Course Syllabus for CS 435
Software Engineering
Spring 2014

Basic Course Information:

Instructor: Sharon Tuttle

Lecture times and location: Tuesday, Thursday 3:00 pm - 4:20 pm SH 002

Instructor's office: BSS 322

Instructor's e-mail: st10@humboldt.edu or sharon.tuttle@humboldt.edu or smtuttle@humboldt.edu

Instructor's office phone: (707) 826-3381

Instructor's office hours: Monday, Wednesday 3:00 - 4:30 pm

Tuesday, Thursday 11:00 am - 12:00 pm or by appointment

Course public web page: http://users.humboldt.edu/smtuttle/ or follow link from course Moodle site

Course Description:

From the HSU catalog: Introduction to software engineering principles, including discussion of development methodologies, requirements analysis, project planning, software design, construction, management, and quality assurance.

This is an undergraduate-level introductory course in software engineering, described in the ACM/IEEE-CS Joint Task Force on Computing Curricula's Computer Science Curricula 2013 as "the discipline concerned with the application of theory, knowledge, and practice to effectively and efficiently build reliable software systems that satisfy the requirements of customers and users." Course topics will include software engineering principles, development methodologies, requirements analysis, project planning, software design, software construction, software process metrics, project management, software testing, quality assurance, and team processes.

In this course students will enhance their existing skills not only in programming but also in oral and written communication and in working as part of a team. Course content is delivered through a combination of lectures,
in-class activities, written homework, technical writing assignments, and a significant team project in which students apply some of the software engineering principles discussed. It is also expected that students will participate in a formal presentation of their team project.

**Course Objectives:**

After successfully completing this course, students should be able to:

• for each of various software project scenarios, describe the project’s place in the software life cycle, identify the particular tasks that should be performed next, and identify metrics appropriate to those tasks.

• apply key elements and common methods for elicitation and analysis to produce a set of software requirements for a medium-sized software system.

• demonstrate the capability to use a range of software tools in support of the development of a software product of medium size.

• distinguish between the different types and levels of testing (unit, integration, systems, and acceptance) for medium-size software products, and create, evaluate, and implement a test plan for a medium-size code segment.

• demonstrate through involvement in a team project the central elements of team building and team management.

• participate in a team capstone project whose final report includes written justifications and rationales for design decisions made.

**CS Program Learning Outcomes that this course addresses:**

This course addresses departmental learning outcomes of:

• Computational Thinking

• Technical Writing

• Self-Directed Learning

• Communicating and Collaborating

This course addresses computational thinking, technical writing, self-directed learning, and communicating and collaborating at advanced levels.

**HSU Learning Outcomes that this course addresses:**

This course explicitly contributes to students’ acquisition of skills and knowledge relevant to HSU Learning Outcomes:

HSU graduates will have demonstrated:

• Effective communication through written and oral modes.

• Critical and creative thinking skills in acquiring a broad base of knowledge and applying it to complex issues.

• Competence in a major area of study.

• Appreciation for and understanding of an expanded world perspective by engaging respectfully with a diverse range of individuals, communities, and viewpoints.

HSU graduates will be prepared to:

* Some of these are adapted from the ACM Computer Science Curriculum 2001, available from link at: [http://www.acm.org/education/curricula-recommendations](http://www.acm.org/education/curricula-recommendations)
• Succeed in their chosen careers.
• Take responsibility for identifying personal goals and practicing lifelong learning.

**Course Prerequisites:**
CS 334 and CS 335, or (very likely, because of the ongoing transition from the "old" to the "new" CS program) instructor's consent. (You will receive this consent if you have had CS 328 and CS 374, the prerequisites for CS 435's upcoming replacement, CS 458.)

**Required Course Materials:**
• Turning Point RF Response Clicker, available at the campus bookstore
  – BEWARE!! My understanding is that HSU does NOT support Responseware, EVEN THOUGH the TurningTechnologies module in Moodle may MENTION it!
  SO -- I would recommend that you DO NOT PURCHASE Responseware for this course, since students have told me they do NOT give refunds if you are unable to use it!
• Any additional required readings will be made available either via on-line links or via resources available through the HSU Library such as the ACM Digital Library and Safari TechBooks Online.

**Clickers:**
We will be using Turning Technologies student response clickers in class. There is significant literature indicating that using clickers may increase student engagement and success in learning.

