

Instructor: Teck Ky

Day and Time: Lecture via Zoom T & Th 6:30 PM-8:45 PM.

Office Hours via Zoom: Tuesday and Thursday from 5:00 PM to 6:00 PM

You will receive an invitation from Zoom for my office hours on Tuesday and Thursday.

Please check your email for the invitation from Zoom.

**Text:** Statistics: Understanding Uncertainty, (Fourth Edition) Frank Soler

**Labs:** Will be given after the meeting on Zoom

**Calculator:** I recommend that you buy TI-83 or TI-84 for this course.

**Topic:** This course will cover selected topic from chapters 1-12, including graphical and numerical descriptive methods, probability, random variables and their distributions, sampling distributions, the central limit theorem, confidence intervals, hypothesis testing, z and t procedures, simple linear regression, one-way analysis of variance, and applications of the Chi-squared statistic.

**Relationship of the course to College Mission:** One aspect of the College's mission is to enable our students to realize their highest potential and to achieve their educational goals. Statistical literacy is as necessary as reading and writing literacy for competence in today's world. This class will help you foster a critical attitude towards statistical arguments and will help provide intuition about statistics which can sometimes be lost behind the mathematical formulas. We will use the latest technology to explore and simulate data. I am here to teach you and to help you to learn how to learn the contents in this course, and you need to come to class to learn these contents. To be on time for every lecture is not only a goal but also a responsibility.

**Writing Across Curriculum Part:** Students will use complete sentences to explain procedures and summarize the problems from the textbook, quizzes, and computer labs.

**Laboratory projects:** Two computer lab assignments will be given this quarter. You will learn how to use the programs from the Statdisk and EXCEL programs with your assignments. Extensive EXCEL programs and the Statdisk demonstrations will be done in lecture and lab.

**Accommodation:** If you have a learning or physical need that will require special accommodation, please make an appointment with our Disabled Students Program and inform me of your needs.

### **Reading Regularly = Understanding Class Material.**

**Homework:** Mathematics is learned by doing problems. You cannot learn mathematics just by watching me during class or asking me to solve the problems for you. Mathematics is a lot like playing an instrument or sport. Becoming proficient require practice, practice, practice. The problems from our textbook and in-class-practice problems are your opportunity to practice. Please try to maintain a constant level of effort. The problems will be assigned daily. These problems will prepare you for the exams and final.

**Problems for you to ponder:** Frequent problems for you to ponder will be given at the end of the class period. There will be no make-up for missed problems.

**Exams:** There will be two 100-minute exams. Make-up exam will be allowed only under exceptional and justifiable circumstances, and you should be prepared to substantiate your case with some documentation. The exams will be given on **April 29** and **June 3**.

The final exam will cover the entire course and will be given on **Thursday, June 24, from 6:15 PM to 8:15 PM**.

**Attendance:** Regular and punctual meeting on Zoom is expected of each student. Students absent during the first week must contact the instructor to avoid being dropped. I understand taking this course and juggling life may be tough. I have provided you with the course calendar. However, if an unforeseen circumstance arises and you miss material, please contact me and let me know so that we can figure out a plan for you to get back on track with the calendar for this course. If you stop participating on Zoom with this course and don't inform me, I may drop you. You also have the option to drop this course yourself if you choose to stop participating on Zoom. April 17 is the last day to drop without a **W**, and May 28 is the last day to drop with a **W**. Please join me on Zoom on time. To be on time for every lecture is not only the goal but also a responsibility. Remember, I want to help you to do well in this course, and if you are not joining me on Zoom, I can't help you to understand the material in this course. Please check your email for the invitation to join the meeting on Zoom.

**Evaluation:** Grade will be determined on the basis of total points earned. The following scale will be used on these activities:

		<b>A</b>	325-350
Labs	20	<b>A-</b>	307-324
Problems	30	<b>B+</b>	289-306
Exams	200	<b>B</b>	275-288
Final	100	<b>C+</b>	262-274
		<b>C</b>	230-261
		<b>D</b>	213-229
		<b>F</b>	Below 213

**Student Learning Outcome(s):**

\*Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.

\*Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.

\*Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.