

Cedar Crest College
Mathematical Statistics and Probability - MAT 210 00 2
Spring 2009
MW 1:00 pm-2:15 pm BHA 6

Professor: Dr. Michael Sarver
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Office Hours

Monday, Wednesday, Friday

9:00 a.m. - 9:50 a.m.

11:00 a.m. - 11:50 a.m.

Additional office hours are available by appointment.

Required Text:

Hogg & Tanis, Probability and Statistical Inference, 7th ed., Pearson Hall, 2006.

Course Description:

The study of various probability distributions, combinatorics, and statistical procedures from mathematical and applied perspective.

Course Outcomes:

Upon successful completion of the course the student will demonstrate logical reasoning and problem solving skills within the following contexts:

- ★ Knowing which probability distribution is best to use when modeling a scenario.
- ★ Hypothesis testing
- ★ Point and interval estimation
- ★ How, when, and why to perform an ANOVA

Assessment:

There will be three exams each accounting for 25% of your final average. The remaining 25% will consist of selected home work exercises.

The grade scale that I will use to assign final grades is A (93 and up), A- (90-93), B+ (87-90), B (83-87), B- (80-83), C+ (77-80), C (73-77), C- (70-73), D+ (67-70), D (60-67), F(Below 60).

Attendance in class is expected of all students and mandatory on exam days, but it will not be factored numerically into your grade. Make-up exams will be given only with prior notification and documentation of a legitimate excuse. There are **no** makeups for missed quizzes

Notes

• I fully support the Cedar Crest College Honor Code and the Classroom Protocol code as stated in the Customs Book. Appropriate classroom behavior is implicit in the Cedar Crest College Honor Code. Such behavior is defined and guided by complete protection for the rights of all students and faculty to a courteous, respectful classroom environment. That environment is free from distractions such as late arrivals, early departures, inappropriate conversations and any other behaviors that might disrupt instruction and/or compromise students' access to their Cedar Crest College education.

• Students should not make any travel arrangements for the end of the semester until after the final exam schedule is published.

• Cell phones should be turned off for the duration of the class period.

• Collaboration on daily homework is expected and encouraged, but any work turned in for a grade should be your own. Violations of the college plagiarism policy will be reported to the dean and result in a grade of zero for the particular assignment / exam.

• It is vitally important for you to keep current with the work. Students who fall behind early quickly find themselves in a hole that is very difficult, if not impossible, to get out of. I'm more than willing to meet with you during my office hours or otherwise

to help you succeed, but you must make the effort. Feel free to drop by my office, even if it's not my scheduled office hour.

- The format of the course will be lecture/discussion with much emphasis on homework discussion. In order for this to work it is vitally important for you to come to class prepared.
- It will be beneficial for you to have read the day's material before coming to class.
- Students with documented disabilities who may need academic accommodations should discuss these needs with me during the first two weeks of class. Any student who wishes to request accommodations should contact the Advising Center.

Tentative Schedule

Date	Sections
Jan 19	1.1, 1.2
Jan 21	1.3, 1.4
Jan 26	1.4, 1.5
Jan 28	1.6
Feb 02	2.1, 2.2
Feb 04	2.3, 2.4
Feb 09	2.4, 2.5
Feb 11	Review
Feb 16	Exam #1
Feb 18	3.1, 3.2
Feb 23	3.2, 3.3
Feb 25	3.3, 3.4
Mar 02	5.2, 5.3
Mar 04	5.3, 5.4
Mar 09	Spring Break
Mar 11	Spring Break
Mar 18	Review
Mar 23	Exam #2
Mar 25	6.1, 6.2
Mar 30	6.2
Apr 01	6.4, 6.5
Apr 06	6.5, 6.7
Apr 08	6.7,6.8
Apr 13	Break - No Class
Apr 15	8.1, 8.2
Apr 20	8.2
Apr 22	8.5, 8.6
Apr 27	8.7
Apr 29	8.8
May 04	Review
TBA	Exam #3