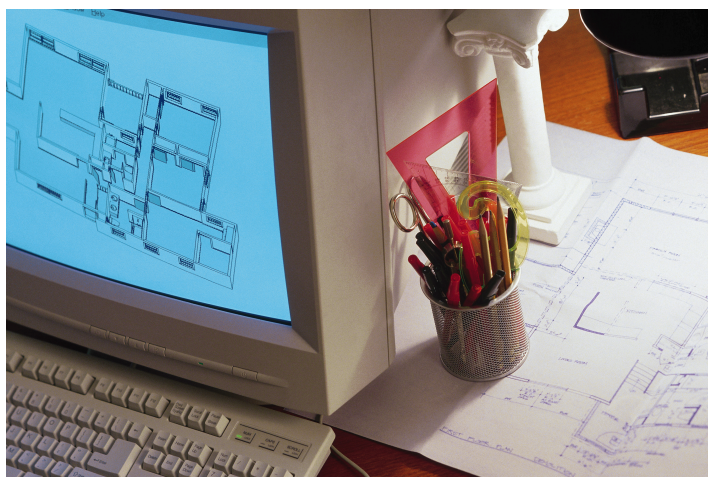


# DRAFTING



Drafting Technology is an academic discipline concerned with the study of drafting technology, architecture, computers, and graphic design. This academic discipline prepares students for entry-level employment and/or potential further study in the field of drafting technology.

The skills developed in this discipline include computer assisted drafting & design, visual communication, computer concepts, graphic design, & construction technology

Transfer requirements in drafting technology are available in the Counseling Center. In all cases, students should consult with a counselor for specific transfer requirements.

Career options include positions in manufacturing or industrial mechanical drafting technology. A higher degree may be required to meet minimum job requirements depending on the position.

## Contact Information

### Drafting Faculty Contact

Rolando Gonzalez | (559) 688-3120 | rolandog@cos.edu

### Industry and Technology Division Chair

Randy Emery | (559) 688-3180 | r (frankt@cos.edu)andye@cos.edu (randye@cos.edu)  
Tulare Center Building C: Room C | Tulare Campus

### Dean of CTE and Workforce Development

Jonna Schengel, Ed.D, MA, PT | (559) 688-3027 | jonnas@cos.edu  
Tulare College Center | Building A 107 | Tulare Campus

## Associate Degree

- Associate of Science in Drafting Technology (AS) (<https://catalog.cos.edu/areas-study/drafting/associate-science-drafting-technology-not-for-transfer-as/>)

## Certificates

- Certificate of Achievement in Autodesk AutoCAD for Drafting (<https://catalog.cos.edu/areas-study/drafting/certificate-achievement-autodesk-autocad-drafting/>)

- Certificate of Achievement in Dassault Systemes Solidworks (<https://catalog.cos.edu/areas-study/drafting/certificate-achievement-dassault-systemes-solidworks/>)
- Certificate of Achievement in Mechanical Drafting (<https://catalog.cos.edu/areas-study/drafting/certificate-achievement-mechanical-drafting/>)
- Skill Certificate in Autodesk AutoCAD for Architecture (<https://catalog.cos.edu/areas-study/drafting/skill-certificate-autodesk-autocad-architecture/>)
- Skill Certificate in Tactile Mechanical Drafting (<https://catalog.cos.edu/areas-study/drafting/skill-certificate-tactile-mechanical-drafting/>)

For a complete list of courses and descriptions visit: COURSES (<https://catalog.cos.edu/course-descriptions/>)

### DRFT 016 CAD Applications

4unit(s)

Hours: 3 Lecture/Discussion Hours:  
3 Lab

This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include modeling tools, assembly modeling, and working with drawing views.

**Advisory on Recommended Preparation:** DRFT 114 and DRFT 115 or equivalent college courses with a minimum grade of C; Prior work experience using AutoCAD and/or SolidWorks.

### DRFT 112 Mechanical Drafting 1

3unit(s)

Hours: 2 Lecture/Discussion Hours:  
3 Lab

This is an introductory course in the fundamentals of mechanical drawing and modern drafting practice. It is a "tactile" (by hand) drafting course. This course is a basis for all drafting-related majors and is recommended for students who have had no high school drafting, but plan to enter any one of various design professions.

### DRFT 113 Mechanical Drafting 2

3unit(s)

Hours: 2 Lecture/Discussion Hours:  
3 Lab

This is an intermediate course in the fundamentals of technical drafting and practical applications. Emphasis will be placed on lettering, orthographic projection, auxiliary views, dimensioning, and the interrelationship of each manufacturing design. Formerly DRFT 100.

**Advisory on Recommended Preparation:** DRFT 112 or equivalent college course with a minimum grade of C or equivalent skills as determined by departmental assessment.

### DRFT 114 Introduction to CAD

4unit(s)

Hours: 3 Lecture/Discussion Hours:  
3 Lab

This is an introductory course that explores the basic concepts and applications of computer assisted drafting. Students will use the computer to solve a series of drafting problems related to various design professions.

**DRFT 115 Advanced CAD**

**4unit(s)**

Hours: 3 Lecture/Discussion Hours:  
3 Lab

This is an advanced computer assisted drafting course that explores parametric solid modeling. Techniques include sketching, editing, modifying, adding relations and dimensions, base feature options, creating geometries, modeling tools, and editing features.

**Advisory on Recommended Preparation:** DRFT 114 or equivalent college course with a minimum grade of C.