SYLLABUS

DATE OF LAST REVIEW: 2/15/2013

CIP CODE: 11.0801

SEMESTER: Departmental Syllabus

COURSE TITLE: JavaScript

COURSE NUMBER: CIST0152

CREDIT HOURS: 3

INSTRUCTOR: Departmental Syllabus

OFFICE LOCATION: Departmental Syllabus

OFFICE HOURS: Departmental Syllabus

TELEPHONE: Departmental Syllabus

EMAIL: Departmental Syllabus

KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITE(S): CIST-0137 HTML: Web Page Development

REQUIRED TEXT AND MATERIALS: Please check with the KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION:
JavaScript examines client-side JavaScript programming techniques. Students learn how to seamlessly integrate JavaScript code with HTML to bring interactivity to web pages. Students will learn how to use the Document, Navigator, Window, Location and History Objects, set and read Cookies, create image rollovers, write functions, and validate forms

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
I. Introduction to JavaScript
   A. Definition. Navigator, Location and History objects.
   B. Syntax
   C. Handling events
   D. Where to put scripts
   E. Browser detection and conditionals
   F. Alert and confirm methods

II. Special Effects with Images and Arrays
   A. Creating rollovers
   B. Creating cycling banners
   C. Building slide shows
   D. Combining a rollover with an image map
   E. Creating an image array

III. Functions and Programming with Windows
   A. Opening and Closing Windows
   B. Updating one window from another
   C. Creating a control panel
   D. Writing Functions

IV. Frames
   A. Creating and loading a dynamic frame
   B. Keeping a page out of a frame
   C. Forcing a page into a frame
   D. Sharing functions between frames
   E. Using Variables & Operators
   F. Using Expressions & Operators
   G. Using Statements

V. Forms and Form elements
   A. Validating forms
   B. Select menu items
   C. Using radio buttons
   D. Setting one field with another
   E. Verifying passwords

VI. JavaScript and Cascading Style Sheets
   A. Dynamically updating a page
   B. Moving an object
   C. Moving text in the browser
   D. Modifying a CSS drop shadow and glow

VII. Documents and their contents; Compatibility Techniques; Debugging
   A. The Document Object Model
   B. Using the .js extension
   C. Common errors and how to fix them

VII. Cookies
   A. Writing cookies
   B. Reading cookies
   C. Using cookies to maintain “state”
D. Deleting cookies

EXPECTED LEARNER OUTCOMES:
A. The student will be able to define JavaScript.
B. The student will be able to describe JavaScript syntax.
C. The student will be able to describe alert and confirm methods.
D. The student will be able to define special effects with images and arrays.
E. The student will be able to explain functions and programming with Windows.
F. The student will be able to write simple Functions.
G. The student will be able to summarize Frames.
H. The student will be able to summarize the use of Forms.
I. The student will be able to describe the use of JavaScript and Cascading Style Sheets.
J. The student will be able to explain key concepts of debugging JavaScript.
K. The student will be able to distinguish different “cookies”.

COURSE COMPETENCIES:
Upon successful completion of this course:

The student will be able to define JavaScript.
1. The student will be able to define JavaScript.
2. The student will be able to define where “scripts” are placed.
3. The student will describe the use of “alert and confirm” methods.

The student will be able to describe JavaScript syntax.
4. The student will be able to describe JavaScript syntax.
5. The student will be able to demonstrate the proper use of JavaScript syntax.

The student will be able to describe “alert” and “confirm” methods.
6. The student will be able to create an alert.
7. The student will be able to create a validation confirm.

The student will be able to define special effects with images and arrays.
8. The student will be able to create a rollover.
9. The student will be able to create an image array.
10. The student will be able to build a slide show.

The student will be able to explain functions and programming with Windows.
11. The student will be able to describe the use of functions and programming in Windows.
12. The student will be able to create a control panel.
13. The student will be able, by programming, to update one window from another.

The student will be able to write simple Functions.
14. The student will be able to write simple functions.

The student will be able to summarize Frames.
15. The student will be able to summarize Frames.
16. The student will demonstrate the use of Variables and Operators.
17. The student will demonstrate the use of Expressions and Operators.
18. The student will demonstrate the use of Statements.

The student will be able to summarize the use of Forms.
19. The student will be able to describe the use of Forms.
20. The student will demonstrate the ability of validating a form.
21. The student will demonstrate the ability of verifying a password.
22. The student will be the ability of using radio buttons and menu items.

The student will be able to describe the use of JavaScript and Cascading Style Sheets.
23. The student will describe the use of JavaScript and cascading Style Sheets.
24. The student will demonstrate the ability to move an object.
25. The student will demonstrate the ability to modify CSS in a web page.

The student will be able to explain key concepts of debugging JavaScript.
26. The student will be able to explain key concepts of debugging JavaScript.
27. The student will be able to describe common errors and how to fix them.
28. The student will be able to describe the “Document Object Model”.

The student will be able to distinguish different “cookies”.
29. The student will be able to demonstrate the ability to write “cookies”.
30. The student will be able to demonstrate the ability to read “cookies”.
31. The student will be able to demonstrate the ability to delete “cookies”.

**ASSESSMENT OF LEARNER OUTCOMES:**

Student progress is evaluated by means that include, but are not limited to, exams, written assignments, and class participation.

**SPECIAL NOTES:**

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

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