### COURSE TITLE
CE 4440 Building Rich Internet Applications (RIAs) with HTML5

### INSTRUCTOR
Todd Mariani
tmariani@reciprocalpress.com

### MEETING TIMES
Tuesdays, 6-9 pm June 7 - August 9

### COURSE DESCRIPTION
Learn how to create desktop-like applications for the Web and mobile devices, embed video, create animations, and utilize gradients and drop shadows using nothing but HTML5, CSS and JavaScript. Students refine their coding skills practically by building applications that can be deployed to the Web and viewed on the desktop, iPhone, or android phones. This course includes practical application-building exercises to ensure students go beyond theory to master the process of building rich web applications. Course work includes building with HTML5, styling with CSS3, creating interaction with jQuery, deploying to iPhone and android and going native on the iPhone with PhoneGap. Prerequisite: this is an advanced-level course requiring students to possess knowledge of and comfort working with HTML5, CSS3 and JavaScript. Note: this course is offered during the summer semester only.

### COURSE OBJECTIVE
- Gain a firm understanding of HTML 5, CSS3 and JavaScript
- Feel comfortable with integration of jQuery into projects
- Have a clear understanding of the Rich Internet Application (RIA) process
- Will complete and deploy a Rich Internet Application (RIA)

### REQUIRED COURSE TEXT

**HTML5: Designing Rich Internet Applications**

### PROJECTS AND DUE DATES
- Design Project - June 28th
- Production Project - July 19th
- Testing/Deployment Project - August 9th
**GRADES & SCORING**

- Attendance - 20%
- Student Participation - 20%
- Completion of design project - 20%
- Completion of production project - 20%
- Completion of testing/deployment project - 20%

Grading of project will be as follows-

**Design project**-

- 10% Thumbnails
- 10% Wireframe & Wireframe revisions

**Production project**-

- 10% Use of HTML5, CSS, jQuery, commented code
- 10% Code structure, file structure

**Testing/Deployment project**:

- 10% Full functionality in all browsers
- 10% Deployment plan

On Student Critique days you will give a 10-15 minute presentation to the class and be prepared to talk about your work in a discussion format.

**ATTENDANCE & TARDINESS POLICY**

In order to pass the course, students are required to attend 80% of the sessions- 8/10. Only extreme (as deemed by the instructor) cases with documented proof will be exempt from this rule. If a student arrives more than halfway into the Session, they are considered absent for the entire session.

**SESSION SCHEDULE**

**Session 1 | June 7**

6:00 - 7:30
Introductions & Course Review

7:30 - 9:00
Lecture of the Rich Internet Application process

References-

- [http://diveintohtml5.org/](http://diveintohtml5.org/)
- [http://jquery.com/](http://jquery.com/)

Assignments-

- Read section 1 + 2 in textbook
- Create idea and pitch for RIA
- Prepare 10-15 minute presentation using software/technique of your choice
Session 2 | June 14

6:00 - 7:30
Group discussion of application pitches.

7:30 - 9:00
Skills Building Lecture-
- Thumbnail Sketching
- Wireframing exercise
- Brainstorming exercise

Assignment-
- Read section 3 & 4 in textbook
- Create wireframe of application
- Include all features

Session 3 | June 21

6:00 - 7:30
Design Critique group A

7:30 - 9:00
Design Critique group B

Assignment-
- Read section 5 in textbook
- Revise and Complete wireframes

Session 4 | June 28

6:00 - 7:30
Design project due

Skills Building Lecture-
- Best Coding Practices
- Overview of multiple platforms
- mobile / desktop

7:30 - 9:00
Create and discuss strategies for production

Assignment-
- Finalize strategy for production
- Begin production
Session 5 | July 5

6:00 - 7:30
- Mid Production critique group A
- Discuss issues and problems

7:30 - 9:00
- Mid Production critique group B
- Discuss issues and problems

Assignment-
Continue production

Session 6 | July 12

6:00 - 7:30
Final Production critique group A

7:30 - 9:00
Final Production critique group B

Assignment-
Complete production

Session 7 | July 19

6:00 - 7:30
Production project due

Skills Building Lecture:
- Optimizing performance
- Building and preparing applications for cross-platforms

7:30 - 9:00
Session production time

Assignment: Choose platforms to deploy and integrate into project

Session 8 | July 26

6:00 - 7:30
Platform critique and discussion group A

7:30 - 9:00
Platform critique and discussion group B

Assignment-
Finalize application code and prepare for deployment
Session 9 | August 2

6:00 - 7:30
Skills Building Lecture-
  ▪ Creating Deployment plan
  ▪ Marketing Your Application

7:30 - 9:00
Research Marketing options

Assignment-
Create launch plan

Session 10 | August 9

6:00 - 7:30
  ▪ Final RIA project due.
  ▪ Final Review of RIA group A

7:30 - 9:00
Final Review of RIA group B

All students are expected to attend classes regularly and promptly, and for the duration of the scheduled instructional time. Individual instructors will decide the optimum time for taking attendance and may penalize for habitual lateness or absence. Repeated absences may result in a grade of “F” for the course.

Students who withdraw from a course must do so in writing. Nonattendance does not constitute an official withdrawal.

To have ACT 48 Activity Hours for this course reported to the Pennsylvania Department of Education, you must complete and return the CE Request for Activity Hours Submission Form to the UArts Continuing Studies Office and meet all requirements outlined by the PDE.

The University of the Arts reserves the right to cancel classes due to low enrollment, reschedule any course or to change the instructor. If a cancellation should occur, students will be notified prior to the start of classes and will have the option of taking another course or receiving a full refund. The University is not responsible for supplies that may be purchased in advance.