

SYLLABUS: MATH-1230 1230 (SPRING 2019)

STATISTICS FOR SCIENTISTS AND ENGINEERS

Instructor: DUPRE, Maurice J. Email: mdupre@tulane.edu

Office: Gibson 309A Telephone: 504-862-3430

Office Hours: : W 3:30-5:30pm, and by appointment.

Lectures: Sections 02, 03, 05 meet at 11:00am in WOLDENBERG ART CENTER 205.

Textbook: Essentials of Probability and Statistics for Engineers and Scientists, by Walpole, Myers, Myers and Ye. Pearson Publishers.

LABS

Section 02: Lab meets at 2:00pm on Thursday in MA 200B

Teaching Assistant: YANG, shuo

Office: Gibson Hall 309

E-Mail: syang13@tulane.edu

Telephone: 862-3462

Office Hours: TBA

Section 03: Lab meets at 11:00am on Tuesday in GI 310

Teaching Assistant: SHARMA, Vaishavi

Office: Gibson Hall 313A

E-Mail: vsharma1@tulane.edu

Telephone: 862-3427

Office Hours: TBA

Section 05: Lab meets at 12:30pm on Thursday at MA 200B

Teaching Assistant : SKELTON, Joseph

Office: Gibson Hall 416J

E-Mail: jskelton@tulane.edu

Telephone: 862-3461

Office Hours: TBA

CALCULATORS are NOT ALLOWED for TESTS AND QUIZZES AND NOT ALLOWED ON THE FINAL EXAM.

Policy on Electronic Devices: Unless explicitly allowed by the instructor, **NO ELECTRONIC DEVICES** (such as cell phones, notebooks, calculators, etc.) are allowed to be out of backpacks or purses during **LECTURES, LABS, QUIZZES, and EXAMS**. These electronic devices must be packed away and turned off. Any student who is caught with one of these devices out will have his/her test taken and will be charged with the Honor Code violation of cheating. You should come to each class with a supply of unlined white printer or copy paper for taking notes and **SURPRISE QUIZZES which may happen at any time during ANY LECTURE or LAB.**

Homework will not be accepted late; there will be **no make-up quizzes and tests.** Some grades will be dropped when the course grade is computed.

Coverage:

Chapters 1-4, Chapter 5 (5.1-5.5, 5.8-5.12), Chapter 6, Chapter 7

MATERIAL COVERED IN LECTURES THAT IS NOT IN THE TEXTBOOK. You are responsible for knowing what I cover in the lectures as well as what is in your text book as this will be needed for tests and quizzes.

MAJOR TESTS AND FINAL EXAM

TEST I in LAB during the week beginning Monday 25 February 2018

TEST II in LAB during the week beginning Monday 8 April 2018

FINAL EXAM 8am – Noon MONDAY 6 MAY 2018 at a location to be announced during the last two weeks of class.

NOTE: this is a special time for all 1000 and 2000 level math courses and NOT the time for classes meeting MWF at the time of your lecture. The location will therefore likely not be your lecture room.

This also means that if you are taking another 1000 or 2000 level MATH course then you have a FINAL EXAM CONFLICT. See me during the last week of April to resolve this conflict. One of your exams will also be Monday 6 May 2018 from 1-5pm. THIS MEANS YOUR MAKEUP EXAM WILL BE THE AFTERNOON OF THE REGULAR MORNING EXAM.

Grading

Lab quizzes =20%

Tests = 50% (there will be 2 major tests given in lab)

Cumulative Final Exam=30%

The following Homework Problems from Chapters 1-7 in your textbook are to be studied and written out neatly and clearly. They will be used for studying for lab quizzes as directed by your lab instructor and your instructor. Some will be quiz problems for which you will be allowed to turn in your homework sheet(s) which contain that problem solution in place of having to work out the problem during the quiz. You must also be able to work simple problems with easy numbers without a calculator and these will be on lab quizzes and tests. You can also look at the document PRACTICE TEST PROBLEMS on your course webpage on my website some of which will be assigned as homework. Some of the problems on that document are to be worked with a TI-84 calculator but can also be worked with the statistical tables in your textbook and a scientific calculator.

