COMP 484/L: Web Engineering I. Spring 2011

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COMP 484	13960	MW	16:30 - 17:20	JD1538
COMP484L	13996	MW	17:20 - 18:30	JD1538

OFFICE HOURS: M 15:00-16:15 W 15:00-16:15, email at any time, I will generally respond within 24 hours (excluding weekends and holidays).

COURSE SYNOPSIS: This course will cover many aspects of programming together with applied tools and techniques used in implementation and management Internet based businesses. Focus will be on technology, not business. The course is designed for experiential learning; you learn by doing and application of knowledge gathered from reading books and papers. The lab will involve a good deal of programming assignments using scripting languages: JavaScript, PHP, minor C# as used ASP.net. Both client side and server side programming will be covered. You will also learn web server administration and develop a multi-tiered web application using state of the art tools. The lab has no final. There will be a good deal of self study using online courses, and tutorials. The lecture and the lab components are totally synergistic; you cannot take one without the other. In this syllabus the term coursework refers to all homework assignments, project assignments, quizzes and exams.

This syllabus is subject to change. Only the online copy posted in Moodle is current, printed copies may be out of date. You will be notified of all significant changes.

PREREQUISITES:

1. COMP 322/L or COMP 380/L or (CIT 360 and IS 451); CS department requirements for enrolling in 400 level class
2. Proficiency in programming.
3. Ability to cope with the dynamic and imperfect world of web programming, where things are not as cut and dry as developing desktop applications.
4. Ability and willingness to learn by experimentation and discovery.

TOPICS (Not in strict order of coverage): Internet architecture, Web 2.0, client side programming (XHTML, JavaScript, CSS, dynamic event model, Ajax, DOM, RICH Internet applications, website tools), Server management (IIS, Apache), server side programming (ASP.net, PHP, 3 tiered internet applications with online access to databases), basic XML, Internet security issues. Lab assignments will involve good deal script programming, setting up systems and administration of websites and learning to use various tools.

TEXT BOOK: "Internet & World Wide Web How to Program", Fourth Edition, 2008, ISBN: 0131752421"; Deitel & Deitel, Prentice Hall. I will follow the text book in many cases but not for every lesson. We will also use of tutorials available on the internet. There will be a good deal of self study and use of online tutorials. Course handouts will be available in Moodle.

The course notes supplement the text book, not replace it.

MOODLE AND EMAIL: CSUN IT will register you in Moodle automatically (typically 24 hour after adding the class). All course notes, assignments will be posted in Moodle; due dates will be posted in the Moodle calendar.

All important class announcements will be posted in the Moodle General forum and all such announcements will be automatically forwarded to your CSUN email address. If you do not use CSUN Webmail, then please set up email forwarding. In all cases, should a conflict arise, the Moodle announcements will take precedence over all other forms of communication.

It is your responsibility to keep up with the class by reading the emails and Moodle posts. Please make sure that your CSUN email account is working and not over quota due to junk mail etc.
http://www.csun.edu/it/services/emailcal.html#students

I am happy to answer emails related to procedural questions on Comp484 and also technical questions on topics and issues covered in the course. Typically, my response will be forwarded to all students in class.

If you are looking for the definitions of web engineering terms or explanations of common Internet related concepts then I suggest that you look first in the text book. You can also find useful and accurate information on such issues in Wikipedia or by doing a search on Google. Email me if you still have a question or doubt on the issue(s).

CLASS ETIQUETTE: *Please silence all pagers and cell phones before entering classroom.* Please, no snoozing in class, because it is not professional behavior. If you feel sleepy, then walk out of the class room and return when active and awake. You can even stand at the back of the room to beat that drowsy feeling!! Read "How to ace my class" in my website.

LAB ETIQUETTE: Food and drinks are never allowed in the lab; bottled water with the cap on is OK. The lab surveillance cameras are on 24/7. Willful damage to the lab equipment may result in your inability to complete the class assignments resulting in a F grade.

During the lab and class sessions, I expect you to use the computing equipment for doing Comp 484/L related coursework, not surf the web, play games, or engage in other non-course related activity. The lab computers have sound cards, but no speakers, you can bring head phones.

