CS 490 – Capstone Project

Course Information

Instructor: Yanyan Li (Email: yali@csusm.edu)
Class Time: MoWe 11:30 am - 12:30 pm
Class Room: VEP 5105
Lab Time: Asynchronous Virtual Instruction
Office: Science Hall II 319
Office Hour: TuTh 10:30 am - 12:00 pm

Note: This syllabus is subject to change and updates.

Prerequisite

CS 370 - Introduction to Software Engineering

Course Description

Collaborates on team-based projects with realistic constraints from clients. Exercises the incremental software development process, periodically conducting project and code reviews, and frequently collecting feedback from stakeholders. Provides hands-on experience in managing projects, making team decisions, documenting design artifacts, applying modern construction technologies, as well as presenting and demonstrating project progress to stakeholders.

Textbook

None

Student Learning Outcomes

Upon successful completion of this course, students will be able to

1. Collaborate on a team-based project to meet project milestones and user needs
2. Communicate effectively as part of a software team
3. Apply software engineering principles in eliciting and refining requirements
4. Apply a software process model to develop a software product of good quality
5. Use appropriate CASE tools to support software development activities
6. Commit to ethical and professional responsibilities throughout the software process

Grading

Weekly Reports: 20%
Project Plan & Milestones: 30%
Final Report & Presentation: 20%
Peer Evaluation: 10%
Customer Evaluation: 20%

Grading Scale

- A   score >= 90
- B   80 <= score < 90
- C   70 <= score < 80
- D   60 <= score < 70
- F   score < 60

Course Policy

- Each student should budget about **10 hours per week** (excluding class time) to work on the project. For a team of 4 students, the team would have 4 × 10 × 15 = 600 hours (assuming 15 weeks per semester) to work on the capstone project.
- Some sessions are devoted to in-class group work time to complete the project.
- All project submissions should be on time as otherwise your project work may be impacted.
- Any discrepancy on grades should be submitted to the instructor within one week from the day that the grades are released on Canvas.

Academic Integrity

Students will be expected to adhere to the standards honesty and integrity, as outlined in the student Academy Honesty Policy. All assignments must be original work. You may not share your solutions (or nearly completed ones) to the assignments with others or post them on the Internet. You must appropriately cite the original sources for any ideas/materials that are borrowed from other sources. Incidents of Academic Dishonesty will be reported to the Dean of Students, and students involved will receive zero grade for the assignment.

Disability Support Services

Students with disabilities who require academic accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disabled Student Services (DSS). This office is located in Craven Hall 4300 and can be contacted by phone at (760) 750-4905, TDD (760) 750-4909 or by email at: dss@csusm.edu Students authorized by DSS to receive accommodations should meet with me during my office hours, or in another private setting, in order to ensure your confidentiality.

Cougar Care Network

Cougar Care Network (CCN) provides information, connection to resources, advocacy and support for students dealing with personal, academic, financial or other challenges which may adversely affect their academic success and/or collegiate experience.

Writing Center

The Writing Center offers welcoming digital and face-to-face learning environments where certified student consultants offer constructive guidance at any stage of the writing process-- idea generation, argument development, sentence-polishing, and more.