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Text

“For All Practical Purposes: Mathematical Literacy in Today’s World” by W.H. Freeman and Co.

Course Description

This is an introduction to selected areas of mathematical sciences through application to modeling and solution of problems involving networks, circuits, trees, linear programming, random samples, regression, probability, inference, voting systems, game theory, symmetry and tiling, geometric growth, comparison of algorithms, codes, and data management. Section E1 is a Term B, 3 credit course. You should expect to spend about twice as much time per week on this course than a 3 credit full term course.

Grading

Worksheets & Homework: 10%  
Quizzes: 15%  
Two exams: 22.5% (each)  
Final essay and presentation: 5%  
Final exam: 25%

The scale for letter grades is as follows:

A+: 96.6667, A: 93.3333, A-: 90  
B+: 86.6667, B: 83.3333, B-: 80  
C+: 76.6667, C: 73.3333, C-: 70  
D+: 66.6667, D: 63.3333, D-: 60

There will be no extra credit offered, nor curving or scaling of grades. If you have any questions about the grading of a particular assignment, you must contact me no more than one week after the day I return the graded assignments in class (whether you are present during that class or not).

Course Requirements

• Attendance: It is your responsibility to attend class. Attendance is mandatory. You are expected to come to class on time and prepared and to remain in class until you have been dismissed. If you arrive late, past 1:05 PM, or leave early, before 2:50 PM, you will receive a 0 on the quiz for that day. Before class begins, you should turn off cell phones and any other electronic devices. As this class meets for only 7 weeks it is important that you are present for each and every session.
• **Homework:** Homework will be assigned weekly in class, and will be due at the beginning of Wednesday’s class. Submitted homework must be stapled (if more than one page), single column, easy to read, and fringe-free. Late homework will not be accepted. You may work in groups, but each of you must hand in your own work in your own words. Solutions that correspond verbatim with those of your classmates will not be accepted.

• **Quizzes:** There will be daily quizzes. The lowest 2 quiz grades will be dropped at the end of the semester. No make-up quizzes will be offered. Note that if you miss a quiz and cannot present official documentation, then that will be the dropped quiz. If you arrive less than 5 minutes late to class you will not be given extra time. If you arrive later than that or if you leave class early, you will receive a 0. Calculators are not allowed.

• **Midterm Exams:** There will be two midterm exams, held in class: **November 11**, and **December 4**. Exams are intended to be more in-depth than quizzes. You must bring a picture ID to all exams. Calculators are not allowed.

• **Final Exam:** The FINAL EXAM is **8:00–11:00 AM**, Tuesday, **December 15**.

• **Final Essay and Presentation** There will be a final essay due Wednesday **December 9**. Students will also give a short oral presentation on the same topic as their essay.

**Other Policies**

• **Excused Absences:** If you have an illness, accident, or family emergency that prohibits you from participating in any aspect of this course, you must contact the Student Assistance Center in the Office of the Dean of Students for documentation to excuse your absence. (McKinley notes do not suffice.) For more information go to [http://www.odos.uiuc.edu/studentAssistance/index.asp](http://www.odos.uiuc.edu/studentAssistance/index.asp)

• **Electronic Devices:** Cell Phones / Laptops / iPads / iPods / MP3s / etc. are not permitted in class. You must silence them and put them away before the bell.

• **Academic Integrity:** All violations will be dealt with in accordance with University policy. [Infractions](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.

• **Assistance:** Please do not hesitate to contact me if you need special assistance, or have questions or problems relating to this course.

**Final Words**

That being said, learning math is an active process. Attending class and being an active participant in your learning is crucial. It is important that you take the assignments seriously and work through all problems in detail. You are strongly encouraged to seek help sooner rather than later, as the longer you put it off the harder it will be to improve your grade. **Best wishes for an enjoyable and productive semester!**