

**NorthWest Arkansas Community College
Business and Computer Information Course Outline**

PROG 1003 BEGINNING BASIC PROGRAMMING (On Demand)

Catalog Description

An introductory lab course on computer program design and development. The student will write computer programs as tools for problem solving. Programs will be written using hierarchy, flow charts and programming codes. Programs will be tested and debugged. (Outside lab time will be required.)

Prerequisite

CISQ 1103 Introduction to Computer Information
ACSK 0103 (may be co-requisite)

Credit Hours: 3

Target Audience and Transfer

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

General Course Objectives

Knowledge:

Demonstrate competence of microcomputer programming concepts using Qbasic
Design, create, update, and maintain programs written using a structured format

Critical Thinking:

Design a program for a given task
Analyze the output for accuracy

Academic Skills:

Basic math and algebra

Required Text(s)

QBASIC *Fundamentals and Style* 2nd Edition By Quasney, Maniotes, and Foreman -
Course Technology Publisher

Topics

Computers and Problem Solving	Menu Programming
Beginning BASIC Commands	Sequential File
Variables and Calculations	Control Breaks, Arrays, and Sorting
Top Down Design Hierarchy Charts/ Flow charts	File Maintenance
Subroutines and Looping	Random Files
	Subprograms

Instructional Activities

Computer Lab: Students will require additional time in the computer lab to complete Programming projects.
Projects/ Assignments: Outside programming projects plus Final Programming project.

Required Assessment

Final Programming Project