

CUYAMACA COLLEGE
COURSE OUTLINE OF RECORD

CADD Technology 150 – Occupational Work Experience in CADD Technology/Manufacturing

54 hours paid or unpaid work experience per unit, 1-4 units

Catalog Description

This course is designed to provide a broad range of hands-on technical experience in CADD/CAM Technology/Manufacturing. It prepares students for full-time employment in an appropriate CADD industry setting. Students learn how to work safely in the work environment and apply skills attained in the classroom setting. *Occupational cooperative work experience credit may accrue at the rate of one to eight units per semester for a total of sixteen units, and students must work 54 paid hours or unpaid hours per unit earned.* 54 hours paid or unpaid work experience per unit, 1-4 units.

Prerequisite

Preregistration counseling with the instructor is required. Must meet State guidelines for work experience.

Recommended Preparation

Recommendation from Program Coordinator

Entrance Skills (if course has prerequisite/corequisite/recommended preparation)

Without the following skills, competencies and/or knowledge, students entering this course will be highly unlikely to succeed:

Course Content

Occupational and Industrial work experience

Course Objectives

Students will be able to:

- 1) Independently demonstrate standardized safety practices.
- 2) Independently apply technical information and skill sets learned in coursework to the actual work environment.
- 3) Develop the ability to work effectively with other technicians in the actual work environment.
- 4) Prepare for eventual full-time employment in the engineering technology industry.

Method of Evaluation

A grading system will be established by the instructor and implemented uniformly. Grades will be based on demonstrated proficiency in the subject matter determined by multiple measurements for evaluation, one of which must be essay exams, skills demonstration or, where appropriate, the symbol system.

- 1) Evaluation of hands-on work performance that measures the student's ability to safely identify necessary action or repair, diagnose relevant engineering technology systems, and perform necessary tasks related to the system that he/she works with.
- 2) Supervisor evaluation of the student's progress while working on necessary tasks related to diagnosis, replacement, repair, testing, and adjustment of systems and components at his/her workplace.
- 3) Appropriate business personnel in conjunction will assess observation of the student's performance in areas of attitude, skill development, absenteeism, and quality of work with work experience coordinator based on a minimum of two site visits.

Special Materials Required of Student

Approved safety glasses/boots

Minimum Instructional Facilities

Appropriate CADD/CAM -Manufacturing/Advanced Manufacturing facility

Method of Instruction

- 1) Individual assistance by experienced personnel at place of employment
- 2) Interview discussions with work experience coordinator

Out-of-Class Assignments

Not applicable; this is a credit course for working in a related engineering or advanced technology facility

Texts and References

- 1) Required (representative example): Various technical references provided by employer
- 2) Supplemental: None

Student Learning Outcomes

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

- 1) Independently demonstrate standardized safety and handling tools and measuring instruments as given by a supervisor.
- 2) Independently apply technical information and skill sets learned at school to the actual work environment as determined by a supervisor.