Students purchase this clicker (they are available from the campus bookstore); purchased clickers can be returned at the end of the semester for a partial refund of the purchase price or they can be kept for use in future HSU courses. You register your clicker at the beginning of each semester by logging into Moodle and going to the course Moodle site; you should then be asked to enter your clicker code (consisting of 6 characters/digits) from the back of your clicker when requested. You then bring your clicker to every class meeting.

I hope to run tests of the system during the first week's class meetings, and hope to begin asking questions that "count" during the second week's class meetings. Therefore, you must purchase your clicker and register it as soon as possible. If there is an issue with this (for example, if the bookstore runs out of clickers), contact me immediately.

Also, please note that use of another CS 435 student's clicker, or having someone else use your clicker in a CS 435 class session -- that is, pretending that someone is in class who actually is not -- is considered to be cheating, with the same policies applying as would be the case if you turned in someone else's work as your own or permitted someone else to copy your work. Please ASK ME if you are not sure what I mean by this.

In this particular course, clickers will be used in two different, distinct ways.

**Clicker use #1:**
One way in which these clickers will be used is for in-class questions, which will be interspersed within class sessions. These will usually be given in a think-pair-share fashion, where you answer a question first individually, and then, if the answers vary sufficiently, you discuss your answer with another student who gave a different answer, trying to persuade them that yours is the correct answer, and then you can change your answer if you wish. The response system will record the overall class response percentages as well as keep track of
Typically, you will receive:

- **2 points** for a correct answer,
- **1 point** for an incorrect answer, and
- **0 points** for no answer,

but with a **maximum** semester clicker-questions grade of **120**.

(There may be some no-point questions from time-to-time as well -- such questions will be noted if/when they come up.)

Thus you will be rewarded for regular attendance and participation. If you miss a class session, you miss that day's clicker questions and cannot make them up. However, there will be a sufficient number of questions asked to allow for the possibility of extra credit (up to a **maximum** clicker grade of **120**) or to make up for a day that you are out due to illness (although note that you are still responsible for finding out what you missed on such days).

If you forget your clicker for a class meeting, then **up to 5 times** you may still receive some clicker credit, **minus a 2-point penalty**, by e-mailing me your clicker answers for that day, **by midnight on that day**, using a Subject: line of: **Subject: CS 435 Clicker Answers for <date>**. Later e-mails, or e-mails without the proper Subject: line, might not be accepted for credit.

The idea is that the clicker questions will help you to see if you are starting to understand concepts being discussed; sometimes they will also provide review of concepts discussed previously. Clicker questions are typically quite different from exam questions (since clicker questions are typically multiple-choice questions, while exam questions will rarely be multiple-choice). They still enable you to get some immediate feedback regarding whether you are grasping course concepts, whether you need to pay more attention to course discussions and/or readings, etc. They may even help me to know what concepts might need more explanation in-class.

**Clicker use #2**

Because of the nature of this particular course, clickers will also be used in a second, separate way -- to administer reading quizzes. The purpose of these quizzes is simply to encourage class members to do assigned reading in-advance of our in-class discussion of that reading. (Past experience has shown that such discussions, particularly of the essays in "The Mythical Man-Month", are much more interesting and successful -- and less lead-balloonish in nature -- when the majority of the class has done the reading in advance.)

Unlike the typical during-lecture clicker questions, then:

- because the whole point here is to encourage you to do the assigned reading before the in-class discussion of that reading, you will **not** be permitted to discuss your answers to these questions with other class members before giving your final answer, and these will be "closed book and closed note" questions, with no references permitted.
- the questions making up the reading quiz will typically be given at the beginning of the class session, prior to that day's lecture/discussion.
- you will be graded on your answers as if they were traditional quiz answers -- that is, if there are 5 reading-quiz clicker questions for a particular reading quiz, your possible grade would be 100, 80, 60, 40, 20, or 0 for that day's reading quiz.
Grading Breakdown:

If you are a Computer Science (CS) major, note that you must earn at least a C- in CS 435 for this course to count towards your major. Your semester grade will be determined by the percentage of points that you earn, subject to some minimum requirements.

One of the requirements for receiving at least a C- in this course is that you must take the ETS Major Subject Test for Computer Science. The time for this test will be announced, and the department will pay for it -- your obligation is to show up and take the test.

