

# COMPUTER AIDED DESIGN AND DRAFTING---ADVANCED

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**Certificate of Achievement**  
**Career/Technical (Major Code: A2576)**

Class provides students an opportunity to further examine, learn, and apply CAD skills as they relate to mechanical design and drafting.

## Program Student Learning Outcomes

- Organize and print different types of views used in mechanical design.
- Analyze drawings and modify to meet industry required standards.
- Use technical documents student will evaluate mechanical drawings for errors.

## Gainful Employment

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation.”

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: [www.swccd.edu/gainfulemployment](http://www.swccd.edu/gainfulemployment) (<http://www.swccd.edu/gainfulemployment/>).

| Code                        | Title                           | Units     |
|-----------------------------|---------------------------------|-----------|
| <b>Program Requirements</b> |                                 |           |
| CAD 220                     | INTRO TO CAD/CAM SYSTEMS        | 3         |
| CAD 222                     | CAD MECHANICAL DESIGN I         | 3         |
| CAD 230                     | INTRODUCTION TO SOLIDWORKS      | 3         |
| CAD 223                     | CAD DETAILING AND DIMENSIONING  | 3         |
| CAD 224                     | CAD MECHANICAL DESIGN II        | 3         |
| ENGR 110                    | ENGINEERING DESIGN AND GRAPHICS | 3         |
| MATH 104                    | TRIGONOMETRY                    | 3         |
| <b>Total Units</b>          |                                 | <b>21</b> |