

# FRAMECAD STEEL DESIGN, CERTIFICATE OF SPECIALIZATION

Not Financial Aid Eligible  
Banner Code: 1\_CE\_FCSD

The FrameCAD Steel Design Certificate prepares students and working professionals for design, production drawing, and file preparation for panelized steel frame production and installation. Course projects will use FrameCAD Structure and Detailer software to design and prepare files for production on a FrameCAD F325iT machine. FrameCAD is disrupting the way buildings get made by reducing waste, transportation, and build time and by increasing strength and longevity. People with skills in this transforming industry command high salaries and will be part of a new age of design/manufacture/build.

## Program Outcome

1. Successful students in this program will be able to design and produce digital files for a small structure using FrameCAD Structure and Detailer software and export the file for production in FrameCAD Factory.

## Certificate Requirements

Orange Coast College offers two types of certificate awards in career programs designed to prepare the graduate to enter a particular field of employment. At least 3 units in an advanced course from the certificate must be completed at OCC.

1. **Certificate of Achievement** - 8 units or more in a state-approved program. Certificates of Achievement are not automatically awarded. A petition must be filed in Enrollment Services or online at the beginning of the semester in which the student will be completing his or her final requirements. The petitioning periods are listed in the Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/>) section of this catalog.
2. **Certificate of Specialization** - 16 units or less in a locally approved program. Certificates of Specialization are not automatically awarded, not printed on official academic transcripts, and there is no acknowledgment of completion given at graduation. Please contact the division for details regarding the submission of petitions as procedures for each division vary. Most division offices prefer that students complete all of the required courses and then provide a copy of the transcript while some divisions allow petitions for Certificates of Specialization before finishing.

### Minimum Grade Requirement

In order to be awarded a certificate, students are required to obtain a grade of "C" or better in all program-required courses. Grades of "CR" or "P" will be accepted whereas "CR" or "P" meets the equivalency of a "C" or better. A list of certificate programs can be found in the Programs A-Z (<https://catalog.cccd.edu/orange-coast/programs-study/>) section of this catalog. Check with a counselor to determine the requirements for completion.

Course	Title	Units
<b>Required Courses</b>		
ARCH A104	Introduction to FrameCAD Steel Framing	1

Course	Title	Units
ARCH A121	FrameCAD Studio 1	2
ARCH A122	FrameCAD Studio 2	2
ARCH A241	FrameCAD Workshop 1	2
Total Units		7