

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

PROG 1303 WEB PROGRAMMING I (On Demand)

Catalog Description

This course will introduce the student to basic programming logic, techniques and languages used to create dynamic pages for the World Wide Web. Covered topics may include client side scripting, Java Applets, DHTML, XML and/or other basic topics of dynamic WWW pages depending on developments occurring on the WWW. (Outside lab time will be required.)

Prerequisite: CISM 1213 Web Page Design I

Credit Hours: 3

Target Audience

This course is for students seeking training in programming languages and greater training in the manipulation of the World Wide Web, applicable to students seeking self-improvement or an AAS degree in Computer Information.

General Course Objectives

Knowledge:

Demonstrate competence of microcomputer programming concepts by creating Web Pages.
Design, create, code, update, and maintain programs written using a structured format.
Learn the Dynamic elements usable on the client side of the World Wide Web.

Critical Thinking:

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

Academic Skill:

Use basic algebra and math.

Cultural Awareness:

Appreciate the speed and accuracy of work accomplished with the aid of a personal computer.

Required Text(s)

JavaScript 3rd Edition, Don Gosselin, TL/Course Technology: 2004. ISBN 0-619-21521-6.

Possible Topics

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|-------------------------|--------------------------|
| Program Development | Dynamic HTML |
| Program Divisions | Java Scripts |
| Arithmetic Calculations | Java Applets |
| Data Manipulation | Common Gateway Interface |
| File Manipulation | |

Instructional Activities

Computer Lab: Students will require additional time in the computer lab to complete Programming projects.
Projects/ Assignments: Outside programming projects plus a Final Programming project producing a multi-page Web Site