

Course Outline

CADD 231

AutoLISP[®]

3 semester hours

The Community College of Baltimore County

Description

AutoLISP[®]

Introduces a programming language used to develop advanced drawing and customizing techniques designed to increase productivity in AutoCAD[®]; discusses basic principles of AutoLISP[®] programming.

3 credits; 2 lecture hours and 3 laboratory hours per week. Prerequisites: CADD 101 and CADD 121. Offered fall semester only.

Overall Course Objectives

Upon completion of this course the student will be able to:

1. Discuss the history of LISP and AutoLISP[®].
2. Explain the concept of structured programming.
3. Write AutoLISP[®] programs.
4. Debug AutoLISP[®] programs.
5. Define data types.
6. Examine data lists.
7. Perform string manipulations and conversions.
8. Program angle and distance conversions.
9. Create programmable dialogue boxes.
10. Discuss file input/output (I/O) functions.

Major Topics

1. AutoLISP[®] and LISP History
2. Structured Programming
3. Programming and Debugging Techniques
4. Arithmetic Functions
5. Defining Data Types
6. Local and Global Variable Assignments
7. Examining Data Lists
8. Logic Operators

9. Programming Branching and Looping

10. String Manipulations and Conversions
11. System Variables
12. Entity Creation and Extraction
13. File I/O
14. Symbol Tables
15. Programmable Dialogue Boxes
16. Graphic Screen and Input Functions

Course Requirements

Grading/Exams: Grading procedures will be determined by the individual faculty member and will include the following:

1. Graded exercises
2. Periodic tests
3. Comprehensive final examination
4. Programs

Other Course Information

This course is a core course in the CADD curricula.
This course is taught in a computerized environment.
There are 2 lecture and 3 laboratory hours per week.