

NorthWest Arkansas Community College
Business & Computer Information Systems Division
Computer Information Department Course Outline
PROG 1503 COBOL PROGRAMMING (On Demand)

Catalog Description

COBOL (Common Business Oriented Language) is a high-level programming language used extensively in programming business applications. In this course students are expected to design, document, and write structured programs using COBOL. Emphasis will be placed on structure and correct design using typical business applications. Outside lab time will be required.

Prerequisites

PROG 1003-Introduction to Programming Logic, or prior programming experience.

Credit hours/Contact hours/Load hours

3/3/3

Target Audience/Transferability

This course is for students seeking training in programming languages, applicable to students seeking self-improvement or an AAS degree in Computer Information.

Student Learning Outcomes

Students will:

- Demonstrate competence of microcomputer programming concepts using COBOL.
- Design, create, code, update, and maintain programs written using a structured format
- Design a program for a given task
- Analyze a program's output for accuracy
- Use debugging techniques to find errors and fix in code
- Use basic algebra and math
- Use listening, reading, and writing skills to complete assignments
- Use time management skills to submit assignments by due date
- Articulate and define the speed and accuracy of work accomplished with the aid of a personal or mainframe computer to provide services to users in a timely manner
- Demonstrate COBOL as both a legacy programming language and a necessary language to keep financial and retail institutions running

Topics

- Program Development
- Top Down Design – Hierarchy Charts
- Program Divisions
- IF, MOVE, and Data Validation
- Arithmetic Calculations
- Branching
- SORT and MERGE
- Tables and Control Breaks
- Data manipulation and Sequential File Maintenance
- Indexed Files

Forms of Assessment

Exams, Quizzes, Homework, Programming assignments, and Final course programming project
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