

San José State University

CS174, Server-side Web Programming, Section 1, Fall, 2015

Course and Contact Information

Instructor:	H. Chris Tseng
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Office Hours:	Tue/Thur.:6:45AM-7:30 AM, 10:15 AM -10:30 AM and by appointment or email
Class Days/Time:	12:00 PM – 1:15 PM (sec. 1) Tue. and Thur.
Classroom:	MH233
Prerequisites:	CS 46B (with a grade of "C-" or better in each)

Course Description

Catalog description: Development and deployment of multi-tier web-based applications. Introduction to HTML, XML, enterprise design patterns, web services and database access. (See prerequisites description on top of this page)

Learning Outcomes

Upon successful completion of this course, students will have:

SLO 1 (a) An ability to apply knowledge of computing and mathematics to solve problems

SLO 2 (b) An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution

SLO 3 (c) An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs

SLO 4 (i) An ability to use current techniques, skills, and tools necessary for computing practice

SLO 5 (j) An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices

SLO 6 (k) An ability to apply design and development principles in the construction of software systems of varying complexity

(The above learning outcomes (a) – (k) are provided by ABET for CS program under the URL <http://www.abet.org/accreditation/accreditation-criteria/criteria-for-accrediting-computing-programs-2015-2016/#outcomes>. Learning outcomes related to CS174 are listed above.)

Course Learning Outcomes (CLO)

Upon successful completion of this course, a student is expected to have the following skills and concepts.

Upon successful completion of this course, a student is expected to have the following skills and concepts. HTML and CSS; XML; Python: Variables, control structure, array, input and output, functions, linking to databases, Object Oriented design, Django web framework, web applications; Javascript and AJAX.

1. CLO 1 HTML and CSS;
2. CLO 2 XML;
3. CLO 3 Python: Variables, control structure, array, input and output, functions, linking to databases, Object Oriented design, Django web framework, web applications;
4. CLO 4 Javascript and AJAX.

Required Texts/Readings

Textbook

Python: Visual QuickStart Guide, 3rd Edition, by Toby Donaldson, Peachpit Press, 2013 (ISBN-10: 978-0321929556) at <http://www.amazon.com/Python-Visual-QuickStart-Guide-Edition/dp/0321929551/>

HTML and CSS: Visual QuickStart Guide, 8th Edition, by Castro & Hyslop, Peachpit Press, 2013 (ISBN-10: 0321928830) at http://www.amazon.com/gp/product/0321928830/ref=as_li_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=0321733452&linkCode=as2&linkId=ADALTPPOSNNQ22US

Other Readings (reference)

Python, Essential Reference (4th Edition), David Beazley, Addison-Wesley Professional, 2009 (ISBN-13: 978-0672329784) at http://www.amazon.com/Python-Essential-Reference-David-Beazley/dp/0672329786/ref=sr_1_1?s=books&ie=UTF8&qid=1440048112&sr=1-1&keywords=python+essential+reference/

JavaScript: Visual QuickStart Guide, 9/E, by Smith & Negrino, Peachpit Press, 2014 (ISBN-10: 0321996704) at http://www.amazon.com/gp/product/0321996704/ref=as_li_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=0321733452&linkCode=as2&linkId=ADALTPPOSNNQ22US

XML: Visual QuickStart Guide, 2/E, by Goldberg, Peachpit Press, 2008 (ISBN-10: 0321559673) at http://www.amazon.com/gp/product/0321559673/ref=as_li_tl?ie=UTF8&camp=1789&creative=9325&creativeASIN=0321733452&linkCode=as2&linkId=ADALTPPOSNNQ22US

Other equipment / material requirements (include if applicable)

You will be required to have a wireless-network ready laptop computer to take online quizzes in the class. You will also need to use your own laptop with wireless access to submit your software assignment inside SJSU campus. Your laptop needs to have wireless capability and you need to register a free wireless account at <http://www.sjsu.edu/sjsuone/>. For information on typical laptop requirement see Wireless Requirements update announcement under <http://www.cs.sjsu.edu/>. The instructor is not responsible for providing either laptops or alternatives.