SUBMISSION OF CLASS ASSIGNMENTS: Please note also that you are expected to submit all assignments; any assignment not submitted will earn NEGATIVE points equal to 50% of the max points for the assignment not submitted. This penalty will also apply when it is clear that the submission is grossly inadequate, e.g., when a submission is made primarily for the purpose of avoiding the non-submission penalty.

Assignments designated for Moodle submission are graded within Moodle and cannot be submitted by email or in class; emailing copies to me serve no purpose as I cannot submit these to Moodle on your behalf. All Moodle assignments must be submitted by the due date, Moodle will not accept late submissions even if it is late by only 1 second!! Configuring Moodle to accept late submissions for individual students require a good deal of cumbersome and manual processing, I will undertake to do this only for certified medical reasons and genuine emergencies. Extension requests based on lack of planning your part, or schedule conflict with other classes/ work are not acceptable reasons.

All assignment submissions should be of professional quality; always do a spelling & grammar check before submission.

If an assignment calls for printed submission then please submit it to me in class, not in my office, or in the comp science office. Disorganized and scruffy submissions exhibit a lack of interest and often represent thoughtless work, hastily created at the last minute. Such submissions generally earn grades of C or lower.

WORKING WITH A PARTNER IN CLASS ASSIGNMENTS

Some coursework can be done with a partner.

a) If you are going to do any coursework with a partner, then please notify me by email me in ADVANCE at shan@csun.edu Give your name, your partner's name, and the title of the assignment.

b) There should be only one formal submission of the work and the names of both students should appear on the very first page of the submission.

c) Both partners must participate and contribute equally to the solution and the solution must appear in each partner's Labs and Assignments folders.

COMPUTING DEVICES DURING QUIZZES & EXAMS: Use of **c**omputing devices is not permitted during quizzes and exams. All computing devices (including cell phones & PDAs) must remain off, or in standby mode, throughout the duration of the quizzes and exams.

EVALUATION CRITERIA FOR COMP484 (Class): You have the opportunity to earn a maximum of 100 points for each assignment. Aggregate class points is the weighted sum of the points earned in the individual assignments (ΣAssignment point .Weight)

Two Quizzes	Weight: Quiz #1 15%, Quiz #2 20%. Will include questions based on lab work. See Moodle calendar for quiz dates. You will always get at least a week's notice.
One Final	Weight: 30% Will include questions based on lab work. The final exam will be held on the date and time listed in SOLAR.
Homework and other assignments	Weight: 30%. Several assignments; involving internet based research, writing and experimentation with software tools and techniques and writing research papers. Homework may also include some assignments on material covered in the lab.
Portfolio	Maintain a portfolio in the Labs and Assignments folder which will be discussed in class. A copy of **ALL** lab and class assignments must be stored in the Labs and assignments folder and using the convention that will be described in class. Assignments that are not properly stored in the Labs and Assignment folders cannot be graded.
Attendance and participation	Weight: 5%. Earned by timely attendance, properly organized portfolio. Please sign your name in the attendance roster. Attendance is taken on a random basis and at random times.
Makeup & extra credit	Not given.

Please arrange to take all quizzes and the final exam on the scheduled dates; I will reschedule only for CERTIFIED MEDICAL emergencies.

Letter grades for homework and other assignments have the following values

A+ = 95 to 100% (Excellent and exceptional, earned rarely). A= 90% (excellent), A- = 85% (Very good, nearly excellent); B+= 80% (Quite good); B= 75% (Good); B- = 70% (Good enough); C+ = 65% (Acceptable); C = 60% (Acceptable); C- = (Acceptable but poor); D+ = 55% (Poor); D = 50% (Poor); D- = 45% (Very poor); F = <45% (Fail)

A sample final class grade scale is shown below, this is for information only. The actual class grade scale is determined by the professor at the end of the semester in which the grade boundaries may slide up or down based on overall class performance: (A 85-100%); (A- 83-84%); (B+ 80-82%); (B 75-79%); (B- 70-74%); (C+ 65-69%); (C 60-64%); (C- 57-59%); (D+ 54-56%); (D 51-53%); (D- 48-50%); F < 48%.

