

Syllabus

Course Objectives

CMSC 250 is the second course in our introductory programming sequence. The purpose of this course is to complete your basic education in programming. This includes topics related to the construction of application software such as user interface programming, exception handling, databases, and multithreaded applications. More generally, this course is about the skills needed to assemble and deliver larger pieces of software.

Course Structure

The material in this course naturally falls into three major divisions. The first part of the course will cover graphical user interfaces and object-oriented design. The second part will cover databases and distributed applications. The third part will consist of multithreaded applications and an extended project that will bring together everything we have covered in the course.

Text

Our text is *An Introduction to Java Programming (Comprehensive Version), Twelfth Edition*, by Y. Daniel Liang. The text is optional: I will be posting extensive lecture notes for everything we cover, and the text will simply serve as supplementary reading. If you would like to do more in-depth reading on various topics as we progress through the course, I will be posting suggestions for additional reading in the textbook on the course web site.

Web Site

The course web site is located at <http://www.lawrence.edu/fast/greggj/cmsc250.html>

I will be posting lecture notes for each lecture along with recordings of lectures on the course web site.

Grading Policy

Your grade will be based on two midterm exams, programming assignments, and a final exam according to the following weightings.

Programming assignments	60%
Midterm exams	10% each
Final exam	20%

The late policy for this course is that you are allowed to turn in homework late for a late penalty. The late penalty is 5% off for each day the work is late, with a maximum late penalty of 25% off.

Office Hours

My office hours this term are 12:30-1:40 MWF and 1-3 TTh.

Expectations for Homework

Programming assignments are a major portion of your grade in this course. To maximize your success in this course I suggest that you take the following steps when working on these assignments:

- Come to class, pay attention, and ask questions.
- Review the lecture notes after class.
- Start working on the programming assignments on the day they are assigned, and plan to spend at least a little time every day working on the assignments.
- If you get stuck or don't understand some aspect of an assignment, come to me for help. Very frequently a five minute conversation with me will resolve an issue that might take you an hour or more to resolve on your own.

Schedule of Topics

The following is an outline of the topics we will cover.

Topics	Chapters
Working with objects in Java	13, 19, 20, 21
JavaFX	14
Custom Components in JavaFX	15
Introduction to SQL and JDBC	34
Working with threads	32