

Mathematics 105, Fall 2014 (Section #13161)

Topics in Mathematics

Instructor: Prof. Jeremy Martin

Office: 623 Snow Hall, (785) 864-7114

Office hours: Tue/Wed 2–3, or by appointment

E-mail: math105f14@ku.edu

Prof. Martin or one of the TAs will respond to e-mail within 24 hours or less.

Teaching Assistants:

Davut Ayan ayan@ku.edu

Oguzhan Batmaz oguzhan@ku.edu

Zunwu Zhou z185z632@ku.edu

You will be assigned one of the TAs as your primary advisor. However, all of the TAs are available to help all students.

Lectures: MWF 3:00 – 4:00 PM, 120 Budig Hall

Class Website: <http://www.math.ku.edu/~jmartin/math105>

The website will contain general information about the course, including announcements, policies, and important dates (but not homework assignments, which will be on the Blackboard site). You are responsible for all information posted on the website.

Help Room: The Math 105 Help Room is located in **Snow 151** and will be open most times from 10:00–6:00 on weekdays starting on Tuesday August 26. The [complete schedule](#) is available on the course website. **The best way to get help on homework is to come to the Help Room.**

Course description: Math 105 will cover a range of topics in modern mathematics, including counting techniques, voting systems, fair-division problems, networks, and optimization. If time permits, we will study some basic ideas of statistics. The focus will be on using mathematical tools to understand the real world.

Prerequisites: Math 101 or Math 104, or two years of high school algebra and a score of 26 or higher on the ACT mathematics exam, or a qualifying score on the Mathematics Placement Test. For information on advising and/or placement, contact Lindsey Deaver, Mathematics Department Advisor at ldeaver@ku.edu.

E-mail: You are responsible for checking your KU e-mail account regularly for class information and announcements.

Textbook: *Excursions in Modern Mathematics*, KU custom edition, by Peter Tannenbaum (Pearson Education Inc.). Available at KU Bookstore (kubookstore.com; 1-800-458-1111). The textbook package includes a MyMathLab access code.

Blackboard/MyMathLab: The course will use Pearson's MyMathLab system for all homework assignments. You can access MyMathLab either from [Blackboard](#) or from the [Math Department portal](#). The Math Department maintains a page of [additional MyMathLab information](#), including help with logging in.

Course Requirements

Homework: Regular homework assignments are due every Wednesday evening at 11:59 PM, starting on **Wednesday, August 27**. *Late homework will not be accepted.*

Homework will cover material from the previous week and will be available on Blackboard no later than the Friday evening before the deadline. Most problems will be similar to the exercises in the textbook, although some (typically one or two per week) may cover additional material discussed in lecture. There will be approximately fourteen problem sets over the semester. Your three lowest scores (including any missed assignments) will be dropped.

Tests: There will be two in-class tests on **Friday, October 10** and **Monday, November 24**. Each test will consist of approximately 25–30 multiple-choice questions. You can expect about 80% of the test questions to be similar to homework problems, while about 20% will require you to use your knowledge of the material in new situations.

Final exam The final exam will be given on **Thursday, December 18, 1:30–4:00 PM**, in Budig 120. The exam will cover material from the entire semester (emphasizing material not covered on the in-class tests). It will have the same format as the in-class tests and be approximately two to three times as long.

Test and exam procedures: Seats will be assigned (via Blackboard) for tests and the final exam. If you have seating requests (e.g., a left-handed desk), inform Prof. Martin as soon as possible. Bring your KU ID card and a #2 pencil. You may use a calculator; a graphing calculator is not necessary. Two students may not share a calculator. No other aids are permitted. All cell phones must be turned off during tests.

Grades: Your final score in the class will be calculated as follows:

- Homework: 200 points
- Test #1: 200 points
- Test #2: 200 points
- Final exam: 400 points
- **Total: 1000 points**

Letter grades will be assigned according to the following scale:

- A: 900-1000
- B: 800-899
- C: 700-799
- D: 600-699
- F: 599 and below

These gradelines may be adjusted and $+/-$ grades used at Prof. Martin's discretion, but only in a way that will improve letter grades. (For example, earning 800 points over the semester guarantees you at least a B.)

Course Policies and Additional Information

Classroom conduct: You are expected to be courteous to other students in the class. In particular, please refrain from activities that can be distracting to others, including cell phone conversations, reading the newspaper, or excessive laptop use. Although attendance is not recorded, students who attend class regularly

Makeup tests: Makeups are for situations in which you miss a test due to either (a) a documented emergency or (b) a legitimate, unavoidable conflict of which you inform Prof. Martin **in advance** (for example, a field trip required as part of another KU course). Makeups will always be given **after** the date of the regularly scheduled test.

Approximate time commitment: This is a 3-credit course, so most students will need to spend about 6 (or more) hours per week outside of class in order to earn a decent grade. In addition to spending time on homework problems, you should get into the habit of reading a section or two ahead in the book, so as to be better prepared for lecture.

Drop dates: Add/Drop matters are handled by the KU Registrar (registrar.ku.edu, 151 Strong Hall, 864-4422). Through September 15, you may drop a course and have it removed from your record. From September 16 through November 19, you may withdraw from a course (a grade of W will appear on your transcript). After November 19, dropping is not permitted.

Incompletes: A grade of I is a rare occurrence and is reserved for cases in which a student has completed most of the course work at an acceptable level, but is prevented from completing the course due to extraordinary circumstances. If you think an I may be warranted, you must consult Prof. Martin *before* the final exam. A grade of I **cannot** be made up by taking the course again.

Academic honesty and collaboration: You are required to abide by all KU policies on academic integrity as set forth in [Article 2, Section 6 of the University Senate Rules and Regulations](#).

Cheating, plagiarism or other academic misconduct will result in a failing grade on the assignment in question, and usually further disciplinary sanctions, possibly including an F grade in the course.

You are encouraged to collaborate with other students on the homework assignments. However, intellectual honesty requires that each student submit his or her own work. It is a violation of academic integrity to copy another student's work, or to let someone else copy yours.

Students with disabilities: Student Access Services (disability.ku.edu, 22 Strong Hall, 864-4064) coordinates accommodations and services for all students who are eligible. If you have a disability for which you wish to request accommodations, please contact Disability Resources as soon as possible. Please also contact Prof. Martin privately in regard to your needs in this course.

Religious holidays: If you plan to observe a religious holiday which conflicts in any way with the course schedule or requirements, contact Prof. Martin at the beginning of the semester to discuss alternative accommodations.

Intellectual property: All course materials prepared by the instructor, together with the content of all lectures and review sessions, are the intellectual property of the instructor. Video and audio recording of lectures and review sessions without the consent of the instructor is prohibited. Upon reasonable request, the instructor will usually grant permission to record lectures, on the condition that such recording is used only as a study aid by the student making the recording, and is not modified or distributed in any way. Course materials posted online are exclusively for the use of students in Math 105, and must not be redistributed without the instructor's consent.