

# Computer Aided Drafting (CAD) (Architectural-Mechanical)

## Associate in Occupational Studies Degree

This program of study prepares the student to be a drafting technician capable of working with professionals in the many facets of the technical drawing and solid modeling design fields. Emphasis is placed on architectural and mechanical drafting along with related courses for technical comprehension of the subject. The development of problem solving skills is stressed. Topics include conventional drafting methods and computer-aided drafting (CAD) systems such as AutoCAD, MicroStation, and Solidworks. With the addition of ED100 College Seminar and Physical Education, the Computer-Aided Drafting certificate constitutes the first year of this program. At least one year of high school mathematics or equivalent, including algebra, is recommended.

### Total Credit Hours: 64

#### First Semester

CF100 College Foundations Seminar	1.0
English Elective (a)	3.0
CT265 Introduction to GIS	3.0
MA105 Technical Math 1	4.0
MT140 Draft & Design Using AutoCAD	3.0
Physical Education Elective	0.5

#### Second Semester

English Elective (b)	3.0
MA106 Technical Math 2	3.0
MT112 Architectural Drafting	3.0
CT266 Capstone GIS	3.0
MT251 Advanced AutoCAD	3.0
Physical Education Elective	0.5

#### Third Semester

CT102 Eng Drawing and Microstatn CAD	3.0
MT114 Manufacturing Processes	3.0
MT155 Intro to Solid Modeling	3.0
MT221 Toler&Assmb Drafting	4.0
MT229 Bldg Sys Drafting	3.0
Physical Education Elective	0.5

#### Fourth Semester

CT243 Construction Mgmnt	2.0
MT222 Tool & Design Drafting	4.0
MT223 Elec-Electr Draft	3.0
MT242 Adv MicroStation (CAD)	3.0
MT256 Adv Solid Modeling	3.0
Physical Education Elective	0.5

(a) English Elective options include: EN101 English 1: Composition OR EN110 Oral & Written Communication

(b) English Elective options include: EN102 English 2: Ideas & Values in Literature OR EN147 Report Writing