

# DRAFTING/CAD, CERTIFICATE OF ACHIEVEMENT (C)

## Overview

The one-year Drafting Certificate Program focuses on application of state-of-the-art Computer Assisted Design (CAD) systems and applying engineering and architectural principles, fundamentals, and methods to achieve practical results. This program offers comprehensive training for entry-level drafting positions.

## Requirements

### Certificate of Achievement Requirements

Complete all Department Requirements for the Certificate of Achievement with a cumulative grade point average (GPA) of 2.0 or better. Candidates for a Certificate of Achievement are required to complete at least 20% of the department requirements through SBCC.

Code	Title	Units
<b>Department Requirements</b>		
DRFT 101	Basic Drafting	3
DRFT 130	Computer-Assisted Drafting And Design I	5
DRFT 131	Computer-Assisted Drafting And Design II	5
Complete 15 units of Drafting electives from the following:		15
DRFT 120	Architectural Drafting I	
DRFT 121	Architectural Drafting II	
DRFT 124	Architectural Rendering I	
DRFT 125	Architectural Rendering II	
DRFT/EH 126	Landscape Drafting I	
DRFT/EH 127	Landscape Drafting II	
DRFT 129	Principles Of Residential Construction	
DRFT 132	Building Information Modeling with Revit® - I	
DRFT 290	Work Experience In Drafting <sup>1</sup>	
DRFT 299	Independent Study In Drafting	
ENGR 105	Engineering Graphics	
MAT 136	Introduction to 3D Animation	
MAT 137	Visual Effects for Film, Television and Gaming	
MAT 138	3-D Character Animation	
Complete 3 units of Controlled electives from the above list of Drafting Electives or from the following:		3
ENGR 115	Statics And Strength Of Materials	
ENGR 117	Electronic Circuits <sup>2</sup>	
ENGR 117L	Electronic Circuits Laboratory	
<b>Total Units</b>		<b>31.00</b>

<sup>1</sup> DRFT 290 may be taken up to four times for a maximum of 4 units each time. Students may use a maximum of 16 units of DRFT 290 to satisfy the 18 units of drafting and controlled electives required for the degree.

<sup>2</sup> ENGR 140 also satisfies this requirement.

## Learning Outcomes

1. Ability to prepare and understand technical drawings.
2. Ability to use computer software to generate technical drawings.
3. Obtain occupational knowledge and skills related to drafting.
4. Understand methods, materials and technical skills related to design and construction.

## Recommended Sequence

Make an appointment with your SBCC academic counselor through Starfish to create a Student Education Plan that reflects a recommended course sequence for this program that is tailored to your individual needs.

How to schedule an Academic Counseling appointment (<https://www.sbccc.edu/counselingcenter/counselingappointments.php>).