

Computer Programming Concepts

Outline of Instruction

Course Information

Organization	MONROE COUNTY COMMUNITY COLLEGE
Developers	Greg Leinbach Chuck Kelly
Development Date	10/23/2009
Course Number	CIS 132
Division	Business
Potential Hours of Instruction	45
Total Credits	3

Description

This course provides an introduction to computer programming design and the coding of computer programs. Students will design solutions to computer problems using pseudocode, flowchart symbols and hierarchy charts. These solutions will then be coded, executed and debugged.

Prerequisites

MATH 121 or Higher, or BSMTH 101 or achieve a score on the COMPASS or ACT which satisfies current college general requirements for graduation.

Exit Learning Outcomes

Program Outcomes

- A. Demonstrate and utilize necessary technical knowledge and skills both in breadth and depth, to pursue the practice or advanced study of computer science

Course Outcomes

1. Identify and use logic design tools
2. Construct the logic for a variety of program problems
3. Draw flowcharts using standard flowchart symbols
4. Construct pseudocode solutions
5. Identify the concepts of structured programming
6. Identify the basic components of a computer
7. Write computer programs
8. Identify fundamental data types
9. Write input and output statements
10. Write assignment statements
11. Write decision statements
12. Write repetition statements
13. Use functions in the standard library
14. Write functions
15. Draw hierarchy charts
16. Recognize definitions from a list of glossary terms