This page contains the syllabus for Software Engineering for Fall 2016. "The course syllabus contains important information regarding course requirements and the grading system utilized. It is the responsibility of the students to read the syllabus and consult the instructor if they have questions."(from UNC Undergraduate Catalog)

CS 350 003 - Software Engineering - 3 credits
Fall 2016

Class meeting time and location: Tuesdays and Thursdays, 9:30am - 10:45am in Kepner Hall 0060
All class material is accessible through Blackboard.

Instructor: Mehrgan Mostowfi, Ph.D. (mer-gone mos-tow-fee)
Department: Accounting and CIS, Monfort College of Business
Office location: Kepner Hall 0095C
Office hours: Tuesdays and Thursdays, 1:00pm - 2:00pm and Wednesdays, 12:00pm - 3:00pm, or email to schedule an appointment.
Email: mehrgan.mostowfi@unco.edu

Required textbook: The required textbook is Software Engineering, 9th Edition, by Ian Sommerville. There will be assigned readings to complement the lectures. These readings will come from handouts and/or material in the textbook.

Catalog course description: Study concepts of engineering software systems. Design and implement a software system project using the team approach.

Course objectives: As a result of successfully completing this course, students will:

1. Understand software engineering concepts, principles, and techniques
2. Understand the phases and activities of the software process
3. Have gained experience in practical software development work within the framework of integrated development environments

Prerequisites:

- CS 301 - Algorithms and Data Structures
- Knowledge of general programming concepts, and an object-oriented programming language.

Course topics: This course will cover the following topics:

- Week 1 (August 22 – August 28): Introduction
- Week 2 (August 29 – September 4): Software processes
- Week 3 (September 5 – September 11): Requirements engineering
- Week 4 (September 12 – September 18): Requirements engineering
- Week 5 (September 19 – September 25): Agile software development
- Week 6 (September 26 – October 2): Agile software development
- Week 7 (October 3 – October 9): Software processes, System modeling
- Week 8 (October 10 – October 16): System modeling
- Week 9 (October 17 – October 23): Architectural design
- Week 10 (October 24 – October 30): Architectural design
- Week 11 (October 31 – November 6): Design and implementation
- Week 12 (November 6 – November 12): Design and implementation
- Week 13 (November 13 – November 19): Software testing
- Week 14 (November 20 – November 26): Software testing
- Week 15 (November 27 – December 3): Software testing
Week 16 (December 4 – December 10): No class, project demo on Tuesday, December 6 at 8:00am (Final Exam time slot)

Grading: Students will earn a grade based on mini-exams and a project. The grade breakdown is:

- Mini-exams: 40% (four mini-exams, held in-class roughly every third week)
- Project: 60% (Projects will be graded based on assignments, effort and time put in advancing the team tasks and overall project progress, the quality of product parts developed individually, clarity and quality of code and other documents generated, cooperation and collegiality with teammates and other teams, and professionalism. All the requirements for the project must be met.

The grading scale is "no worse than":
- A = 90% through 100% and above
- B = 80% through 89.99%
- C = 70% through 79.99%
- D = 60% through 69.99%
- F = Less than 59.99%

Course policies:

- I expect you to make sure your UNCO email works and check your email regularly. Email will be the main means of communication between you and me. Not having checked your email will not be accepted as an excuse for missing due dates.
- If you must submit work late you need to talk to me at least one-week before the due date in question. Otherwise, late work cannot be accepted except in cases of verifiable emergencies.
- Attending class and project meetings is mandatory and very important. I may choose to track attendance.
- We will be observing all university policies regarding religious holidays and disabilities. Any student requesting disability accommodation for this class must inform the instructor giving appropriate notice. Students are encouraged to contact Disability Support Services (www.unco.edu/dss) at (970) 351-2289 to certify documentation of disability and to ensure appropriate accommodations are implemented in a timely manner.
- Incomplete ("I") grades will only be given in the case of severe hardship including verifiable medical emergencies or legal troubles. Simply being "overloaded" and unable to complete your work is not grounds for an "I" grade.
- Out of courtesy to other students please make sure that you turn off, or place in silent mode, your cell phone.

Academic Integrity/Academic Dishonesty: I expect students to be honest and not cheat on their assignments and exams. The exams must be completed without giving or accepting assistance from other students. Any source code copied from another source must be credited as such. Open source software used must maintain all headers and other information as required by the open source license used. I expect you to know the University's policies on student conduct, academic dishonesty, etc. UNC's policies and recommendations for academic misconduct will be followed. For additional information, please see the Dean of Student's website, Student Handbook link and current catalog.

Every part of this syllabus is subject to adjustment as the semester progresses. Please contact me as soon as possible if you have particular interest in material that is relevant to the class topic but not covered in enough detail; I will be happy to accommodate reasonable requests for modifications.

Last update on August 16, 2016