CS 83R: Server-Side Ruby Web Programming
Section #1724

Syllabus – Fall, 2015

Instructor:	Howard Stahl
Session:	Online at www.smcclasses.net from September 21st – December 11th
Final Exam:	Online via www.smcclasses.net during the weekend of December 11th
Office:	Business 220R / 220G
Office Hours:	ONGROUND Wednesdays from 5:00-6:30 PM Tuesdays and Thursdays from 10:15-11:00 AM ONLINE Sundays from 7 – 9PM online
Online Office Hours:	Sundays from 7 – 9PM. My YahooIM ID is smc_stahl
Phone:	(310) 434-8015 (office) (310) 387-4374 (cell)
E-mail:	stahl_howard@smc.edu

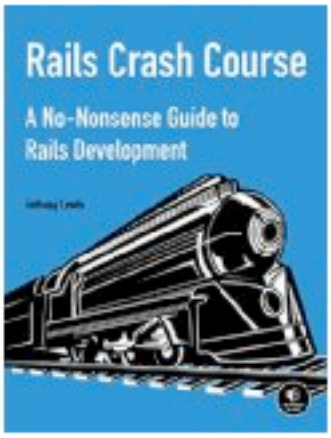
Course Description:
This course teaches how to design and write applications utilizing Ruby on Rails, an open-source web application framework based on the Ruby programming language. In this course, students will create applications that gather information from a web server, query databases and render results.

Student Learning Outcomes

1. Design and create applications using the Ruby programming language.
2. Build web applications utilizing Ruby on Rails.

Text/Materials:
Text: For Ruby, I will be supplying and referencing two free eBooks online in the course content.

Text:



Rails Crash Course : A No-Nonsense Guide to Rails Development by Anthony Lewis. No Starch Press, 1st Edition. ISBN: 1-593-275-722.

Software:
The course will require the following software environment:

- Ruby 1.9.3
- Ruby Developer Kit 4.5.2 (Windows) - not used by the Mac installation process
- Ruby Gems 2.0.3 (Windows) or 2.1.0+ (Mac)
- RVM 1.20.13 (Mac) – no used by the Windows installation process
- Rails 4.1.4
- Sqlite3

I am agreeing to support both Windows and Mac OS X. To that end, installers and install instructions have been provided in the online course content to assist students in setting up their own computers with all the necessary software. If you run into any trouble, please note that all the appropriate software for this class is installed on the hard drives of the lab computers. Copying of commercial software is not allowed and is an infringement of applicable copyright law. Students wishing to use tools other than those I support may do so but should not expect a high level of support should they run into difficulties with their environment.

In order to preserve my sanity, please don't stray far off the garden path. I can't be expected to bail people out of problems caused by software I have never used.

A word about versions:
In the Ruby on Rails universe, versions really matter. The language and framework change quickly. I have tested every program and example against the versions listed above. I cannot guarantee that they will work against newer versions. As I said, please stay on the garden path.

ANOTHER IMPORTANT WORD ABOUT VERSIONS:
Yes, I know there are newer versions of this stuff out there in the universe. But in the Ruby on Rails universe, versions really matter. The 64-bit version of Ruby is especially difficult (read as: buggy and unreliable) on Window 7 and 8. I do not advise any student to go down that road, as many prior students ran into many issues with it. Instead, please use the software I have made available to you on the following pages. Please.

Coursework:
In addition to reading assignments and in-class work, homework will be assigned. You are expected to have the reading assignments completed before the class session of each week. Homework is to be submitted at the start of class on the due date. LATE HOMEWORK WILL NOT RECEIVE FULL CREDIT.

Electronic Submission:
It is your responsibility to make certain that all files that are submitted electronically can be easily accessed from your submission folder. Following the naming conventions described in class is the best way you can ensure that you receive the highest grades for your assignments. Files that cannot be opened will receive a lower grade. It is very good idea to make a backup copy of your assignments!
You must follow the electronic submission guidelines to turn in all programming projects. You may choose to turn in Assignments via paper. This course will be making extensive use of the website http://www.smcclasses.net. You may choose to turn in homeworks there by following the electronic submission guidelines discussed in class. Please monitor that site regularly for important notices and announcements posted online, as mid-course corrections maybe necessary.

Course Website:
All students enrolled in this class have been provided access to a course website. You will find electronic copies of all the information presented and demonstrated in class available for downloading there. While the class has yet to get going, I highly recommend you familiarize yourself with the site and the way I am posting content for your use.
The course website is available from ***http://www.smcclasses.net***. Your username is the first letter of your first name followed by the first letter of your last name and then the last four digits of your student ID. Your initial password is same as your username. You will be forced to change your password and provide your email address when you first log into the system. As an example if my student ID were

000000, my username would be: hs0000 Once your profile is established, you can update and change your email address as frequently as you like.

Evaluation and Grading:

Programming Projects: During the semester, a number of programming projects will need to be completed. There will be a total of fourteen programming projects. These Programming Projects need to be turned in on the date scheduled. The lowest of your project scores will be dropped and not count toward your final grade. Since one of your scores will be dropped, late projects will not be accepted. YOU WILL BE DROPPED FROM THE CLASS IF YOU FAIL TO TURN IN THREE PROGRAMMING PROJECTS.

