

CS 472 - Senior Capstone II Spring 2019 Syllabus

Instructor: Glenn G. Chappell
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Office Hours: 1-2 pm MWF, 4-5 pm TTh, or by appointment

Prerequisites: CS 372; CS 471
Required Texts: *Don't Make Me Think, Revisited*, Steve Krug, New Riders, 3rd
Agile Project Management with Kanban, Eric Brechner, Microsoft
Location/Time: Duckering 535, TTh 5:20-6:50

Catalog description: Group projects in a real computer industry environment and produce appropriate documentation and reports. Nature, ethics, and legal considerations of the computer science profession are discussed with an emphasis on ethics. Additional topics include project management, design methodologies, technical presentation, human-machine interface and programming team interactions.

Course goals: Allow you to be part of a team that develops a software system for a real-world client using an Agile software process model. You will also continue to develop skills in technical communication and explore computer ethics issues.

Group Grading	
Project Stand-ups (10 as scheduled)	30%
Presentation #1	5%
Presentation #2	5%
Presentation #3	5%
Individual Grading	
Mid-term Exam (take-home assigned 3/1 due 3/8)	25%
Class Participation	5%
Contribution to Project (Instructor evaluation)	5%
Contribution to Project (Group evaluation)	5%
Presentation #1	5%
Presentation #2	5%
Presentation #3	5%

Final grades will be assigned based on the following percentage intervals: A+ [95%,100%], A [90%,95%), A- [85%,90%), B+ [80%,85%), B [75%,80%), B- [70%,75%), C+ [65%,70%), C [60%,65%), C- [55%,60%), D+ [50%,55%), D [45%,50%), D- [40%,45%), F [0%,40%).

Group Project: Group projects will consist of 3-6 students that will specify, design, implement, test and deliver a software system for a real-world client. Except for the individual grade components for presentations and contribution, all group members will receive the same grade for each part of the group project. LATE SUBMISSIONS WILL NOT BE ACCEPTED.

Presentations: All presentations are recorded for program assessment purposes and for later review in the semester. The group presentation grade will be based on the effectiveness of the group to deliver a seamless and professional group presentation. Your individual presentation grade will be based solely on your presentation skills.

Student Outcomes:

- Ability to specify, implement and deliver a large software system (D3)
- Ability to contribute towards the solution of a technical problem (D5)
- Ability to contribute effectively to a group presentation (D7)
- Understands software licensing issues (E2)
- Demonstrate ethical decision making (E3)
- Ability to determine impact of technology on a global society (G2)
- Ability to follow a defined software-development process (I3)

This course is designated as Writing-Intensive (W). This designation applies to upper-division courses and means that a majority of the graded work in the course will be derived from writing activities.

Writing activities in this course will follow these rules:

- Students will complete an ungraded writing sample by the second day of class to help the instructor assess writing ability and general competence.
- Students will receive comments from the instructor on drafts of written work. In other words, students will work through a draft-and-redraft process so that they can apply feedback and become more effective writers.
- Students will meet individually with the instructor at least once during the term to discuss their writing.

This course is designated as Oral-Intensive (O). The designation applies to upper-division courses.

Oral activities in this course will follow these rules:

- A minimum of 15% of the graded work will be based on effectiveness of oral communications.
- Students will receive intermediate instructor assistance in developing presentational competency.
- Students will utilize their communication competency across the span of the semesters, not just in a final project.
- Students will receive instructor feedback on the success of their efforts at each stage of preparing their presentations.

Disabilities Services: The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. I will work with the Office of Disabilities (208 Whitaker Bldg, 474-5655) to provide reasonable accommodation to students with disabilities.