

The following has been extracted from the course web page.

Course page: The Piazza based communication tool URL will be announced to registered students.

#### Cmpe 352: Fundamentals of Software Engineering

In this course we will address the issues, methods, and tools related to developing software products. The following topics are among the major issues that will be covered.

Introduction - Software Engineering, Software Project and Processes Survey  
How is software developed? Requirements Elicitation.  
Iterative Development Methods -- Agile Methodology  
Communication - Team, Customer, Documentation  
Verification and validation --- User scenarios -- User Testing User scenarios, User Test Document  
Functional Modelling: Use Cases and Activity -- Diagrams Structural Modelling: System classes  
Behavioural modelling -- Sequence Diagrams -- User Interface Design Use Cases, Action Diagrams, Class diagrams  
Code versioning and Code Review  
Testing, Unit Tests, User Tests, and Debugging  
Project Planning  
Configuration Management  
Lessons Learned

Tools that support the development of software products will be used and the students are expected to learn how to effectively use them.

#### Grading:

Communication & Team Work: 10  
Requirements 10  
Design 10  
Planning and tracking: 10  
Testing: 10  
SW Tool Use 10  
Midterm Exam: 20  
Final Exam: 20