Course Number: IS219
Course Title: Advanced Website Development
Section: 002
Semester: Spring 2017
Date & Time: MON: 1:00PM – 3:55PM
Location: Student Mall PC36
Credits: 3
Contact Hours: 3 Hours Face-to-Face

Instructor Information:
Name: Michael Lee, PhD
Office: 5111 GITC
Phone Number: (unlisted)
Email (preferred): mjlee@njit.edu

Office Hours:
By Appointment

Course Materials
Haverbeke, M. (2015). *Eloquent javascript: A modern introduction to programming*. San Francisco: No Starch Press. Print ISBN-13: 978-1593275846
*(Available for free online: http://eloquentjavascript.net)

Catalog Description
Prerequisites: CS 113 or CS 115 or other computing GUR. This course is a practical introduction to building web applications. The course combines hands on design and development experience, with a conceptual overview and discussion of design and practical development issues. Students build a several web applications to demonstrate their understanding of standard industry workflow processes and various web technologies.

Prerequisites: CS 113 or CS 115 or other computing GUR

Learning Outcomes

1. Students will be able to create an application using advanced HTML5, CSS3, and JavaScript
2. Students will be able to create an interaction design using a wireframe mockup
3. Students will be able to write a specification for a user interaction within a web application
4. Students will be able to demonstrate fundamental concepts in JavaScript such as DOM manipulation and events
5. Students will be able to demonstrate the ability to collaborate using source code management software
6. Students will be able to describe and implement basic design patterns found in JavaScript such as closures and promises
7. Students will be able to demonstrate synchronous and asynchronous client server communication using JavaScript

Grading Category Weights
2 Projects: 30%
2 Exams: 30%
Final Exam: 15%
Codecademy Homework: 15%
Participation: 10%

Grading Scale
A: 90 - 100
B+: 88-89
B: 80 - 87
C+: 78-79
C: 70 - 77
D+: 68 - 69
D: 60 - 67
F: 0 - 59

Incompletes are only given for extenuating and documented medical, or personal issues.

Project Rubric

You are expected to complete milestones for your project. Each project is expected to have a project template and a mockup of the ui and/or flow chart for the application.

3 – Above Average Performance – Thoughtful Visual Design and/or Technically Advanced
2 – Average Performance – Demonstrates all major project requirements
1 – Below Average Performance – Submitted with obvious technical and/or visual deficiencies

Homework Rubric
1 - Completed on time
0 - Not Completed on Time

Late Project and Homework Policy
All projects and homework must be turned in on time, or you will lose one point for each week that project or homework is late. **Note: A homework that is 1 week late loses all points.**

Codecademy
Codecademy is a popular tool for learning HTML, CSS, and JavaScript. In this course you are required to complete two codecademy courses. There is a codecademy assignment posted in Moodle, this is where you should submit a link to your codecademy user profile. The user profile displays badges for completing parts of each course and you will receive a grade based on your completion percentage of the the courses.

Required Courses:

1. http://www.codecademy.com/tracks/javascript
2. http://www.codecademy.com/skills/make-an-interactive-website

Attendance
Attendance will be taken for each class meeting. You are permitted one unexcused absence for the class; however, each subsequent absence will result in a 3 percent reduction in your final grade. Attendance is worth 10% of your final grade.

Academic Integrity Policy
My expectation is that each person will complete original work for this course and will not copy from fellow students or tutorials online. It is OK to refer to tutorials online; however, you will be considered in violation of the NJIT honor code by submitting work found online. Any violations of the honor code will be referred to the Dean of Students for investigation and possible disciplinary action. For more information about the NJIT honor code, you should refer to this document:

http://www.njit.edu/academics/pdf/academic-integrity-code.pdf

Spring 2017 Calendar

<table>
<tr><th>Week</th><th>Content</th><th>Project Due Date</th><th>Codecademy</th><th>Exam Dates</th></tr>
<tr><td>1</td><td rowspan="15">Javascript,
Bootstrap,
jQuery,
AngularJS

github
heroku</td><td></td><td rowspan="4">JavaScript
Assigned Week 1
Due Week 4</td><td></td></tr>
<tr><td>2</td><td rowspan="4">Project 1
Assigned Week 2
Due Week 5</td><td></td></tr>
<tr><td>3</td><td></td></tr>
<tr><td>4</td><td></td></tr>
<tr><td>5</td><td rowspan="5">Make An Interactive Website
Assigned Week 5
Due Week 9</td><td>Exam 1
Week 5</td></tr>
<tr><td>6</td><td></td><td></td></tr>
<tr><td>7</td><td rowspan="4">Project 2
Assigned Week 7
Due Week 11</td><td></td></tr>
<tr><td>Break</td><td></td></tr>
<tr><td>9</td><td>Exam 2
Week 9</td></tr>
<tr><td>10</td><td rowspan="6"></td><td></td></tr>
<tr><td>11</td><td></td></tr>
<tr><td>12</td><td rowspan="4">Project 3
Assigned Week 12
Due Week 15</td><td></td></tr>
<tr><td>13</td><td></td></tr>
<tr><td>14</td><td></td></tr>
<tr><td>15</td><td></td></tr>
<tr><td>Finals Week</td><td></td><td></td><td></td><td>Final Exam
Finals Week</td></tr>
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