Ruby on Rails DeCal
CS 98/198
Fall 2017 Syllabus

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Instructor of Record: Armando Fox

Course Description
In this course, students will learn the fundamentals of web development through the Ruby on Rails framework. In addition, other principles such as git, databases, and more will be taught simultaneously due to their relation with web development. At a high level, the course will be divided between lecture and programming - culminating in an open-ended final group project.

Weekly Schedule
Class will meet once each week for 2 hours, which will include both lecture and lab time. The location and time will be 6:00 PM - 8:00 PM Wednesdays in 4 Leconte.
There will be 11 class sessions in total. A tentative schedule of weekly lecture topics follows:
- Ruby logic and environment configuration 9/13
- Views, partials, and embedded ruby 9/20
- Routes and controllers 9/27
- Models and associated migrations 10/4
- RESTful practices with CRUD 10/11
- Associations/relationships in databases 10/18
- Joins between models and schema design 10/25
- Implementation of a “full-stack” feature 11/1
- API implementation (JSON) 11/8
- Javascript frameworks with Rails 11/15
- Holiday: Non-instructional day 11/23
- Project presentations and summary 11/29

Methods of Instruction
Lecture time will be approximately sixty minutes while lab time will be for the remaining thirty minutes of class time. Lab time is a chance for students to work on homeworks/projects - while instructors are present - and get immediate assistance for any questions. As well, instructors will hold weekly office hours to further serve as a resource for students in answering questions, helping with homework, etc. Finally, students will participate in a group project towards the end of the semester to exhibit their knowledge through collaborative learning.
Course Learning Objectives
On completion of this course, students are expected to understand to an intermediate degree the following topics:
1. General web development
2. The Ruby on Rails framework
3. Git/version control
4. Website deployment
5. Database management

Required Readings
There are no required readings for this course - optional reading (mainly presentations) and practice resources will be posted on the course Piazza page during the semester.

Evaluation Procedures
For this course, there will be weekly homework and two larger project assignments (one guided project and one open-ended design final project). All assignment will be graded on both effort and accuracy - the goal of the course is to facilitate learning so perfect correctness will not be required. Please note, the staff reserves the right to add additional homework if necessary.

Late Assignment Policy: You have a total of four slip days for your assignments. These slip days can be used for any type of assignment, but you may use at most two slip days for project two.

Attendance policy: You are allowed only one unexcused absence without any penalty. If you are more than 15 minutes late to a lecture or leave a lecture more than 15 minutes early, this will count as an absence (lecture here denotes the lecture portion of class). If you have an important reason for why you cannot attend lecture, please contact the staff at least 24 hours beforehand. As such, excused absences do not deduct points when handled appropriately.

Grade Breakdown
Attendance: 20%
- 0-1 unexcused absences = 20/20
- 2 unexcused absences = 10/20
- 3 unexcused absences = 0/20
- 4 or more unexcused absences = automatic no pass (NP)

Homework: 25%
Project 1 (individual): 25%
Project 2 (group): 30%
A passing grade for this course is anything equal to or above 70%.
UC Berkeley Code of Ethics

“Neither this school, its students, nor its professional associations will condone cheating, lying, or any other misrepresentations. Moreover, anyone who willingly conceals these activities will be considered accomplices and equally culpable. Violations of the code of ethics will be referred to the University of California, Berkeley's Center for Student Conduct and Community Standards.”

Course Page, Discussion, and Resources

The course page can be found here: http://www.railsdecal.com/
We will be using Piazza for class-wide and private discussion:
https://piazza.com/class/j5hgtmdfx1r3lt

Resources will also be distributed through Piazza. In general, if you have questions for the staff, we encourage you to post your questions on Piazza (that way other students may see the responses as well). If you have any problems with Piazza, please email team@piazza.com.