

Florida National College
Computer Division
 Computer Certificate
 AUTOCAD

The students will use the AutoCAD software to take an idea from concept to product in various engineering disciplines including mechanical, architectural, civil, pipe and electronics. Topics covered include: AutoCAD tools, 2D commands, and introduction to 3D modeling, isometric drawing, and creating slideshows. Extensive coverage of dimensioning and GD&T will also be covered.

Course	Course Name	Credits	Hours
ATC101	Basic Computer Skills	2	60
ATC102	Introduction to Technical Drawing	2	60
ATC 103	Introduction to AutoCAD	2	60
ATC 104	Precision and Efficiency with AutoCAD	2	60
ATC105	Dimensioning and Plotting with AutoCAD	2	60
ATC106	AutoCAD Applications	2	60
ATC107	AutoCAD Projects	2	60
ENG 100	Basic Grammar and Composition	2	60
Total		16	480

Course	Competencies	Course Outline
ATC102	At the end of the course the students will be able to understand the basic concepts of the technical drawings as well as the concepts of scale, views and conventional symbols most common used in architectural and structural drawing.	<ol style="list-style-type: none"> 1. Scales 2. Views 3. Symbols
ATC 103	At the end of the course the students will be able to understand the basic concepts of CAD. They will be able to use the basic drawing and editing commands to perform simple drawings	<ol style="list-style-type: none"> 1. Quick Tour of AutoCAD 2. Understanding AutoCAD Concepts. 3. Setting up Drawings 4. Drawing with Basic Concepts
ATC 104	At the end of the course the students will be able to understand the basic concepts and commands that allow a precise and efficient drawing.	<ol style="list-style-type: none"> 1. Drawing with Precision 2. Drawing with Efficiency 3. Changing Objects Properties 4. Correcting Mistakes 5. Direct Editing of Objects 6. Constructing Objects 7. Additional Editing Objects 8. Placing and Editing Text
ATC105	At the end of the course the students will be able to understand the basic concepts and commands that allow place and edit dimensions in a drawing as well as to perform calculations on that drawing.	<ol style="list-style-type: none"> 1. Placing Dimensions 2. Editing Dimensions 3. Geometric Dimensions and Tolerances 4. Tables and Fields 5. Reporting on Drawings 6. Working with Layouts 7. Plotting Drawings
ATC106	At the end of this course the students will be able to apply AutoCAD as an architectural and engineering drawing tool with increased efficiency and accuracy.	<ol style="list-style-type: none"> 1. Engineering Applications 2. Architectural Applications
ATC107	At the end of the course the students will be able to perform on dimension and editing a complex drawing using AutoCAD	Project I Project II
ATC101	At the end of the course the students will acquire the necessary computer knowledge to operate the AUTOCAD correctly.	
ENG 100	Sentence construction, principles of basic grammar, the writing of paragraphs and other basic writing skills as determined by the instructor.	