

Course Syllabus

Math – 207: Elementary Statistics

Spring 2015

Professor: Ian Besse	Office: Price 208
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Lecture Location: Price Hall 203	Lecture Times: MWF 1:00 – 2:05PM
Textbook: Introduction to the Practice of Statistics, Moore, McCabe, Craig. 8 th Edition, Freeman, 2014	Office Hours: Tu/Th 3:00 – 4:30, or by appointment

Course Description

This course covers the basic theory and practice of descriptive and inferential statistics including the presentation and structure of data sets, histograms, correlation, and regression analysis. Sampling distributions, binomial, normal, and chi-square probability distributions, confidence intervals, estimation, and hypothesis testing including t-tests and analysis of variance will also be discussed. Includes an introduction to a statistical software package.

Prerequisite: MATH 122 with a minimum grade of C, or placement.

Resources

Textbook: Students must purchase the textbook. For convenience Chap. 1 is posted on Moodle.

Calculator: A graphing calculator is required (TI-84 preferred). There are a limited number available for rent (\$20/semester). Please see the administrative assistant in Strain 102 for more information.

Moodle: All assignments and additional course materials can be viewed on the course Moodle site.

Tutoring: You may want to make use of the stats tutoring services offered in Scott Hall 127.

Course Format and Grading

Homework and Activities (15%): Homework will be graded on completeness, performance on select problems, and presentation. Homework must be stapled in the upper left corner with your name and the assignment listed on the first page. Homework that is difficult to read may receive a lower score. Activities will generally be completed in class.

Quizzes and Labs (15%): There will be several quizzes, some of which may be administered online on Moodle. Labs will be done in the department computer lab in Price 201.

Exams (70%): There will be two midterm exams. Midterm exams will be administered during class, and may be cumulative. The final exam will be worth twice as much as a single midterm exam. The final will be administered in our normal classroom. You must take the final at your assigned time. Please make your travel arrangements accordingly.

Course grade breakdown:	Important dates:
Overall % Letter Grade	Friday, Feb. 6: Add/drop (w/o record) deadline.
[93,100] A	March 21 - 29: Spring Break – No classes
[90,93) A-	Friday, Apr. 10: Last day to withdraw
[87,90) B+	Friday, May 8: Final Exam, 8:30 AM
[83,87) B	
[80,83) B-	
[77,80) C+	
[73,77) C	
[70,73) C-	
[60,70) D	
[0,60) F	

Expectations

As a student enrolled in this course, you are expected to:

- Attend class, participate in class discussions, and ask questions.
- Familiarize yourself with chapters of the textbook **prior** to their coverage in class.
- Complete all assigned work neatly, thoroughly, and on-time.
- Work enough additional problems to ensure comprehension of course material.
- Seek assistance from instructor or tutoring center when difficulties arise.

You should expect your instructor to:

- Arrive on time for lectures.
- Deliver well-prepared lectures.
- Establish clear course expectations.
- Evaluate coursework in a timely manner and provide constructive feedback.
- Be accessible and approachable outside of class.
- Promote an inclusive, supportive, and collaborative classroom environment.

Attendance Policy

Attendance is expected. Students with a record of arriving late or missing class will receive a warning and an alert of academic difficulty may be filed with the Associate Dean for Student Academic Affairs. If the behavior continues, further action (from a lower final grade to dismissal from the course) may result. Absences due to official Pacific University events are excused as long as you let me know at least one week in advance, so we can work together to schedule any necessary make-up activities.

Late/Missed Coursework Policy

Due dates for all coursework are firm and late work is not accepted. However, occasionally circumstances outside of a student's control prevent the timely submission of work. In recognition of this, every student's lowest homework/activities score and lowest quiz/lab score will be dropped.