Here are the grade percentages, followed by the other minimum requirements:

- **Homework assignments:** 20.0%  
- **Reading quizzes:** 10.0%  
- **Clicker questions:** 10.0%  
- **Exams:**  
  - Exam 1: 10.0%  
  - Exam 2: 10.0%  
  - Final Exam: 10.0% Tuesday, May 13, 3:00 - 4:50 pm, SH 002  
- **Project:** 30.0%

Grade Requirements:

- To earn a grade of C- or better in this course, the following five requirements must all be met:
  1. you must take the ETS Major Subject Test for Computer Science  
  2. your overall semester average must equal or exceed 70% - this is to show a reasonable level of overall mastery of the course material.  
  3. the average of your Exam 1, Exam 2, and Final Exam grades must equal or exceed 60% - this is to show that you understand at least a minimal reasonable level of the most important course concepts.  
  4. the average of your Homework assignments must equal or exceed 60% - because this part includes (along with coverage of core course concepts) technical writing and presentation experience that are not reasonably tested on exams, but are nevertheless important course components.  
  5. your overall Project grade must equal or exceed 60% - because the team course project is an essential component of this course. If you have not met this requirement, you have not truly shown competence in this course's material, since you have not successfully practiced applying software engineering practices in the context of a team programming project.  

- If all five requirements above are not met, then your semester grade will be either D+ or the letter grade computed according to the mapping given below, whichever is lower.
  
  - (That is, if a student had an overall semester average of 74% and took the CS ETS Major Subject Test but an overall Project grade of 55%, that student would receive a D+ for his/her semester grade; if a student took the CS ETS Major Subject Test, had a Homeworks average of 61% and an Exams average of 71%, but an overall semester average of 65%, then that student would receive a D for his/her semester grade. You are expected to ASK ME if this aspect of the grading policy is not clear to you.)  

- Including the five requirements noted above, your semester grade will be computed according to the mapping given below:
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<th>Overall Percentage (based on the given weights)</th>
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**Final Exam:**

Again, the Final Exam for this course is scheduled for Tuesday, May 13, 3:00 - 4:50 pm, in SH 002 (unless I announce otherwise). Note this time and date BEFORE making your end-of-semester travel plans.

**Students with Disabilities:**

Persons who wish to request disability-related accommodations should contact the Student Disability Resource Center in the Learning Commons, Lower Library, 826-4678 (voice) or 826-5392 (TDD). You can reach the Student Disability Resource Center's web site at: http://www.humboldt.edu/disability/

Please note that some accommodations may take up to several weeks to arrange. If you are eligible for such accommodations, please contact me as soon as possible to discuss them.

**Add/Drop Policy:**

Students are responsible for knowing the University policy, procedures, and schedule for dropping or adding classes. You can find these on the web at: http://pine.humboldt.edu/registrar/students/regulations/schedadjust.html

You can find the University policies for repeating classes at: http://pine.humboldt.edu/registrar/students/regulations/repeat.html

The census date for Spring 2014 (before which you can drop without a W, and without it counting toward your
18 semester-units drop limit) is: **Monday, February 17th.**
The last date for Fall 2013 to drop with a W on your transcript, with a serious and compelling reason, and subject to the 18 semester-unit drop limit, is: **Monday, April 7th.**
If you do drop the course, note that it is **your responsibility** to complete and submit the appropriate forms.

**Incompletes:**
Incompletes are rarely given and only in the case of a true emergency. They certainly are not appropriate for students who find they have fallen behind on assignments, missed a test, or taken on too much academic, work, or family responsibilities. For these situations, dropping the course would be appropriate (if that is still possible according to the University policies for dropping courses).

**Course Expectations:**
First: remember the general rule of thumb for college-level courses:

*To be successful in a course, you should plan to spend at least 3 hours outside of class for each 1 hour of college course credit. That implies an estimate of at least 9 hours a week spent outside of class for this 3-credit course.*

However, you should be aware that:

