

# **COURSE SYLLABUS**

## **COM288: Internet Programming II**

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### **Course Description**

This course expands on the foundational web programming skills learned in COM 287. The present course expands those capabilities through the introduction of JavaScript and the related technologies, AJAX and DHTML. This course of study provides the student with in depth client side scripting capabilities. Industry standard software testing and debugging techniques are also introduced.

### **General Course Information**

Number of Units/Weeks	4/10
#Hours Lecture/#Hours Laboratory/#Hours Homework	30/20/60
Prerequisite(s)	COM287
Co-requisites (s)	None
Course Developer(s)	Charlie Morgan, B.A.
Date Approved / Last Review	March 2007 / December 2013

### **Learning Outcomes**

- Use the standard programming structures and objects to author industry standard web based software
- Create interactive web forms with client side scripts providing validation of user input
- Create dynamic web pages using DHTML, a synergy created by combining the capabilities of HTML, CSS and Javascript
- Combine Javascript with server side scripts and XML, termed AJAX or Asynchronous Javascript , to provide real time updates to web pages
- Understand and utilize industry standard techniques for program debugging and testing

### **Instructional Methods Employed in this Course**

- Lecture and reading assignments
- Hands-on exercises and labs
- Research
- Practical application of theory and skills in authentic Internet
- Build on prior knowledge and experience of students to enhance richness of class activities

### **Information Resources for this Course**



**Textbook**

Gosselin, Don. Javascript. 4<sup>th</sup> edition. Florence, KY: Course Techonology, 2008.  
ISBN-13: 978-1-4239-0150-1



### **Web Site Readings**

ECMA International. Home Page

<http://www.ecma-international.org/publications/files/ECMA-ST/ECMA-262.pdf>

Retrieved April 27, 2010

World Wide Web Consortium. Home Page.

<http://www.w3c.org>

Retrieved September 11, 2009

W3 Schools. Home Page.

<http://w3schools.com>

Retrieved September 11, 2009

## **Table/Topics & Assignments**

### **Types of Assignments:**

Lecture -

Considered Lecture Hours

### **Classroom Discussion -**

Considered Lecture Hours

### **In Class Critique -**

Considered Lecture Hours

### **Delivering Oral Presentations -**

Considered Lecture Hours

### **In Class (IC) Exercise -**

Considered Lecture Hours

### **Reading -**

Considered Homework (HW), work done outside of class

### **WebClass lesson (non-online courses) -**

Considered HW, work done outside of class

### **Lab Work -**

Considered Lab Hours

### **Quiz, Midterm or Final -**

Considered Lecture Hours

Week 1						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due

LEC 1A	Introduction to Course / Introduction to JavaScript	3	--	--	--	
LAB 1A	Project 1: Adding Web Page Content	--	2	--	5	Week 2
HW 1A	Read Chapters 1 (50 pages) Evaluated by HW 2B	--	--	5.0	--	
HW 1B	Review Questions: Chapter 1 20 Questions	--	--	2.6	0	Week 2
Total Week 1		3	2	7.6	5	
<b>Week 2</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 2A	Working with Data Types and Operators	3	--	--	--	
LAB 2A	Project 2: Basic Javascript I	--	2	--	5	Week 3
HW 2A	Read Chapter 2 (41 pages) Evaluated by HW 3B	--	--	4.1	--	
HW 2B	Review Questions: Chapter 2 20 Questions	--	--	2.7	0	Week 3
Total Week 2		3	2	6.8	5	
<b>Week 3</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 3A	Functions, Events and Control Structures	3	--	--	--	
LAB 3A	Project 3: Basic Javascript II	--	2	--	5	Week 4
HW 3A	Read Chapter 3 (42 pages) Evaluated by HW 4B	--	--	4.2	--	
HW 3B	Review Questions: Chapter 3 20 Questions	--	--	2.5	0	Week 4
Total Week 3		3	2	6.7	5	
<b>Week 4</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 4A	Form Validation	3	--	--	--	
LAB 4A	Project 4: Form Validation	--	2	--	5	Week 5

