

# CAD (COMPUTER AIDED DESIGN) (CAD)

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## **CAD 201: Intro to Digital Imaging**

This course focuses on increasing the student's individual level of computer literacy through the exploration of the basic structure of the operating system, general internet skills and the fundamentals of both raster and vector based software. Course projects provide hands-on experience with Adobe Photoshop and Adobe Illustrator software.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lab, Lecture, Lecture/Lab, On-Line

## **CAD 204: Digital Fashion Design I**

Computer-aided design is utilized in every segment of the fashion industry from concept development, fabric design and illustration to line development, technical drawing, and presentations. Students learn CAD software and gain skills utilized in a variety of industry-related projects.

**Credits:** 3

**College:** School of Design & Engineering

**Prerequisites:** FASD 252 and FASR 207 [Min Grade: D]

**Schedule Type:** Lab, Lecture, On-Line

## **CAD 206: CAD I for Industrial Design**

The course introduces students to computer-aided design with a focus on the industrial design processes. In an intuitive fashion, students create and refine designs using a solids-modeling software package. In order to recognize the critical role CAD plays in the development of designs, students will use designs created in design studio courses as the subject matter of the CAD activities. Design-control drawings, three-dimensional rendered drawings and perspective drawings will be the course's output.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lab, Lecture, On-Line

## **CAD 206N: CAD I for Industrial Design**

The course introduces students to computer-aided design with a focus on the industrial design processes. In an intuitive fashion, students create and refine designs using a solids-modeling software package. In order to recognize the critical role CAD plays in the development of designs, students will use designs created in design studio courses as the subject matter of the CAD activities. Design-control drawings, three-dimensional rendered drawings and perspective drawings will be the course's output.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lab, Lecture, Lecture/Lab, On-Line

## **CAD 301: Adv Comp-Aided Textile Design**

**Credits:** 3

**College:** School of Design & Engineering

**Prerequisites:** CAD 201 [Min Grade: D]

**Schedule Type:** Lab, Lecture

## **CAD 302: 3D Virtual Fashion Des. Essent**

3D Virtual Fashion Design Essentials will enable students to understand the basic requirements needed to be successful utilizing industry-adopted 3D applications through hands on experience. Building on their pattern development knowledge and technical skills in 2D, students will learn to build an entire 3D collection from simple silhouettes to complicated designs utilizing fabric, fit, patterns, colors, and textures. Students will learn successful communication of quality assurance to vendors and manufacturing personnel worldwide.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lecture, Lecture/Studio Combination

## **CAD 306: CAD II Dig Design Techniques**

This course will build upon principles introduced in introductory CAD courses. It is primarily a laboratory course in which students will learn to take their early design concepts through to the final presentation using advanced digital design techniques. Students will use multiple digital design software packages across computer platforms with an emphasis on CAID packages such as NURBS modelers and animation software, as well as vector-based, desktop-publishing programs and bitmap-based programs.

**Credits:** 3

**College:** School of Design & Engineering

**Prerequisites:** CAD 206 or CAD 206N [Min Grade: C-]

**Schedule Type:** Lab, Lecture, Lecture/Lab, On-Line

## **CAD 401: Apparel CAD/CAM**

A comprehensive course that incorporates software widely used in the apparel industry where patterns are created then graded and made into markers. Industry standards and specifications are followed for each area. Students use software to solve problems and increase productivity. Prerequisites A grade of "C" or better in FASD 213 Pattern Development I

**Credits:** 3

**College:** School of Design & Engineering

**Prerequisites:** FASD 213 [Min Grade: C]

**Schedule Type:** Lab, Lecture, Lecture/Studio Combination