

CADD - COMPUTER AIDED DRAFTING AND DESIGN

CADD 100 - Introduction to Computer-Aided Drafting **Units: 3-4**

Introduction to the basic capabilities of a Computer Aided Drafting (CAD) system. Includes appropriate terminology, basic system design, typical hardware and software and applicable commands. Students will draw and solve drafting problems on a CAD system.

Term Offered: Spring and Fall

CADD 105 - Intermediate Computer-Aided Drafting **Units: 3-4**

Continuation of CADD 100. The course will cover advanced 2-D CAD operations. Student will draw and solve graphic problems on a CAD system.

Enrollment Requirements: Prerequisite: CADD 100 and DFT 100.

Term Offered: Spring and Fall

CADD 140 - Technical Drafting I **Units: 3-4**

Applies the knowledge gained in DFT 100 to manufacturing situations according to industrial standards. Computer Aided Drafting Techniques are used to solve advanced drafting problems.

Enrollment Requirements: Prerequisite: DFT 100 or CADD 100 or approval of instructor.

Term Offered: Spring and Fall

CADD 141 - Technical Drafting II **Units: 3-4**

Introduces shop processes, detail working drawings, precision dimensioning, limits and tolerances, design layouts, shop notes, parts lists, assembly drawings, developments and intersections, and pictorial drawings.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: CADD 140 or approval of instructor.

Course may be taken concurrently with CADD 140.

CADD 142 - Technical Drafting III **Units: 3-4**

Covers descriptive geometry and electronic drafting. Advances concepts introduced in CADD 141 through project oriented problem solving.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: CADD 140. Course may be taken concurrently with CADD 140.

CADD 198 - Special Topics in CADD **Units: 1-6**

Various short courses and experimental classes covering a variety of subjects. The course will be variable credit of one to six credits depending on the course content and number of hours required. The course may be repeated for up to six credits.

Transferability: May not transfer towards an NSHE bachelor's degree

CADD 200 - Advanced Computer Aided Drafting **Units: 3-4**

An advanced course providing instruction and skill development on advanced features of CADD. Emphasis will be on Alternate Dimensioning Practices, Advanced Texting and Formatting, Advanced Dynamic Block Properties and an introduction to solid modeling.

Enrollment Requirements: Prerequisite: CADD 105 and CADD 140.

CADD 210 - CADD Project **Units: 3-4**

Each student will complete a project that will increase his/her CAD skills.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: CADD 100 and CADD 140.

CADD 245 - Solid Modeling and Parametric Design **Units: 3**

This course will introduce the student to 3D and solid modeling on a CAD system. Students will draw and solve graphic problems on a CAD system.

Term Offered: Spring and Fall

CADD 290 - Internship in CADD

Units: 1-6

A course designed wherein students will apply knowledge and skills to real on-the-job situations in a program designed by a company official and a faculty advisor to maximize learning experiences. Available to students who have completed most Core and Major requirements and have a 2.5 G.P.A. Contact the instructor for the application, screening and required skills evaluation. Up to 8 semester hour credits may be earned on the basis of 75 hours of internship for 1 credit. May be repeated for up to 6 credits.

Transferability: May not transfer towards an NSHE bachelor's degree

CADD 299 - Capstone/Assessment

Units: 1-3

This course will be a final assessment of each student and determine their preparedness for job marketability. Each student will write a resume, develop a portfolio, demonstrate growth on the program post-test and apply for graduation.

Transferability: May not transfer towards an NSHE bachelor's degree