Homework Problems for Study

Section	Problems
1.4	Page 18, #1, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14.
1.5	Page 24, #18, 19, 20, 21, 23, 24, 25, 26, 27, 29, 30, 32, 35, 36.
1.7	Page 31, #38, 39, 40, 41, 43, 44, 47, 48, 49, 50, 51, 52, 53.
1.8	Page 39, #57, 58, 59, 60, 61, 63, 64, 65, 68, 70.
2.3	Page 59, #1, 6, 7, 8, 12, 15, 19, 21.
2.5	Page 79, #50, 59, 63.
2.6	Page 88, #77, 81, 87, 88.
2.7	Page 94, #91, 92, 94, 96.
3.2	Page 108, #1, 2, 3, 4, 5, 6, 8.

3.3	Page 113, #22, 23, 28, 30.
3.5	Page 120, #34, 35, 38, 39, 41, 42, 43.
3.9	Page 135, #57, 58, 60, 61, 62, 63, 64, 65, 67, 68, 71.
3.10	Page 142, #77, 78.
3.11	Page 150, #93, 94.
4.2	Page 162, #2, 3, 5, 11.
4.4	Page 172, #16, 17, 19, 20, 21, 22, 24, 26.
4.8	Page 190, #28, 29, 30, 32, 35, 36, 37, 39, 42.
5.7	Page 212, #2, 3, 4, 5, 12.
5.9	Page 221, #25, 26, 27, 29, 32, 33.
5.11	Page 227, #39, 40, 41, 52, 53.
5.12	Page 230, #54, 55, 61.
6.3	Page 250, #1, 2, 3, 8, 9, 17.
6.6	Page 268, #19, 20, 21, 22, 23, 24, 29, 30, 31, 32, 35, 36, 39, 40, 41.
6.9	Page 276, #56, 57, 58, 59, 63, 64.
Chapter 7	TBA. This chapter should emphasize the interpretation of Statcrunch printouts.

The main formulas to know and understand to begin with are the first three pages of the document EXPECTATION FORMULAS on your course webpage on my website.

BASIC RULES to remember:

NO ELECTRONIC DEVICES DURING LECTURES OR LABS UNLESS EXPLICITLY ALLOWED.

NO CALCULATORS ON QUIZZES OR TESTS OR FINAL EXAMS.

You should be prepared to spend about an hour of study each night for this course. If you have any questions that are not answered in the lab or lecture, see me right after lecture or in my office GIBSON HALL 309A.

STUDENTS ARE REQUIRED TO KNOW THEIR SECTION NUMBER AND LAB DAY FOR ALL EXAMS AND QUIZZES. ON EACH SHEET TURNED IN FOR EXAMS, HOMEWORK, AND QUIZZES YOU SHOULD PRINT YOUR LAST NAME IN LARGE CAPITAL LETTERS IN THE UPPER RIGHT HAND CORNER, UNDERNEATH PRINT YOUR FIRST NAME IN LARGE CAPITAL LETTERS, UNDERNEATH PRINT YOUR COURSE NUMBER AND SECTION NUMBER AND UNDERNEATH THAT PRINT YOUR LAB DAY AND TIME.

NO ELECTRONIC DEVICES ARE ALLOWED IN LECTURES OR LABS.

CALCULATORS are specifically **NOT ALLOWED** ON TESTS & QUIZZES.

ATTENDANCE in all lectures and lab meetings is **MANDATORY**. **NO ELECTRONIC DEVICES** are permitted in lectures or in labs unless otherwise stated by the instructor. You should **have a supply of unlined plain white printer paper at all times during lectures and lab** for the purposes of taking notes, drawing diagrams, or **SURPRISE QUIZZES**, and you should **keep all your notes and worked homework problems available** to turn in if asked during either lectures or labs. At the end of each lab session **THERE WILL BE A QUIZ.**