

# Computer Aided Drafting

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## Certificate

This program of study prepares the students to be a drafting technician capable of working with engineers in the many facets of the technical drawing and solid modeling design fields. Emphasis is placed on the architectural and mechanical drafting along with drafting courses for technical comprehension of the subject. Topics include conventional drafting methods and computer-aided drafting (CAD) systems such as AutoCAD, MicroStation, and Solidworks. This program balances computer software skills with design and drafting skills. The Computer-Aided Drafting Certificate constitutes the first year of the degree program without college seminar and Physical Education. It may also be used as preparation for the Mechanical or Civil Engineering Technology degree programs. At least one year of high school or equivalent, including algebra, is recommended.

**Total Credit Hours: 30 - 32**

### First Semester

CT265 Introduction to GIS	3.0
Mathematics Elective (a)	3.0 - 4.0
English Elective (b)	3.0
MT140 Draft & Design Using AutoCAD	3.0
MT155 Intro to Solid Modeling	3.0
CT102 Eng Drawng and Microstatn CAD	3.0

### Second Semester

CT266 Capstone GIS	3.0
MT112 Architectural Drafting	3.0
MT251 Advanced AutoCAD	3.0
Program Elective (c)	3.0 - 4.0

(a) Math Electives include: MA105, MA106, MA115, MA121, MA122, MA125, MA150, MA151, MA152, MA253, MA260, MA275, or MA280.

(b) English Electives include: EN101 English 1: Composition OR EN110 Oral and Written Communications.

(c) Program Electives include: Students interested in mechanical design should plan on taking MT256 Advanced Solid Modeling. Students interested in civil/architecture/construction should take MT242 Advanced MicroStation.

(d) Students interested in pursuing a degree should choose this option. Math Electives include: MA106, MA115, MA121, MA122, MA125, MA150, MA151, MA152, MA253, MA260, MA275, or MA280.