

**22 BANA3980**  
**Decision Models**  
**Fall 2014**

Monday & Wednesday 4:40p - 5:35p, Lindner 107

**Instructor:** Feng Mai  
**Office:** 534 Lindner Hall  
**Office Hours:** Wednesday 12:30 -2 PM and by appointment  
**Email:** [maifg@mail.uc.edu](mailto:maifg@mail.uc.edu)

**Text** An Introduction to Management Science: Quantitative Approaches to Decision Making, Revised 13<sup>th</sup> Edition, by David R. Anderson; Dennis J. Sweeney; Thomas A. Williams; Jeffrey D. Camm; R. Kipp Martin, ISBN-10: 1-111-53222-2, ISBN-13: 978-1-111-53222-2

**Grading**

Homework/Lab	20×5 = 100 Points	25%
Exam 1	80 Points	20%
Exam 2	80 Points	20%
Final Exam	140 Points	35%
	<hr/>	
	400 Points	100%

Any dispute of grades should be made in writing within one week that exams/HWs are returned.

**Grade Scale**

The final grade will be based on total number of points earned out of 400.

368 - 400	A	288 - 311	C
360 - 367	A -	280 - 287	C -
352 - 359	B +	272 - 279	D +
328 - 351	B	248 - 271	D
320 - 327	B -	240 - 247	D -
312 - 319	C +	Below 240	F

**Attendance**

It is very important that you attend all lectures and take good notes. We will work out problems that are helpful for homework assignments and exams. If you ever have to miss a lecture, make sure you download the notes and example problems from Blackboard and study them.

## **Homework**

Homework problems will be collected and graded. Homework problem sets (HW1, HW2, HW3) must be submitted at the beginning of the class on the day it is due. Excel Lab1 and Excel Lab2 must be uploaded to Blackboard before the due time. Do not wait until last few days to start working on homework problems!

Late submission: There is a 10% per day (up to 6 days) penalty for late homework regardless of excuse. Homework submitted a week after due date will not be accepted.

## **Exams**

All exams will be closed book and closed notes. Any necessary formulas and tables will be provided. Calculators will be allowed during the exam. Calculators may not be shared.

In case of an emergency, the student must contact the instructor to request an excused absence. If approved, the final exam will be given more weight in the final grade. **Only one excused absence will be granted. All students must take the cumulative final exam.**

## **Electronic Device Use**

Please turn off cell phones or set to vibrate during class. You may use computers during class for note-taking and other class-related work only. Be courteous of the ways it distracts you and peers.

## **Withdrawal Policy**

You may withdraw from the class until **October 31**.

## **Incomplete Policy**

The university policy will be followed. The I grade will be given only if a student, through no fault of his/her own, is unable to complete the course and has an excused absence from last exam. Students receiving an I grade must contact the instructor during the first week of the following semester to arrange a method for completing the course.

## **Academic Integrity**

As with all Lindner College of Business efforts, this course will uphold the highest ethical standards, critical to building character. Ensuing your integrity is vital and your responsibility. LCB instructors are required to report ANY incident of academic misconduct (e.g., cheating, plagiarism) to the college review process, which could result in severe consequences, including potential dismissal from the college. For further information on Academic Misconduct or related university policies and procedures, please see the UC Code of Conduct ([http://www.uc.edu/conduct/Code\\_of\\_Conduct.html](http://www.uc.edu/conduct/Code_of_Conduct.html)).

## **Disability**

Students with disabilities who need academic accommodations or other specialized services while attending the University of Cincinnati will receive reasonable accommodations to meet their individual needs as well as advocacy assistance on disability-related issues. Students requiring special accommodation must register with the Disability Services Office. (<http://www.uc.edu/sas/disability>)

**The instructor reserves the right to revise the syllabus.**

## Tentative Schedule

	Class Date	Topic	Chapter in Textbook	Assignment Due
Week 1	8/25/2014	Syllabus and introduction		
	8/27/2014	Modeling	1	
Week 2	9/1/2014	Linear programming(LP)	2	
	9/3/2014	Linear programming(LP)	2	
Week 3	9/8/2014	Linear programming(LP)	2	
	9/10/2014	Linear programming(LP)	2	
Week 4	9/15/2014	LP applications	4	
	9/17/2014	LP applications	4	HW1
Week 5	9/22/2014	Excel Lab 1		
	9/24/2014	Excel Lab 1	3	
Week 6	9/29/2014	<b>Exam 1</b>		
	10/1/2014	Network Models	6	Excel Lab 1
Week 7	10/6/2014	Network Models	6	
	10/8/2014	Network Models	6	
Week 8	10/13/2014	Network Models	6	
	10/15/2014	Integer programming	7	
Week 9	10/20/2014	Integer programming	7	
	10/22/2014	Integer programming and Non-linear optimization	8	
Week 10	10/27/2014	Probability review		
	10/29/2014	Waiting line models	11	
Week 11	11/3/2014	Waiting line models	11	
	11/5/2014	Excel Lab 2		HW2
Week 12	11/10/2014	No Class (Video Lecture)		
	11/12/2014	<b>Exam 2</b>		
Week 13	11/17/2014	Decision Analysis	13	Excel Lab 2
	11/19/2014	Decision Analysis	13	
Week 14	11/24/2014	No Class (Video Lecture)		
	11/26/2014	No Class		
Week 15	12/1/2014	Forecasting	15	
	12/3/2014	Forecasting	15	HW3
Week 16	12/8/2014 (Mon)	<b>Final Exam (4-6PM)</b>		