CSCE 492 - Capstone Computing Project II

• **Credit Hours:** 3 hours

• Contact Hours: 3 team meeting hours with Professor

Instructor: Dr. Jose VidalRequired Textbooks: None

- **Bulletin Description:** Continuation of CSCE 490. Computer system implementation, testing, verification and validation of results. Written reports and oral presentations in a technical setting.
- Prerequisites: D or better in CSCE 240, CSCE 350, and CSCE 490
- Required Course in CE, CIS, and CS
- Course Outcomes: Students will be able to:
 - 1. Apply new technologies such as software platforms, unit and behavioral testing libraries, and continuous integration tools, and use them in the development of a software application.
 - 2. Perform quality assurance analysis on a software application.
 - 3. Design and implement a computer-based system, consisting of an appropriate mix of software and possibly hardware components, using the techniques, skills, and tools of modern computer system development practice.
 - 4. Work effectively as part of a team. Make significant contributions to the team's work.
 - 5. Communicate (written and orally) skillfully with peers and with outsiders in a real-world styled environment.

• Student Outcomes addressed by course

Program	Student Outcomes Addressed
Computer Engineering	2, 3, 5, 6, 7
Computer Information Systems	1, 2, 3, 5, 6
Computer Science	1, 2, 3, 5, 6

Topics covered

- 1. Testing
- 2. Teamwork
- 3. Design Process
- 4. Design Principles
- 5. Software Development Methodologies
- 6. Design Patterns
- 7. Git and GitHub: Revision Control