TSYS School of Computer Science Columbus State University CPSC 4175 – Software Engineering – Fall 2017

Catalog Course Description

Prerequisites: CPSC 3175 with a grade of "C" or better. In this course, students are introduced to the basic principles of software engineering. The course focuses on the issues, methods and tools applied at every phase of the iterative development life cycle spanning from the conception of the actual requirements, through the analysis, design, development, testing, deployment and maintenance of the software product. Other subjects include project management and quality assurance. Students must complete a significant software project.

Instructor

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Class Meetings

Tuesday and Thursday 4:30 p.m. to 5:45 p.m., room 406, CCT

Office Hours

Tuesday and Thursday 2:00 p.m. to 4:00 p.m., Friday 8:30 a.m. to 10:00 a.m., and by appointment

Textbook

Object-Oriented and Classical Software Engineering, 8th Ed, by Stephen Schach, 2010,

ISBN 10: 0073376183 ISBN 13: 9780073376189

Course Objectives

The course will familiarize students with concepts in the field of software engineering. A broad view of the different ways in which software engineering is approached will be presented. Students will become familiar with the issues involved in large-scale software development, the software life-cycle and its stages, CASE tools, object-oriented design and analysis, interactive systems design, and software maintenance, among others.

Course Learning Outcomes/Syllabus

Understanding the software lifecycle Understanding iterative development

Understanding different software processes
Understanding requirements analysis
Understanding software design
Understanding software testing
Understanding version control
Discussion of software economics
Discussion of software ethics
Discussion of soft skills

Plagiarism or cheating of any type will not be tolerated. This includes, but is not limited to, copying programs, projects, assignments, abstracts, documentation, wandering eyes/copying on tests, turning in previously submitted term papers or projects (in whole or part), using other person's computer accounts to do projects, programs, etc. Copying from the internet of any type is **not** allowed.

That said, students are expected to use technical references, user guides, software manuals, online resources (such as stackoverflow), mailing lists, and other available resources as learning tools. Quizzes are open book, open note. In general, you can use any available resource as long as you credit the resource by appropriate references.

Grading Procedures

Homework	Due Mondays at noon	25% of grade
Quizzes	Daily quizzes	25% of grade
Exercises	Due Fridays at noon	25% of grade
Project	Due at end of term	25% of grade
Discussions	As assigned	Extra credit

A	≥ 90%
В	≥ 80%
С	≥ 70%
D	≥ 60%
F	< 60%

Project Presentation

Students will work in teams of 2 (unless a different assignment is made) to complete a term project. Written deliverables will include specification, design, source, testing, and documentation artifacts. Students will present projects at the end of the term. More details about the topics, grading metrics, detailed requirements about the presentation will be discussed in class.

Dropping Policy

We hope that you will complete the course and benefit from it. If it is necessary for you to withdraw from the course during the semester, you must follow all official CSU procedures for withdrawing. It is not sufficient to notify the instructor; you must use the ISIS system and withdraw officially. I would appreciate it if you would first consult with me. In some cases, we can agree on an arrangement that will allow you to complete the course with minor adjustments.

Attendance

Class attendance is mandatory. Quizzes will cover material presented in class. Additionally, readings and exercises will be assigned during class time. I will not generally take attendance, but you will not do well in this course if you do not attend class.

Turning In Work

Homework not submitted by the due date will receive a grade of zero. Missed quizzes will receive a grade of zero. Exceptions may be made in individual cases for sufficient cause --- I do not penalize students for failure to submit work due to circumstances beyond their control. Projects not submitted by the end of the term will receive a grade of zero with no exceptions. Even though there is a due date for exercises, there will be no penalty for late submissions, and students may submit the same exercises multiple times without limit.

Team Grading (Presentation)

All team members of each team will receive the same numeric grade unless I can determine that there has not been equal participation by team members. If a team does not feel that a member(s) has participated equally, they should not include the member(s) name on the project when it is turned in for grading.

Electronic Devices

Students are encouraged to bring their personal laptops to class. These must have sufficient processing power to support the tools we will use to build the projects. Internet devices (e.g., Chromebooks) or handheld devices will not be sufficient. Please exercise care that you do not disrupt class by other devices (e.g., cell phones.)

ADA Statement

If you have a documented disability as described by the Americans with Disabilities Act (ADA) and the Rehabilitation Act of 1973, Section 504, you may be eligible to receive accommodations to assist in programmatic and/or physical accessibility. We recommend that you contact the Center for Accommodation and Access located in Schuster Student Success Center, Room 221, 706-507-8755 as soon as possible. The Center for Accommodation and Access can assist you in formulating a reasonable accommodation plan and in providing support. Course requirements will not be waived but accommodations may be able to assist you to meet the requirements. Technical support may also be available to meet your specific need.

E-mail Addresses

I will contact you via your Columbus State email address. PLEASE CECK YOUR EMAIL REGULARLY!