EVALUATION CRITERIA FOR COMP484L (Lab)

1. The completed lab assignments must work on the specified submission platform which could be your lab computer, CSUN server, or virtual server. The submission platform is where I will grade the work and will be specified in the assignment description.
2. To earn full credit the assignments need to work on the submission platform; there will be very little credit for partially completed work.
3. You will earn more points by developing simple and elegant solutions and by using disciplined design and programming techniques. Lengthy, cumbersome and overly complex solutions will not earn full credit, even when they provide the desired output.
4. For some assignments I will ask you to complete and submit self evaluation forms. These forms are made available AFTER the assignment due date is over.
5. I expect you to create strategic test cases to check that the solutions you created produce desired results. I expect to see evidence of testing (test descriptions, test results) in the labs and assignments folder.
6. You need to demonstrate that the solutions you submitted are the result of your own effort. The best way to do so is to attend the lab sessions regularly and to develop and debug the assignments in lab. Solutions that turn up on the due date are not acceptable unless I see you work on solving the problems in the lab.
7. All lab work, including self evaluation and test results must be stored in your portfolio (Labs and Assignments folder described in Moodle.)
8. Some lab assignments can be done with a partner, the assignment specification will say when this is the case. When working with a partner the solution must be installed and be functional in each partner's submission platform. Both students must complete and submit the self evaluation forms and each self evaluation form must specify the name of the partner and the identity of the partner's submission platform.
9. Typically, I grade the lab assignments at the end of the semester, when you will not be present; therefore it is in your best interest to have the Labs and Assignments folder complete and organized in the standard format. *This method of grading is to encourage you to maintain proper and complete documentation of your work, as you would be expected to do in a mature software development organization outside school.*
10. Although I grade most of the lab assignments at the end of the semester, each assignment will have a due date and to earn full credit the assignment must be completed by the due date. The completion date will be determined by the "Date Modified" entry of the files as viewed with Window's Explorer.
11. You can request an extension by for good cause. All extension requests must be made by email, no verbal request please. The extension request should specify: your name, lab assignment title, reason for the extension, and the new date by when you will submit the lab assignment. Lab assignments submitted within the extension period will not incur any late penalty. Except in case of emergencies, an extension request needs to be submitted before the due date of the lab assignment. Please note that extensions are not possible for Moodle submissions.

LABORATORY COMPUTER: To do your lab work you will be assigned a real or virtual computer with administrative privileges. Please do not install any illegal or pirated software on your lab computer. All computer images start as identical copies. Given your admin privilege, you can mess up your computer by doing any number of things including installing and uninstalling programs, changing the system settings, etc. Many such actions result in a malfunctioning computer which can no longer be used to do the required lab assignments. I have heard many stories on how the "computer just stopped working"! Except for hardware failure, there is no reason, why your computer should behave differently from any others. Therefore, during the end of the semester when I am told that a computer does not work I will not be sympathetic.

PRESERVING LAB WORK ASSIGNMENTS: DO NOT DELETE old versions of your programs. Do all new development using a copy of the older version and preserve the older version. Make a habit of taking periodic backup copies of your Labs and Assignment Folder on USB drives, U; or Z: drives.

POLICY ON CHEATING AND PLAGIARISM: There will be ZERO TOLERANCE against plagiarism and cheating, typically resulting in the F grade for the class. Section entitled "ACADEMIC DISHONESTY" in the CSUN catalog gives definition of plagiarism and cheating; this entire section is included in this syllabus by reference. In this class, the term plagiarism also includes the case where a student submits material for grading that is authored by someone else as his or her own work. Examples of such plagiarized work include term papers, computer programs, design solutions, and answers to questions written by other than the student submitting the work for review and/or grading. Please note that:

a) Peer review of your work by others is both acceptable and encouraged. Peer review involves reading and commenting of your work by others for the purpose of identifying areas of weakness and excellence. A peer review does not provide solutions or answers. Peer review comments are just that-comments; you should neither seek, nor use any actual solutions or answers that might be provided by the reviewers.

b) Students can also collaborate in studying the papers for review; however, each student must submit separate and distinct questions.

Any student found cheating or plagiarizing will be assigned the grade F. Additionally, penalty points equal to 100% of the maximum points for the assignment in which cheating or plagiarism was attempted or discovered will be assigned. For example, if the assignment contributed 10 points to the total class points, then 10 points will be deducted from the total class points. The student will not be given an opportunity to resubmit the assignment or retake the quiz/exam.