov/deed/job-seekers/job-outlook/).

Gainful Employment

Follow this link for a [Gainful Employment Report](#).

Technical Education: 30 Credits

- MECH 1200 Mechanical CAD I 4
- MECH 1216 Drafting Standards 5
- MECH 1243 Descriptive Geometry and Applications 3
- MECH 2031 Process Design Drafting 3
- MECH 2055 Geometric Dimensioning and Tolerancing 3
- MECH 2064 Introduction to Inventor 4
- MECH 2074 Solidworks 4

Possible Electives. Select four (4) credits:

- MACH 1090 Machining Fundamentals 2
- MECH 1228 Materials and Processes 4
- MECH 2084 Introduction to ProE/Creo 4
- MECH 2090 Advanced CAD 3

Also see: Mechanical CAD Drafting & Design AAS degree, Mechanical CAD Drafter diploma, and Mechanical CAD Operator certificate

Start Dates

Fall Semester.....August
Spring SemesterJanuary**

****Students who start in the spring will need more time to complete this program. Limited first semester technical courses are offered in the Spring semester.**

Faculty Contact

[Paul Klevann](#)..... 763-576-4188

For information on how to apply, to schedule a tour, or for service during summer hours, contact Enrollment Services at 763-576-7710 or EnrollmentServices@anokatech.edu

Sample Program Sequence

Full Time

| | Fall Semester | Spring Semester |
|----------------------------|-----------------------|-----------------------|
| 1st YEAR | MECH 1200 4 | MECH 1243 3 |
| | MECH 1216 5 | MECH 2031 3 |
| | MECH 2064 4 | MECH 2055 3 |
| | TOTAL 13 | MECH 2074 4 |
| | | TOTAL 13 |



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