- This is a senior-level CS major course as well as a capstone course; it has an accordingly-rigorous workload.
- You are expected to attend every class session, and to do assigned readings in advance of class sessions.
- You are CS seniors -- you know at this point that programming can be a time-consuming activity.
  - You have hopefully also figured out that starting **early** (and not waiting until the last minute) gives you more time to ask questions with regard to homeworks, and gives you more time to collaborate with your team members with regard to the course project milestones.
- Past experience has shown that project teams that meet **regularly** outside of class **throughout the semester** learn more and create more successful, higher-quality projects.
- Homework and project milestone deadlines will **not** be extended because you waited too late to start or because you did not allocate enough time before the deadline to work on it; likewise, they will typically **not** be extended because of hardware or network failure. (Admittedly, campus failures might affect deadlines. But don't assume so until you have heard from me definitively.) You need to keep backups of your files at all times, and need to plan your schedule to be able to work on on-campus computers as necessary.
- If you have not completed a homework assignment or project milestone by the deadline, **your best choice is to submit whatever you have managed to do by then**, as partial credit is your friend, to carefully study the posted example solution (if the work in question is a homework assignment) as soon as it is available, to ask me about anything there that is still unclear, and to get a good **early** start on the next homework assignment or project milestone.

**A successful student in this class will:**

- Carefully complete the assigned readings in advance of class sessions.
- Attend every class session, clicker at the ready.
- Participate in class (participating in class discussions, discussing clicker answers with other students, asking questions, paying attention, and taking notes).
- Attend and be an active, cooperative participant in regularly-scheduled outside-of-class course project team meetings.
• Ask specific questions -- in class, in lab, in office-hours, and in e-mail.
• Work ahead on project milestones, and ask questions promptly as issues arise.
• Read through each homework assignment as soon as it is posted.
• Start working on each homework assignment early in the week.
• E-mail the instructor with specific homework-related questions starting early in the week both to clarify what a question is asking for and when hitting roadblocks (being sure to include both the code involved and any error messages or descriptions of bizarre behavior).
• Double-check the project handout before project milestones, and verify that the team is indeed submitting all of the specified pieces for each milestone.
• Always submit SOMETHING for a homework assignment or project milestone, even if it is not complete. (I believe in partial credit on homeworks, believing that if you have at least started working on a problem, the posted example solution will be more helpful/understandable than if you have not.)
• Compare his/her homework solutions to posted example solutions when they become available.
• Study with others for exams, and practice explaining concepts to one another.
• Attempt every exam problem, and carefully study over exams when they are returned.

Academic Honesty:
Students are responsible for knowing policy regarding academic honesty. For more information, visit:
http://www.humboldt.edu/studentrights/academic_honesty.php
or
http://pine.humboldt.edu/registrar/catalog/

Observe that among the actions that are unacceptable are submitting another's program, code, or file as your own and failing to quote material (that includes algorithms, project, code, and comments, too!) taken from another person’s work. (Note that copying another student's comments is also unacceptable.)

For the team project, and possibly even for some of the course homeworks, it may be appropriate to make some use of code, tools, algorithms, etc. that you find on the web or in the computing literature. You are expected to clearly attribute such material.

Unless explicitly indicated otherwise on the homework assignment handout, typically homework assignment work is to be the work of each student, individually. If/when pair or group work is explicitly permitted for some homework assignment, the names of all students involved must be included on the work submitted. (For example, if pair programming is explicitly specified as being allowed for an assignment, then each pair-programmed file turned in will include both of the names of the students who worked on it as a pair.)

(Important aside: pair programming specifically means that two people sit at one computer, with one typing while the other says what to type. Both people are actively involved in the programming process. Pair-programming is not two people working at two computers, each doing different parts of the work individually. Pair-programming is also not one person doing all the work while the other does nothing or does something else. If pair-programming is ever explicitly permitted, then you are expected to actually pair-program any files you do not complete on your own.)

(If an assignment does explicitly specify that it is acceptable to pair program or work in groups, make sure that you don't get into the situation where you are merely watching someone else learn.)

For homework assignments (that are not explicitly specified as permitting pair-programming), students may discuss general approaches as long as no one involved in the discussion is writing anything down or typing anything during such discussions. Students may also help one another in determining causes of program bugs,
or in determining the meaning of error messages. However, in general, students may not work together to complete homework assignments, one student should not instruct another in how to write the code for a homework assignment, and any type of copying or modifying of another person's computer files, OR of providing computer files to another, related to homework assignments is definitely over the line, and never justified. This applies to copying of documentation and comments as well as to copying of program code.

Note that it is your responsibility to ensure that course assignment files are read-protected. If you are careless about this, and someone else copies your work, you will share the penalty. (In particular, be very careful about leaving work on shared network drives in campus labs, or in UNIX/Linux directories that are not read-protected.)