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in [University Policy S12-3](http://www.sjsu.edu/senate/docs/S12-3.pdf) at <http://www.sjsu.edu/senate/docs/S12-3.pdf>.

a. Projects:

A team project will be provided for you to practice web programming principles.

This team project will be a collaborated group project. Web based projects with 4 persons per team will be assigned. You are free to choose your partners from the same section you registered with. You are free to choose your own partners but you cannot change your partners in the middle of the project. Progressive design and implementation of the term project will be done through assignments.

b. Exams:

There will be one midterm and one final.

c. Quizzes:

There will be 3-4 quizzes and each will be counted as a HW. Some of the quizzes are part of the online lesson activities.

d. Homework:

There will be 3-4 HWs. Intermediate milestones of your team project will be graded as HWs.

e. Tentative course exam and HW due dates:

(Please note that this is “subject to change with fair notice”)

HW/Quiz/Group Project Milestones: One of these will be assigned every 2-3 class meetings.

Midterm: Tuesday, Oct. 13, 2015

Final: (Per SJSU final schedule) 9:45 AM, Friday, December 11, 2015

NOTE that [University policy F69-24](http://www.sjsu.edu/senate/docs/F69-24.pdf) at <http://www.sjsu.edu/senate/docs/F69-24.pdf> states that “Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading.”

Grading Policy

Grades:

HW assignments and quizzes	30 %
Midterm	20 %
Group Project	30 %

Final Exam	20%
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Grading information:

Grades will be assigned as described below. These intervals, however, may change (i.e. either way!) according to the performance of the class as a whole. C- is a passing grade.

- A: [93, 100]
- A-: [90, 93)
- B+: [87, 90)
- B: [83, 87)
- B-: [80, 83)
- C+: [75, 80)
- C: [70, 75)
- C-: [65, 70)
- D+: [60, 65)
- D: [55, 60)
- D-: [50, 55)
- F: [0, 50)

Policies

Penalty (if any) for late or missed work:

No credit will be given for assignments turned in late. No makeup exams or quizzes will be given.

Incomplete grade will only be assigned to students with sudden events such as medical or personal emergency.

Written proof is needed in all cases.

Note that “All students have the right, within a reasonable time, to know their academic scores, to review their grade-dependent work, and to be provided with explanations for the determination of their course grades.” See [University Policy F13-1](http://www.sjsu.edu/senate/docs/F13-1.pdf) at <http://www.sjsu.edu/senate/docs/F13-1.pdf> for more details.

Classroom Protocol

You are expected to attend classes. If you cannot attend, it is your responsibility to get a copy of the lecture notes and class announcements from a reliable classmate. The instructor reserves the right to ignore frivolous or inappropriate e-mail inquiries.

University Policies

General Expectations, Rights and Responsibilities of the Student

As members of the academic community, students accept both the rights and responsibilities incumbent upon all members of the institution. Students are encouraged to familiarize themselves with SJSU’s policies and practices pertaining to the procedures to follow if and when questions or concerns about a class arises. See [University Policy S90-5](http://www.sjsu.edu/senate/docs/S90-5.pdf) at <http://www.sjsu.edu/senate/docs/S90-5.pdf>. More detailed information on a variety of related topics is available in the [SJSU catalog](http://info.sjsu.edu/web-dbggen/narr/catalog/rec-12234.12506.html), at <http://info.sjsu.edu/web-dbggen/narr/catalog/rec-12234.12506.html>. In general, it is recommended that students begin by seeking clarification or discussing concerns with their instructor. If such conversation is not possible, or if it does not serve to address the issue, it is recommended that the student contact the Department Chair as a next step.

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's [Catalog Policies](http://info.sjsu.edu/static/catalog/policies.html) section at <http://info.sjsu.edu/static/catalog/policies.html>. Add/drop deadlines can be found on the current academic year calendars document on the [Academic Calendars webpage](http://www.sjsu.edu/provost/services/academic_calendars/) at http://www.sjsu.edu/provost/services/academic_calendars/. The [Late Drop Policy](http://www.sjsu.edu/aars/policies/latedrops/policy/) is available at <http://www.sjsu.edu/aars/policies/latedrops/policy/>. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the [Advising Hub](http://www.sjsu.edu/advising/) at <http://www.sjsu.edu/advising/>.

