

FINITE MATH AND ITS APPLICATIONS
MATH 165, SECTIONS 001-007
SPRING 2015

Instructor: Dr. Konstantina Christododouloupoulou

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Office Hours: M 1:00pm– 3:00pm (POT 725), W: 1:00pm– 2:00pm (CB 063), F: noon-1pm (POT 725)
and by appointment.

Common Course Web Page: <http://www.ma162.org>

Course materials will also be posted on Blackboard <http://elearning.uky.edu>

Homework Web Page: You should log into WebAssign through the MA 162 course webpage on Blackboard.

Recitation Time and Location:

Section	Recitation Leader	Day	Time	Location
001	Isaiah Harney	Tuesday	8:00 am - 8:50 am	CB 205
002	Isaiah Harney	Thursday	8:00 am - 8:50 am	CB 205
003	Isaiah Harney	Tuesday	9:30 am - 10:20 am	CB 207
004	Ronald Mullins	Tuesday	3:30 pm - 4:20 pm	CB 306
005	Jonathan Thompson	Tuesday	12:30 pm - 1:20 pm	FB B3
006	Isaiah Harney	Thursday	12:30 pm - 1:20 pm	FB B3
007	Ronald Mullins	Tuesday	2:00 pm - 2:50 pm	DH 131

Textbook: The official course textbook is the 11th edition of **Finite Mathematics for the Managerial, Life, and Social Sciences** by Tan. I expect you to read the assigned sections of the textbook and I expect you to work the recommended practice problems from the textbook. However, you are not required to have a physical copy of the text because an e-book of the text is included with your *Web Assign* account.

Required Supplies:

1. **Turning Point** Remote Control Device
2. A WebAssign access code for the online homework. WebAssign is our on-line homework system. You can log into WebAssign through the MA 162 course webpage on Blackboard. You do not need a class key and you do not (and should not) need to create your own account. Use Google Chrome or Firefox to access WebAssign.
3. **Calculator:** You will need a calculator to perform certain calculations on exams. Scientific calculators (like the TI-30X) or business calculators (like the BA-II) will be adequate. Graphing calculators are allowed but they are not required. However, exam questions will be written to ensure that students with graphing calculators do not have an unfair advantage. Exam proctors reserve the right to clear the memory of any calculator you bring into the exam room. Note that **you will never be allowed to use the calculator on a cell phone**, or any other communication device.

Course Description: Finite mathematics with applications to business, biology, and the social sciences. Linear functions and inequalities, matrix algebra, linear programming, probability. Emphasis on setting up mathematical models from stated problems. Prereq: MA 109 or equivalent.

Course Goals/Student Learning Outcomes: This course will emphasize computational and modeling aspects of mathematics. The course will also require you to effectively communicate your solutions. This means that by the end of the semester you should be able to: *setup* application or word problems, *explain the result* of a computation, *interpret* formulas or processes, and *clearly communicate* your solution process, in addition to *getting the "right" answer*.

The web homework is only capable of testing your computational ability. Recitations, lecture, recommended readings, and suggested practice problems will help develop your modeling and mathematical communication skills.

Course Outline: The course will be divided into four units shown below. This is a tentative schedule and subject to change. A detailed schedule will be updated throughout the semester on the course webpage.

Unit #1	Linear Algebra	January 14th - February 9th
Unit #2	Linear Programming	February 11th - March 9th
Unit #3	Counting and Probability	March 11th - April 13th
Unit #4	Financial Mathematics	April 15th - May 1st

Grading:

Class Participation	4%
Web Homework	8%
Recitation	10%
Exam 1	20%
Exam 2	20%
Exam 3	20%
Final Exam	20%

Course grades will be 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. Note that there is a built in extra credit opportunity to earn up to 102%.

Class Participation: Lecture attendance and participation will be recorded via "Turning Point" clicker devices and will count for 4% of your grade. Clicker scores will be updated on Blackboard each week so you will always know where you stand for this portion of the grade. If you attend class and your clicker is not working you will be able to sign an attendance sheet for partial credit that day. Clicker responses will start counting for credit on **Monday, January 26**. You are responsible for having a working clicker by that date. Clicker participation will only be excused with a documented university excused absence (see below).

Once you have your clicker, it must be registered in order to associate your signal with your name. Registration is accomplished in Blackboard by clicking on the TurningPoint Registration button. Put in

the number on the back of your remote where it says "Device ID" under the Bar Code. Your clicker must be registered by midnight on Sunday, Jan 25. If you miss this deadline, you will get a zero for your class participation grade for each day it is not registered, unless you meet with me and explain your situation in person. If you registered your clicker in Blackboard for another class or a different semester, it is still registered. You can check the registered Device ID number in Blackboard to verify this fact.

Web Homework: Generally you will have two *Web Assign* assignments per week. They will be due Tuesday and Friday at 6:00 pm. The first web homework will be due Friday, January 23rd. Extensions for web homework are rare and will only be given if you have a documented university excused absence. See the "Excused Absences" section below for what is considered an excused absence. The web homework contributes 8% to your course grade.

Recitation Grade: Your recitation instructor will explain how your recitation/participation points will be awarded. Recitation contributes 10% to your course grade.

