

Information Sheet for Introductory Statistics
MATH10.41 / CRN 27539

Fall 2024

Instructor: Teck Ky

Day and Time: Lecture T & Th 04:00 PM-06:15 PM

Room: MLC 207

Office Hours: Tuesday and Thursday from 06:16 PM to 07:00 PM in the same room

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

Labs: Will be given in the Mathlab

Calculator: I recommend that you buy CASIO-FX-991CW 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 Minitab and EXCEL programs with your assignments. Extensive EXCEL programs and the Minitab demonstrations will be done in lecture and lab. These programs are available in S42 or S44.

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 requires 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. You are expected to do all problems assigned. You may discuss homework problems with your classmates (it is encouraged!), but you must turn in your original work. Turn in all your homework problems

on the day you come to take the exam. Do not fall behind. Write on one side of the paper only. Staple multiple pages together. **No late homework will be accepted.**

Quizzes: Frequent quizzes on homework will be given at the end of the class period. There will be no make-up for missed quizzes.

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 **October 19** and **November 16**. The final exam will cover the entire course and will be given on **Thursday, December 12, from 04:00 PM to 06:00 PM.**

Attendance: Regular and punctual attendance is expected of each student. Please come to class on time. To be on time for every lecture is not a goal but also a responsibility. I am here to help you to do well in this course. But if you don't come to class, I cannot help you. I understand taking this course and juggling life may be tough. To help you manage your time, I have provided you with the course calendar for this quarter. However, if unforeseen circumstances arise 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 in 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. October 5 is the last day to drop without a W, and November 15 is the last day to drop with a W.

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

Homework	30	A	426-450
Labs	30	A-	400 -425
Quiz	40	B+	374-399
Exams	200	B	348-373
Final	150	B-	322 -347
		C+	297-321
		C	272-296
		D	247-271
		F	000-246

Hello all,

My name is Teck Ky, I will be your facilitator for this course for the next 12 weeks, and I would like to welcome you to De Anza College.

I am excited about the opportunity to get to know you, and I'm looking forward to a happy and productive winter quarter for MathD010.41.

Your Book

Here is the link to our statistics textbook:

https://www.ocf.berkeley.edu/~parran/Understanding_Uncertainty.pdf

I have been teaching this course *for* over 26 years. *Know that, for the most part*, those students *who* did not do well on exams did not get their book *until up to* one week *after the course started*. I do not want this to happen to you, so please download this book as soon as you can and start reading chapter one. Many problems in the exams will be chosen from the exercises in the book, in suggested problems and in worksheets.

Be aware that it is very hard to remember all the statements *made* during lectures. This *is* why we need *the* textbook: to *serve as a* backup to our *memory*.

The mathematics prerequisite for this course is a course in Intermediate Algebra. Many of the examples and problems presented in this course are intended to *stimulate* discussion of the fundamental statistical *concepts and* methods. Some of the problems provide you with a certain amount of “drill and practice”. Most are very much non-routine, statistics is a dynamic and fertile field of study, and statisticians with different backgrounds, experiences and orientations often disagree in the choice of methodology. Most importantly, statisticians may also disagree in the interpretation of results. This very much contradicts most students' experiences in previous mathematics courses. In this spirit, this course will provide ample opportunity for learning. After you *complete* this course, I hope you understand that uncertainty is everywhere, and this course will help you to make the right decision *as you move forward in your studies*.

Please email me with any questions, thoughts, or even concerns.

Let's enjoy life and learn statistics.

Teck Ky

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 evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

Office Hours:

T,TH 06:20 PM 07:00 AM In-Person MLC207