STAT 5102   Spring 2019
THEORY OF STATISTICS II

University of Minnesota – Twin Cities

Instructor and TA Information

INSTRUCTOR:	Kean Ming Tan	TA:	Sarah Sernaker
EMAIL:	ktan@umn.edu	EMAIL:	serna022@umn.edu
OFFICE:	Ford Hall 357	OFFICE:	TBD
HOURS:	4:00-5:00pm F	HOURS:	TBD

Course Information

TIME: MWF 2:30pm–3:20pm

LOCATION: Anderson Hall 350

DESCRIPTION: This course will cover the properties of a wide range of statistical distributions. Then, we will cover parameter estimation such as the Bayes estimators and maximum likelihood estimators. Finally, we cover sampling distributions of the estimators and hypothesis testing problems. If time permits, we will also cover theory of linear models.

Course Materials

TEXTBOOK: Probability and Statistics, 4th Edition by Morris DeGroot and Mark Schervish

NOTES: Course Notes will be posted before class. I strongly recommend having a print out version of the notes during the lecture.

Grading

HOMEWORK: 30 points

MIDTERM I: 20 points

MIDTERM II: 20 points

FINAL: 30 points

A	B	C	D	F
90-100%	80-90%	70-80%	60-70%	<60%

Note: $+/-$ will be added as appropriate.

Homework

OVERVIEW: Completing homework is an important element in this class in order to learn the materials well. Generally speaking, there will be weekly homework assignments.

SUBMISSION: Homework are always due in the beginning of class on the due date.

POLICY: **The TA may pick several problems randomly to grade. Though, in principle, you should complete all questions. You may discuss the homework problems but you should write up the solution independently.**

Midterms and Final

OVERVIEW: The exams are in class and are closed book. You may bring one sheet of paper (size 8.5" × 11") with formulas or other notes on both sides.

POLICY: **There will be no make-up exam without a documented, legitimate reason that is outside of your control. Social conflicts or a heavy workload are unacceptable excuses.**

Miscellaneous

INTEGRITY: Students must abide by the campus regulations and student conduct code; see http://regents.umn.edu/policies/index

DISABILITY: Students with disabilities requiring accommodations should contact the instructor as soon as possible; see https://diversity.umn.edu/disability/.

STRESS: UMN provides services for you to help manage your mental health and stress levels; see http://www.mentalhealth.umn.edu.

CHANGES: The content and requirements of this course and syllabus may be altered depending on the instructor's perception of the needs of the class. *See the course website for the current version of the course syllabus and schedule.*

Academic Honesty and Dishonesty

The following definition of student academic integrity and scholastic dishonesty is slightly modified from the webpage of the University's Office for Student Conduct and Academic Integrity, http://www.oscai.umn.edu:

Scholastic dishonesty means plagiarizing; cheating on assignments or examinations; engaging in unauthorized collaboration on academic work; taking, acquiring, or using test materials

without faculty permission; submitting false or incomplete records of academic achievement; acting alone or in cooperation with another to falsify records or to obtain dishonestly grades, honors, awards, or professional endorsement; altering, forging, or misusing a University academic record; or fabricating or falsifying data, research procedures, or data analysis.

All School of Statistics teaching faculty are instructed to refer students who violate the policy for academic honesty and dishonesty to the Office of Student Conduct and Academic Integrity. A student responsible for scholastic dishonesty can in addition be assigned a penalty up to and including an F or N for the course.

Recommendation Letter Policy

As a general policy, the instructor *does not* write recommendation letters for any students who are currently enrolled in his course(s). Once you have completed the instructor's course (and your final grade is available), it is acceptable to ask for a recommendation letter.

However, it is best to obtain recommendation letters from faculty members that you have worked with outside of a classroom setting, e.g., as a research assistant. If you do not have any non-classroom interaction with the instructor and/or have not been an active participant in this course, the instructor will not be able to write you a strong recommendation letter.