MA 111: INTRODUCTION TO CONTEMPORARY MATHEMATICS
SECTIONS 006 AND 007

Instructor Information
Instructor: John Mosley  
Office: The MathHouse – 654 Maxwellton Court  
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Office Hours: MWF 1:00 - 2:00p in the Mathskeller, or by appointment

Course Information
Course Meetings:  
Section 006: MWF 10:00 - 10:50a in CB 243  
Section 007: MWF 2:00 - 2:50p in CB 217  
Course Website:  
http://www.ms.uky.edu/~jmosley/  
Textbook:  
There is no required textbook for this course. Lecture slides and notes on upcom-  
ing topics will be posted on the course website for each class meeting.

Course Goals
• To expose students to a variety of mathematical topics they would not see in a traditional  
algebra-based course.  
• To encourage students to persist in solving problems and to develop an appreciation for  
the beauty of mathematical solutions.  
• To recognize the value of mathematics in solving a variety of practical (and fun) prob-  
lems in society and culture.

Student Learning Outcomes
This course will be an introduction to some modern mathematical methods in applica-  
tion to real life problems. It is expected that by the end of the semester, students will  
acquire an informal understanding of a variety of new mathematical methods and will be  
able to appreciate their power and beauty. By the end of the semester, students should  
be able to demonstrate a proficiency in the application of mathematical knowledge for  
modeling solutions to questions drawn from real life.

Course Help
If you find that you need some extra help in the course, then you should visit John  
as soon as possible! If the posted office hours are not compatible with your schedule,  
please contact John via email to make an appointment. You may also be able to find  
help in the Mathskeller, CB 063, which is open Monday to Friday, 9:00a - 5:00p.
Grading

Your grades will be computed in the following way:

- **Professionalism** 15%
- **Project** 10%
- **Homework** 15%
- **Mini-Exams** 7.5% each (there are four)
- **Exams** 15% each (there are four)

Two of the Mini-Exam scores and one of the Exam scores will be dropped from your final grade.

Your overall letter grade will be based on the following percentages (rounded to the nearest whole number):

- A 90% - 100%
- B 80% - 89%
- C 70% - 79%
- D 60% - 69%
- E 0% - 59%

**Professionalism:**

This portion of your grade will be earned by attending class on a regular basis (without arriving late or leaving early), completing in-class assignments, and actively participating in the lesson (so please turn off or silence your cell phones). You will often be allowed (and encouraged) to work in groups during our class meetings.

**Project:**

This portion of your grade will be earned by completing a written project. I will go into more detail about the project in the middle of the semester.

**Homework:**

This portion of your grade will be earned by completing individual online assignments outside of class. These assignments will include an online portion at [http://webwork.as.uky.edu/webwork2/MA111-Mosley/](http://webwork.as.uky.edu/webwork2/MA111-Mosley/)

Details on using the homework site will be posted later (on the course website).

**Mini-Exams:**

We will have a mini-exam midway through each covered topic. Although (two of) these will contribute to your overall grade, they are designed more to give you an idea of the progress that you are making with the material. We will spend 20-25 minutes on mini-exam days, and then cover new material.

**Exams:**

We will have four exams throughout the semester, one for each of the topics we cover. For each exam there will be a review worksheet provided and before each exam we will have time for in-class review (at least half of a day).
Rules and Regulations

UK Core:

This course satisfies the *Quantitative Foundations* requirement of the UK Core General Education program. [http://www.uky.edu/GenEd](http://www.uky.edu/GenEd).

Absences:

Attendance is mandatory. The official list of excused absences is short. It includes illness, death of a family member, and any trips organized by the university. Excused absences must be reported **prior to or within one week** of the occurrence of absence. To report an absence, **email me** at the email address provided above. This is the **only** accepted way to report an absence, and you are expected to furnish proof demonstrating the cause compelling you to miss class at the next class meeting for which you are present. In short, be here. If you do have an excused absence, you will be allowed to make up work missed during that absence. Arrangements for making up this work will be determined on a case-by-case basis.

Academic Integrity:

Students are encouraged to work together on the course material. Part of the work in class may be group work. It is, however, expected that you work on all quizzes and exams alone. While you may work together on the homework, every member of the class must turn in his or her own solutions which represent the work that the individual has put into the assignment. Copying someone else’s solution or allowing someone to copy your solution is cheating. **Dont do it!** No materials should be visible during exams. I reserve the right to inspect anything visible during exams (e.g., water bottles, ink pens, napkins, etc.). Any kind of communication with other students during an exam will be considered cheating and prosecuted according to university regulations.

Classroom Behavior

Cell phones and laptops must be turned off during class. Behavior disruptive to other students is not permitted. In addition, it is expected that each student maintain common courtesy and civility.

Accommodations

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours or after class. In order to receive accommodations in this course, you must provide the instructor with a Letter of Accommodation from the Disability Resource Center (room 2, Alumni Gym, 859-257-2754, jkarnes@3mail.uky.edu) for coordination of campus disability services available to students with disabilities.

Disclaimer

I reserve the right to change or amend this syllabus at any time for any reason. In this event, proper notice will be given in class.