CS 521
Software Engineering Analysis

Monday and Wednesday, 10:35 – 11:50 a.m. in VELS 140
(3 Semester Hours)
Dr. Orest Pilskalns

Contact Information

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office hours: Monday, Wednesday 12:20 – 1:20 p.m. or by appointment

Required Textbooks

No textbooks are required. However, you will be required to read and critically analyze journal articles that can be accessed using the WSU-Griffin Library website. In addition, you will be responsible for obtaining any reading material handed out in class.

Reference Material

Software Metrics – A Rigorous and Practical Approach, Norman Fenton and Share Pfleeger, PWS Publishing, Revised Printing

Experimentation in Software Engineering, Claes Wohlin et al., Kluwer Academic Publishing

Prerequisite Courses

An undergraduate software engineering course

Prerequisite Topics

- Experience with an Object-Oriented Programming Language (Java or C++)
- Formal Logic
- Principles of technical writing
- Use of UNIX or Windows environment for coding, compilation, debugging and testing

Major Topics Covered in the Course

1. Software Metrics
2. Empirical Studies in Software Engineering
3. Testing and Debugging

Oral and Written Communications (Presentations and Term Paper)

You are required to give two presentations and write one 15 page term paper. As we progress through the course you will select a research topic or project (approved by me). Your first presentation will be an overview of the topic you wish to research or develop. The second presentation will be given near the end of the semester and will contain your research/project results. Throughout the semester you will be asked to report concerning your research. The term paper will be written over the course of the semester and you will be given the chance to make several revisions. Hopefully, by the end of the semester the paper will be of publishable quality. The paper will be written using LaTex. LaTeX is a powerful typesetting and formatting tool. I will provide a LaTex style file.

Software

1. MikTex (downloadable and available in the lab)
2. JDK1.5 with Netbeans IDE: (downloadable)
   URL: http://java.sun.com/j2se/1.5.0/download-netbeans.html

Tentative Grading Criteria

Exam(s) 25 %
First Presentation 5 %
Final Presentation 10 %
Research Paper and Project, Homework 50 %
Discretionary 10%

Note: Your grade is upper bounded by the grade you receive on you research paper.

A+	94 - 100%	A	91 - 93 %	B+	87 - 90%	B	83 - 86%
B-	80 - 82%	C+	77 - 79%	C	73 - 76%	C-	71 - 72%
D+	68 - 70%	D	62 - 67%	D-	60 - 61%	F	≤ 59%

Discretionary points

Discretionary points will be based on your conduct and participation in class. As this class endeavors to teach professional disciplines, it is reasonable to ask that students act professionally and treat each other (and the instructor) with respect. The subject matter of this course deserves discussion, I encourage you to offer your ideas and thoughts to the class and to question the material presented.

Homework

Homework is due at the beginning of class on the date specified in the assignment. Late homework and projects will lose 20% for each day they are late. Once solutions to the homework are handed out or discussed in class, late homework will no longer be accepted. Points will be deducted for incorrect grammar, punctuation, and spelling.

Exams

There will be one midterm exam given during a regular class period. The date of this exam will be announced at least one week in advance.

Makeup Exams

Makeup exams will not be given without prior authorization or written documentation that the student was unable to participate. Unexcused missed exams result in a grade of zero for that exam. Excused absences from exams include personal emergencies and work-related obligations, however confirmation is necessary.

Attendance

Attendance is required, ALL discretionary points will be lost if you are absent more than 2 times without prior authorization or written documentation that you were unable to participate.

Academic Integrity

Plagiarism or cheating will not be tolerated. University policy will be adhered to in all such cases. There is a difference between collaboration and plagiarism. Plagiarism is the act of using another's work without giving them credit for it. Collaboration is the exchange of ideas, the debate of issues and the examination of readings among each other that enables you to arrive at your own independent thoughts. Collaboration is encouraged, however plagiarism or cheating will result in a failing grade for the exam or assignment in question.

Late Drops

Late drops are governed by departmental and college policies. The student must show documented evidence supporting reasons for a request to drop a class after the deadline. Requests will be considered on an individual basis.