

# FINITE MATHEMATICS AND ITS APPLICATIONS

## MA162 SYLLABUS

Sections 001-006 (MW 8:00am in CB106)

Spring 2012

JACK SCHMIDT

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**Schedule:** MA162 meets Mondays and Wednesdays in CB106. Each section has an individual recitation as its third meeting. These recitation meetings occur at various times on Tuesday and Thursday as indicated on the website: [www.ms.uky.edu/ma162](http://www.ms.uky.edu/ma162). Dr. Schmidt holds his office hours in the Mathskeller (CB63) on Mondays from 2pm to 4pm and Fridays 4pm to 5pm.

There are three evening exams at 5:00pm-7:00pm. They occur on September 24, October 15, and November 12, all Mondays. In case of time conflict, alternate exams are available the same day at 3:00pm, but you must notify me in writing by Sep 5. The final exam will be Thu Dec 13, 6:00-8:00pm; conflicts with other final exams of lower numbered courses must be submitted in writing no later than Wednesday, November 28th.

**Policies:** Behave professionally in class, and address your peers in the classroom courteously. If you need to make an emergency call or text, please quietly excuse yourself and handle the emergency outside of the classroom. Inform me in writing before September 12th of any special accommodations needed for religious reasons, and as soon as possible for disability or extra-curricular reasons.

Please inform your instructor in advance and in writing of any absences. Class absences not reported in writing within one week of the first day of absence are not excused; exam absences not reported within 12 hours of the beginning of the exam are not excused. Exam absences are only excused if they meet the university excused absence policy and are subject to strict verification. Excused absences will not lower your grade, but unexcused absences result in no credit for that day's attendance and recitation points. Homework cannot be turned in late for any reason, and must be turned in through the web homework system at [mathclass.org](http://mathclass.org).

**In writing** means paper in my POT715 mailbox, email to [jack.schmidt@uky.edu](mailto:jack.schmidt@uky.edu), or text to 512-522-5137. In all cases, leave a clear message including your name and course (MA162).

**Content:** We will cover chapters 1-7 of a custom edition of Tan's *Applied Finite Mathematics*, ISBN 0-495-02556-9. Please bring the book to each class. A more detailed schedule is on the course homepage, but roughly speaking we will cover: linear equations, models, and optimization; finance; combinatorics and probability. You should expect to become more comfortable with decision procedures that must take into account more than one input and more than one constraint, and so should be better prepared to handle problems in life sciences and management.

**Grading:** Each of four exams is worth 20% of your final grade, recitation participation is worth 10% of your final grade, and homework is worth 10% of your final grade. Grades are assigned on the standard scale, 90-100% is an A, 80-89% is a B, 70-79% is a C, 60-69% is a D, and below 60% is an E. Recitation participation is described by your recitation instructor. Homework is handled through the Mathclass website.

**Collaboration:** Collaboration is encouraged. Any work turned in for grading will be individually assessed and should represent an individual's work, but it is assumed that that work was done in a collegial atmosphere. Plagiarism is a serious academic offense. Your ideas are valuable; please present your own ideas after having listened to the ideas of your colleagues. Ideas are meant to be shared, understood, and reshaped, not simply copied. Cheating on quizzes or tests will be handled in accordance with university policy, and can result in a failing grade for the entire course and even more serious consequences.

**Tentative weekly schedule:** The weekly schedule is subject to change, but should be similar to the following:

Monday topic		Wednesday topic		Friday Homework due	
		Aug 22	1.1/1.2	Aug 28	HW 0 (extended to Tue)
Aug 27	1.3/1.4	Aug 29	2.1	Aug 31	HW 1.1 - 1.4
	Labor day	Sep 5	2.2	Sep 7	HW 2.1 - 2.2
Sep 10	2.3	Sep 12	2.4	Sep 14	HW 2.3 - 2.4
Sep 17	2.5	Sep 19	2.6	Sep 21	HW 2.5 - 2.6
Sep 24	Review	<b>Sep 24, Exam 1, 5:00pm - 7:00pm</b>			
Sep 26	Review	Sep 26	3.1	Sep 28	HW 3.1
Oct 1	3.2	Oct 3	3.3	Oct 5	HW 3.2-3.3
Oct 8	4.1	Oct 10	4.2	Oct 12	HW 4.1-4.2
Oct 15	Review	<b>Oct 15, Exam 2, 5:00pm - 7:00pm</b>			
Oct 15	Review	Oct 17	5.1	Oct 19	HW 5.1
Oct 22	5.2	Oct 24	5.3	Oct 26	HW 5.2-5.3
Oct 29	6.1	Oct 31	6.2	Nov 2	HW 6.1-6.2
Nov 5	6.3	Nov 7	6.4	Nov 9	HW 6.3-6.4
Nov 12	Review	<b>Nov 12, Exam 3, 5:00pm - 7:00pm</b>			
Nov 12	Review	Nov 14	7.1	Nov 16	HW 7.1
Nov 19	7.2	Thanksgiving		Nov 23	HW 7.2
Nov 26	7.3	Nov 28	7.4	Nov 30	HW 7.3-7.4
Dec 3	7.5	Dec 5	Review	Dec 7	HW 7.5
<b>Dec 13, Final Exam, 6:00pm - 8:00pm</b>					