

STAT 3830: Statistical Methods II - SECTION 101, FALL 2018

Instructor:	Lasanthi Watagoda	Email:	lasanthi@appstate.edu
Class Meetings:	MWF 12:00pm-12:50pm	Place:	WA 307B
Office:	WA 340	Office Hours:	MW 1.00-3.30pm, or by appointment.

Physical Requirements:

- **Book:** William Mendelhall & Terry Sincich *A Second Course in Statistics, Regression Analysis*, 7th Edition.
- **Time:** At least six hours outside of class each and every week to spend working in the computer lab, reading material, visiting office hours, doing homework, and studying.
- **Basics:** You must have a dedicated statistics notebook and a pencil in class every day. You will want to take notes every class meeting.

Course Objectives: To become familiar with parametric and non-parametric statistical methods and inferential procedures. Topics include contingency table analysis, analysis of variance, experimental design, topics from multiple regression, error rates, and power. We emphasize non-theoretical development of statistical techniques and focus in interpretation of results. Statistical software will be utilized in the course.

Software: R, MINITAB and SPSS will be used as the computing packages of this course. Homework may be done using these packages.

Prerequisites: STT3820.

Important dates:

Last day to drop with refundAugust 27
last day to drop without "50% surcharge" ..September 4
Last day to drop without refund October 25

Grading Policy:

Quizzes 15%
Homework 15%
Mid Exams and Presentation45%
Final Exam 25%

Grading Scale:

Grade	–		+
A	89.5 – 92 [–]	92 – 100	
B	79.5 – 82 [–]	82 – 88 [–]	88 – 89.5 [–]
C	69.5 – 72 [–]	72 – 78 [–]	78 – 79.5 [–]
D	59.5 – 62 [–]	62 – 68 [–]	68 – 69.5 [–]
F		0 – 58 [–]	58 – 59.5 [–]

General Policies:

- Students are to arrive on time to class. If you arrive after I have started lecturing, you are late. If you are late, you are expected to enter the classroom silently. Do NOT disturb your neighbor as you are seated.
- Once you get to class, you are expected to continue working until you are dismissed. Packing up before class is over disrupts the learning of your fellow students. If you leave before a personal or general dismissal, your attendance for the day will likely be set to a zero.
- Missed work earns a zero except for University directives. Be sure to start your readings and homeworks in a timely manner. Ideally, you start your homework that is due for the next class the day of lecture so that you can come to office hours, math lab, or write e-mail to get help in time to do well. No extensions are granted during the semester, so plan the time to do well. Tests or other assignments that will be missed because of a University excused absence must be completed before the following class meeting. (For example, if you are on a sporting team that is leaving for an away event on Thursday and a test will be Friday, you would be responsible for taking the test the Wednesday BEFORE the Friday you will miss; if the test is to be Monday, and you will be back Monday night, you could take the test on Tuesday.)
- You are responsible for ALL content and work if you miss a class. Be sure to contact me before any class you must miss by e-mail to have an absence excused. Excused absences include religious observances, ASU sporting events, illness, death in the family, and possibly other circumstances that keep you out of class. If you do not inform me why you are missing from class before midnight on the day of the absence, no accommodation of any type is available to keep you from earning a zero on whatever was done or due during class that day. Consideration Counts!
- All final course grades will be computed as described in this syllabus. Concern about your grade (passing the course, graduating) should be addressed by you, your behavior, and your continued effort throughout the semester, starting on the first day of class. At the end of the semester, your grade is a mathematical formula and will be computed as described in the syllabus. This syllabus is a legal contract.
- Cell phones may not be out during class AT ALL. Having a cell phone out is an honor code violation for this class and will result in an immediate zero on your attendance for that day. You MUST have a separate calculator for statistics or use the one on the computer under the accessories menu. (Exceptions can be made for rescue personnel, single parents, or genuine emergencies which you discuss

with me before class starts.) I should NEVER SEE your phone! No cell phones or beepers are to make noise during class. No exceptions! (If you are in one of the “exception” categories for having a cell phone out, it should be set to vibrate.) If your cell phone or beeper sounds during class, your participation total decreases. SILENCE YOUR PHONES!

