

Syllabus

Instructor : Dr. Sherwin G. Toribio

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Office hours : MTWRF 10:30AM - 11:30AM, or by appointment

Course Description : This is an introductory course covering fundamentals of modern statistical methods. Topics include descriptive statistics, concept of probability, common probability distributions, estimation, hypothesis testing, regression and correlation, and ANOVA. The z , t , F and χ^2 test statistics are introduced. Instructions on how to use the popular SPSS statistical software in performing statistical analysis is included.

Course Objectives : The **main objective** of this course is for students to master different commonly used Statistical methodologies. That is, at the end of the semester, students should be able to do the following: (1) Determine the most appropriate statistical method to use for a given statistical problem; (2) do the statistical analysis manually, with calculator, or using SPSS; and (3) write appropriate conclusions based on the statistical results. **Secondary objectives** for the course include: (1) To develop good study habit, (2) to foster hard-working attitude, and (3) to help students develop the ability to learn new concepts on their own.

Textbook : "Statistics", 10th ed., by McClave and Sincich.

Grading :

4 Long Exams	400 pts
1 Comprehensive Final Exam	200 pts
10 Quizzes @ 15 pts each	150 pts
Daily Assignments	125 pts
3 SPSS Assignments	100 pts
Attendance and Class Participation	25 pts
Total points	1000 pts

To get a grade of

A	- one has to get at least 920 (92%) points out of 1000.
A/B	- one has to get at least 870 (87%) points out of 1000.
B	- one has to get at least 820 (82%) points out of 1000.
B/C	- one has to get at least 760 (76%) points out of 1000.
C	- one has to get at least 700 (70%) points out of 1000.
D	- one has to get at least 600 (60%) points out of 1000.

Tentative Exam Dates :

Exams	Dates	Time	Coverage
Exam #1	Feb. 21	Class Time	Chapters 1, 2, and 3. (except 2.9 & 3.8)
Exam #2	Mar. 13	Class Time	Chapters 4, 5, and 6. (except 4.5, 4.6, & 5.6)
Exam #3	Apr. 17	Class Time	Chapters 7, 8, and 9. (except 9.5 & 9.6)
Exam #4	May 7	Class Time	Chapters 10, 11, and 13. (except 10.4 & 10.5)
Final Exam	May 15	12:15 - 2:15 pm	Comprehensive

Note : Complicated formulas will be provided in all exams.

Long Exams : In order to finish these long exams in the allotted time, you should be well prepared for them. That is, you should be familiar with all of the materials we covered in class and have practiced enough to know how to answer most of the problems in the exam at first glance.

Make-up Exam Policy : In order to be excused from any long exam, you must have a valid reason and you must discuss the matter with me before the exam. In the event that you miss a long exam due to circumstances beyond your control, I may count your final exam for a larger part of your grade.

Homework : Homework will be assigned daily and will be collected the following class day. Each homework will be worth 5 points. I will randomly select one problem to be checked for 3 points and the remaining 2 points will be based on how complete and neatly written is your homework. Doing the homework is how you **really** learn the material. **The quizzes will be mostly based on these assigned problems.**

SPSS Assignment : Students can work in pairs for these SPSS assignments. All your work should be type written on a computer paper.

Attendance : Attendance will be taken every day. An excused absence (approved by me) does not count as an absence. At the end of the semester, points will be awarded as follows:

Absences	0-2	3-5	6-7	8-9	10 or more
Points	15	12	9	6	0

Calculator : It is recommended that students bring with them a calculator to class. TI-83 is preferred but any other calculator that has statistical mode is fine. **Two students may not share a calculator during an exam.**

Classroom Courtesy : Please turn off your cellphones and ipods when you get into the classroom. If you have to leave early, please let me know at the beginning of class and make a quiet exit.

Academic Honesty Policy : Academic dishonesty will NOT be tolerated in this classroom. If you are caught cheating in an exam, it will result in an automatic F in that exam and a written reprimand to be included in the student's disciplinary file. Do not even let yourself come under suspicion of dishonesty.

Accommodations : Any student with a documented disability (e.g., physical, learning, psychiatric, vision, or hearing, etc.) who needs to arrange reasonable accommodations must contact the instructor and the Disability Resource Services Office (165 Murphy Library, 785-6900) at the beginning of the semester.

NOTE: Mathematics/Statistics is not a spectator sport. It requires daily participation, both in the classroom and in the homework. This might be a difficult course for some of you, so find a study partner(s). Two heads are usually better than one and it makes the work a lot more fun....

Good luck and I hope you will do well in this course.