

CIS 375: Advanced Web and Mobile Development

Course Description

This semester we will master the techniques and precesses of developing advanced technical skills for generating current web content. This course focuses primarily upon the development of coding skills for generating advanced web content and hybrid apps, as well as maintaining an aptitude for creating effective designs and interfaces. In addition, this course is designed to help students develop the ability to produce an informed critique of web and mobile resources, as well as a capacity for evaluation and assessment of such materials.

Student Outcomes

As a student in this course, you will come to understand the relevant and current components of advanced web development. In addition, you'll learn how to efficiently and successfully program hybrid apps. Finally, you'll also gain the opportunity to think critically about the web and its technical underpinnings, while also gaining the insights to effectively judge the future directions of advancement in web technologies.

Reference Materials

There are no required texts for this course. Numerous Internet resources will be provided as readings throughout the term. However, there are several texts that you will find immeasurably valuable if you actually want to effectively learn about this content. Please ask me if you would like more reading material during the term.

Instead of purchasing books, you will need to appropriate a web hosting package and a USB flash drive. I will provide you with full details regarding this process at the appropriate time.

Grading and Assignments

Student assessment for this course will take the form of evaluation through exams, electronic materials, participation and attendance. Specifically, your grade will be determined as follows:

RWD Project	30%
CMS Project	30%
Web App Project	30%
Participation	10%

Schedule

This course meets at the dates and times as listed on your schedule in JaySource. Make sure you always leave your class times free - even if we aren't meeting together - so that we can adjust the schedule throughout the term. Please note that the following reading or video resources should be completed *before class* on the day they are listed.

January 25	Course Description
January 27	External Lab: Text Editors and Workspace
January 30	CIS 275 Project Review
February 1	Lecture: HTML5 Review
February 3	Lab: HTML5 Review
February 6	Lecture: CSS3 Review
February 8	Lab: CSS3 Review
February 10	NO CLASS
February 13	Layout Techniques
February 15	Layout Techniques [2]
February 17	Lecture: RWD & Why I Should Care
February 20	Revisiting RWD
February 22	Lab: Responsive Development
February 24	NO CLASS
February 27	Responsive Layout Issues
March 1	Lab: Responsive Development
March 3	RWD Project Due
March 6	Lecture: Content Management Systems
March 8	Lab: CMS Setup

March 10	NO CLASS
March 13	Wordpress Modification and Questions
March 15	Lab: Server Setup
March 17	NO CLASS
March 20-24	SPRING BREAK
March 27	Lab: CMS Project
March 29	Lab: CMS Project
March 31	NO CLASS
April 3	Ongoing Wordpress Issues
April 5	CMS Project Due
April 7	NO CLASS
April 10	Mobile Design Issues
April 12	Lab: Web App Research
April 14	Lecture: Web App Development
April 17	Lab Time: Web App
April 19	Lab Time: Web App
April 21	NO CLASS
April 24	Q&A: Framework Troubleshooting
April 26	Lab Time: Web App
April 28	NO CLASS
May 1	Lab Time: Web App
May 3	Lab Time: Web App
May 5	Lab Time: Web App
May 8	Web App Due

Final Notes

Any late project work will be docked one full letter grade (i.e. 10 points) each day. There are no exceptions. You must turn in each assignment to receive a final grade for this class.

I won't bother to give you information unless you actually need to know it. In return, I ask that you actually read it, and make your best effort to understand and remember the details.

Please note that you may not record or capture any classroom interactions through any means unless you seek permission of the instructor in advance. Pennsylvania is a dual consent state - you cannot record anyone else without their permission. This includes your classmates.

Taking responsibility and ownership for your data will make your experiences in computing much less taxing! Make sure you have backup copies of all your work on a flash drive or a cloud storage service.

Finally, please note that this document represents the minimum that you need to know regarding the course. For additional details and information, you should consult the online course information at <http://courses.samfee.net/>.