Readings and recommended practice problems: You will find recommended readings and suggested practice problems listed through <http://www.ma162.org>. Even though these do not directly contribute to your grade, you must keep up with these readings and practice problems in order to be fully prepared for examinations.

Exams: EXAMS ARE HELD ON MONDAY EVENINGS FROM 5:00 - 7:00 pm! The dates are:

Exam #1 February 9

Exam #2 March 9

Exam #3 April 13

The exams could include a combination of multiple choice, true/false, matching, and short answer questions. These questions will be graded on an *all or nothing* basis. Exams will also have some "free-response" questions. These will either require you to perform a lengthy calculation or will require you to setup, solve, and interpret an application problem. The free response questions will be graded both in terms of computational correctness and in terms of how well you communicate your answer/solutions. This means that a well-supported, easy to follow solution may receive almost full credit, even if the "final answer" is wrong; it also means that a sloppily written, hard to follow solution may receive very little credit, even if the "final answer" is correct.

If you have a legitimate, university conflict with the exam times (for example: marching band practice, another class from 5-7 on Mondays, traveling with a sports team) you must notify your instructor no later than one week before the exam so makeup arrangements can be made. Failure to meet this deadline will result in a 10 point penalty on your exam score.

Final Exam: The final exam time is different than the previous exams. The final exam is on

Thursday, May 7 from 8:30 - 10:30 pm

The location for the final exam will be announced in class and on the website later in the semester.

Excused Absences: University Senate Rule 5.2.4.2 defines the following as acceptable reasons for excused absences:

1. serious illness;
2. illness or death of family member;
3. University-related trips;
4. major religious holidays;
5. other circumstances your instructor finds to be "reasonable cause for nonattendance".

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day for adding a class. It is almost always possible to notify your instructor of an excused absence before class. Students who have excused absences due to University-related trips or major religious holidays must inform the instructor prior to the absence and must complete all work prior to the absence. Students who are ill must inform the instructor of their absence(s) as soon as they return to class and they must provide documentation to demonstrate that the absence(s) was excused. Students who have excused absences due to illness or the death of a family member will be allowed to make up any missed work in a timely manner. These arrangements must be made with the instructor on a case-by-case basis. Documentation for illness or death of a family member must be provided within one week of returning to classes.

Make-up policy: The only valid reason for missing an assignment, an exam or a quiz is a legitimate, documented excuse under the guidelines outlined in the University Senate Rules. If this is the case, you will need a note from the appropriate University official and you should notify me as soon as possible.

Special Accommodations: If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a **Letter of Accommodation** from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, jkarnes@email.uky.edu) at least two weeks before the date of the requested accommodation for coordination of campus disability services available to students with disabilities.

Academic Integrity, Cheating, and Plagiarism: You should feel free to study with friends, but any work you submit for a grade should be your own work. This applies to all exams, quizzes, and writing assignments, with the exception of assignments that are specifically designated as group assignments. Academic dishonesty, in any form, will not be tolerated. This includes, but is not limited to, copying a classmate's work, allowing a classmate to copy your work, modifying an exam after it has been handed back in an attempt to deceive the instructor into believing the assignment was graded incorrectly, using a cell phone during an exam. A student found guilty of academic dishonesty will receive an automatic E on the assignment, and in some cases the offense may lead to an E for the course, academic probation, or even expulsion. See sections 6.3.1 and 6.3.2 at www.uky.edu/StudentAffairs/Code/part2.html for more information regarding academic integrity.

Using a Turning Point clicker registered to anyone other than the user is considered cheating and all clickers held by the user will be confiscated immediately.

Class guidelines: It is expected that everyone in our class will act in a respectful manner:

- Please be respectful of your classmates and me while in class or office hours.
- I expect that you are committed to learning and will not miss class. Arriving late (after we have started class) or leaving early is disruptive and disrespectful. If however, you cannot avoid it, please arrange it in advance with me.

- Turn off all cell phones and beepers before the start of class.
- Laptops are not to be used in class (Facebook can wait!)

Course Help: If you find that you need help in the course, see your instructor right away - take advantage of office hours or ask to schedule an appointment. Also, faculty members, graduate students, and undergraduate students are available to answer questions in the Mathskeller, CB 063, Monday - Friday, 9-5, <http://www.mathskeller.com>. The Study, <http://www.uky.edu/AE/>, offers peer tutoring.

Tips for the Course:

- *Mathematics is not a spectator sport.* Your participation and engagement with the material is essential.
- Discuss the topics with your classmates.
- Take advantage of my office hours. This time is set aside for us to help you.
- Don't hesitate to ask questions in class.
- Be reminded that 2 student hours devoted to assignments and preparation for every hour of classroom time is a reasonable expectation for an average student.
- Barring unforeseen medical or other serious conditions, I expect you to be in class on time every day. If you must miss a class, please let me know as soon as possible and be sure to contact a classmate to find out what you missed.
- If you are in trouble see me immediately. If you think you are in danger of failing (or of getting a grade that you do not want) you should see me immediately. I will not give you an extra credit assignment or an incomplete to help you avoid failing, but I can make recommendations regarding drops, study habits, test taking skills, future courses, etc.