

Information Sheet for Introduction to Statistics

Fall 2026

STAT C1000-39/ CRN 28634

Instructor: Teck Ky

Day and Time: Lecture T & Th 04:00 PM-6:15 PM. Room: E31

Office Hours: Tuesday and Thursday from 3:15 PM to 3:55 PM Room: E31

Text: Understanding Uncertainty (Fourth Edition) is authored by **Frank P. Soler** and published by Associated Research Consultants. The Fourth Edition has ISBN **978-0974138756**.

Labs: Will be given in the classroom

Calculator: I recommend that you buy CASIO fx-300ES PLUS 2nd Edition for this course.

Topic: This course will cover selected topics 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 goal of our college is to enable students to reach their highest potential and achieve their educational aspirations. Today, statistical literacy is just as vital as reading and writing. This course will help you cultivate a critical perspective on statistical arguments and build an intuitive understanding that is often lost behind mathematical formulas. We will also leverage modern technology to analyze and simulate data. My role is to guide and support your learning, but active attendance is essential to your success.

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

Laboratory projects: You will have two computer lab assignments this quarter using Statdisk and Excel. Detailed demonstrations for both programs will be provided during lectures and lab sessions. You can access both Statdisk and Excel in labs S42 and 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 simply by watching during class or by having someone else solve problems for you. It is much like learning to play an instrument or a sport—becoming proficient requires consistent practice.

The problems in the textbook and those completed during class are your opportunities to practice. You are expected to maintain a steady level of effort and complete all assigned problems each day.

You are encouraged to discuss homework with your classmates, but all work you submit must be your own. Homework should be turned in on the day you come to take the exam.

Do not fall behind. Write on only one side of each page, and 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 scheduled for October 20 and November 24. A make-up exam will be allowed only under exceptional, justifiable circumstances, and you must be prepared to provide documentation to substantiate your request.

The final exam will cover the entire course and will be given on Thursday, December 10, from 4:00 PM to 6:00 PM.

Attendance: Regular and punctual attendance is expected of every student. Arriving on time for each lecture is more than just a goal—it is your responsibility. I am here to help you succeed in this course, but consistent attendance is essential for me to do so.

I understand that balancing coursework with daily life can be challenging. To assist with your time management, a complete course calendar is provided. However, if unforeseen circumstances arise and you miss class material, please reach out promptly so we can create a plan to get you back on track.

Please note: If you stop participating without notifying me, you may be dropped from the course. You may also choose to drop the course yourself. The last day to drop without a "W" is **October 2**, and the last day to drop with a "W" is **November 13**.

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

	Text: Statistics: Understanding Uncertainty, Fourth Edition		The following schedule is tentative, subject to change any time.
Week #	Topic	section	Problems
1	Uncertainty, Randomness & Data	1.1	2 & 4
	Uncertainty, Randomness & Data	1.3	2 to 10
	Uncertainty, Randomness & Data	1.4	1 to 10
	Data production and random sampling	1.5	3 & 4
	The how and why of designing statistical experiments	1.6	5 and 7a-7c only
	Mastery Problems for chapter 1		11
	How are data described?	2.2	1 & 4
	Describing the center of data	2.3	1, 2, 4, 6, 7, and 10
2	Describing the spread of the data	2.4	1, 6, 7, and 8
	Chapter 2 problems		3, 9, 12, 13 (a to d only), and 15
	Mastery Problems for chapter 2		1
	Sample spaces and probability models	3.2	1, 5, and 6
	Conditional probability	3.5	4, 6, 10
3	Chapter 3 problems		1 and 2
	Mastery Problems for chapter 3		1, 2, 4a, 4c, 4d
	Discrete probability distribution	4.1	2, 3, and 5'
	Expected Value	4.2	2, 3, 5, 6.
4	The binomial distribution	4.4	1, 2, 3, 4, 6, 17, 25
	The Poisson distribution and Review for exam1		Will be given in class.
	Mastery Problems for chapter 4		1a, 1b, 1c, 6a, 6b, 6c
5	Review and Exam1		Tuesday, October 20
	Uniform Dist.	5.3	4
	How to apply the Normal distribution	5.5	12, 18, 19, 20
	Mastery Problems for chapter 5		3(a to f only)
	The Central Limit Theorem & its applications	Ch. 6	5a, 5b, 5d, 6,
6	Test Yourself chapter 6		3 and 5
	Mastery Problems for chapter 6		2 (a to d only)
	Confidence Interval and find sample size	Chapter 7	1, 2, 3, 4, 6 (a-d only), 9, 14
7	Mastery Problems for chapter 7		2(a to e only),
	Confidence Interval with small sample size	9.2	1, 2, 6
	Confidence Interval for population standard deviation	9.5	2, 3, and 5a only
8	Hypothesis testing about a population mean when sigma is known	8.1	1, 2, 3, 6, 12
	Hypothesis testing about a population proportion and Type I and Type II errors	8.1	12
9	Mastery Problems for Chapter 8		3, 4 (a-d only), 6
	Hypothesis testing about a population mean when sigma is unknown	9.2	7
	Chapter 9 problems and Review for exam 2		7 and 9
10	Exam 2		Tuesday, November 24
	Comparing two population paremeters	10.3	2 and 3
	Mastery Problems for chapter 10		7 (a and c only)
	One-Way Analysis of Variance	11.3	3
	Test Yourself chapter 10		1, 2, 7, 8
11	Applications of the Chi-square distribution	11.1	1, 4, 5
	Applications of the Chi-square distribution	11.2	3, 4, 5, 6
	Simple Linear Regreesion Analysis	12.1	1, 2, 3
12	Review for final.		
	Final Examination		Thursday, December 10: 4:00 PM to 6:00 PM

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:

3:15 PM - 3:55 PM

E31 T,TH

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