COURSE SYLLABUS
COM324: Advanced Internet Application Development

Course Description

An introduction to the use of scripting languages in the development of Internet related content. Topics include code integration, form validation, and the use of industry standard techniques in Internet programming.

General Course Information

Number of Units/Weeks	4/10
#Hours Lecture/#Hours Laboratory/#Hours Homework	40/0/80
Prerequisite(s)	COM319, COM288
Co-requisites (s)	None
Course Developer(s)	Jason Abel, MS BTM
Date Approved / Last Review	August 2011 / June 2014

Learning Outcomes

- Create client-side, dynamic web content
- Produce object-oriented applications
- Create a library of browser-independent scripting functions
- Apply HTML 5 script elements to web content

Instructional Methods Employed in this Course

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

Information Resources for this Course

Textbook
Harris, Ray. (2009). *Murach's JavaScript and DOM Scripting*. Mike Murach & Associates, Inc. ISBN: 978-1-890774-55-4

Other Materials
N/A

Week 1						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 1A	Scripting in web development	2	0	0	20	Wednesday
LEC 1B	Common uses of scripting	1	0	0	10	Saturday
HW 1A	Read chapters 1, 2 & 3. Evaluated in HW 1B, EXAM 2A	0	0	11.7		
HW 1B	Exercises 2.1 & 2.2	0	0	2.5	30	Saturday
Total Week 1		3	0	14.2	60	
Week 2						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 2A	Orderly scripts	2	0	0	20	Wednesday
LEC 2B	Class discussion responses (Feedback)	1	0	0	10	Saturday
EXAM 2A	Knowledge check	1	0	0	50	Saturday
HW 2A	Read chapters 6, 7 & 8. Evaluated HW 2B, EXAM 2A	0	0	7.7		
HW 2B	Exercises 7.1, 7.2, 8.1 & 8.2	0	0	3.5	30	Saturday
Total Week 2		4	0	11.2	110	
Week 3						
Type	**Topic/Description**	**LEC Time**	**LAB Time**	**HW Time**	**Point Value**	**Due**
LEC 3A	Functions as objects	2	0	0	20	Wednesday
LEC 3B	Feedback	1	0	0	10	Saturday
HW 3A	Read chapters 9, 10 & 11 Evaluated in HW 3B	0	0	8.3		
HW 3B	Exercises 9.1, 10.1, 10.2 & 11.1	0	0	4	30	Saturday

Total Week 3		3	0	12.3	60	

Week 4

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 4A	How do objects help?	2	0	0	20	Wednesday
LEC 4B	Source your tips	1	0	0	10	Saturday
EXAM 4A	Knowledge check	1	0	0	50	Saturday
HW 4A	Read chapters 12 & 13. Evaluated in HW 4B	0	0	8.3	0	
HW 4B	Exercises 12.1, 12.2, 13.1 & 13.2	0	0	4	50	Saturday
Total Week 4		4	0	12.3	110	

Week 5

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 5A	Dynamic web basics	2	0	0	20	Wednesday
LEC 5B	Feedback	1	0	0	10	Saturday
HW 5A	Publish web application	0	0	4	30	Saturday
EXAM 5	Midterm exam	2	0	0	100	Saturday
Total Week 5		5	0	4	160	

Week 6

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 6A	Platform independence	2	0	0	20	Wednesday
LEC 6B	What is missing?	2	0	0	10	Saturday
HW 6A	Read chapters 14 & 15. Evaluated in HW 6B	0	0	8.5	0	
HW 6B	Exercises 14.1, 14.2, 14.3, 15.1 & 15.2	0	0	4	30	Saturday
Total Week 6		4	0	12.5	60	

Week 7

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 7A	Manipulating CSS	2	0	0	20	Wednesday
LEC 7B	Common problems	2	0	0	10	Saturday
HW 7A	Read chapters 16 & 17 Evaluated in HW 7B	0	0	7.7		
HW 7B	Exercises 16.1, 16.2, 17.1 & 17.2	0	0	4	30	Saturday

EXAM 7A	Knowledge check	1	0	0	50	Saturday
Total Week 7		5	0	11.7	110	

Week 8

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 8A	Animation: useful or fluff?	3	0	0	20	Wednesday
LEC 8B	Feedback	1	0	0	10	Saturday
HW 8A	Read chapters 18 & 19. Evaluated in HW 8B	0	0	6.7	0	
HW 8B	Exercises 18.1, 18.2 & 19.1	0	0	5	30	Saturday
Total Week 8		4	0	11.7	60	

Week 9

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 9A	What's good about JS libraries?	2	0	0	20	Wednesday
LEC 9B	Minifying?	2	0	0	10	Saturday
EXAM 9	Knowledge check	1	0	0	50	Saturday
HW 9A	Read chapters 20 & 21 Evaluated in HW 9B, EXAM 9	0	0	4.2	0	
HW 9B	Exercise 20.1	0	0	2	30	Saturday
Total Week 9		5	0	6.2	110	

Week 10

Type	Topic/Description	LEC Time	LAB Time	HW Time	Point Value	Due
LEC 10A	Self-Examination - Lessons learned	2	0	0	20	Wednesday
LEC 10B	Organizing code, revisited	2	0	0	10	Wednesday
ELP 10A	Final Application	0	0	10	30	
Final 10A	Final Exam	2	0	0	100	Wednesday
Total Week 10		6	0	10	160	

Course Hours Summary

Week	Topic	LEC Time	LAB Time	HW Time
1	Introduction to scripting	3	0	14.2
2	Data & statements	4	0	11.2

3	Functions and objects	3	0	12.3
4	The DOM	4	0	12.3
5	Dynamic web basics	5	0	4
6	Events and advanced DOM	4	0	12.5
7	Dynamic look and feel	5	0	11.7
8	Animation & the browser	4	0	11.7
9	JavaScript libraries	5	0	6.2
10	Evaluation	6	0	10
Total		43	0	106.1

Table/Point Breakdown

Activities	Possible Points	Percent of Grade
Discussions	300	30%
Exercises	300	30%
Quizzes	200	20%
Midterm exam	100	10%
Final exam	100	10%
	1000	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. 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.