

## Course Competencies Template - Form 112

| GENERAL INFORMATION   |   |   |   |
|---|---|---|---|
| Name: Diane King  | Phone #: 7-7021   |   |   |
| Course Prefix/Number: COP2823   | Course Title: ASP/Script Language Programming   |   |   |
| 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.<br><input type="checkbox"/> C.C.C. <input type="checkbox"/> A.T.C. <input type="checkbox"/> V.C.C |   |   |
| Date Submitted/Revised: 06/21/2010  | Effective Year/Term: 2010-2   |   |   |
| <input 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<br/> <input type="checkbox"/> Numbers / Data<br/> <input checked="" type="checkbox"/> Critical thinking<br/> <input type="checkbox"/> Information Literacy<br/> <input type="checkbox"/> Cultural / Global Perspective             </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Social Responsibility<br/> <input type="checkbox"/> Ethical Issues<br/> <input checked="" type="checkbox"/> Computer / Technology Usage<br/> <input type="checkbox"/> Aesthetic / Creative Activities<br/> <input type="checkbox"/> Environmental Responsibility             </td> </tr> </table> |   | <input type="checkbox"/> Communication<br><input type="checkbox"/> Numbers / Data<br><input checked="" type="checkbox"/> Critical thinking<br><input type="checkbox"/> Information Literacy<br><input type="checkbox"/> Cultural / Global Perspective | <input type="checkbox"/> Social Responsibility<br><input type="checkbox"/> Ethical Issues<br><input checked="" type="checkbox"/> Computer / Technology Usage<br><input type="checkbox"/> Aesthetic / Creative Activities<br><input type="checkbox"/> Environmental Responsibility |
| <input type="checkbox"/> Communication<br><input type="checkbox"/> Numbers / Data<br><input checked="" type="checkbox"/> Critical thinking<br><input type="checkbox"/> Information Literacy<br><input type="checkbox"/> Cultural / Global Perspective   | <input type="checkbox"/> Social Responsibility<br><input type="checkbox"/> Ethical Issues<br><input checked="" type="checkbox"/> Computer / Technology Usage<br><input type="checkbox"/> Aesthetic / Creative Activities<br><input type="checkbox"/> Environmental Responsibility                   |   |   |
| Course Description (limit to 50 words or less, <u>must</u> correspond with course description on Form 102):<br>This course will teach Microsoft Visual Basic® programmers and beginning Web developers the fundamentals of Web application development by using Microsoft ASP.NET and Microsoft Visual Basic .NET. Students will learn how to use the Microsoft Visual Studio® .NET environment and the Microsoft .NET platform to create an ASP.NET Web application that delivers dynamic content to a Web site. Prerequisite: CGS 1060, CIS1321, COP1332. Laboratory fee (3hr. lecture; 2hr lab).   |   |   |   |
| Prerequisite(s): CGS 1060, CIS1321, COP1332   | 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 Microsoft .NET Framework, Visual Studio .NET and ASP.NET by:

1. Identifying the components the .NET Framework, Visual Studio .NET and ASP.NET.
2. Explaining the advantages of using ASP.NET and Visual Studio .NET in the .NET Framework.
3. Describing the purpose of ASP.NET when developing Web applications.
4. Explaining the basic functionality when developing ASP.NET Web applications.
5. Creating an ASP.NET Web Application project using Visual Studio .NET.

**Competency 2:** The student will demonstrate the ability to create Microsoft ASP .NET Web Form by:

1. Comparing the .NET-based languages that support ASP.NET.
2. Identifying the components of ASP.NET Application.
3. Distinguishing and describing the differences between HTML Controls and Server Controls.
4. Creating the default.aspx Web Form.
5. Creating the life.aspx Web Form using Server Controls.
6. Adding a Web Form to an ASP.NET Web Application.

**Revision Date:** 09-11-2009

Approved By Academic Dean Date: \_\_\_\_\_

Reviewed By Director of Academic Programs Date: \_\_\_\_\_

**Competency 3:** The student will demonstrate the ability to add code to a Microsoft ASP.NET Web Form by:

1. Creating an ASP.NET page.
2. Applying the ASP.NET page execution.
3. Describing Page Class and Stages in page processing.
4. Using code-behind pages in an ASP.NET Web Application.
5. Adding Event-Procedures to Web Server Controls.
6. Using Page events in an ASP.NET Web Application.
7. Using built-in ASP.NET objects.
8. Explaining the function of User Controls and applying them.
9. Creating a Cascading Style Sheet (CSS).

**Competency 4:** The student will demonstrate the ability to create and process Web Forms using Server Controls by:

1. Adding HTML Server Controls to the Web Form.
2. Adding Web Server Controls to the Web Form.
3. Setting properties to the Controls.
4. Setting styles on ASP.NET pages by using Cascading Style Sheets.
5. Creating User Controls.
6. Adding User Controls to an ASP.NET Web Form.

**Competency 5:** The student will demonstrate an understanding of validating User Input by:

1. Using Client-side validation controls to screen data (not reliable).
2. Using Server-side validation controls to screen data:
  - a. RequiredFieldValidator Control.
  - b. ValidationSummary Control.
  - c. CompareValidator Control.
  - d. RegularExpressionValidator Control.
3. Identifying when input validation is appropriate in Web Forms.
4. Verifying that all validation controls on a page are valid.
5. Learning the validation properties of the server controls.

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