Class Project: During the semester, you will complete a class project. The project will consist of the design, development, test, and debug of a Rails Web application of your choice. Here you get to solve a problem of interest to you and be creative. The project does not have to be anything fancy, but you must spend at least twenty hours working on it. Be creative and have fun. The course website will provide you with further information about this project and my expectations for your effort.
YOU WILL BE DROPPED FROM THE CLASS IF YOU FAIL TO COMPLETE THE CLASS PROJECT.

Midterm: There will be one midterm roughly half way through class. YOU WILL BE DROPPED FROM THE CLASS IF YOU FAIL TO TAKE THE MIDTERM.

Final Exam: A comprehensive final exam will be given at the end of the semester. It will cover most topics covered during the course.

Assessment:

Category	Point Value	Total	Percent
Programming Projects (14)	15	180	36.00%
Class Project	100	100	20.00%
Midterm (1)	100	100	20.00%
Final Exam (1)	120	120	24.00%

Grading Scale	
500-450	A
449-400	B
399-350	C
349-300	D
0-299	F

Late Policy

All assignments are due on the scheduled dates. Late work is highly discouraged because you need to keep up with the class to succeed. Unless prior arrangements have been made with the instructor, no late assignments will be accepted.

Attendance

Attendance in class is expected and necessary for maximum credit. For an online class, this attendance policy means that students should be logging in to the course website frequently, reviewing the current course content, reading the discussion board and posting on them as needed. Any student who does not login to the course website for two consecutive weeks without having made prior arrangements with the instructor will be dropped from the course.

Cheating

All work you submit must be your own individual work. If you copy another person's work or let another person copy your work, you are cheating. Cases where submitted work looks alike will result in an "F" on the project and will be subject to the student discipline process. The College's Code of Academic Conduct applies to each and every course as well as each and every member of the academic community, faculty and students alike. IN ORDER TO JOIN THIS SECTION, ALL STUDENTS ARE

REQUIRED TO SIGN THE CS83 SURVEY STATING THAT THEY ARE AWARE OF AND WILL FOLLOW THE ACADEMIC HONESTY POLICY.

Use of the Discussion Board and Email
The Discussion board in the online course site is intended to facilitate questions and answers. You may post questions as long as you use proper language that is respectful and does not attack any other person in the class. If you abuse the discussion board you will be referred to the school's Disciplinarian. This may also result in further actions taken by the Disciplinarian's office including but not limited to suspension from class.

Students with Special Needs
In compliance with the Americans with Disabilities Act (ADA), all qualified students enrolled in this course are entitled to "reasonable accommodations". Any student who needs special attention should speak privately with the instructor to describe their needs. This should be done within the first two weeks of the start of class.

Incomplete Policy
Students will not be given an incomplete grade in the course without sound reason and documented evidence. In any case, for a student to receive an incomplete, he or she must be passing and have completed a significant portion of the course. Make sure you are aware of the college drop policy. In case of absence, it is your responsibility to find out what material was covered and what assignments were given.
IT IS YOUR RESPONSIBILITY TO DROP/WITHDRAW FROM CLASS BY THE PUBLISHED DEADLINES OR YOU WILL RECEIVE A GRADE.
In Fall 2015, October 6 is the last day you can drop any class and not receive W on your permanent transcript. You can still drop up until November 22 and receive a W.

Tentative Class Schedule
Below is a tentative schedule and is subject to change. If I have failed to mention it by this point, you should be aware that this is only the third run of this class. As a result, there are sure to be in-flight corrections as the class proceeds. I'd like to encourage you to provide me feedback so I can make the class effective for you and your peers.

Week Of	Topics
September 21st	Complete Units 1 and 2 Please Get All Software Issues Resolved On Whatever Computer You Plan To Use
September 28th	Complete Units 3 and 4 Post Homework Solutions For Units 3 and 4 By Sunday, October 4th at midnight
October 5th	Complete Units 5 and 6 Post Homework Solutions For Units 5 and 6 By Sunday, October 11th at midnight
October 6th	*Last Day To Drop And Avoid W On Transcript*
October 12th	Complete Units 7 and 8 Post Homework Solutions For Units 7 and 8 By Sunday, October 18th at midnight
October 19th	Complete Unit 9 Post Homework Solutions For Units 7 and 8 By Sunday, October 25th at midnight
October 26th	Complete Unit 10 Post Homework Solution For Unit 9 By Sunday, November 1st at midnight
November 2nd	**Midterm Available Online** **Midterm Must Be Taken By November 8th At Midnight** Post Class Project Definition Document By Sunday, November 8th at midnight
November 9th	Complete Units 11 and 12 Post Homework Solution For Units 11 and 12 By Sunday, November 15th at midnight
November 16th	Complete Unit 13 Post Homework Solution For Unit 13 By Sunday, November 22nd at midnight Post Class Project Data Layer And Scaffolding By Sunday, November 22nd at midnight
November 22nd	*Last Day To Withdraw With Guaranteed W On Your Transcript*
November 23rd	Complete Unit 14 Post Homework Solution For Unit 14 By Sunday, November 28th at midnight
November 29th	Complete Unit 15 Post Homework Solution For Unit 15 By Sunday, November 30th at midnight Post Class Project Finders And Validations By Sunday, November 30th at midnight
December 7th	**Final Exam Available Online** **Final Exam Must Be Taken By Sunday, December 13th At Midnight** Post Class Project By Sunday, December 13th at midnight