

**Math 181: A Mathematical World**  
**Section C1. Fall 2014**

**Instructor:** Tom Mahoney

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**Class Time:** MWF 10:00–10:50 am

**Classroom:** Henry 140

**Office:** Altgeld 150

**Office Hours:** Tues 9–10am, Thurs 10–11am

**Textbook:** *For All Practical Purpose: Mathematical Literacy in Today's World*, 9th ed., W.H. Freeman and Co.

**Course Description:** We will introduce selected areas of mathematical sciences. We will study applications, modeling, and solutions of problems involving networks, circuits, trees, random samples, regression, probability, inference, voting systems, game theory, symmetry and tilings, geometric growth, comparison of algorithms, codes, and data management.

**Grading:** Your grade will be broken down into the following components:

Homework and Group Projects:	10%
Quizzes	15%
Midterms ( $\times 3$ )	45% (15% each)
Final Exam	30%

The final grade you earn will be based on the following table:

A+	[97, 100]	A	[93, 97)	A-	[90, 93)
B+	[87, 90)	B	[83, 87)	B-	[80, 83)
C+	[77, 80]	C	[73, 77)	C-	[70, 73)
D+	[67, 70)	D	[63, 67)	D-	[60, 63)
				F	[0, 60)

I am **not** permitted to offer any extra credit, curving, or scaling of grades.

**Homework:** Students are encouraged to work together on homework and worksheets, but you should write up your own solutions. If you choose to collaborate with others, please include their names on any work that you turn in.

Additional help is available through emailing the instructor or through office hours.

**Quizzes:** There will be in-class quizzes, given during the last 10–15 minutes of each Wednesday class, except during weeks in which there is an in-class exam. You will not be permitted to use the book, your notes, or calculators on any of the quizzes.

No make-up quizzes will be given. To accommodate this, your lowest quiz score will not be counted towards your final grade. If you will more more than one quiz, then you must provide official documentation excusing any additional absences.

**Exams:** Three in-class exams given on the following Fridays: **Sept 26, Oct 24, Nov 21**. You will not be permitted to use the book, your notes, or calculators on any of the exams.

No make-up exams will be given. If you know that you are going to miss an exam, you must notify me before the exam and present official documentation excusing the absence.

The Final Exam will be **8:00–11:00 am, Friday, December 19**. Do **NOT** plan to leave campus before the final exam date, as there will be no make-up exam.

**Accommodations:** If you are entitled to accommodations sanctioned by DRES, I need to be notified with official documentation. Please contact DRES as soon as you can about the accommodations you will need.

**Academic Integrity:** All violations will be dealt with in accordance with University policy. Infractions [admin.illinois.edu/policy/code/article1\\_part4\\_1-402.html](http://admin.illinois.edu/policy/code/article1_part4_1-402.html) include, but are not limited to, submitting work that is not your own, using a calculator or ANY other electronic device during an exam, talking during a quiz/exam, and using any aids during a quiz/exam.

*Other Policies:* If you have an illness, accident, or family emergency that prohibits you from participating in any aspect of this course, you must have the Emergency Dean send me a letter to excuse you from your absence. (McKinley notes do not suffice.) You can contact the Emergency Dean at (217) 333-0050. For more information go [www.odos.uiuc.edu/emergency](http://www.odos.uiuc.edu/emergency).

**Expectations:** A classroom is only be effective if the instructor and all students share a mutual respect for each other. This respect is earned both by setting and meeting expectations in and out of the classroom.

My expectations of you include the following:

- Be on-time to class and come prepared
- Stay focused during class time  
(this includes avoiding the temptation to use your cell phone)
- Be a positive and active participant in group discussions
- Seek help if you feel lost or behind

Expectations you should have of me:

- I, too, shall be on-time and prepared for class
- I shall be fair and consistent in grading and in handling special circumstances
- I shall respond to email within 24 hours (usually *much* faster)
- I shall give my full effort in helping any student willing to seek help