Learning takes hard work; when students turn in others' work as their own, it is a slap in the face to those seriously interested in learning. Not turning in an assignment results in no credit for that assignment, of course, but that is an honest grade. Work that violates the course honesty policy deserves a lower grade than that, and therefore the course policy is that work violating this policy will receive negative credit. A person providing a file for copying receives the same negative credit as the copier. Repeat offenses will be handled according to University policies.

**Asking Questions/Getting Help:**

- Sending questions by e-mail can be a very effective way to ask for help.
  - Include CS 435 along with the subject of your e-mail in the Subject: line of any class-related e-mail that you send me. This will help your e-mail be more recognizable as a class-related message, and will make it less likely that I will accidentally overlook it.
  - ALSO include a descriptive subject along with the CS 435 in that Subject: line -- this also increases the chances that I will notice and reply to your question more promptly. (In particular, do not just reply to a class e-mail message I have sent previously, and do not simply leave the Subject: line blank.)
  - That said, if I have not replied to your e-mail within 24 hours, please re-send it, just in case I did overlook it somehow.
  - You are expected to sign each e-mail you send me with your name -- sometimes the sender's identity is not obvious from one's e-mail address, especially for an off-campus e-mail address.
  - Also, DON'T INCLUDE the word "password" in your e-mails to me -- pwd is a handy abbreviation to use instead -- because, due to phishing scams, HSU's spam filtering does not seem to like e-mails with that word in it! (Odd, but this was definitely the case in Spring 2010...)
- I try to check my e-mail (st10@humboldt.edu or sharon.tuttle@humboldt.edu or smtuttle@humboldt.edu) about once a day on weekdays, and about once over each weekend. This is another reason to start assignments early, so that you have time to receive a reply to any questions that might arise.
- You are encouraged to ask me questions in class, in office hours, and by e-mail. The most successful students are those who are not afraid to ask questions early and often (I will gently let you know if you are overdoing it), who do the assigned reading, who attend lecture and lab regularly, who start homeworks promptly after they are made available from the course web page, who practice course concepts as much as possible, who meet with their project teams regularly, and who start project milestones early.
  - It is better to ask a question sooner than later -- for example, it is better to send an e-mail with a specific question as soon as you think of it than it is to wait a day or two until the next class meeting or office hour. If you wait to ask such questions, you may not have time to complete the assignment or project milestone before its deadline.
  - It is perfectly reasonable if you send me a question and then end up finding out the answer yourself before
you receive my answer; likewise, it is not a problem if you end up sending me several questions in separate e-mails (as you work on different parts of a homework assignment or project milestone while awaiting earlier answers).

• That said, I am expecting that you will ask **specific** questions – overly vague or broad questions are problematic.
  
  – (For example, an example of a specific question is, "When I try to run the query: (paste in the query), I receive the following error message: (paste in the error message) Can you point me in the right direction about what is wrong?" An example of an overly vague or broad question is: "Here's my code/user stories/testing plan/etc. Is it right?")

**Additional Coursework-Related Policies:**

• You should expect to put in a significant amount of time outside of lecture doing the assigned reading, meeting with your project team, working on homework assignments and project milestones, and practicing concepts discussed.

• Each homework assignment and project milestone must be submitted as is specified on its handout to be accepted for credit. This may vary for different assignments and milestones. Often, parts of assignments and milestones will be submitted using a special tool on nrs-labs or nrs-projects (or possibly using git or github).

• Each homework assignment and project milestone will be clearly marked with one or more due dates (a single assignment could have multiple parts with multiple due dates).
  
  – **No homework assignments or project milestones will be accepted late. If you wish to receive any credit for a homework assignment or project milestone, then you must turn in whatever you have done, even if it is incomplete, by the deadline. Partial credit is usually preferable to no credit.** Note that "the computer/network/etc. going down" is no excuse -- if you leave an assignment or milestone for the last minute and there are technical problems, you still must turn in whatever you have by the deadline. As with any work done on computer, make frequent back-ups of your files!

  – You may submit **multiple versions** of assignment and milestone files before the deadline; I will grade the latest pre-deadline submission unless you inform me otherwise. This is to encourage you to turn parts in early (since you will know that you can always turn in an improved version if further inspiration strikes). You also don't have to worry about forgetting to submit something that has already been submitted.

