

## CERTIFICATES

### CERTIFICATE IN

# COMPUTER-AIDED DRAFTING

(9 hrs. min.)

CIP:15.1303

Geared for the professional working in a design-related field, this program uses SFCC's Premier Autodesk Training Center as its predominant method of course delivery. Students attend classes to obtain proficiency in computer drafting and design programs. Upon completion of the program, students are prepared to take national certification exams and earn recognitions that can lead to enhanced job opportunities.

### PROGRAM OUTCOMES

Upon successful completion of this program, students will be able to:

- Use AutoCAD and related computer-aided modeling programs to construct advanced two-dimensional technical documents for construction-related purposes.
- Describe and utilize AutoCAD's workspace, commands and system variables to create and edit geometry using numerous vector-based point entry systems.
- Use different selection methods to manipulate and construct objects based upon a creative, problem solving approach to model creation.
- Create, manage and explain the use of .dwg content in a project and how the planning and disciplined use of layers, styles and references enhance a technician's ability to provide quick and intelligent models.
- Calculate, modify and manage various viewport scale factors in a .dwg to ensure that sheet layouts are annotated effectively and appropriate following drafting standards and designer's expectations.
- Think creatively to expand knowledge in each area of program usage and capability.

### CORE REQUIREMENTS: (9 HRS. MIN.)

ACAD 111 AutoCAD – Level I (2)

ACAD 112 AutoCAD – Level II (2)

ACAD 113 AutoCAD 3-D: Modeling Basics (1)

ACAD 211 AutoCAD – Level III (2)

ACAD 212 AutoCAD – Level IV (2)

[or]

DRFT 111 Computer-Aided Drafting I (3)

DRFT 121 Computer-Aided Drafting II (3)

DRFT 211 Computer-Aided Drafting Proficiency (3)

DRFT 221 Computer-Aided Drafting Mastery (3)

Note: See "College Success Course Requirement" on Page 8.

TOTAL 9 CREDITS MIN.