

Instructor Information

Instructor: Stephen Winburn
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Course Information

Course title: Mathematics of Decision Making
Course number: MATH 1060
Call number: 44-347
Course description: This is a course on the mathematics involved in decision making, scheduling, voting strategies, apportionment, and related ideas of game theory and "the digital revolution," encryption and identification systems.
Pre and Post-requisites: None
Course Objective: Students are expected to familiarize themselves with the material as presented and cogently answer test questions pertaining to the material. Classroom discussion is expected.
Class location: Room 302 Physics
Meeting day and time: Tu/Th 11:00 AM-12:15 PM

Textbook:

For All Practical Purposes: Introduction to Contemporary Mathematics, 8th edition.

Proposed Course material (Topical outline)

Unit One: Management Science

Chapter 1: Urban Services
Chapter 2: Business Efficiency
Chapter 3: Planning and Scheduling

Unit Three: Fairness and Game Theory

Chapter 13: Fair Division
Chapter 14: Apportionment
Chapter 15: Game Theory: The Mathematics of Competition

Unit Four: The Digital Revolution

Chapter 16: Identification Numbers
Chapter 17: Information Science

Unit Seven: Your Money and Resources

Chapter 21: Savings Models
Chapter 22: Borrowing Models
Chapter 23: The Economics of Resources

Grading Guidelines

Tests: There will be four tests and a separate final. The tests will be worth 14% of your grade and the final will be 30%.

Homework and quizzes: Homework and quizzes will account for the remaining 14% of your grade. Homework will not always be taken up and when it is I will consider it as a quiz. In class quizzes will be taken directly from the homework assigned in class during the course.

Grading Scale:	A: 92-100	A-: 89-91	B+: 87-88	B: 82-86
	B-: 79-81	C+: 77-78	C: 72-76	C-: 69-71
	D: 60-68	F: <60		

A note on tests:

If you need special arrangements for taking test please notify me at the beginning of the semester. If you know in advance that you will not be able to take a test on the assigned date you should make arrangements to take it ahead of time. If you miss a test you need to contact me before the next lecture to arrange a time to make-up the test. No student will be allowed to make-up a test once I have returned to the graded tests to the class.

Resources: <http://bcs.whfreeman.com/fapp6> has study guides for each chapter, Flash Card exercise and self-quizzes for test preparation. There are also Web links to additional real-world applications. To access this site click on the links of chain icon on the MATH 1060 web-ct homepage.

Academic Honesty: All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense.

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

See http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm; especially sections 5 and 7.

Class Policies:

1. Cell phones should be turned off or placed on silent. Note: The vibrate function is audible. Please refrain from its use also.

2. This class will probably become a bit loud at times whether it be discussing problems or getting off track. If you are having problems concentrating let me know and we will all try to be a bit more appropriate.
3. Make every attempt to learn and to have fun. The goal is not to scare anyone it is just to introduce you to math and some of its practical applications.

Some Important Dates

Add/drop	Aug 17-20(21)	Mon-Thurs	
Labor Day	Sept 7	Mon	No Class
Midterm	Oct 8	Thur	
Midpoint withdrawal	Oct 22	Thur	
Deadline			
Fall break	Oct 30	Fri	No Class
Thanksgiving	Nov 23-27	Mon-Fri	No Class
break			
Friday class	Dec 8	Tuesday	
Schedule			
Reading Day	Dec 9	Wed	
Final Exam	Dec 11, 12-3 PM	Fri	12-3 PM
All test	TBD		