

Mathematical Statistics*Class Time:* MW 1-2:15 P.M.*Class Room:* MH 438*Instructor:* Angel R. Pineda, Ph.D.*Office:* MH 182L *Phone:* 714-278-8478*Email:* apineda@fullerton.edu*Homepage:* <http://math.fullerton.edu/apineda/>*Office Hours:* Monday 2:30-3:30 pm, Wednesday 10-11:00 am, or by appointment.*Required Textbook:* Wackerly, Mendenhall, Scheaffer, *Mathematical Statistics with Applications 7th Edition*, Duxbury, 2008.*Course Description:*

This course is an introduction to mathematical statistics with an emphasis on statistical estimation and hypothesis testing using calculus. The course will be a combination of theory with applications. The essential ideas of this course revolve around using mathematics to construct and evaluate methods of statistical estimation as well as the development of techniques for testing hypothesis and evaluating the performance of these techniques. Prerequisite: Math 335 Mathematical Probability

*Course Homepage (Blackboard):*After login into <http://my.fullerton.edu/> choose the Blackboard tab. Select Math 435 01.

- *Email:* make sure that your email on Blackboard is one that you check regularly. Homework assignments, announcements and other class related information will be sent via email.
- *Course Documents:* solution keys and HW problems not in the text will be posted here.
- *Discussion Board (under communication tool):* this online forum allows for students and faculty to communicate about the course (anonymously if desired). This tool can be particularly helpful for students whose schedule does not permit them to meet in study groups.
- *Grades (under course tools):* students will be able to keep track of their grades online.

Grading:

Homework, quizzes and student in-class presentations (25%)

Midterm Exams: (15 % each)

Exam I	Exam II
Wednesday February 25	Wednesday March 25

Course Project (15 %), Initial Presentation: Wednesday April 29, Final Presentation and Paper: Monday May 11

The student (or in groups of two) will write a paper on a topic of their choice with the instructor's approval. The students will give two presentations. The projects may be theoretical (reading a research paper or writing a proof), computational (running computer simulations), pedagogical (developing a lesson plan) or describe an application of mathematical statistics not covered in the course. Details for the final project will be given after Exam II.

Comprehensive Final Exam (30 %), Wednesday May 18, 2:30 pm-4:20 pm

Tentative Grading Scale

Percent	95-100	90-94	85-89	80-84	75-79	70-74	65-69	55-64	50-54	45-49	40-44	0-39
Grade	A+	A	A-	B+	B	B-	C+	C	D+	D	D-	F

The exact grading scale will be determined after the final exam. The numerical scores in the tentative grading scale guarantee the associated letter grade but the instructor may change the scale to the student's benefit.

Withdrawal Dates and Holidays

- February 9: Last day to withdraw from course without a “w”.
- February 16: President’s Day Holiday.
- March 6: Math department deadline to withdraw without compelling reason and documentation.
- March 30 – April 3: Spring Break
- April 24: CSUF deadline to withdraw with a truly compelling reason and documentation.

General Class Policies

- Failure to attend class on a day of a quiz or presentation will result in a zero grade.
- The lowest two HW or quiz grades will be dropped. Late homework will not be accepted.
- Grading on homework and exams will emphasize complete solutions instead of partial credit.
- No make-up exams will be given, unless you have a medical or family emergency. These emergencies require valid documentation. In case of a valid reason for missing an exam, the type of make up exam will be discussed with the instructor in case by case basis.
- Exams will be closed book and closed notes, but you will be allowed to bring one sheet of 8” x 11” paper written on one side.

Homework Grading: Completion, Style Points and In-class Presentations

Each HW will be worth 10 points. Three problems in each HW set will be graded, each worth 3 points. Following the format given in class including writing the complete problem statement for every problem will be worth one point. Students will be expected to present their solutions to selected homework problems to the rest of the class over the course of the semester.

Suggestions

- The course requires a time commitment of about 9 hours outside of class time, so you should set aside enough time to do well. The material builds on itself, so it is important not to fall behind. Start strong.
- I suggest you work in groups on your homework but hand in individual solutions. In your homework include the names of your collaborators. Study groups really help.
- I encourage you to come to office hours regularly. I will do my best to help you.

Students with disabilities

The University requires students with disabilities to register with the Office of Disabled Student Services (DSS), located in UH-101 and at (714) 278 – 3112, in order to receive prescribed accommodations appropriate to their disability. Students requesting accommodations should inform the instructor during the first week of classes about any disability or special needs that may require specific arrangements/accommodations related to attending class sessions, completing course assignments, writing papers or quizzes/tests/examinations.

Academic Integrity

Students who violate university standards of academic integrity are subject to disciplinary sanctions, including failure in the course and suspension from the university. Since dishonesty in any form harms the individual, other students and the university, policies on academic integrity are strictly enforced. I expect that you will familiarize yourself with the academic integrity guidelines found in the current student handbook:

<http://www.fullerton.edu/deanofstudents/judicial/policies.htm>

Emergency Evacuation

In the event of an emergency such as an earthquake or a fire:

- Take all your personal belongings and leave the classroom. Use the stairways not the elevators.
- Go to the lawn area towards Nutwood Avenue. Stay with class members.
- Anyone who may have difficulty evacuating the building, please see instructor.

This syllabus may be changed at the instructor’s discretion. Any changes will be communicated to the students.