

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CTEC 149

Credit Hours: 3-3-0

Course Title: Web Scripting

Prerequisite: CTEC 130

Textbook(s): No Book

Course Description: This course has been designed to teach students how to use the features of the JavaScript language to design client-side, platform-independent interactivity on Web pages. Students will understand and use the most popular applications of JavaScript to communicate with users, modify the Document Object Model (DOM), validate forms, animate images, create cookies, change HTML on the fly, and communicate with databases. In addition, this class will help students gain the skills required for the internationally recognized CIW JavaScript Specialist certification exam. This certificate is one of the certificates required to earn the advanced CIW Web Development Professional certification and is optional at the conclusion of the course.

Learning Outcomes:

At the end of this course, the student will:

- A. recognize essential JavaScript principles and practices;
- B. demonstrate intermediate JavaScript programming techniques;
- C. implement Advanced JavaScript techniques; and
- D. recognize JavaScript technology extensions.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

- 1. describe characteristics of JavaScript and common programming practices (A);
- 2. use variables and data in JavaScript (A);
- 3. use JavaScript functions, methods, and events (A);
- 4. use JavaScript statements to control program flow (A);
- 5. use elements of the JavaScript Browser Object Model (BOM) (B);
- 6. use the JavaScript Document Object Model (DOM) (B);
- 7. use JavaScript to develop interactive forms (B);
- 8. modify HTML with JavaScript (B);
- 9. create and use custom JavaScript objects (C);
- 10. use JavaScript language objects and create expressions (C);
- 11. debug and troubleshoot JavaScript code (C);
- 12. describe JavaScript security issues involving browsers and cookies (C); and
- 13. implement JavaScript libraries such as jQuery and Ajax (D).

Course Requirements:

- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.
- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

Course Grading Scale:

- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 - 59

Attendance Policy:

Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for [Attendance Policy](#).

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

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Coordinator for SECTION 504 AND ADA

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Equity/Compliance Coordinator

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