Miami Dade College

Course Description

COP1120 | Introduction to COBOL Programming | 4.00 credits

This is an introductory course in COBOL programming recommended for students majoring in Information Technology and Computer Information Systems. Students will learn how to design, code, compile, and execute structured programs for business applications. Recommended preparation: CGS1060C or experience working with computers and knowledge of elementary algebra. Pre/Co-requisite: CGS 1060C.

Course Competencies

Competency 1: The student will demonstrate an understanding of the program development process by:

1. Writing pseudocode for program development before writing the code.
2. Applying the techniques of functional decomposition to break a programming design problem into smaller functions of processes.
3. Writing adequate and meaningful comments into the source code of programming projects.
4. Identifying and developing a solution to a problem in a collaborative team setting.
5. Testing and debugging programming logic and code.

Competency 2: The student will demonstrate an understanding of the COBOL environment by:

1. Describing and coding entries for the identification division.
2. escribing and coding entries for the environment division.
3. escribing and coding entries for the data division.
4. escribing and coding entries for the working storage section.
5. escribing and coding entries for the procedure division.…

Competency 3: The student will demonstrate the ability to compile, test, and debug a COBOL program by:

1. Writing programs that contain the identification, environment, data and procedure divisions.
2. Compiling and running a program.
3. Reviewing and analyzing compiler error messages.
4. sing debugging tools to correct runtime errors.

Competency 4: The student will demonstrate an understanding of loops by:

1. Writing structured programs using perform until.
2. Reviewing structured programs with loops and determining the results.
3. Developing programs that use nested loops.

Competency 5: The student will demonstrate an understanding of conditional statements by:

1. Writing programs that use if, else if, and else statements to evaluate conditions.
2. Writing programs that use comparison operators (=, <, >, <=, >=) in conditional statements.
3. Developing programs that use nested conditional statements.
4. Writing programs that use logical operators (and, not, or) in conditional statements.
5. Developing programs that produce a single level control break.

Competency 6: The student will demonstrate the ability to use tables by:

1. Writing programs that use a one-level table.
2. Writing programs that use multi-level tables

Competency 7: The student will demonstrate an understanding of how to work with sequential files by:

1. Writing programs that read an existing sequential file.

2. Writing programs that create a sequential file.
3. Developing programs that produce formatted reports.

Learning Outcomes:

1. Computer / Technology Usage
2. Critical Thinking
3. Numbers / Data