1 Instructor

• Christoph Csallner
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• Office Hours: Monday and Wednesday, 2:45 pm - 3:45 pm

2 Section Information

This is a combined section of CSE 4322 and CSE 5325.

• CSE 4322, Section 001
• CSE 5325, Section 001

3 Time and Place of Class Meetings

• Time: Monday and Wednesday, 4:00 pm - 5:20 pm
• Location: ERB 131 (in Engineering Research Building)

4 CSE 4322 Description of Course Content from Course Catalog

Introduction to software project management. Issues include effort estimation and costing, project planning and scheduling, option analysis, software quality assurance, and formal technical reviews. Prerequisite: CSE 3310.

5 CSE 5325 Description of Course Content from Course Catalog

Issues and principles for software management; managerial and support aspects of software projects, including: processes, estimation techniques, planning and scheduling, risk analysis, metrics, and quality assurance. Other topics include: configuration management, verification and validation, and maintenance; team project.
6 Student Learning Outcomes

Students will be able to manage, estimate, cost, plan, schedule, measure, and review software projects. In order to reach these outcomes, students will

- manage, estimate, cost, plan, schedule, specify, design, implement, test, and measure an object-oriented application
- present deliverables
- review deliverables of other teams

For each of the above tasks, students will use a language, tool, or technique that is being widely used in industry.

7 Prerequisites

- Undergraduate algorithms and data structures.
- Undergraduate discrete mathematics (set, relation, function, graph) and first-order logic.
- Undergraduate programming in Java or a similar language.
- CSE 3310 (for CSE 4322 students)

8 Requirements

Student team meetings in addition to regular class meetings, as scheduled by the team members.

9 Required Textbooks and Other Course Materials

Required:


Recommended (but not required):


10 Descriptions of Major Assignments and Examinations

Following is the tentative outline. I will announce concrete dates in class.

- Homework: Throughout the course.
- Quizzes: Throughout the course.
- Project: Throughout the course.

11 Attendance

See the Graduate Catalog:
http://www.uta.edu/gradcatalog/2012/general/regulations/#h2

12 Course Schedule

See: https://wiki.uta.edu/display/serc/CSE+4322_5325+(Fall+2012)

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course.

13 Expectations for Out-of-Class Study

Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including work on the class project, reading required materials, completing assignments, preparing for exams, etc.

14 Grading

- 10% homework
- 20% quizzes
- 10% class participation
- 30% project estimations, plans, schedules, measurements, specifications, designs, code, tests, reports, etc. (written)
- 10% project reviews (written)
- 20% project presentations (oral)

14.1 Grade Distribution

A from 85%, B from 70%, C from 60%, D from 50%, else F.

14.2 Late Policy

Late submissions will be accepted until we discuss results. For being late up to one day the penalty is 10%, for up to two days it is 20%, etc.

14.3 Homework

Goal: Individually practice using a tool that will later be used in the project.

We will have two or three homework assignments. Each will focus on applying a software engineering tool discussed in class. I will provide instructions on how to use the tools.
14.4 Quizzes

Goal: Learn basic software project management techniques and principles that may be applied in the project.

Quizzes will be announced in class one week in advance. Each quiz will take place in the first 20 minutes of class. Quizzes are closed-book, but you can use a cheat sheet that you have written yourself.

14.5 Project

Goal: Estimate, plan, schedule, measure, execute, explain, and critique software projects.

This is a team project. A team consists of three to five students. To make collaboration as easy as possible, I encourage (but not require) you to use a free open-source project hosting service such as Google Code.

The project consists of, most likely, three iterations. After each iteration, each team will present some aspects of their project, both in writing and by oral presentation. After some iterations, you will formally review the deliverables of other teams. Your reviews and feedback should be probing but always constructive and helpful.

You should distribute project work fairly among yourselves, but I leave the detailed project management to you. The oral presentations are an exception. Here I expect that each team member presents a similar amount of material.

For each project-related deliverable, written or oral, each team will receive a team score. The sum of these team scores will determine the majority of your project-related grade. In addition, for the entire project, each team member will receive an overall individual score. The individual score is derived from peer evaluations, your feedback to other teams during presentations, and your handling of questions.

