



The University of Georgia

Math 1060 Mathematics of Decision Making Section 64351
SYLLABUS Fall 2009
Mrs. Warnes

LECTURE: TR 12:30 pm – 1:45 pm in Life Science room C-130
OFFICE/PHONE/EMAIL: Boyd GSRC 328 A, phone 706 542 0945
email use WEBCT email

textbook website: <http://bcs.whfreeman.com/fapp8e>

OFFICE HOURS: 10:00 to 12:00 in Boyd 328A. You may schedule an appointment for other times; please email in advance.

Textbook : For All Practical Purposes: Mathematical Literacy in Today's World, 8th edition ,
W. H. Freeman and Company
Or the e-book version which can be purchased at <http://ebooks.bfwpub.com/fapp8e.php>

COURSE DESCRIPTION/OBJECTIVES:

Applications of modern mathematics to management and decision making including the solution of optimization problems using network theory, methods for optimal scheduling, voting methods, game theory, and related strategies. Applications including planning of postal delivery routes, placement of cable television lines, United States Congressional apportionment, and dispute resolution. Critical thinking skills, counting principles and quantitative reasoning will be emphasized.

REQUIREMENTS: Basic algebra skills. **PROMPT, COMPLETE ATTENDANCE** is expected at all classes. Professional courtesy toward your instructor and your classmates is expected. Tests may be made up in the event of University of Georgia athletics (arrangements in advance only) or documented illness. It is the responsibility of the student to contact me as soon as possible and definitely before the next attended class meeting to make appropriate arrangements for making up any missed test. In order to make-up the final exam, documentation must be provided.

All points assignments are due at the beginning of class. Assignments turned in later in the day will have 2 points subtracted for the score. A 5 point penalty will be assessed for each additional day that an assignment is late. All worked must be typed, except for calculations or drawings which may be hand written but must be neat and legible. Make sure you are turning in the exercise problems at the end of the chapter not the Skills Check questions.

Please note this schedule is only approximate and we may need to deviate from it during the semester.

Unit One Management Science
Chapter 1: Urban Services
Chapter 2: Business Efficiency
Chapter 3: Planning and Scheduling
September 15 -----Test One

Unit Two Voting and Social Choice

Chapter 9: Social Choice: The Impossible Dream

Chapter 10: The Manipulability of Voting Systems

Chapter 11: Weighted Voting Systems

October 8 -----Test Two

Unit Three Fairness and Apportionment

Chapter 13: Fair Division

Chapter 14: Apportionment

October 27 -----Test Three

Unit Four Game Theory and The Digital Revolution

Chapter 15: Game Theory: The Mathematics of Competition

Chapter 16: Identification Numbers

Chapter 17: Information Science

December 1 ----- Test Four

Grades:

A --- 920 points or higher	A ⁻ --- 890 to 919 points	
B ⁺ --- 870 to 889 points	B --- 820 to 869 points	B ⁻ --- 790 to 819 points,
C ⁺ --- 770 to 789 points	C --- 720 to 769 points	C ⁻ --- 690 to 719 points
D --- 600 to 689 points		
F less than 600 points		

Points can be earned as follows if there are no errors

Unit Tests 150 points each for a total of 600 points

Chapter Point Assignments 193 points total

Final Exam 300 points

Note that it is possible to earn 1093 points.

ATTENDANCE POLICY: Students are allowed no more than 3 unexcused absences. On the fourth unexcused absence, a student may be withdrawn from the course with a grade of WP or WF (definitely WF after midpoint). Do not regard these 3 allowed absences as "personal free days". These are only to be used in cases of personal or family emergencies. In some cases, verification may be required.

ACADEMIC HONESTY POLICY: *As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty" and the Student Honor code. All academic work must meet the standards described in "A culture of Honesty" found at: www.uga.edu/honesty. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.*

ACADEMIC ACCOMMODATION: If you have a documented (learning) disability, you should contact the Disability Resource Center (<http://www.drc.uga.edu/about/welcomeletter.php>)

REMARKS: Questions are encouraged at all times. Scheduling difficulties can be amicably settled by PRIOR discussion. One aspect of being a member of a community of scholars is to show respect for others by the way you behave. One way of showing respect for others in the educational community is to do your part to create or maintain an environment that is conducive to learning. That being said, allowing your pager or cell phone to ring in class is completely inappropriate because it distracts your classmates and thus degrades their overall classroom experience. Answering your cell phone is doubly inappropriate! For the sake of your classmates, I expect you to turn off your pager and/or cell phone BEFORE you enter class—every class. Similarly, using laptops during class for anything but note-taking is not appropriate. Furthermore, if, in the instructor's opinion, phone/laptop/pager usage becomes a problem, then the offending party will be expelled from class.

Notice that there is no class on the dates 9/7, 10/30, and 11/23-11/27. We DO NOT have class on 12/8 (Tuesday is a Friday that week). The last day to drop any course is October 22.

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary. It is the responsibility of the student to seek clarification of the grading policy and/or course requirements and procedures from the instructor.