Consent for Recording of Class and Public Sharing of Instructor Material

[University Policy S12-7](http://www.sjsu.edu/senate/docs/S12-7.pdf), <http://www.sjsu.edu/senate/docs/S12-7.pdf>, requires students to obtain instructor's permission to record the course and the following items to be included in the syllabus:

- “Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material.”
 - It is suggested that the greensheet include the instructor's process for granting permission, whether in writing or orally and whether for the whole semester or on a class by class basis.
 - In classes where active participation of students or guests may be on the recording, permission of those students or guests should be obtained as well.
- “Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.”

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The [University Academic Integrity Policy S07-2](http://www.sjsu.edu/senate/docs/S07-2.pdf) at <http://www.sjsu.edu/senate/docs/S07-2.pdf> requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](http://www.sjsu.edu/studentconduct/) is available at <http://www.sjsu.edu/studentconduct/>.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. [Presidential Directive 97-03](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the [Accessible Education Center](http://www.sjsu.edu/aec) (AEC) at <http://www.sjsu.edu/aec> to establish a record of their disability.

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(Please note that the course calendar is “subject to change with fair notice”)

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	8/20/2015-8/28/2015	HTML Text, Images, Links and webpage (reading: textbook and online material)
1	8/20/2015-8/28/2015	HTML Text, Images, Links and webpage (reading: textbook and online material)
2	8/31/2015-9/4/2015	CSS Selectors, Formatting, and Layout (reading: textbook and online material)
2	8/31/2015-9/4/2015	CSS Selectors, Formatting, and Layout (reading: textbook and online material)
3	9/7/2015-9/11/2015	HTML Lists, Forms, Tables, Video and Audio (reading: textbook and online material)
3	9/7/2015-9/11/2015	HTML Lists, Forms, Tables, Video and Audio (reading: textbook and online material)
4	9/14/2015-9/18/2015	XML (reading: textbook and online material)
4	9/14/2015-9/18/2015	XML (reading: textbook and online material)
5	9/21/2015-9/25/2015	Python variables, numbers, and strings (reading: textbook and online material)
5	9/21/2015-9/25/2015	Python variables, numbers, and strings (reading: textbook and online material)
6	9/28/2015-10/2/2015	Input and output (reading: textbook and online material)
6	9/28/2015-10/2/2015	Input and output (reading: textbook and online material)
7	10/5/2015-10/9/2015	Python Control Structure (reading: textbook and online material)
7	10/5/2015-10/9/2015	Python Control Structure (reading: textbook and online material)
8	10/12/2015-10/16/2015	Midterm Review
8	10/12/2015-10/16/2015	Midterm
9	10/19/2015-10/23/2015	Python Array (reading: textbook and online material)

Week	Date	Topics, Readings, Assignments, Deadlines
9	10/19/2015-10/23/2015	Python Array (reading: textbook and online material)
10	10/26/2015-10/30/2015	Python Functions (reading: textbook and online material)
10	10/26/2015-10/30/2015	Python Functions (reading: textbook and online material)
11	11/2/2015-11/6/2015	Python: linking to databases (reading: textbook and online material)
11	11/2/2015-11/6/2015	Python: linking to databases (reading: textbook and online material)
12	11/9/2015-11/13/2015	Django web framework (reading: textbook and online material)
12	11/9/2015-11/13/2015	Django web framework (reading: textbook and online material)
13	11/16/2015-11/20/2015	Object Oriented design in Python (reading: textbook and online material)
13	11/16/2015-11/20/2015	Object Oriented design in Python (reading: textbook and online material)
14	11/23/2015-11/27/2015	Object Oriented design in Python (reading: textbook and online material)
14	11/23/2015-11/27/2015	Javascript and AJAX (reading: textbook and online material)
15	11/30/2015-12/4/2015	Javascript and AJAX (reading: textbook and online material)
15	11/30/2015-12/4/2015	Javascript and AJAX (reading: textbook and online material)
16	12/7/2015-12/8/2015	Review
Final Exam	12/11/2015	<u>Per SJSU final schedule</u> 9:45 AM, Friday, December 11, 2015 in MH22)