- No headphones that project noise are to be worn during class. Noise canceling headphones are allowed as an ODS accommodation. (It is hard to concentrate on statistics with other noise playing in your ears!)
- Please make an appointment to come to office hours. This allows me to make sure that I will be free and available when you want to come. If you have not made an appointment to see me, I may or may not be able to help you right then.
- A 5-minute chat with your instructor in the first few weeks is beneficial. I will have a sign-up sheet next week for you to schedule that chat. This will help me learn your names faster and to understand better what you hope to gain from this course. The interview counts as one of your quizzes (Quiz0). You are expected to attend the appointment you make. There is space for each student to make ONE appointment. If you make and miss an appointment, your attendance for the interview grade will be a zero. If you do not make an interview appointment, your “interview” attendance will be omitted.
- No food or drink is allowed near the computers...EVER...FOR ANY REASON...it is very bad for the computers to drink and eat. If you must have food or liquid during class, partake away from the computers. This includes water bottles, hard candy, and anything else that remotely resembles food. Eating or drinking near the computers will result in a loss of participation points.
- Class time is for working on statistics. If you use software other than what is needed to do your statistics, your participation grade will be decreased and you may be asked to leave class. (If I see you checking e-mail, looking at facebook, or doing other non-statistics work on your computer, your participation grade will decrease.)
- Disruptive students may be asked to leave class for talking, beeper or cell phone buzzing, or generally unpleasant behaviors of any kind. The Academic Integrity Code is in force at all times.

General Notes:

- We are in a professional environment in college. Practicing appropriate professional behavior in class will help you after you graduate at least as much as learning statistics will. Given this “professional” environment, our class will be polite to one another, will not use inappropriate language, and will not display inappropriate clothing. I do not want to see or hear anything in this class that indicates we are anything less than ladies and gentlemen, capable of conducting ourselves with decorum in any situation. Inappropriate language (spoken or on clothing) or behavior is considered disruptive and will be dealt with accordingly.
- I am here to help you. My style of teaching presents material rather quickly and then allows you to work problems. There will always be a day before a test for you to ask questions. I strongly believe that until you have worked MANY problems correctly that you will not understand statistics.
- Read the pages that are linked from the site: <http://www.how-to-study.com/study-skills/en/> where you think you could use some help before coming to class for the next period. Do this BEFORE reading any statistics.
- Read all of <http://www.cse.buffalo.edu/rapaport/howtostudy.html> about how to study. It is an excellent and amusing resource, and the first sections about outside commitments are VERY important. (The link on “how to be punctual” at <http://www.wikihow.com/Be-Punctual> is important for this class.)

- Your attitude will greatly affect your ability to succeed in this course. It will also affect your classmates' attitudes in class. Always consider this fact carefully before you speak or act. If your comments or actions in class are deemed by the instructor to adversely affect other students' attitudes, they are considered disruptive.
- Also considered disruptive are (1) conversations among students while information is being presented, (2) rude comments or remarks directed toward other students or the instructor, (3) raised voices or confrontational comments, and (4) failure to follow instructions given by the instructor.
- If your actions in class are deemed by the instructor to be disruptive and you do not cease and desist from those actions immediately upon request, you will be asked to leave class. (Disrupting a class is unlawful in North Carolina.) If you do not comply, the police will be called to remove you. You may be permitted to return to future class meetings, but only after consultation with the instructor. Additionally, you may be required to arrange a conference with a university administrator before returning to class. Continued disruption and/or violations may result in an "F" for the course and your permanent removal from the course.

ASU Policies can be found at <http://academicaffairs.appstate.edu/syllabi> and include academic integrity code, disability, attendance, and work load policies.

Tentative Schedule:

No.	Week	Monday	Wednesday	Friday
01	Aug 20	No Class	Ch3.2, Ch3.3	Ch3.4, Ch3.5
02	Aug 27	Ch3.6, Ch3.7, HW1	Ch3.7, Ch3.8	Ch3.9, Quiz1
03	Sep 03	No Class	Ch4.2, HW2	Ch4.3, Quiz2
04	Sep 10	Ch4.4, Ch4.5, HW3	Ch4.6, Ch4.7	Ch4.8, Quiz3
05	Sep 17	Ch4.9, Ch4.10	Review for test1	Test 1
06	Sep 24	Ch4.11 HW4	Ch 4.11, Ch4.13	Ch 4.13, Quiz4
07	Oct 01	Ch 4.14, HW5	Ch5.2, Ch5.3	Ch5.4, Quiz5
08	Oct 08	Ch5.5, HW6	Ch5.7	No Class
09	Oct 15	Ch5.8, Take Home Quiz6	Work on Presentations	Presentation
10	Oct 22	Ch5.9, HW7	Ch5.10	Ch5.10, Quiz7
11	Oct 29	Ch6.2, HW8	Ch6.3	Ch6.3, Quiz8
12	Nov 05	Ch6.4	Review For Test 2	Test 2
13	Nov 12	Ch7.2, HW9	Ch7.3	Ch7.4, Quiz9
14	Nov 19	Ch8.2	No Class	No Class
15	Nov 26	Ch8.3, HW10	Ch8.4	Ch8.5, Quiz10
16	Dec 03	Review For Final	Review For Final	
16	Dec 10	Final:11-1.30p.m. (WA307B)		