

22 BANA2081
Business Analytics I, 3 UG Credit
Time: MWF 2:30p - 3:25p Lindner 111

Instructor **Feng Mai**
Office: 534 Lindner Hall
Office Hours: Mon & Wed 1:00-2:00PM in 537 Lindner Hall or by appointment
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Course Description

This course develops fundamental knowledge and skills for applying statistics to business decision making. Topics include descriptive statistics, probability distributions, sampling, confidence intervals, hypothesis testing and the use of computer software for statistical applications.

Text

Option 1: CME ACP BANA 2081 From UC Bookstores, ISBN: 9781305596443
Option 2: Statistics for Business and Economics, 12th edition, by Anderson, Sweeney, and Williams, South-Western Cengage Learning, Mason, Ohio. ISBN-13: 9781133274537 (you may use 11th or 10th edition)

Grading

Homework	20×3 = 60 Points	12%
Excel Labs	30×2 = 60 Points	8%
Quizzes (best 6 out of 8)	5×6 = 30 Points	6%
Exam 1	80 Points	16%
Exam 2	80 Points	16%
Exam 3	80 Points	16%
Final Exam(Comprehensive)	130 Points	26%
	500 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 500.

460 - 500 A	360 - 389 C
450 - 459 A -	350 - 359 C -
440 - 449 B +	340 - 349 D +
410 - 439 B	310 - 339 D
400 - 409 B -	300 - 309 D -
390 - 399 C +	Below 300 F

Homework

3 sets of homework problems will be collected and graded. Homework assignments must be submitted at the beginning of the class on the day it is due.

You need to submit 2 Excel Labs assignments on Blackboard. I will walk through part of the Excel Labs in class and leave the rest as assignments. They must be uploaded to Blackboard before the due time.

There is a 10% per day penalty for late assignments regardless of excuse.

Quizzes

8 quizzes are scheduled during the semester. Your best 6 out of 8 quiz scores will be counted towards the final grades. There will be no make-up quizzes.

Exams

All exams will be closed book and closed notes. You may bring one single-sided letter-sized formula sheet to 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.**

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.

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).

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>)

Academic Support:

- One-on-One Tutoring

Peer Tutoring is offered for this course by the Learning Assistance Center (LAC.) Tutoring sessions are designed to allow students to work one-on-one with a qualified and trained peer tutor to address course content and study skills. Students may schedule appointments online at <https://lacscheduling.uc.edu>. For more information about the tutoring program as well as days, times, and scheduling instructions, please refer to the LAC website: www.uc.edu/tutoring

- Drop-in Tutoring

Starting September 2nd, drop-in tutoring is offered **Monday 12pm-3pm; Tuesday 9am-12pm; Wednesday 9am-12pm; Friday 9am-12pm** for this course by the Math and Science Support (MASS) Center. During the listed times, students will be able to work collaboratively with each other under the guidance of a highly-trained tutor. No appointment is necessary for these tutoring sessions, but there are a limited number of seats available on a first-come, first-served in the MASS center. You can find the schedule and more information about the MASS Center at <http://www.uc.edu/masscenter.html>.

The instructor reserves the right to revise the syllabus.

Tentative Schedule

Week	Class Date	Topic	Chapter	Assignment Due
Week 1	8/25/2014	Introduction		
	8/27/2014	Data and Statistics	1	
	8/29/2014	Tabular and Graphical Presentations	2	
Week 2	9/1/2014	No Class (Labor Day)		
	9/3/2014	Tabular and Graphical Presentations	2	Quiz 1
	9/5/2014	Tabular and Graphical Presentations	2	
Week 3	9/8/2014	Descriptive Statistics	3	
	9/10/2014	Descriptive Statistics	3	Quiz 2
	9/12/2014	Descriptive Statistics	3	HW 1
Week 4	9/15/2014	Excel Lab 1		
	9/17/2014	Exam 1		
	9/19/2014	Counting Rules	4	Excel Lab 1
Week 5	9/22/2014	Probability	4	
	9/24/2014	Relationships of Probability	4	
	9/26/2014	Conditional Probability	4	Quiz 3
Week 6	9/29/2014	Random Variables	5	
	10/1/2014	Discrete Probability Distributions	5	
	10/3/2014	Discrete Probability Distributions	5	Quiz 4
Week 7	10/6/2014	Discrete Probability Distributions	5	
	10/8/2014	Discrete Probability Distributions	5	
	10/10/2014	No Class (Reading Days)		
Week 8	10/13/2014	Continuous Probability Distributions	6	
	10/15/2014	Continuous Probability Distributions	6	Quiz 5
	10/17/2014	Continuous Probability Distributions	6	HW 2
Week 9	10/20/2014	Review		
	10/22/2014	Exam 2		
	10/24/2014	Sampling and Sampling Distributions	7	
Week 10	10/27/2014	Sampling and Sampling Distributions	7	
	10/29/2014	Sampling and Sampling Distributions	7	
	10/31/2014	Interval Estimation	8	Quiz 6
Week 11	11/3/2014	Interval Estimation	8	
	11/5/2014	Hypothesis Tests, One Population	9	
	11/7/2014	Hypothesis Tests, One Population	9	Quiz 7
Week 12	11/10/2014	No Class		
	11/12/2014	No Class		
	11/14/2014	Hypothesis Tests, One Population	9	
Week 13	11/17/2014	Hypothesis Tests, Two Populations	10	Quiz 8
	11/19/2014	Hypothesis Tests, Two Populations	10	HW 3
	11/21/2014	Review		
Week 14	11/24/2014	Exam 3		
	11/26/2014	No Class		
	11/28/2014	No Class (Thanksgiving)		
Week 15	12/1/2014	Hypothesis Tests, Variances	11	
	12/3/2014	Excel Lab 2		
	12/5/2014	Review		
Week 16	12/12/2014 (Fri)	Final Exam 10:30 a.m. - 12:30 p.m.		