



**COWLEY COLLEGE
& Area Vocational Technical School**

COURSE PROCEDURE FOR

<p>WEB PROGRAMMING CWB1849 3 Credit Hours</p>
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Student Level:

This course is open to students on the college level in either the freshman or the sophomore year.

Catalog Description:

CWB 1849 - WEB PROGRAMMING (3 hrs)

This course will provide the student with skills that are highly in demand by learning to build dynamic, data-driven Web sites using two of the most popular open source technologies available: PHP and MySQL. Students will learn essential programming concepts by designing and building a full-featured Web site powered by PHP and MySQL.

Prerequisites:

CWB 1835 Beginning Web Design, a CNP course, and a CIS programming course

Controlling Purpose:

This course introduces essential programming concepts by designing and building a full-featured Web site powered by PHP and MySQL. The student will explore fundamental PHP techniques, such as variable definition, loops, arrays, and programming logic. Once the student has learned these skills, they will design and implement a working database using MySQL. Then, they will web enable that database by integrating it with PHP.

Learner Outcomes:

The student will learn:

- A. Install and have a general understanding of PHP, MySQL, and the Apache Web server
- B. Develop a Web development project plan
- C. Create a Web form that writes the information to a text file
- D. Apply simple rules of logic
- E. Learn essential statements used to manipulate data within a database
- F. Program a PHP page that allows you to Web-enable a MySQL database
- G. Code the site's infrastructure
- H. Develop the portion of the site that allows customers to perform online searches

Units Outcomes and Criterion Based Evaluation Key for Core Content:

The following defines the minimum core content not including the final examination period. Instructors may add other content as time allows.

Evaluation Key:

- A = All major and minor goals have been achieved and the achievement level is considerably above the minimum required for doing more advanced work in the same field.
- B = All major goals have been achieved, but the student has failed to achieve some of the less important goals. However, the student has progressed to the point where the goals of work at the next level can be easily achieved.
- C = All major goals have been achieved, but many of the minor goals have not been achieved. In this grade range, the minimum level of proficiency represents a person who has achieved the major goals to the minimum amount of preparation necessary for taking more advanced work in the same field, but without any major handicap of inadequacy in his background.
- D = A few of the major goals have been achieved, but the student’s achievement is so limited that he is not well prepared to work at a more advanced level in the same field.
- F = Failing, will be computed in GPA and hours attempted.
- N = No instruction or training in this area.

UNIT 1: Install and have a general understanding of PHP, MySQL, and the Apache Web server						
Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:						
A	B	C	D	F	N	Specific Competencies
						Successfully install PHP
						Successfully install MySQL
						Successfully install Apache Web server

UNIT 2: Develop a Web development project plan

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies:
						Plan considerations for a web-based project
						Develop the project plan
						Finalize the project plan

UNIT 3: Create a Web form that writes the information to a text file

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies:
						Work with data
						Create a dynamic web form
						Write data to a file

UNIT 4: Apply simple rules of logic

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies
						Program code logic
						Work with comparison operators and conditional statements
						Work with loops

UNIT 5: Learn essential statements used to manipulate data within a database

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies
						Understand what arrays are and why use them
						Work with arrays
						Manipulate arrays

UNIT 6: Program a PHP page that allows you to Web-enable a MySQL database

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies
						Create a MySQL database
						Create tables with a database
						Create users and assigning their access rights to a database or tables
						Establish a connection to the MySQL database
						Use the INSERT, SELECT, UPDATE, and DELETE statements
						Create a Web form
						Store form data in a database
						Map functional requirements to PHP and MySQL

UNIT 7: Code the site's infrastructure

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies
						Design the general HTML site structure
						Design the site's home page
						Design various customer data input forms
						Consider the underlying MySQL database structure

UNIT 8: Develop the portion of the site that allows customers to perform online searches

Outcomes: Upon completion of the unit, the students will be able to successfully demonstrate the ability to:

A	B	C	D	F	N	Specific Competencies
						Populate the database inventory table
						Code the inventory_search.php Page
						Analyze the inventory_search.php Code

Projects Required:**Textbook:**

Contact Bookstore for current textbook.

Materials/Equipment Required:

Windows 2000 or Windows XP, an ability to install applications on a PC with at least a Pentium IV 1.0 GHz processor and 256MB of RAM, Internet access, e-mail, and the Netscape, Firefox or Internet Explorer Web browser.

Attendance Policy:

Students should adhere to the attendance policy outlined by the instructor in the course syllabus.

Grading Policy:

The grading policy will be outlined by the instructor in the course syllabus.

Maximum class size:

Based on classroom occupancy

Course Timeframe:

The U.S. Department of Education, Higher Learning Commission and the Kansas Board of Regents define credit hour and have specific regulations that the college must follow when developing, teaching and assessing the educational aspects of the college. A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally-established equivalency that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work for approximately fifteen weeks for one semester hour of credit or an equivalent amount of work over a different amount of time. The number of semester hours of credit allowed for each distance education or blended hybrid courses shall be assigned by the college based on the amount of time needed to achieve the same course outcomes in a purely face-to-face format.

Refer to the following policies:

[402.00 Academic Code of Conduct](#)

[263.00 Student Appeal of Course Grades](#)

[403.00 Student Code of Conduct](#)

Disability Services Program:

Cowley College, in recognition of state and federal laws, will accommodate a student with a documented disability. If a student has a disability, which may impact work in this class which requires accommodations, contact the Disability Services Coordinator.