  – If for any reason you cannot submit course work using the submission tool on nrs-projects, e-mail me your homework files as attachments by the deadline, and then submit the files using the submission tool as soon as you are able. The e-mailed files will establish that these files were completed by the deadline.

• The tool that you will be using to submit some assignment and milestone parts results in a file that serves as your "receipt" for having submitted items. You are expected to retain these "receipt" files at least until a grade has been posted to the course Moodle site for that assignment or milestone. If there is a system glitch or other hardware/software/network problem, you may be asked to make me a copy of one or more receipt files; if you do not have them, then you will not receive credit for the files involved. These receipt files are for your protection!

• It is nearly impossible to write unambiguous specifications. If you have questions about "what she means", get them resolved very early in the development cycle by **asking**.

• There is more to computer code than simply whether it runs or not...
  
  – Part of your grade will be determined by how well your work meets the written requirements. Work that you turn in is expected to meet handout specifications precisely; when one eventually works within a team on large projects, following the specifications precisely is vital, and can mean the difference between a working product and one that just sits there.
Note that work may be graded on style as well as on whether it runs properly and whether it precisely meets the homework specifications and requirements. Discussions on style will be ongoing throughout the semester.

• Some course work may be graded simply based on whether it has been attempted (the instructor's decision is final as to whether this is the case) -- other course work may be graded for correctness, style, and whether it meets specifications. You will not know in advance which will be the case.

**Additional Grading-Related Policies:**

• Note that the project portion of your course grade includes all milestones, required pieces, required presentations, participation, and the final project itself.

• Clicker questions will be given during most lectures, and some lectures will also include reading quizzes.
  
  – The **two lowest reading quiz grades** will be dropped from your grade.
  
  – Between the ample quantity of clicker questions and the dropped reading quiz grades, then, you can be absent several times from non-exam lecture sessions without direct penalty, for whatever reason (although you are, of course, still responsible for the material covered on those days, and it is **your responsibility** to determine what that material is).

• Note: NO homework grades are dropped; ALL homework grades count toward your homework average. Every homework includes important practice of course fundamentals.

**Additional Course Policies:**

• You are expected to read this syllabus and be prepared to verify in a required Moodle activity that you have received it, have read it, and understand its contents.

• Exam dates are given in the course schedule below. Make-up exams are only possible by special prior arrangement or because of a valid medical excuse.

• You should monitor your e-mail for course-related messages. The University provides a means for you to specify your preferred e-mail address, so if you wish to receive e-mail into an account other than the one HSU provides, change your preferred e-mail address in both Account Center and Moodle accordingly. Course-related messages from me will include **CS 435** in the **Subject:** line.

• You are expected to check the public course web page and the course Moodle site regularly --- course handouts, homework assignments, examples from lectures and labs, and possibly more will be posted to the public course web page, and grades will be posted to the course Moodle site. You are expected to monitor your posted grades and let me know about any discrepancies.

• When reading assignments are given, you are expected to prepare (read and study) assigned readings before class and to participate in class discussions. Projected examples will be utilized occasionally during discussion. You should understand that there may be material in the reading that will not be discussed in lecture, and material in the lectures that may not be found in the reading. You are responsible for both.

• **Attendance and disruptive behavior:** Students are responsible for knowing policy regarding attendance and disruptive behavior:


• Regular attendance at lecture sessions is expected, as is regular attendance at team-agreed-upon team meetings. If you should happen to miss a lecture, then you are responsible for finding out what you missed. "I wasn't there that time" is never an acceptable excuse. Lecture notes are not posted, although many of the projected examples will be made available on the public course web site. Clicker questions and reading quizzes missed **cannot** be made up later.
• **Late arrival to class:** Please attempt to come to class on time, with your headphones put away and your cell phones turned off. If you must arrive late or leave early, please do so with the least possible distraction to other students. If your late/early habits become disruptive, you may be asked to leave the class permanently.

• **Class disruption:** University policy requires that instructors eliminate disruptions to the educational process. Distractions such as excess talking, ringing cell phones, working on assignments for other classes, inappropriate or distracting laptop/tablet/smartphone/gadget use, demonstrations of affection, packing of books early, loud music leaking from headphones, chronic late arrivals or early departures, excessive comings and goings or other behaviors that disrupt the class are not acceptable. Students indulging in such behaviors will first be warned before being required to leave the class permanently.

