

HUDSON VALLEY COMMUNITY COLLEGE
TROY, NEW YORK

COURSE OUTLINE

COURSE TITLE: Web Design - Client Side Programming with JavaScript

COURSE SUBJECT AND NUMBER: CISS 221

DEPARTMENT: Computing and Information Sciences

CREDIT HOURS: 3

CONTACT HOURS: 3 Lecture

SEMESTER COURSE IS OFFERED: X Fall X Spring X Summer

OFFERED DISTANCE LEARNING: X Yes _____ No

PREREQUISITES (list): X Yes _____ No

CISS 110 Programming and Logic I and CISS 220 Introduction to Web Design and Development or permission of CIS department

COREQUISITES (list): _____ Yes X No

PREREQUISITES OR COREQUISITES: NONE

TEXT(S):

Java Script: The Web Warrior Series 6th ed
By: Vodnik (Cengage) ISBN 9781305078444

LAB FEES: _____ Yes X No

FINAL EXAM: _____ Final Exam X Final Project

ORIGINAL SUBMISSION DATE: Spring 2000

CURRICULUM COMMITTEE APPROVED REVISION DATE: 4/16/12

PREPARED BY: James Looby

COURSE DESCRIPTION: This course extends the W3C standards compliant content presented in CISS 220 Introduction to Web Design and Development and adds interactive user-centered content on the client side using JavaScript. Topics include but are not limited to: user centered design (UCD), virtual customer experience (VCE), the document-object model (DOM), form processing and validation, cookie management, browser and platform identification, Dynamic HTML, Javascript integration with HTML5 and CSS, Javascript Libraries (e.g. JQuery) and JavaScript Object Notation (JSON). This is a hands-on, project-based course,

conducted and tested in multiple operating systems (e.g. Windows, Mac, Linux, Apple iOS, Android), browsers (e.g. Safari, Firefox, Chrome, Internet Explorer), and environments.

ACTIVITIES AND ASSIGNMENTS:

- Weekly readings
- Weekly coding assignments
- Web site critiques
- Quizzes.
- Individual Final Projects with presentation and review.

GRADE COMPUTATION (In general terms as defined by college policy. Specifics, including Z grade, will be defined on the instructor's syllabus). :

Quizzes, Homework and Participation 75%

Final Project 25%

ADA STATEMENT:

In compliance with the Americans with Disabilities Act of 1990 and with Section 504 of the Rehabilitation Act, Hudson Valley Community College is committed to ensuring educational access and accommodations for all its registered students, in order to fully participate in programs and course activities or to meet course requirements. Hudson Valley Community College's students with documented disabilities and medical conditions are encouraged to access these services by registering with the Center for Access and Assistive Technology to discuss their particular needs for accommodations. For information or an appointment contact the Center for Access and Assistive Technology, located in room 130 of the Siek Campus Center or call 518-629-7154/TDD: 518-629-7596 .

STUDENT BEHAVIORAL OBJECTIVES:

Upon completion of this course, students will develop content for the Web through the use of JavaScript, XHTML (or HTML) and CSS. Students will demonstrate the following Web development skills within this working environment:

- Generate interactive Web content with JavaScript, XHTML, HTML5 and CSS.
- Generate Web pages that make use of client-side form processing and validation.
- Generate Web pages with dynamic client side processing.
- Generate W3C standards compliant Web content in accord with best practices UCD tenets.
- Design Web content that demonstrates proper information architecture at the site level.

TOPIC OUTLINE:

Module 1: XHTML, HTML5 and CSS Review

Module 2: Core JavaScript

Module 3: Objects

Module 4: Forms and Validation

Module 5: Accessibility, UCD and Virtual Experience

Module 6: The W3C DOM Standard

Module 7: Libraries

Module 8: JSON

Module 9: Project Presentations

Benefits for Veterans:

<https://www.hvcc.edu/veterans/>