

GENERAL INFORMATION			
Name: Loorna De Duluc	Phone #: 305-237-3928		
Course Prefix/Number: COP 2842	Course Title: DEVELOPING WEB SITES USING PHP/MYSQL		
Number of Credits: 4			
Degree Type	<input type="checkbox"/> B.A. <input type="checkbox"/> B.S. <input type="checkbox"/> B.A.S <input type="checkbox"/> A.A. <input checked="" type="checkbox"/> A.S. <input type="checkbox"/> A.A.S. <input type="checkbox"/> C.C.C. <input type="checkbox"/> A.T.C. <input type="checkbox"/> V.C.C		
Date Submitted/Revised: 04/28/2008	Effective Year/Term: 2008-2009		
<input checked="" type="checkbox"/> New Course Competency <input type="checkbox"/> Revised Course Competency			
Course to be designated as a General Education course (part of the 36 hours of A.A. Gen. Ed. coursework): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
The above course links to the following Learning Outcomes: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Communication <input checked="" type="checkbox"/> Numbers / Data <input checked="" type="checkbox"/> Critical thinking <input checked="" type="checkbox"/> Information Literacy <input type="checkbox"/> Cultural / Global Perspective </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Social Responsibility <input checked="" type="checkbox"/> Ethical Issues <input checked="" type="checkbox"/> Computer / Technology Usage <input type="checkbox"/> Aesthetic / Creative Activities <input type="checkbox"/> Environmental Responsibility </td> </tr> </table>		<input type="checkbox"/> Communication <input checked="" type="checkbox"/> Numbers / Data <input checked="" type="checkbox"/> Critical thinking <input checked="" type="checkbox"/> Information Literacy <input type="checkbox"/> Cultural / Global Perspective	<input type="checkbox"/> Social Responsibility <input checked="" type="checkbox"/> Ethical Issues <input checked="" type="checkbox"/> Computer / Technology Usage <input type="checkbox"/> Aesthetic / Creative Activities <input type="checkbox"/> Environmental Responsibility
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Course Description (limit to 50 words or less, must correspond with course description on Form 102): This is an intermediate course which provides students the opportunity to create web sites. Students will learn to develop dynamic, interactive web sites using PHP 5 an open source programming language and MySQL database. A.S. degree only.			
Prerequisite(s): COP-1822 (basic HTML or any beginning programming language)	Corequisite(s):		

Course Competencies: (for further instruction/guidelines go to: <http://www.mdc.edu/asa/curriculum.asp>)

Competency 1: The student will demonstrate an understanding of the web development environment by:

1. Creating web pages using HTML, XHTML, CSS, and DTDs.
2. Describing client/server architecture including the role/function of web browsers, web servers and communication protocols.
3. Differentiating between client-side and server-side scripting.

Competency 2: The student will demonstrate an understanding of PHP within a dynamic web environment by:

1. Identifying the requirements and components for installing Apache, PHP and MySQL on a server-based operating system.
2. Describing the function of the Apache web server supporting PHP and MySQL.
3. Creating basic PHP scripts.

Competency 3: The student will demonstrate an understanding of PHP scripting language elements by:

1. Describing the PHP syntax.
2. Explaining the use of variables, constants, data types, operators, functions, arrays, and flow control in simple PHP programs.
3. Creating expressions using arithmetic, conditional, comparison operators.

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Competency 4: The student will demonstrate an understanding of functions and control structures by:

1. Developing programs that incorporate function definitions, function calls, and function returning values.
2. Creating programs that use if, else if, and else statements to evaluate conditions, and use logical operators (and, not, or) in conditional statements.
3. Creating programs that use while, do-while and for loops to create repetition.

Competency 5: The student will demonstrate an understanding of strings by:

1. Explaining string syntax.
2. Describing how to construct strings.
3. Using functions to manipulate strings.
4. Using strings to handle form submissions.

Competency 6: The student will demonstrate an understanding of arrays by:

1. Manipulating array elements.
2. Using and manipulating associative and multi-dimensional arrays.

Competency 7: The student will demonstrate an understanding of files and directories by:

1. Creating programs that manipulate files, e.g. create, open, read data from files, and write data to files.
2. Identifying file and directory information, and renaming and removing files from directories.

Competency 8: The student will demonstrate an understanding of databases and MySQL by:

1. Describing relational databases.
2. Designing and creating a relational database.
3. Creating a database using MySQL.

Competency 9: The student will demonstrate how to manipulate a MySQL database with PHP by:

1. Generating connections to a MySQL database with PHP.
2. Analyzing MySQL Errors.
3. Executing SQL statements with PHP.
4. Creating and deleting databases and tables with PHP.
5. Manipulating database records with PHP.

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