

NorthWest Arkansas Community College  
Business & Computer Information Systems Division  
**Computer Information Department Course Outline**

**PROG 2303 WEB SERVER–SIDE PROGRAMMING  
(S-Even Years)**

***Catalog Description***

This course will cover the creation and manipulation of server-side scripting and database manipulation to create responsive web pages. PHP, ASP, PERL, C++ or other languages being used for scripting may be used. Students will learn to manipulate form data, create log-in scripts, manipulate databases and use cookies among other dynamic WWW techniques. (Outside lab time will be required.)

***Prerequisites***

CISM 1403, or CISM 2123, or PROG 1303 (recommended) or PROG 1003

***Credit hours/Contact hours/Load hours***

3/3/3

***Target Audience/Transferability***

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.

***Student Learning Outcomes***

The student will:

- Develop and design appropriate decision and looping structures, procedures and functions
- Describe a given programs purpose
- Debug a given program
- Create a program to read given data from an external server-side file
- Create a program to write given data from an external server-side file
- Load given data onto a dynamic Web page
- Read data from a form on a Web page form into server-side variables or files
- Create programs to dynamically load elements as the user browses the site given dynamic parameters for a Web page

***Topics***

- Uses of Sever Side Scripts & Client Side scripts to control input to them
- Creation, use and need of Dynamic Web Pages
- Modification of existing scripts to desired purpose
- Data manipulation and communication using the WWW
- Data protection using cookies, encryption, secure connections and other methods

***Forms of Assessment***

Outside programming projects

Final Programming project producing a dynamic Web Site with personalized output and safe data transmission