CS 334
System Design and Implementation

Spring 2005
M-W 2:20–3:30 PPHAC-235
F 12:45–2:20 PPHAC-114
F 2:20–3:45 PPHAC-233/114
http://www.cs.moravian.edu/cs334

CS 334. System Design and Implementation

A project-oriented study of the ideas and techniques required to design and implement a computer-based system. Topics include project organization, interface design, documentation, and verification. This is a writing intensive course. Prerequisites: CS 222, 244, and 256.

Instructor


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Stephen Corbesero
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corbesero@cs.moravian.edu
Office Hours: TR 1:30-2:30
              W 11:10-12:00
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Text

The primary text for the course is Software Engineering: Theory and Practice, 2/e, by Shari Pfleeger. The other required text is Writing for Computer Science: The Art of Effective Communication, 2/e, by Zobel. In addition, once project work begins, besides and tool/library specific documentation, the following pocket references by O'Reilly would prove to be very useful: C++, CVS, GNU Emacs, STL, and UML.

Goals

- Learn the concepts and issues of software engineering, including team work, management issues, ...
- Design, implement, test, and document a large software project.
- Improve writing skills, especially with respect to the field of computer science.

Assignments, Programs, and Tests

The programming assignment will be **group** projects to implement a non-trivial software system. Significant individual and group documentation will also be required. The only test will be a midterm. There may also be homework assignments and short quizzes.

Computer Resources

The MoCoSIN network and workstations will be available for this project, but students may wish to develop their system on other platforms.

Prerequisites

Students are expected to have a strong background in structured and object-oriented programming and data structures.

Grading Scale

Homework	15	Individual/Group
Documentation	30	Individual/Group
Project	25	Group
Presentations	10	Group
Tests	20	Individual
Total	100 %	

Grading Policies

- Incomplete grades will **not** be assigned for failure to do the work as required during the semester.
- Attendance (very important) and pop quizzes count in the homework category. You are responsible for everything discussed in class.
- Each homework (non-program) will be graded out of a possible 100 points.
- Late assignments will be penalized in the usual manner: 10% for one day, 30-50% for one week. After one week, no credit is guaranteed

Tests

No makeup exams will be given. Students missing one or more tests, in a properly excusable fashion, will be graded based on the available scores as the total score. The tests will likely be closed-book, closed notes.

Important Dates

Jan 10	M	First day of classes
Jan 17	M	M. L. King Day, no classes
Jan 18	T	Last Day to Add/Drop
Feb 25	F	Mid-Term
Mar 4	F	Midterm Exam
Mar 5–13	S–U	Spring Recess
Mar 25–28	F–M	Easter Break
Apr 1	F	Last Day to Withdraw with a W
Apr 22–23	F–S	CCSC-NE
Apr 29	F	Last Day of Classes
Apr 30–May 1	S-U	Reading Days
May 2–7	M–S	Final Examinations
May 14	S	Commencement

My Policy on Academic Dishonesty

Students are encouraged to read and understand the college policy on academic honesty. Violations of this policy will certainly result in reduced (0?) scores on the assignments and may result in a failure of the class.