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): *JavaScript and JQuery: Interactive Front-End Web Development*. Jon Duckett, pub: *John Wiley & Sons, Inc.*, 2015. ISBN: 978-1-118-53164-8.

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:
1. A student must successfully complete the course with an average of 70% or above on the combined learning outcomes.
2. Each student is expected to attend classes regularly; excessive unexcused absences constitute grounds for suspension (refer to the student handbook for attendance policies).

Course Grading Scale:
90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
0 – 59 = F

Attendance Policy: The college attendance policy is available at http://www.bpcc.edu/catalog/current/academicpolicies.html

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.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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