

CIS-172

JavaScript Programming

Fall 2007

INSTRUCTOR:

Mrs. Sally Goodwin

OFFICE:

T-211C

V-MAIL:

313-845-9851

E-MAIL:

sgoodwin@hfcc.edu

sgoodwin@henryford.ucompass.com

CATALOG DESCRIPTION: An intermediate-level course in which the student becomes familiar with the JavaScript programming language and its various components. These features are taught through detailed lectures and coding laboratory assignments. Students design, code, test and debug programs using the JavaScript language, a language developed by Netscape for advanced Internet development.

PREREQUISITE: C Programming and HTML

TEXT: JavaScript Comprehensive

By Don Gosselin, Course Technology – Third Edition

ISBN 0-619-21521-6

ALSO REQUIRED: One *backup* diskette with your name and CIS-172 on label

(You might want to buy a flash drive for your classes!)

COLLEGE POLICIES: *SEE Catalog, Schedule & Student Handbook regarding Cheating, Dropping, Incompletes.*

SOFTWARE:

Microsoft Internet Explorer Browser

Any Text Editor for HTML, like Notepad

WEBSITE: <http://henryford.ucompass.com/>

(Ucompass Website for Course Materials / Packets, Assignments, Examinations, and External Links)

Tentative Course Schedule

All Packets are under Course Materials at <http://henryford.ucompass.com> (UCompass)

Week	Topic & Assignment	Due Date
Week 1	Topic: “Warmup Exercise” Packet Assignment: All Homework and Exam in Packet	3 p.m. Wednesday, Date 8/29/07
Week 2	Topic: Chapter 1, "Introduction to JavaScript" Assignment: All Homework and Exam in Packet	3 p.m. Monday, Date 9/10/07
Week 3	Topic: Chapter 2, "Data Types and Operators" Assignment: All Homework and Exam in Packet	3 p.m. Monday, Date 9/17/07
Week 4	Topic: Chapter 3, "Functions, Events, and Control Structures"	3 p.m. Monday, Date 9/24/07

	Assignment: All Homework and Exam in Packet	
Week 5	<p>Topic: Chapter 4, "The Browser Object Model"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 10/1/07</p>
Week 6	<p>Topic: Chapter 5, "JavaScript and Forms"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 10/8/07</p>
Week 7	<p>Topic: Chapter 6, "Object-oriented JavaScript"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 10/15/07</p>
Week 8	<p>Midterm Exam Packet – Chapters 1 through 6</p> <p>Assignment: All work in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 10/29/07</p>
Week 9	<p>Topic: Chapter 7,</p>	<p>3 p.m. Monday,</p>

	<p>"Debugging JavaScript"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>Date 11/5/07</p>
Week 10	<p>Topic: Chapter 8, "Cookies and Security"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 11/12/07</p>
Week 11	<p>Topic: Chapter 9, "Introduction to the Document Object Model (DOM)"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 11/19/07</p>
Week 12	<p>Topic: Chapter 10, "Dynamic HTML (DHTML)"</p> <p>Assignment: All Homework and Exam in Packet</p>	<p>3 p.m. Monday,</p> <p>Date 11/26/07</p>
Week 13	<p>Topic: Chapter 11,</p>	<p>3 p.m. Monday,</p>

	"ASP.NET" Assignment: All Homework and Exam in Packet	Date 12/3/07
Week 14	Topic: Chapter 12, "Database Connectivity with ASP.NET" Assignment: All Homework and Exam in Packet	3 p.m. Monday, Date 12/10/07
Week 15	Final Exam Packet – Chapters 7 through 12 Assignment: All work in Packet	6 p.m. Wednesday, Date 12/12/07

Grade:

50% = Midterm and Final Exams

25% = Ucompass Chapter Examinations

25% = Ucompass Packet/Chapter Assignments

Grading Scale:

A = 92% - 100%

B = 84% - 91%

C = 76% - 83%

D = 68% - 75%

E = Below 75%

Course Purpose/Objectives

1. Understand the use of DHTML (Dynamic HTML) and JavaScript in Webpage construction.
2. Understand the basic concepts of JavaScript Functional Programming: Variables, Functions, and Expressions.
3. Understand the basic concepts of Object Oriented Programming (OOP): Objects, Properties, and Methods.
4. Use JavaScript with HTML (HyperText Markup Language) to create interactive contents for the Web Forms and Data Validation.
5. Use the JavaScript Object Model to control the browser.
6. Understand the DOM (Document Object Model) and the use of Cascading Style Sheets (CSS).
7. Understand the role of Cookies and Security in developing Web applications.
8. Use tools and techniques to isolate and fix common JavaScript bugs.
9. Understand the use of Server-side JavaScript in Microsoft applications.
10. Understand how Relational Database access and Server-side JavaScript add data manipulation elements to your Web applications. Examples would be an internet shopping cart or an online student course registration system.
11. Understand how JavaScript can create dynamic content for your Websites.

Don't forget to apply for graduation at the Registrar's office by the end of the second week of the semester at the latest! There is a fee.

Cooperative Education and Job Placement Services at HFCC

Coop: Ms. Nancy Stupsker 313-845-6359 stupsker@hfcc.edu

Job Placement: Mr. Richard Brown 313-845-9860 rbrown@hfcc.edu

SAMPLE