For the deliverables, I will use the following general grading guidelines, which I copied from Professor Kung.

100–90 points. Proposed solution is adequate and valid and significantly exceeds expectation, the solution is well-organized and clearly described, assumptions are clearly stated.

89–80 points. Proposed solution is definitely adequate and valid, the solution is organized and described, assumptions are stated.

79–70 points. Proposed solution is somewhat adequate and valid, the solution is somewhat organized and partially described, some but not all assumptions are stated.

69–60 points. Proposed solution is only marginally adequate or valid, the solution is poorly organized or difficult to understand, important assumptions are not stated.

59–0 points. Proposed solution is incorrect or far from adequate and valid, the solution is impossible to comprehend.

14.6 Extra Credit: Tool Presentation

Goal: Teach your fellow students how to use a software project management tool. The tool should be useful for the project or a related software engineering problem.

Pick a software project management tool and explain how to use it step by step. To provide a better understanding of the tool, you should also explain the basic principles the tool is built on. You may add a comparison with related tools. Provide a hand-out that gives detailed instructions on how to use the tool. After your presentation, email me your hand-out (mandatory) and slides (optional). I will post them online. You may also maintain this material elsewhere and just email me a link to it.

Since most of the tools can be used in the project, the presentations are most useful at the beginning of the semester. To encourage early presentations, the maximum amount of extra credit will be 5% after Halloween but 10% before Halloween (October 31).
I will provide a list of suitable tools, but I welcome any suggestions you may have. Following is the web site for the tool presentations (which is shared with CSE 5324): https://wiki.uta.edu/display/serc/CSE-5324+Tools

14.7 Format
All written deliverables (homework, hand-outs, project reports, etc.) should be in plain text, HTML, or PDF, unless I announce otherwise.

15 Make-up Exams
See the Graduate Catalog at http://www.uta.edu/gradcatalog/2012/general/regulations/#absences:

“Students will be allowed an excused absence under circumstances described below. The student must notify the instructor in writing at least one week in advance of the start of the excused absence and arrange with the instructor to make up missed work or missed examinations. Instructors will allow students an opportunity to make up the work and examinations within a reasonable time period following the absence or otherwise adjust the grading to ensure that the student is not penalized for the absence, provided that the student has properly notified the instructor.

Instructors are under no obligation to accommodate students who are absent or miss work without prior notification and make-up arrangements. Students who have properly notified the instructor, will not be penalized for the absence. However, the instructor may respond appropriately if the student fails to complete the assignment or examination satisfactorily within the time limit following the absence set by prior arrangement.”

16 Grade Grievances
Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current undergraduate (for CSE 4322) and graduate (for CSE 5325) catalog. See:

http://www.uta.edu/catalog/content/general/academic_regulations.aspx#18
http://grad.pci.uta.edu/about/catalog/current/general/regulations/#gradegrievances

17 Drop Policy
Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student’s responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://www.uta.edu/ses/fao).

For CSE 5325 also see the Graduate Catalog:
http://grad.pci.uta.edu/about/catalog/current/general/regulations/#h14

18 Americans With Disabilities Act
The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the Americans with Disabilities Act (ADA). All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for
Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at http://www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

19 Academic Integrity

All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

“I pledge, on my honor, to uphold UT Arlington’s tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.”

Also see: http://www.utsystem.edu/BOR/rules/50000Series/50101.pdf

20 Student Support Services

UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

21 Electronic Communication

UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

22 Mailing List

For this course we are using the mailing list CSE43225325-CSALLNER@listserv.uta.edu. I expect you to subscribe to this mailing list and read the emails that are distributed over the mailing list. You can find the mailing list in the Public List Archives at http://listserv.uta.edu/. The mailing list will be our main communication channel for homework assignments, clarification questions, etc.

23 Student Feedback Survey

At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory shall be directed to complete a Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit http://www.uta.edu/sfs.
24 Final Review Week

A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabus. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

25 About This Syllabus

This syllabus is based on the syllabus template provided by the provost (https://mavspace.uta.edu/departments/provost/public/syllabus-template.doc) and the “Tips for developing Student Learning Outcomes”, which is also provided by the provost (https://mavspace.uta.edu/departments/provost/public/outcomes-tips.pdf).