

Course Information (*subject to change*)

Time and Place: Tue Thu 8:00 am - 9:15 am, Blocker 150

Instructor: Willa Chen, Associate Professor of Statistics (<http://www.stat.tamu.edu/~wchen/>)

Office: Blocker 416D, 979-845-3141 (main office), 979-845-3144 (fax)

E-Mail: wchen@stat.tamu.edu

Office Hours: Tue Thu 9:15am-10:00am

Teaching Assistant: Ya Su, ysu@stat.tamu.edu, Blocker 422, Office hours: Tue 12:30-1:30pm and Fri 10:30-11:30 am (Your TA also will answer homework questions and monitor the discussion board.)

Class Web Pages: <http://dl.stat.tamu.edu/dostat> (for lectures, notes, homework assignments and discussion board). See [Instructions for DoStat](#) below..

Help Sessions: Mon 1:00-3:00 pm, Wed 3:00-5:00 pm at Blocker's ACC Open Access Lab

Textbook: R. L. Ott and M. Longnecker, *An Introduction to Statistical Methods and Data Analysis*, 6th Ed. Can be purchased online, via http://www.stat.tamu.edu/dist/content_link.php?page=textbooks

Computing: JMP version 9. Your registration includes a free copy of JMP, please see [instructions](#) below.

Homework: Homework will be assigned almost every Tuesday and will be due the following Tuesday at the beginning of the class. The homeworks count for 10% of the grade. Late homework will not be accepted under any circumstances. However, the two lowest homework scores will be dropped. Please see the [homework policy](#) below.

Exams: There will be two midterm exams worth 20% and 30% respectively, and a final exam worth 40%. Please see the [exam policy](#) below.

Exam Dates: Midterm 1: Thursday, February 16.
Midterm 2: Thursday, April 5.
Final Exam: Tuesday, May 8, 1:00–3:00 pm.

Copyright: All the resources I provide for this course are copy righted and may not be copied or distributed without my express, written permission.

Disabilities Help: The Americans with Disabilities Act ensures that students with disabilities have reasonable accommodation in their learning environment. If you have a disability and need help, please contact me and [Disability Services](#) in B118 Cain Hall, 845-1637.

Research Assistance: The Department of Statistics provides statistical advice to students of Texas A&M University who are engaged in unfunded research. Go to <http://www.stat.tamu.edu/helpdesk.php> for detailed information.

Course Policy

Homework Policy: Your homework solutions must be your own work, not from outside sources, consistent with the university rules on **academic integrity**. I expect you to follow this policy scrupulously. Your performance on the exams is much more likely to be better. You may use:

- Your textbook and notes from class.
- Discussion with the instructor or lab assistants.
- Voluntary, mutual and cooperative discussion with other students in the class. Do not post complete solutions or final answers on the discussion board. Suggestions and partial explanations are ok.

You may not use:

- Solutions manuals (printed or electronic).
- Solutions from students who took the class previously.
- Copying from students in this class, including expecting them to reveal complete solutions in "discussion".

Homework will be assigned/posted in DoStat. It will be available each Tuesday and will be due and handed in at the beginning of the class the following Tuesday. Homework solutions will be posted the same day soon after the class. Late homework will not be accepted for any reason, including technical problems with your computer or the Dostat server.

You may submit your homework via email or fax by 8:00 am of the due dates ONLY due to illness or other university **excused absence**. Convert your homework to a pdf file if it is to be emailed, and notify me by email if it is to be faxed.

Exam Policy: Your exam solutions must be your own work, consistent with the university rules on **academic integrity**. Each exam will be opened book/notes. The final exam is cumulative. Acceptable resources are:

- A calculator for numerical calculations only. The calculator may not be part of, associated with or connected to any communication device, such as a cell phone.
- Textbooks, handouts, class notes and statistical tables.

Sharing materials during an exam is not allowed.

No exam may be taken early, except if you provide a university excused absence with appropriate documentation. No make up exam will be given. In case of any unexpected emergency that you must miss an exam, notify me as soon as possible. See me at your earliest convenience to discuss a solution providing you have appropriate documentation.

Classroom: No electronic device (laptops, cell phones, ipods, . . . , anything can be switched on and off) may be seen, heard or used in the classroom, except possibly a calculator for in-class practice.

I expect you to take an active role in learning Statistics. There is no such thing as a "bad" question or answer, so please speak up. This helps me to identify points which I haven't explained well enough.

Privacy Policy: Under federal law, Family educational Rights and Privacy Act (FEPR), grades should not be given out over the telephone or email. No student grade that is personally identifiable may be posted unless the student has given written consent in advance.

Instructions for Using the DoStat Website

Students will have access to homework, lecture notes, the discussion board and other resources at the [DoStat website](#). To access the website, you will need to register according to the instructions below soon after classes start. The course reference and registration code will be provided emailed to your TAMU account before the start of the semester.

1. (If you are already registered as a DoStat user, skip steps 1 and 2 and go to step 3.) Go to <http://dl.stat.tamu.edu/dostat> and click on the **Register Here** link.
2. Fill in all of the information and click on **Submit**. Please enter your *preferred email address* as this will be the one I use to contact you. You should get an email confirming your registration.
3. Login (at the same site) using the information entered in step 2.
4. Click on the **Add Course** link to the left.
5. Fill in the course reference **DS-XXX** and registration code **XXXXXXXXXX** provided to you and press **Register**.
6. Click **My Account** and edit your information as desired. Again, please indicate your *preferred email address*.

After registering for the course, take a look at the resources. Please look/watch for further instructions concerning the use of DoStat. Especially note the Discussion Board Rules.

Instructions for Installing JMP

Students enrolled in STAT651 can obtain a free copy from <http://www.stat.tamu.edu/jmpinstall/> . You will need username **XXXXXX** and password **XXXXXX** to access the files. Please read "readme.txt" for instructions. Download jmp9mac_2010.zip if your are a mac user, jmp9pc.zip if your are a window user.

Course Outline (*subject to change*)

Handout	Book Section	Topic
1	3.3, 3.4, 3.5, 3.6	Summarizing Data
2	4.2, 4.3	Probability
3	4.7	Discrete Random Variables
4	4.8 (p 158-166)	The Binomial Distribution
5	4.9	Continuous Probability Distributions
6	4.10	The Normal Distribution
7	4.11, 4.12	Sampling Distributions
<i>Midterm Exam 1</i>		
8	5.2, 5.3, 5.7	Confidence Intervals for the mean
9	10.2	Confidence Intervals for Proportions
10	5.4	Hypothesis Testing, Introduction
11	5.7, 10.2	Hypothesis Testing, One-Sample Tests
12	5.6	p -Values
13	6.4, 6.2	Comparing Two Population Means
14	10.3	Comparing Two Population Proportions
15	10.5	Chi-Square χ^2 Test for Independence
<i>Midterm Exam 2</i>		
16	8.2, 9.4, 9.5	One-Way Analysis of Variance, ANOVA
17	11.1, 11.2	Simple Linear Regression I
18	11.3	Simple Linear Regression II
19	11.7	Simple Linear Regression III
20	11.4	Simple Linear Regression IV
21*	13.4	Regression Diagnostics I
22*	13.3	Regression Diagnostics II
<i>Final Exam</i>		

*We usually do not have time to cover these two handouts.