

BUSINESS STUDIES DIVISION 1400 TANYARD ROAD, SEWELL, NJ 08080 856-468-5000

CIS 251— WEB PROGRAMMING SYLLABUS LECTURE/LAB HOURS/CREDITS: 2/2/3

CATALOG DESCRIPTION

Prerequisite: CIS 151 and CIS 110

This course presents the fundamentals of creating real-world Web applications using JavaScript. The course provides hands-on experience in the detailed coverage of foundation concepts of programming, such as objects, properties, events expressions, arrays, loops and conditional statements.

TEXTBOOK AND COURSE MATERIALS

It is the <u>responsibility of the student</u> to confirm with the bookstore and/or their instructor the textbook, handbook and other materials required for their specific course and section.

Please see current textbook prices at www.rcgc.bncollege.com

EVALUATION AND ASSESSMENT

Grading Distribution

Individual instructors may include the following assessment(s):	
ExamsQuizzes	Grading to be determined by individual instructors
Projects / Assignments	
Attendance and Participation	

Grading Scale Example

The grading scale for each course and section will be determined by the instructor and distributed the first day of class.

ROWAN COLLEGE AT GLOUCESTER COUNTY CORE COMPETENCIES

(Based on the NJCC General Education Foundation - August 15, 2007; Revised 2011)

This comprehensive list reflects the *core* competencies that are essential for all RCGC graduates; however, each program varies regarding competencies required for a specific degree. Critical thinking is embedded in all courses, while teamwork and personal skills are embedded in many courses.

	RCGC Core Competencies		
1	Written and Oral Communication Students will communicate effectively in both speech and writing.		
2	Quantitative Knowledge and Skills Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems.		
3	Scientific Knowledge and Reasoning Students will use the scientific method of inquiry, through the acquisition of scientific knowledge.		
4	Technological Competency Students will use computer systems or other appropriate forms of technology to achieve educational and personal goals.		
5	Society and Human Behavior Students will use social science theories and concepts to analyze human behavior and social and political institutions and to act as responsible citizens.		
6	Humanistic Perspective Students will analyze works in the fields of art, history, music, or theater; literature; philosophy and/or religious studies; and/or will gain competence in the use of a foreign language		
7	Historical Perspective Students will understand historical events and movements in World, Western, non-Western or American societies and assess their subsequent significance.		
8	Global and Cultural Awareness Students will understand the importance of a global perspective and culturally diverse peoples.		
9	Ethical Reasoning and Action Students will understand ethical issues and situations.		
10	Information Literacy Students will address an information need by locating, evaluating, and effectively using information		

CIS-251 CORE COMPETENCIES

This course focuses on two of RCGC's Core Competencies:

- Technological Competency
- Information Literacy

STUDENT LEARNING OUTCOMES: CIS 251 – WEB PROGRAMMING

CIS 251 students will	RCGC's Core Competencies Addressed	Evaluation / Assessment
Develop Web applications using the JavaScript programming language.	Technological Competency Information Literacy	- Classroom projects - Independent lab projects - Review Quizzes - Exams
Learn the basics of how to use JavaScript with well-formed Web pages, including how to manipulate the browser object model, validate forms and use object-oriented techniques.	Technological Competency Information Literacy	- Classroom projects - Independent lab projects - Review Quizzes - Exams
Learn how to trace and resolve errors in JavaScript programs	Technological Competency Information Literacy	- Classroom projects - Independent lab projects - Review Quizzes - Exams
Learn how to manage state information, use the Dynamic Object Model (DOM), create Dynamic HTML (DHTML), update Web pages with AJAX, and create server-side scripts.	Technological Competency Information Literacy	- Classroom projects - Independent lab projects - Review Quizzes - Exams

CIS 251: Web Programming TOPICAL OUTLINE

- 1: Introduction to JavaScript
- 2: Working with Data Types and Operators
- 3: Functions, Events, and Control Structures
- 4: Manipulating the Browser Object Model
- 5: Validating Form Data with JavaScript
- 6: Using Object-oriented JavaScript
- 7: Manipulating Data in Strings and Arrays
- 8: Debugging and Error Handling
- 9: Managing State Information and Security
- 10: Introduction to the Document Object Model (DOM)
- 11: Creating Dynamic HTML (DHTML)
- 12: Updating Web Pages with AJAX