**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: PRGM 1033

Course Title: Web Programming

Credit Hours: 3

Prerequisite: Computer experience

Division/Discipline: WTCE

Course Description: Web Programming provides an in-depth coverage of client side scripting and an introduction to server side scripting. Topics covered include HTML5, Cascading Style Sheets (CSS), JavaScript, Canvas, mobile applications, and PHP.

# **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course introduces students to client-side scripting for a web page. It is designed for any student who wants to create dynamic web pages. This course serves as a major elective to students in the Computer Science and Computer Information Systems programs at Barton Community College.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Describe the evolution of the World Wide Web and web technologies
   1. List the major milestones in the development of the web
   2. Recognize current and past web technologies
2. Recognize HTML 5 tags
   1. Describe the basic outline of a web page
   2. Identify HTML 5 tags for common markups including headings, linking, images, lists, tables, and forms
   3. Identify tags that conform to WC3 standards
3. Identify components of Cascading Style Sheets (CSS)
   1. Recognize different implementations of CSS
   2. Demonstrate the construction of CSS
4. Use JavaScript to create dynamic web pages
   1. Recognize JavaScript components
   2. Employ JavaScript control structures in a web page
   3. Recognize proper use of arrays, functions and objects
   4. Demonstrate Event handling in JavaScript
5. Employ Canvas in a web page
   1. Construct shapes in Canvas
   2. Add and manipulate images using transformations
6. Identity server side scripting components and their interaction
   1. Describe the client-server interaction in server side scripting
   2. Recognize popular server-side scripting languages
7. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

1. **COURSE OUTLINE**