

# BNAD 276

## Statistical Inference in Management

Pre-session 2017

Instructor: Phuong Ho

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Class Room: McClelland Hall 128

Class schedule: Mon–Fri, 1:00pm–3:50pm

Office Hours: 4:00pm–5:00pm (Mon–Thu) in  
MCLND 401C

**Course Description:** This is a course in statistics for business and economics majors. The main goal of this course is to understand basic probability theory and learn how to use statistics to infer information in data. The course consists of two parts: (1) the first half covers basic probability theory and (2) the second part covers topics in statistical inference such as interval estimation and hypothesis testing. The prerequisites for the course are MIS 111, MATH 115A-B or 116, or their equivalents.

### Textbooks:

*Business Statistics: Communicating with Numbers*, 2<sup>nd</sup> edition, by Jaggia and Kelly, McGrawHill  
Recommended Supplement: *Cartoon Guide to Statistics*, by Larry Gonick and Woollcott Smith

**Grading Policy:** Course grades will be determined based on the following weights:

- 27% Midterm 1
- 29% Midterm 2
- 35% Final (Comprehensive)
- 9% Take-home quizzes

### Exams

There will be two midterms and one comprehensive final exam. Make-ups for midterm exams will not be administered. Excuses for missed exam should be pre-approved unless such is impossible in an emergency situation. If you miss a midterm and can document that you were unable to take the midterm for a University excused absence, your grade will be determined by the following weights: 35% of midterm, 56% of final, and 9% of quizzes. Otherwise, students who miss an exam will receive a grade of zero for that exam. Each midterm is a 75-minute test. The final exam is a 2-hour test.

### Take-home Quizzes

There will be 3 take-home quizzes during the entire course. The quizzes aim to review some materials before the midterm tests and the final exam. Each quiz will be given at the end of the lecture so that you can take it home to finish and submit it at the beginning of the subsequent lecture day. There is no make-up quiz and no late submission will be accepted.

### Academic Integrity

Students at the University of Arizona are expected to demonstrate integrity and ethical behavior. Any incidence of academic dishonesty, including cheating on an exam, will be handled in accordance with the Code of Academic Integrity. Sanctions may include, but are not limited to failure of this course.

Link: [deanofstudents.arizona.edu/policies-and-codes/code-academic-integrity](http://deanofstudents.arizona.edu/policies-and-codes/code-academic-integrity)

### Grade Appeals

If you think there was a mistake in the grading of the exams or quizzes, you have two days to contact me after the graded exams or quizzes are returned to you. I will not respond to any appeals after this two-day period.

**Lecture Slides and Exercises:** Lecture notes will be posted on my website and D2L platform.  
[http://u.arizona.edu/~phuongho/bnad276\\_2017.html](http://u.arizona.edu/~phuongho/bnad276_2017.html)  
<https://d2l.arizona.edu/d2l/home>

**Important Dates:**

Midterm 1: Friday, May 19

Midterm 2: Friday, May 26

Memorial Day: Monday, May 29 (No class)

Final: Friday, June 2

**Class Attendance and Etiquette:** While attendance is not mandatory, it is strongly encouraged. Your conduct in lectures, office hours, and exams should be courteous to your fellow students and instructor. Any behavior that potentially disturbs your fellow students or the instructor is not allowed during the class. For example, eating food, chatting with others, and using any electronic devices including cell phones, laptops, or tablet PCs are not allowed in this class. Cell phones should be turned off or on silent. Threatening behavior is prohibited. See the policy on Threatening Behavior by Students. (Link: [policy.web.arizona.edu/threatening-behavior-students](http://policy.web.arizona.edu/threatening-behavior-students))

**Tentative Outline:** Although the official final exam date is Saturday, June 3, our final exam will be held on **Friday, June 2**. Since the final will be given early, we may finish some lectures at 4pm instead of 3.50pm to make up for the lost time.

Date	Topics	JK book	Activities
May 15	Overview & Descriptive Statistics I	Ch. 1–2	
May 16	Descriptive Statistics II	Ch. 2–3	
May 17	Probability Theory I	Ch. 4	Due take-home quiz 1
May 18	Probability Theory II	Ch. 4	(Hand back quiz 1)
May 19	Discrete Probability Distribution	Ch. 5	In-class midterm 1
May 22	Discrete Probability Distribution	Ch. 5	(Hand back midterm 1)
May 23	Continuous Probability Distribution I	Ch. 6	
May 24	Continuous Probability Distribution II	Ch. 6	Due take-home quiz 2
May 25	Introduction to Sampling	Ch. 7	(Hand back quiz 2)
May 26	Sampling and Sampling Distribution	Ch. 7	In-class midterm 2
May 29	Memorial Day (no class)		
May 30	Interval Estimation	Ch. 8	(Hand back midterm 2)
May 31	Hypothesis Test I	Ch. 9	Due take-home quiz 3
June 1	Hypothesis Test II & Simple Linear Regression	Ch. 10, 14	(Hand back quiz 3)
June 2	Final Exam (Comprehensive)		

**Accessibility and Accommodations:** If you require accommodations for a disability, please do so through the procedures established by Disability Resource Center (DRC).

**Subject to amendment:** Course policies in this syllabus are intended to be complete, but minor revisions may be made at the instructor’s discretion, and you will be notified during lecture.