Syllabus for STA 5001 (subject to change)

<u>Date</u>		Topic(s)	Text reference
Jan.	4	Sampling and Descriptive Statistics	Ch. 1
0 0000	9	Sampling and Descriptive Statistics	Ch. 1
	11	Probability	Ch. 2
	16	Probability	Ch. 2
	18	Probability	Ch. 2
	23	Test #1 (Chapter 1-2)	
	25	Commonly Used Distributions	Ch. 4
	30	Commonly Used Distributions	Ch. 4
Feb.	1	Comm. Used Dists. & Confidence Intervals	Ch. 4 & Ch. 5
	6	Confidence Intervals	Ch. 5
	8	Confidence Intervals	Ch. 5
	13	Test #2 (Chapters 4-5)	
	15	Hypothesis Testing	Ch. 6
	27	Hypothesis Testing	Ch. 6
Mar.	1	Hypothesis Testing	Ch. 6
	6	Hypothesis Testing	Ch. 6
	8	Correlation & Simple Linear Regression	Ch. 7
	13	Correlation & Simple Linear Regression	Ch. 7
	15	Multiple Regression	Ch. 8
	20	Multiple Regression	Ch. 8
	22	Multiple Regression	Ch. 8
	27	Test #3 (Chapters 6-8)	
	29	Analysis of Variance	Ch. 9
Apr.	3	Multiple Comparisons	Ch. 9
	5	Two-way Analysis of Variance	Ch. 9
	10	Randomized Complete Block Designs	Ch. 9
	12	Factorial Experiments	Ch. 9
	17	Review	
	19	Final Exam, 7:00-10:00 PM	

Some Important Dates:

Jan. 17	Last day 100% tuition refund-full semester courses
	Last day late registration-full semester courses
	Last day to add a class
	Last day for "no grade" drop
Jan. 18	First day 0% tuition refund-full semester courses
	First day grade of "W" assigned for drops-full semester courses
Mar. 14	Last day official withdrawal—full semester classes
Apr. 17	Winter classes end 10:00 PM
Apr. 19	Final Exam, 7:00-10:00 PM

STATISTICAL METHODS IN RESEARCH AND PRODUCTION STA 5001-001 CRN 14169 Winter 2018

Dept. Phone: Office Room:	Tues., Thur., 5:30-7:17 PM 104 MSC mcdonald@oakland.edu 248-370-3449 248-370-3430 369 MSC Tues., Thur., 3:00-5:00 PM	
Textbook:	Statistics for Engineers and Scientists, 4th Edition By William Navidi 2015, McGraw-Hill (ISBN: 978-0-07-340133-1)	
Recommende	d: Statistics Handbook for the TI-83 Larry Morgan 1997 Texas Instruments, Inc. (ISBN: 1-886309-07-8) (or similar handbook for use with the TI-83 Plus calculator)	
Prerequisite:	Good command of high school algebra & basic understanding of calculus	
Workload:	You should be able to do well in this course if you attend class regularly and spend approximately 10 hours per week outside of class studying the material and working problems . Homework assignments are an important part of the learning process. You are encouraged to ask questions about exercises or lecture material you find difficult.	
Calculators:	You will need a calculator for homework and exams (e.g., TI-83 Plus, TI-83 Plus SE, TI-84 Plus, TI-84 Plus SE, TI-89, TI-89 Titanium).	
Computers:	We'll make extensive use of Minitab . Other computer software such as Excel , R , SAS could be used—we'll discuss.	
Exams:	There will be three in-class tests and a final exam. If the University is officially closed on a test day, the exam will be given the next class meeting. The tests and the final exam will be open book and limited open notes—to be discussed. There will be no makeup tests.	
Grading:	Tests are 100 points each; the final exam 150 points. Homework turn-ins expected from time-to-time (for a total of 120 points). So 570 points total for the course.	
Scale:	95%4.0; 80%3.0; 65%2.0; 50%1.0 $(y = (x-35)/15)$	