

Senior Project - CSCD 488

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Required Text

There is no required text for this class.

Course Description

“Student teams apply computer science principles to specified projects. Based on requirements approved by the instructor, each team will use appropriate tools, digital systems, and management skills in support of project development.”

This course, and its companion course (CSCD490 Senior Capstone), attempt to create a real-world experience in software development.

CONTRARY TO CONVENTIONAL WISDOM, YOU CAN FAIL THIS CLASS.

Team Composition

As in the real-world, teamwork is essential...there is no avoiding it. You will be placed into teams. Each team will be approximately four members in size (exceptions may be made at the discretion of the instructor). Each student will complete a questionnaire outlining their individual skill set. The instructor will then evaluate each student's skills and the different project requirements, and will assign a team to each project. This assignment is non-negotiable.

Software Development Process

Once the teams have been chosen, each team will brainstorm a suitable project.

The team will then pitch the concept to the instructor. Once approved, the team will create a SRS document outlining the facets of the project.

Once the SRS has been approved, the team will request development resources and start development. During the development process, each team member will submit weekly timesheets using the clockify web service, giving a detailed breakdown of the work accomplished and the time spent. If you spend time on this project without documenting it, the time will not be counted.

Progress interviews will be periodically required with the instructor or his TA. These interviews are mandatory.

The style of development is up to the team. The team may use Waterfall, Agile, etc. The key is accountability to the instructor, the members of the team, and, most importantly, yourself.

Keys to Success:

- The three “Con”s:
 - Consistent and
 - Conscientious
 - Contribution
- Inter-Team Communication
- Scheduling discipline

What success looks like:

- Code Ninja (“I do what is tasked, without fanfare. For me, it’s about team success, not individual glory”)
- Synergy Warrior (A functional team will produce more than a team of Rock Stars all going in their own direction. See: Gestalt Theory)
- Wolf Pack (“We hunt as a team. We eat as a team.”)

What failure looks like:

- Rock Star (one person does all the work because his teammates are too stupid/lazy/lame to contribute)
- Artiste (“no one can perceive the problem as well as me. I should be allowed extra time/resources/indulgences because I am an Artiste”)
- Idea Man (“I will be the team leader and come up with all the ideas, then make my teammates do all the work”)
- DYI (If all you have is a hammer, everything looks like a nail)
- Martyr (“I don’t agree with my team, I’ll go rogue and do a parallel project on my own”)
- Geek (“Sure, it would take me 20 minutes to write it with loops, but the 8 hours I spent writing it recursively was worth it”)
- Medusa (Takes on many tasks simultaneously. Does all of them poorly)

To be successful, attend/contribute/follow the rules. Failure to do so can lead to you being “fired from your team” and will be an automatic failing grade.

Deadlines

Deadlines are non-negotiable. The sooner a deadline is met, the sooner the team may push forward on their projects..

Cheating Policy

You are allowed to discuss your thoughts with and help other classmates; however, you must do your own work, meaning ALL work should be your own. Plagiarism and cheating will not be tolerated. Plagiarism includes using someone else's programs or parts of programs as your own; copying another person's work; handing in another person's work for your own and not crediting the source. Any infractions will be handled in accordance with the academic integrity policy of Eastern Washington University and Washington State civil law.

See Rules of Student Conduct and Procedures for Enforcement (WAC 172-121-200). It's not just a good idea...IT'S THE LAW!

Long version: "The following are defined as offenses which are subject to disciplinary action by the university.

(1) Acts of academic dishonesty. University policy regarding academic dishonesty is governed by the university academic integrity policy. However, repeated violations, as described in the academic integrity policy, are subject to action under the student conduct code. Academic dishonesty includes, but is not limited to, any of the following activities:

- (a) Plagiarism: Representing the work of another as one's own work;
- (b) Preparing work for another that is to be used as that person's own work;
- (c) Cheating by any method or means;" (et. al.)...

Short Version: Of course you can use third party libraries, frameworks, etc. Just make sure you credit the tools you are using.

Grading

At the end of this class, you will receive either a "Y" (continuation) grade or a failing grade. If a "Y" grade, you can continue to CSCD490, and the "Y" grade will be revised in this class will be updated after the conclusion of CSCD490.

Your overall grade will be determined from the following criteria:

- Project Quality 35% (Determined by Instructor and Client)
- Contribution to Team 35% (Determined by team surveys and documented time and tasks)
- Documentation 10% (Determined by Instructor, includes both user guide and technical guide)
- Oral Presentation 10% (Determined by Instructor and audience surveys)
- Trade-show Presentation (including poster) 10% (Determined by Instructor)

Getting Fired

At any time, entire teams or team members who are underperforming may be fired. In this case, the entire team or team member will receive a failing grade for CSCD488 and will be forced to retake the course.

During the second quarter, underperforming (low contribution) students will be given a failing grade for both quarters. This could mean adding two quarters to your schooling. **Do not be this student!**

Americans with Disabilities Act:

If there is any student in this class who has special needs for accommodation, please feel free to discuss the matter with the instructor. Students requiring accommodations need to contact Disability Support Services (DSS) at (509) 359-6871. The DSS Office is located in Tawanka in room 125.

Title IX Mandatory Reporting

Eastern Washington University recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct will NOT be tolerated at EWU. If you have been subjected to sexual misconduct, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct I must report the matter to the Title IX Coordinator. Should you want to report to a confidential source you may contact the following:

- Sexual Assault Family Trauma (SAFeT) – 509-624-7273 – 24 hours
- YWCA Domestic Violence Crisis Line – 509-326-2255 – 24 hours
- Suicide and Mental Health – 509-838-4428 – 24 hours
- Employee Assistance Program (EAP) – 360-407-9490 (employees)
- Counseling and Psychological Services (CAPS) – 509-359-2366 (students)

Religious Accommodation

If you would like to request an accommodation for reasons of faith or conscience, please refer to EWU's policy on Holidays and Religious Accommodations available at <https://inside.ewu.edu/policies/>. Accommodations must be requested within the first two weeks of this course using the Holidays and Religious Accommodations Request form available at

<https://inside.ewu.edu/student-life/resources/holidays-and-religious-accommodations-request/>.