

Psyx 222 – Psychological Statistics

Spring 2019

Instructor Information

Instructor: Daniel J. Denis, Ph.D.
Office: 369 Skaggs Building
Office Hours: Mondays, 12-1, Wednesdays, 12-2.
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Course Information

Lectures: M, W, F, 11:00 – 11:50.
Location: Chemistry 123

Labs/Tutorials: Thursdays, 246 Skaggs Building
Times: Thursdays, 10:00 – 10:50, 11:00 – 11:50, 3:00 – 3:50, 4:00 – 4:50.

Teaching Assistant: Shailee Woodard
Office: 359 Skaggs
Office Hours: Mondays, 1-2pm.
E-mail: shailee.woodard@umconnect.umt.edu

Course Objective

The primary objective of this course is to provide the opportunity to acquire a working knowledge, overview, and understanding of statistical methods regularly used in psychological, social, and related sciences, and to some extent apply and interpret them in the context of empirical research.

Required Text

McClave, J. & Sincich, T. (2013). *Statistics* (12th edition). Pearson.

*** You may also use the 13th edition.

Evaluation

Final Grades will be based on the following:

Test 1: 10%

Test 2: 15%

Final Exam: 60%

Assignment Sets (3 submissions of completed work each @ 5%): 15%

Final Grade Determination (Maximizing your Grade)

*** If your grade on the final exam is better than Test 1 or Test 2 or both, your final exam grade will count for the corresponding test weight. The final exam is cumulative over the entire course. If you miss,

for whatever reason, Test 1 or Test 2, the relevant weight is automatically transferred to the final exam. **THERE ARE NO MAKE-UP TESTS IN THIS COURSE.**

Final Letter Grades will be assigned according to the “grade thermometer” below. Course grading is traditional (you CANNOT change your grade to pass/fail unless you have an exceptional reason).

% Points	Grade
100 – 90	A
89 – 80	A-
79 – 77	B+
76 – 73	B
72 – 70	B-
69 – 67	C+
66 – 63	C
62 – 60	C-
59 – 57	D+
56 – 53	D
52 – 50	D-
< 50	F

Evaluations and Assignments

All material discussed in the course is theoretically testable and can appear on tests and exams. However, what is emphasized and discussed in class has the greatest probability of appearing, and you should focus mostly on these concepts unpacked in class discussion and appearing on assignments leading up to evaluations. Tests 1 and 2, as well as the final exam, are multiple choice and short-answer. Assignment sets are to be submitted on the day of the given test or exam (in hard copy only) and are graded on a “credit vs. no credit” scale. **Late assignments will NOT be accepted.** Work that is overall complete, thorough, and well-prepared will receive full credit. Work that is incomplete, scattered, and not carefully prepared, or absent altogether, will not receive credit. You are strongly encouraged to attend weekly labs to review/edit your answers (learn from your mistakes as well), and submit assignment sets that are complete to ensure you receive credit for these easier points. Assignment sets are designed to help you prepare for evaluations, so it is in your best interest to prepare them carefully, revise/edit/improve upon them based on what you are learning in class and in lab. Use them as mini “study guides” to help prepare for evaluations. **Assignments will be posted via Moodle usually on Fridays, which will then be reviewed in lab the following week. Keep an ear out for announcements in class and/or be sure to check Moodle regularly for updated assignment postings. You must attend lab to learn of the correct solutions and approaches to problems, as they will not be posted to Moodle at any time, nor will class or TA notes be provided at any time. Attendance in the course is OPTIONAL, though you are strongly encouraged to attend all lectures and all labs.**

Course Policies and Guidelines

Policy on Missed Tests

A missed test will result in a grade of zero for that test. There are NO MAKE-UP TESTS for this course. You are encouraged to attend all evaluations as scheduled. If you miss any of the tests, the weight of that test is automatically transferred to the final exam.

Disability Modifications

The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and [Disability Services for Students](#). If you have a disability adversely affecting your academic performance, and you have not already registered with Disability Services, please contact Disability Services in Lommasson Center 154 or call 406.243.2243. We will work with you and Disability Services to provide an appropriate modification.

