CSCE5430 Software Engineering

Case tools, module implementation, testing, system delivery in the workplace, scheduling and budgeting, project management, configuration management, software development tasks and ethical issues.

Prerequisite(s): None.

Topics to be covered

- The Software Process/Model
- Agile Process/Recommended Process Model/Human Aspects of Software Engineering
- Principle that guide practice
- Understanding Requirements/Requirements Modeling - A Recommended Approach
- Design Concepts/Architectural Design - A Recommended Approach
- Mid term I
  - Component-Level Design/User Experience Design
  - Design for Mobile/design pattern
  - Quality Concepts/Reviews - A Recommended Approach/Software Quality Assurance
  - Software Security Engineering/Software Testing - Component Level
- Mid Term II
  - Software Testing - Integration Level/Software Testing - Specialized Testing for Mobility
  - Project Management Concepts
  - Creating a Viable Software Plan/Risk Management

Grading Criteria

- Assignments (2) 15%
- Quizzes (4) 20%
- Mid Term I 20%
- Mid Term II 20%
- Final Project 20%
- Attendance: 5%

All the slides that will be used in this class will come from the textbook of this class.

Textbook:
Software Engineering: A Practitioner's Approach

9th Edition

By Roger Pressman and Bruce Maxim
ISBN10: 1259872971
ISBN13: 9781259872976
Copyright: 2020

Note: Instructor may add/remove the slides when needed and be used instead of the original content of the slide from the textbook.

Policy:

1. Students must maintain a consistent attendance. If a student is absent for more than 3 classes he/she may be dropped from the class.

2. There will be no make-up exams unless there is a university-approved excuse.

3. Cheating is seriously considered and will be resulted in a dismissal from the class with a failure grade.

4. I will not respond to grading question by email. You must contact your graders regarding your concerns.

5. You can report to me if there is any concern with graders/TAs.

Americans with Disability Act

The Computer Science Department cooperates with the Office of Disability Accommodation to make reasonable accommodations for qualified students (cf. Americans with Disabilities Act and Section 504, Rehabilitation Act) with disabilities. If you have not registered with ODA, we encourage you to do so. If you have a disability for which you require accommodation, please discuss your needs with the instructor or submit a written Accommodation Request on or before the fourth-class day.