RARITAN VALLEY COMMUNITY COLLEGE
ACADEMIC COURSE OUTLINE

IDMX 244 JAVASCRIPT

I. Basic Course Information

A. Course Number and Title: IDMX 244 - JavaScript

B. New or Modified Course: Modified

C. Date of Proposal: Semester: Fall Year: 2018

D. Effective Term: Fall 2019

E. Sponsoring Department: Visual and Performing Arts

F. Semester Credit Hours: 3

G. Weekly Contact Hours:
   Lecture: 2
   Laboratory: 2
   Out of class student work per week: 5

H. Prerequisites: Computer Concepts and Programming – CSIT 103 or Foundations of Computer Science – CSIT 105 and Web Page Development I - IDMX 225

I. Laboratory Fees: Yes

J. Name and E-Mail Address of Department Chairs and Divisional Dean at time of Approval:
   John Sichel, john.sichel@raritanval.edu and Vandana Nadkarni, vandana.nadkarni@raritanval.edu (Department Chairs);
   Patrice Marks, Patrice.marks@raritanval.edu (Divisional Dean)

II. Catalog Description


JavaScript is an object-oriented programming language used primarily on Web applications. Along with HTML and CSS, JavaScript serves as one of the web’s core technologies. The topics covered in the course include navigating the Document Object Model (DOM), core language functionality, and modern JavaScript libraries.
III. Statement of Course Need

A. JavaScript is a popular Scripting language used in Industry to design and implement dynamic web pages. Knowledge of this subject matter is essential to those students pursuing programs in Web Development or Web Programming.
B. This course does have a lab component. Students are required to use the software in the Computer labs in order to complete their assignments.
C. This course generally transfers as a Computer Science Elective

IV. Place of Course in College Curriculum

A. Free Elective
B. This course meets a program requirement for:
a. Interactive Digital Media & Web Development A.S.
b. Interactive Digital Media & Web Development A.A.S.
c. Interactive Digital Media & Web Development Certificate
d. Web Developer Certificate
C. Programming Elective in the Computer and Programming Electives List
D. Course Transferability: for New Jersey schools, go to the NJ Transfer website, www.njtransfer.org. For all other colleges and universities, go to their individual websites.

V. Outline of Course Content

A. Introduction to JavaScript and the Web
B. Data types and variables
C. Decisions and loops
D. Functions and scope
E. Objects
F. String Manipulation
G. The Document Object Model
H. DOM Scripting
I. Events
J. JSON
K. Data Storage
L. AJAX
M. JQuery
N. Current JavaScript utilities, libraries and APIs.
VI. General Education and Course Learning Outcomes

A. General Education Learning Outcomes:

At the completion of the course, students will be able to:

1. Solve information processing problems by using the JavaScript Programming Language to produce well designed computer programs (GE-NJ 4)

B. Course Learning Outcomes:

At the completion of the course, students will be able to:

1. Differentiate between Client and Server Side programming
2. Explain the relationship among HTML, CSS, and JavaScript
3. Design and implement JavaScript client side programs that incorporate arrays, control structures, and functions
4. Create Web Pages that implement JavaScript programs

C. Assessment Instruments

1. demonstrations
2. portfolios
3. computer programs

VII. Grade Determinants

A. Lab Projects
B. Homework Assignments
C. Quizzes
D. Final Exam
E. Final Project

The primary formats, modes, and methods for teaching and learning that may be used in the course:

A. lecture/discussion
B. laboratory
VIII. Texts and Materials


(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

IX. Resources

A. Computer lab with Internet Connectivity

X. Honors Option

N/A