Academic Misconduct

You are expected to adhere to the university's [Student Conduct Code](#) with regard to academic integrity. All students must practice academic honesty. Academic misconduct in this course will not be tolerated and is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

Class Behavior

The expectations for this course are such that you remain respectfully silent while either the instructor is speaking or a colleague in the class is asking or responding to a question. In accordance with policies set by the University, **disruptions in class will not be tolerated**. This policy is set so that every student has the opportunity to learn in a quiet and constructive environment. A failure to meet this expectation will result in you being dismissed permanently from the class. This policy is extremely strict as to protect the rights of students who have invested time, money and energy into this course and deserve nothing less than an optimal learning environment. The instructor will make every effort to make sure you, the student, has an ideal learning environment. Please speak to the instructor privately if you are being disrupted in class.

Incompletes

Departmental and University policies regarding incompletes do not allow one to change "incomplete" grades after 1 year has passed since the "I" was granted.

Tentative Course Schedule

DATE	TOPIC	CHAPTERS McClave	Chapter Assignments	LABS Chapter
14 Jan. Mon 16 Jan. Wed. 18 Jan. Fri.	<i>Statistics, Data, and Statistical Thinking</i>	1	#1	Orientation
21 Jan. Mon. 23 Jan. Wed. 25 Jan. Fri.	<i>Martin L. King Jr. Day (NO CLASS)</i> <i>Methods for Describing Sets of Data</i>	2	#2	1
28 Jan. Mon. 30 Jan. Wed. 01 Feb. Fri.	<i>Probability</i>	3	#3	2

DATE	TOPIC	CHAPTERS McClave	Chapter Assignments	LABS Chapter
04 Feb. Mon. 06 Feb. Wed. 08 Feb. Fri.	<i>Discrete Random Variables</i>	4	#4	3
11 Feb. Mon. 13 Feb. Wed. 15 Feb. Fri.	<i>Continuous Random Variables</i>	5	#5	4
18 Feb. Mon. 20 Feb. Wed. 22 Feb. Fri.	Presidents' Day (NO CLASS) TEST 1 (10%) <i>Sampling Distributions</i>	6	Assign. Ch. 1-4 DUE (5%)	5
25 Feb. Mon. 27 Feb. Wed. 01 Mar. Fri.	<i>Inferences Based on a Single Sample (Confidence Intervals)</i>	6/7	#6/7	Test 1 Review
04 Mar. Mon. 06 Mar. Wed. 08 Mar. Fri.	<i>Inferences Based on a Single Sample (Tests of Hypothesis)</i>	8	#8	6/7
11 Mar. Mon. 13 Mar. Wed. 15 Mar. Fri.	<i>Inferences Based on Two Samples (Confidence Int. and Tests of Hyp)</i>	9	#9	8
18 Mar. Mon. 20 Mar. Wed. 22 Mar. Fri.	<i>Analysis of Variance: Comparing More than Two Means</i>	10	#10	9
25 Mar. Mon. 27 Mar. Wed. 29 Mar. Fri.	Spring Break (NO CLASS)	-	-	-
01 Apr. Mon 03 Apr. Wed. 05 Apr. Fri.	<i>Simple Linear Regression</i> TEST 2 (15%)	11	Assign. Ch. 5-10 DUE (5%)	10
08 Apr. Mon 10 Apr. Wed 12 Apr. Fri	<i>Simple Linear Regression (con't)</i>	11	#11	11
15 Apr. Mon 17 Apr. Wed 19 Apr. Fri	<i>Simple Linear Regression (con't) Categorical Data Analysis</i>	11/13	#11/13	11/13
22 Apr. Mon 24 Apr. Wed 26 Apr. Fri	<i>Overflow/Final Exam Preview</i>	TBA	-	Final Exam Prep
02 May. Thurs	FINAL EXAM (60%) (10:10 – 12:10)	ALL Course Material	Assign. Ch. 11-13 DUE (5%)	-