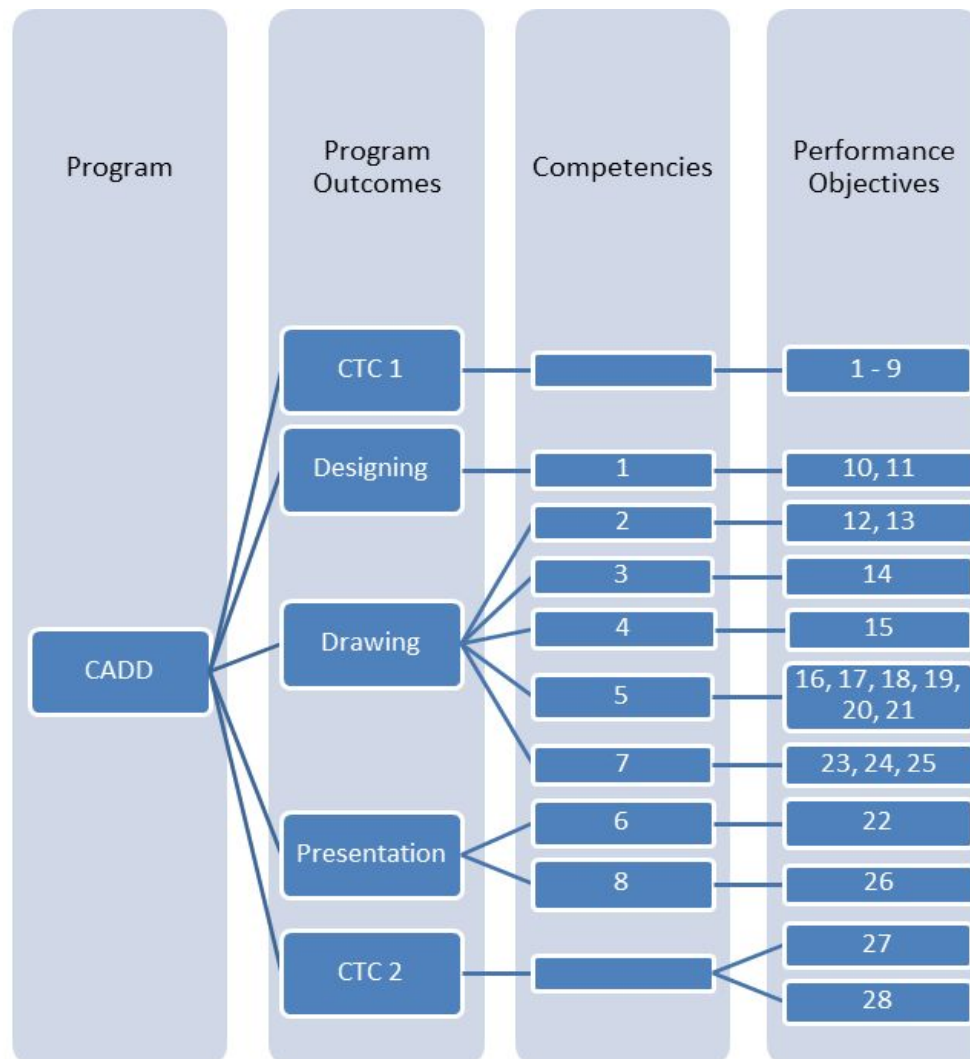


**Program: Computer Aided Design and Drafting  
151301**

**CIP #**

**Program Description:** The Computer Aided Drawing and Design Program is designed to help students pursue a professional career in architectural, mechanical, or engineering fields, whether at the post-secondary level or direct entry into the workforce in an entry level position. These courses use industry leading software that is also used at post-secondary facilities and in the workplace.



## **Program Outcomes:**

***As a result of completing the CADD program students will understand that:***

- **Presentation** – Effective presentation of a design idea requires an understanding of the clients needs, a quality product and clear communication.
- **Drawing** - Students understand that drawings communicate the essential features of a product.
- **Designing** - Understand that design processes work to ensure the creation of a quality product that solves the given challenge and meets the client's needs.

## **Program Competencies**

- 1. Understand the concepts of design intent and the options to solve the problem in communicating with the client.**
- 2. Understand the concepts, processes and procedures in the use of sketches to extend the design process.**
- 3. Understand the concept, procedure and use of replication in order to increase efficiency of design documentation.**
- 4. Understand the concept and procedures for measuring in different coordinate systems.**
- 5. Understand the concept of planning drawings.**
- 6. Understand the concepts, processes and procedures of developing charts and schedules.**
- 7. Understand the concepts of dimensioning/measurement processes and procedures.**
- 8. Understand the concepts and procedures used to develop a design presentation.**