• **Emergency Evacuation:** Please review the evacuation plan for the classroom (posted on the orange signs), and review the campus sites:
  

  During an emergency, information regarding campus conditions can be found at 826-INFO or:
  [http://www.humboldt.edu/emergency](http://www.humboldt.edu/emergency)

**VERY Tentative Course Schedule:** (VERY subject to change!)

MMM -> "The Mythical Man-Month", Brooks, Jr.
Jalote -> "A Concise Introduction to Software Engineering", Jalote

**Week 1: January 21, 23**

• Reading: for Thursday, January 23: handout: Software Engineering definition, MMM - Chapter 16
• Topics: Intro to course; discussion of MMM - Chapter 16
• **Homework 1 out**

**Week 2: January 28, 30**

• Reading: MMM - Chapter 1, Jalote - Chapters 1, 2
• Topics: The tar pit; Why software engineering?; Software processes
• **Homework 1 due, Homework 2 out**

**Week 3: February 4, 6**

• Reading: MMM - Chapter 2, Jalote - Chapter 2, continued
• Topics: The mythical man-month; Software processes, continued
• **Homework 2 due, Homework 3 out**

**Week 4: February 11, 13**

• Reading: MMM - Chapter 3, posted readings on Extreme Programming
• Topics: Software processes, continued; discussion of programming teams; focus on Extreme Programming
• **Homework 3 due, Homework 4 out**
Week 5: February 18, 20

• NOTE: Last day to drop a course without a W, without a serious and compelling reason, and without it counting toward your 18 semester-units drop limit is Monday, February 17.
• Reading: MMM - Chapter 4, Jalote - Chapter 3
• Topics: Aristocracy, democracy, and system design; Software requirements analysis and specification
• Homework 4 due, Homework 5 out

Week 6: February 25, 27

• Reading: MMM - Chapter 5, Jalote - Chapter 3, continued
• Topics: The second-system effect; Software requirements analysis and specification, continued; review for Exam 1
• Homework 5 due

Week 7: March 4, 6 [SIGCSE on March 6? I hope?]

• Tuesday, March 4: Exam 1
• Thursday, March 6: NO CLASS - Instructor at conference; MANDATORY team meeting during lecture time, with meeting notes expected
• Homework 6 out

Week 8: March 11, 13

• Reading: MMM - Chapters 6, 7, Jalote - Chapter 4
• Topics: Passing the word; Why did the Tower of Babel fall; Planning a software project
• Homework 6 due, Homework 7 out

Spring Break - March 17-21

Week 9: March 25, 27

• Reading: MMM - Chapters 8, 9, Jalote - Chapter 5
• Topics: Calling the shot; Ten pounds in a five-pound sack; Software architecture
• Homework 7 due, Homework 8 out

Week 10: April 1, 3

• Reading: MMM - Chapters 10, 11, Jalote - Chapter 6
• Topics: The documentary hypothesis; Plan to throw one away; Software architecture
• Homework 8 due, Homework 9 out

Week 11: April 8, 10

• NOTE: Last day to drop a course with a W, with a serious and compelling reason, and subject to your 18 semester-units drop limit is Monday, April 7.
• Reading: MMM - Chapters 12, 13, Jalote - Chapter 7
• Topics: Sharp tools; The whole and the parts; Coding and unit-testing
• Homework 9 due, Homework 10 out

**Week 12: April 15, 17**
• Reading: MMM - Chapters 14, 15, Jalote - Chapter 7, continued
• Topics: Hatching a catastrophe; The other face; Coding and unit-testing, continued; review for Exam 2
• Homework 10 due

**Week 13: April 22, 24**
• Tuesday, April 23: Exam 2
• Reading: Jalote - Chapter 8
• Topics: Testing
• Homework 11 out

**Week 14: April 29, May 1**
• Reading: MMM - Chapter 19, Jalote - Chapter 8, continued
• Topics: "The Mythical Man-Month" after 20 years; Testing, continued
• Homework 11 due, Homework 12 out

**Week 15: May 6, 8**
• Reading: Review for Final Exam; final project presentations
• Homework 12 due

**Final Exam:**
TUESDAY, May 13, 3:00 - 4:50 pm, in SH 002