

SYLLABUS: MATH-1230 1230 (Fall 2018)

STATISTICS FOR SCIENTISTS AND ENGINEERS

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

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

Office Hours: : W 3:30-6:30pm, 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 Gibson Hall 126

Teaching Assistant: BROOKS, Robyn

Office: Gibson Hall 313D

E-Mail: rbrooks3@tulane.edu

Telephone: 862-3427

Office Hours: TBA

Section 03: Lab meets at 11:00am on Tuesday in Ricardson 113A

Teaching Assistant: BROOKS, Robyn

Office: Gibson Hall 313D

E-Mail: rbrooks3@tulane.edu

Telephone: 862-3427

Office Hours: TBA

Section 05: Lab meets at 12:30pm on Thursday at Gibson Hall 414

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, electronic devices (such as cell phones, notebooks, calculators, etc.) are not allowed to be out of backpacks or purses during 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.

Homework will be submitted ONLINE in MYSTATLAB. Students MUST attend the lab section to which they are registered. 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. Also, some homework assignments will be dropped.

Coverage:

Chapters 1-4, Chapter 5 (5.1-5.5, 5.8-5.12), Chapter 6 (6.1-6.5), 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.

MAJOR TESTS AND FINAL EXAM

TEST I in LAB during the week beginning Monday 26 February 2018

TEST II in LAB during the week beginning Monday 16 April 2018

FINAL EXAM 8am – Noon MONDAY 7 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 7 May 2018 from 1-5pm.

Grading

Homework = 10%

Lab quizzes =10%

Test = 25% each (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 but not handed in. They will be used for studying for lab quizzes as directed by your lab instructor and your instructor. The homework assignments on MYSTATLAB will be the homework assignments for your homework grade. You will receive a CANVAS ANNOUNCEMENT when MYSTATLAB HOMEWORK is assigned. You may use scientific calculators to work homework problems for practice and on MYSTATLAB HOMEWORK. However, you must also be able to work simple problems with easy numbers without a calculator and these will be on lab quizzes. You can also look at the document MATH-1110 PRACTICE TEST PROBLEMS on the Math-1110 page on my website. 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. The answers to the practice test questions are also on the MATH-1110 page on my website.

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.
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 my website COURSE PAGE.