HW 4A	Read Chapter 5 (44 pages) Evaluated by HW5B	--	--	4.4	--	
HW 4B	Review Questions: Chapter 5 20 Questions	--	--	2.8	0	Week 5
Total Week 4		3	2	7.2	5	
<b>Week 5</b>						
<b>Type</b>	<b>Topic/Description</b>	<b>LEC Hours</b>	<b>LAB Hours</b>	<b>HW Hours</b>	<b>Point Value</b>	<b>Due</b>
LEC 5A	Strings and Arrays	2	--	--	--	
LAB 5A	Project 5: Manipulating Strings and Arrays	--	2	--	5	Week 6
HW 5B	Read Chapter 7 (39 pages) Evaluated by HW 6B	--	--	3.9	--	
HW 5C	Review Questions: Chapter 7 20 Questions	--	--	2.7	0	Week 6
EXAM 5A	Midterm Exam	1	--	--	25	Week 5
Total Week 5		3	2	6.6	30	
<b>Week 6</b>						
<b>Type</b>	<b>Topic/Description</b>	<b>LEC Hours</b>	<b>LAB Hours</b>	<b>HW Hours</b>	<b>Point Value</b>	<b>Due</b>
LEC 6A	Debugging and Error Handling	3	--	--	--	
LAB 6A	Project 6: Making It Work	--	2	--	5	Week 7
HW 6A	Read Chapter 8 (43 pages) Evaluated by HW 7B	--	--	4.3	--	
HW 6B	Review Questions: Chapter 8 20 Questions	--	--	1.7	0	Week 7
Total Week 6		3	2	6	5	
<b>Week 7</b>						
<b>Type</b>	<b>Topic/Description</b>	<b>LEC Hours</b>	<b>LAB Hours</b>	<b>HW Hours</b>	<b>Point Value</b>	<b>Due</b>
LEC 7A	Document Object Model	3	--	--		
LAB 7A	Project 7: Using the DOM	--	2	--	5	Week 8
HW 7A	Read Chapter 10 (27 pages) Evaluated by HW 8B	--	--	2.7	--	

HW 7B	Review Questions: Chapter 10 20 Questions	--	--	1.6	0	Week 8
Total Week 7		3	2	4.3	5	
<b>Week 8</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 8A	DHTML	3	--	--	--	
LAB 8A	Project 8: Animated Web Page	--	2	--	5	Week 9
HW 8A	Read Chapter 11 (30 pages) Evaluated by HW 9A	--	--	3.0	--	
HW 8B	Review Questions: Chapter 11 20 Questions	--	--	1.9	0	Week 9
Total Week 8		3	2	4.9	5	
<b>Week 9</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 9A	AJAX	3	--	--	--	
LAB 9A	Project 9: AJAX Program	--	2	--	5	Week 10
HW 9A	Read Chapter 12 (36 pages) Evaluated by HW 9B	--	--	3.6	--	
HW 9B	Review Questions: Chapter 12 20 Questions	--	--	1.7	0	Week 10
Total Week 9		3	2	5.3	5	
<b>Week 10</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 10A	Course Wrap Up	3	--	--	--	
HW 10A	Course Wrap Up - Review Chapters 7, 8, 10-12. Evaluated in Exam 10B	--	--	4.6	--	
EXAM 10A	Debug Test	--	1	--	5	Week 10
EXAM 10B	Final Exam	--	1	--	25	Week 10
Total Week 10		3	2	4.6	30	

## Course Hours Summary

Week	Topic	LEC Hours	LAB Hours	HW Hours
1	Introduction to Course / Introduction to JavaScript	3	2	7.6
2	Working with Data Types and Operators	3	2	6.8
3	Functions, Events and Control Structures	3	2	6.7
4	Form Validation	3	2	7.2
5	Strings and Arrays	3	2	6.6
6	Debugging and Error Handling	3	2	6
7	Document Object Model	3	2	4.3
8	DHTML	3	2	4.9
9	AJAX	3	2	5.3
10	Course Wrap Up – Review Chapters 7,8,10-12	3	2	4.6
Total		30	20	60

## Table/Point Breakdown

Assignment	Possible Points	Percent of Grade
Projects 1: Adding Web Page Content:	45	45%
Midterm Exam	25	25%
Debug Test	5	5%
Final Exam	25	25%
	100	100%

## Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

### Coleman University Grade Assignment Policy:

Percent	Letter Grade	Grade Points
94-100	A	4
90-93	A-	3.67

87-89	B+	3.33
84-86	B	3
80-83	B-	2.67
77-79	C+	2.33
74-76	C	2
70-73	C-	1.67
67-69	D+	1.33
64-66	D	1
60-63	D-	0.67
N/A	INC	0
N/A	W	0
60 or above	CR	0
59 or below	NC	0
N/A	I	0
N/A	W	0
N/A	AU	0
N/A	TR	0
N/A	WV	0

Legend	
CR = Credit	NC = No Credit
I = Incomplete	W = Course Withdrawal
AU = Audit	TR = Transfer Credit
WV = Waiver	

## Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator at 858-966-3953 or via email at [ada@coleman.edu](mailto:ada@coleman.edu). The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.