Academic Misconduct Policy

Pacific University has no tolerance for academic misconduct/dishonesty. It is university policy that all acts of misconduct and dishonesty be reported to the Associate Dean for Student Academic Affairs. Additionally, grade-related sanctions for such misconduct may be imposed at the discretion of the course instructor. These sanctions can range from a reduction of grade on a single assignment to an "F" for the course. Depending upon the severity of the actions, academic misconduct may result in suspension or dismissal from the university. Forms of academic misconduct include, but are not limited to, plagiarism, fabrication, cheating, tampering with grades, forging signatures, and using electronic information resources in violation of acceptable use policies.

Learning Support Services for Students with Disabilities

If you have documented challenges that will impede your learning in any way, please contact our LSS office in Clark Hall (ext.2107). The Director or Assistant Director will meet with students, review the documentation of their disabilities, and discuss the services that Pacific offers and any appropriate ADA accommodations for specific courses.

Tutoring and Learning Center (TLC)

The TLC is located in Scott Hall 127. The center focuses on delivering one-on-one and group tutoring services for math and science courses and writing skills in all subjects. Students should consult with the center's director for information on tutoring available for other subjects. Day and evening hours; walk-ins welcome.

Math 207 – Course Calendar – Spring 2015

	Mon	Wed	Fri
Jan 26 –30	Course Introduction Chapter 1: Distributions	Chapter 1: Distributions	Chapter 1: Distributions Due: Moodle Questionnaire
Feb 2 – 6	In-Class: Lab 1	Chapter 1: Distributions Due: Lab 1 Due: Homework 1	In-Class: Activity 1
Feb 9 - 13	In-Class: Quiz 1 Chapter 4: Probability	Chapter 4: Probability Due: Homework 2	Chapter 4: Probability Due: Assignment Zero
Feb 16 - 20	Chapter 4: Probability	In-Class: Activity 2 Due: Homework 3	In-Class: Quiz 2 Chapter 2: Relationships
Feb 23 – 27	Chapter 2: Relationships	Chapter 2: Relationships Due: Homework 4	Chapter 2: Relationships
Mar 2 – 6	In-Class: Quiz 3 In-Class: Activity 3 Due: Lab 2	In-Class: <u>Midterm Exam 1</u> (Covering chapters 1, 4, 2) Due: Homework 5	Chapter 3: Producing Data
Mar 9 - 13	Chapter 3: Producing Data	Chapter 3: Producing Data	In-Class: Activity 4
Mar 16 - 20	In-Class: Quiz 4 Chapter 5: Sampling Distributions	Chapter 5: Sampling Distributions Due: Homework 6	Chapter 5: Sampling Distributions
Mar 23 – 27	Spring Break	Spring Break	Spring Break
Mar 30 – Apr 3	In-Class: Quiz 5 Chapter 6: Intro. to Inference	Chapter 6: Intro. to Inference Due: Homework 7	Chapter 6: Intro. to Inference
Apr 6 – 10	In-Class: Quiz 6 In-Class: Activity 5	In-Class: <u>Midterm Exam 2</u> (Covering chapters 1 – 6) Due: Homework 8	Chapter 7: Inference for Distributions
Apr 13 – 17	Chapter 7: Inference for Distributions Due: Lab 3	Chapter 7: Inference for Distributions	In-Class: Activity 6
Apr 20 – 24	In-Class: Quiz 7 Chapter 8: Inference for Proportions Due: Homework 9	Senior Projects Day No Class	Chapter 8: Inference for Proportions In-Class: Activity 7
Apr 27 – May 1	Section 2.6: Two-way Tables Section 9.1: Chi-Squared In-Class: Quiz 8 In-Class: Activity 8 Due: Lab 4	Section 10.1: Linear Regression In-Class: Activity 9 Due: Homework 10	Section 12.1: ANOVA In-Class: Activity 10
May 4 – 8	Final Exam Review In-Class: Course Evaluations Due: Homework 11 Due: Lab 5		

Final Exam: Friday, May 8, 8:30 – 11:00 AM

Be advised that everything listed in this syllabus is somewhat tentative and subject to minor changes as circumstances dictate. However, any changes that become necessary will be communicated as soon as possible to students either during lectures, through email, or on Moodle.