Introduction to AutoCAD

EDDT - 1040 702

Course Description

Basic skills using AutoCad for drawing applications are taught. The course includes: draw and modify commands, geometric construction, dimensions, templates, blocks and libraries, hatching, layers, scales, and plotting. Students will also be introduced to 3D CAD. It is recommended students complete EDDT 1010 prior to taking this course.

Semester(s): All

Course Student Learning Outcomes

- Basic skills using AUTOCAD for drawing applications are taught. The student will demonstrate an understanding of AutoCAD's draw and modify commands, geometric construction, dimensions, templates, blocks and libraries, hatching, layers, scales, and plotting.

- The student will demonstrate an understanding of AutoCAD's user interface including: Screen Access, Menus, Toolbars, Dialog Boxes, command structure, Windows applications for editing, customized profiles, button assignments, drafting settings. Also drawing scales and factors.

- The student will demonstrate an understanding of each of the following, modification, and reproduction commands, use of AutoCAD functions for ease and efficiency in geometric construction, orthographic and auxiliary projection including: polygons, ellipses, tangencies, splines, and alignments.

- The student will demonstrate an understanding of drawing aids including: snap, grid, Object snap tools, Ortho, Polar tracking, Object tracking, coordinate and polar input, Cartesian coordinate system in the creation of precision drawings.

- The student will demonstrate an understanding of basic Dimensioning including: a. Quick dimensioning. b. ANSI standards for different types of dimensioning c. Ordinate dimensions from a 0,0 datum d. Metric dimensions and scales e. Mechanical dimensions with tolerances, different precisions, and text added. f. Changing and creating dimension styles, scales, tolerances, units, and format.

- The student will demonstrate an understanding of how to create blocks and block libraries, modifying existing blocks, attributes and using blocks from the Design Center.

- The student will demonstrate an understanding of how to draw and dimension orthographic drawings, section drawings, and auxiliary drawings.

- The student will create 3-D CAD drawings and also create parts with our 3D Printers to see how they apply to the design process.

Engagement Plan

Example language:

- I will respond to email within 2 class days. I will offer feedback on major assignments within one week. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.

Brief Description of Assignments/Exams

Grading:

The student's grade will be an accumulation of points based upon:

• Classroom Work, Assessments, Portfolio, (all other) - % 85

• Participation / attendance - % 15 (school attendance policy)

There is no extra credit. Do the assignments, do them well and on time. No makeup work the last 5 days of any grading period.

There are two grading categories: participation and (all other) that includes tests, classwork, labs, portfolio, etc.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	[Introduce Yourself](#)	Discussion	0

Grading Scale

Grading Scale:

A = 100 - 93% B- = 83% - 81% D+ = 71% - 69%

A- = 92% - 90% C+ = 80% - 78% D = 68% - 66%

B+ = 89% - 87% C = 77% - 75% D- = 65% - 63%

B = 86% - 84% C- = 74% - 72% F = 62% or below

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

Advising and Counseling Support Services

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

Student Academic Calendar

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)