



Syllabus for Math 162 Fall 2005 - Section 001, 002, 003, 004,005, and 006

INSTRUCTOR:

Dr. Mary Liu,
Office: 731 Patterson Office Tower
Phone: 859-257-4802
lium@ms.uky.edu
<http://www.ms.uky.edu/~lium>

OFFICE HOUR:

MW 2:00-3:00 PM in Mathskeller and by appointment.

CLASS NOTES AND TENTATIVELY CLASS SCHEDULE:

For class notes, please click [here](#)
For tentatively class schedule, please click [here](#).

THE COURSE MEETS:

- **Classes meet at CP 153 MW from 11:00 AM to 11:50 AM**
- **Recitations meet:**
 1. Section 001: T from 2:00 PM to 3:15 PM CB 215 with Mr. Clark
 2. Section 002: R from 2:00 PM to 3:15 PM CB 215 with Mr. Clark
 3. Section 003: T from 3:00 PM to 4:15 PM CB 215 with Mr. Clark
 4. Section 004: R from 3:00 PM to 4:15 PM CB 215 with Mr. Clark
 5. Section 005: T from 8:00 AM to 9:15 AM CB 211 with Mr. Gorgon
 6. Section 006: R from 8:00 AM to 9:15 AM CB 211 with Mr. Gorgon

THE REQUIRED BOOK:

Applied Finite Mathematics, by S. T. Tan

PREREQUISITES AND EXPECTATIONS:

- Students are expected to have taken a pre-calculus mathematics curriculum. They are expected to have mastered basic high school algebra and including the use of elementary functions and their graphs

COURSE OBJECTS:

This course will cover four topics that have very wide applicability: linear equations and models, linear optimization, basic counting principles, and basic probability. Your goal for the course should be to learn each of these topics well enough so that you can confidently apply them to solve problems that are similar, but not identical to the ones we cover in class. In addition, you should become familiar enough with Excel so that you can solve fairly involved optimization problems. You will be expected to learn the material well enough so that you are able to apply the methods in a setting that we have not covered in class.

OUTLINE OF CONTENT:

Linear Equation and Models, Chapters 1 and 2
Linear Optimization and Applications to Finance, Chapters 3, 4, and 5
Basic Counting Principles, Chapter 6
Probability, Chapter 7

EXAMINATIONS: There will be four two hour examinations:

- EXAM 1: Mon. September 26, Time and Rooms: TBA
Chapter 1 and Chapter 2 are the material for this exam
- EXAM 2: Mon. October 17, Time and Rooms: TBA
Chapter 3 and Chapter 4 are the material for this exam
- EXAM 3: Mon. November 14, Time and Rooms: TBA
Chapter 5 and Chapter 6 6.1 -3 are the material for this exam
- EXAM 4 (Final): Wed. December 14 from 10:30 to 12:30 in CB 153
The final exam is comprehensive. The material is Chapter 1-7.

Old exams: Exam 1 solved, Exam 2 solved, Exam 3 solved, and Final exam solved

Homework (WHS):

You should enroll in our web based homework system and systematically work out and submit the problems on line. It is recommended that you print and work out the answers by hand and then submit. You can have multiple attempts and a generous credit if you do a majority of problems. Most WHS assignments will be due by midnight Monday and each homework assignment will be worth a maximum of 10 points. These are awarded as follows:
30% -40% = 1 point, 40%-60%=3 points, 60%-75%=5 points, 75%-85%=7 points and 85% or more equals 10 points.

A WHS problem is graded as correct if you manage to submit a correct answer at least once to it before the due date. Do not ask for late credit, none can be given! To learn about how to use WHS, click [here](#).

There are total thirteen web-based homework which are counted for your homework scores. There are also four reviews for four exams which are not counted for your homework scores but they can help you prepare your exams.

GRADING:

The three middle-term exams are counted 20% each and one final is going to be worth 20%. Total homework grade will be contribute 10% of your final grad. Your recitation instructor will assign 10% of your final grade based on your quiz grade and participation in the recitations. The policy for the points will be announced by your Recitation Instructor.

THE GRADING SCALE:

- A 90-100
- B 80-89
- C 70-79
- D 60-69
- E below 60.

You should be able to compute your letter grade at any point during the course of the semester by using your current grades and the above scale.

CLASSROOM BEHAVIOR:

Students are expected to come to class on time and show respect for fellow students. That includes, but is not limited to the following. Do not talk unnecessarily during class. Conversations between students will disturb others who are trying to listen to the lecture. Do not leave class early, since such a disturbance is annoying to others.

ADVISE:

Form good study skills from the start. Come to class. Read the text and do the homework. Do not fall behind. It is often hard to catch up in a math class after falling behind. If you are having trouble, then seek help without delay. There are many resources available in the Mathskeller (CB 65). Find classmates to study with. Go to office hours. Talk to me before or after class. Send me e-mail, if necessary. Let me know what problems if any you are having.

CHEATING:

Cheaters will be punished according to University regulation. The minimum penalty is failing the class.