

University of Montana

## ScholarWorks at University of Montana

---

University of Montana Course Syllabi

Open Educational Resources (OER)

---

Spring 1-2016

### PSYX 222.01: Psychological Statistics

Daniel J. Denis

*University of Montana - Missoula*, [daniel.denis@umontana.edu](mailto:daniel.denis@umontana.edu)

Follow this and additional works at: <https://scholarworks.umt.edu/syllabi>

**Let us know how access to this document benefits you.**

---

#### Recommended Citation

Denis, Daniel J., "PSYX 222.01: Psychological Statistics" (2016). *University of Montana Course Syllabi*. 3969.

<https://scholarworks.umt.edu/syllabi/3969>

This Syllabus is brought to you for free and open access by the Open Educational Resources (OER) at ScholarWorks at University of Montana. It has been accepted for inclusion in University of Montana Course Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact [scholarworks@mso.umt.edu](mailto:scholarworks@mso.umt.edu).

# **Psyx 222 – Psychological Statistics**

**Spring 2016**

## **Instructor Information**

Instructor: Daniel J. Denis, Ph.D.

Office: 369 Skaggs Building

Office Hours: Mon, 12-1, Wed, 1-3.

Telephone: (406) 243-4539

E-mail: [daniel.denis@umontana.edu](mailto:daniel.denis@umontana.edu)

## **Course Information**

Lectures: M, W, F 11:10 – 12:00pm.

Location: Chemistry 123

Labs/Tutorials: Thursday, 246 Skaggs Building

Times: Thursdays, 10:10 – 11:00, 11:10 – 12:00, 3:10 – 4:00, 4:10 – 5:00.

Teaching Assistant: Meredith Ann Repke

Office: TBA.

Office Hours: TBA.

E-mail: [meredith.repke@umconnect.umt.edu](mailto:meredith.repke@umconnect.umt.edu)

## **Course Objective**

The primary objective of this course is to provide the opportunity for the student to acquire a working knowledge and understanding of statistical methods regularly used in psychological and social sciences.

## **Required Text**

Kirk, Roger E. (2007). Statistics: An Introduction. 5<sup>th</sup> ed. Thomson/Wadsworth.

Study Guide: Denis, D. (2007). Study Guide for Kirk, R. E. (2008). Statistics: An Introduction. Wadsworth (pdf)

## **Evaluation**

Final Grades will be based on the following:

Test 1: 10%

Test 2: 20%

Test 3: 20%

Final Exam: 50%

### Final Grade Determination (Maximizing your Grade)

\*\*\* If your grade on the final exam is better than any or all of Test 1 through Test 3, your final exam grade will count as your final grade. The final exam is cumulative over the entire course. If you miss, for whatever reason, Test 1 or Test 2 or Test 3, 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	Evaluation
100 – 90	A	EXCELLENT
89 – 80	A-	VERY GOOD
79 – 77	B+	GOOD
76 – 73	B	GOOD
72 – 70	B-	GOOD
69 – 67	C+	SATISFACTORY
66 – 63	C	SATISFACTORY
62 – 60	C-	POOR
59 – 57	D+	POOR
56 – 53	D	POOR
52 – 50	D-	POOR
< 50	F	VERY POOR

### Testable Material & Grading

Although any and all material covered in lecture is testable, tests will consist of problems similar in content to those in your text, specifically the assigned Review Exercises at the end of each chapter. Select questions from these exercises will be reviewed weekly during lab sessions. They will not be formally graded.

All tests and exams are graded using the same grading scheme. Unless there is an obvious and clear arithmetical error in the grading of your test or exam, grades will not be adjusted. Please be aware that tests are usually graded high. If you feel strongly that you would like your test re-graded, you must be prepared to subject it to a fair re-evaluation, which means your grade could increase or decrease from the original evaluation. In the event that you receive a lower grade than your original grade, you will not be allowed to keep your original grade.

### Check Your Understanding

Throughout your text, there are numerous sections titled “Check Your Understanding.” These questions are meant as an “aid” or “study guide” to ensure you have a good grasp of the material covered before moving on to new material. Although these questions will not be graded, nor will they usually be reviewed during class or lab, you are strongly encouraged to do them, as they will undoubtedly facilitate your mastery of the material.

## 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, have 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 (Except for Test and Exam Dates, Schedule May Change)

DATE	TOPIC	CHAPTERS KIRK	QUESTIONS KIRK	LABS KIRK
25 Jan. Mon. 27 Jan. Wed. 29 Jan. Fri.	Course Syllabus, Course Policies Introduction to Statistics	1	Ex. 1-17	NONE
01 Feb. Mon. 03 Feb. Wed. 05 Feb. Fri.	Frequency Distributions and Graphs	2	Ex. 1-8; 14-16; 21; 26; 30; 34; 35	1
08 Feb. Mon. 10 Feb. Wed. 12 Feb. Fri.	Measures of Central Tendency	3	Ex. 1-3; 5-7; 10; 11; 14-21	2

DATE	TOPIC	CHAPTERS KIRK	QUESTIONS KIRK	LABS KIRK
15 Feb. Mon. 17 Feb. Wed. 19 Feb. Fri.	President’s Day - NO CLASS Measures of Dispersion, Skewness, and Kurtosis	4	Ex. 1-7; 11-14; 18	3
22 Feb. Mon.	Measures of Dispersion, Skewness, and Kurtosis	4	Ex. 1-7; 11-14; 18	4
24 Feb. Wed.	TEST 1 (10%)	1, 2, 3	-	
26 Feb. Fri.	Correlation	5	Ex. 1-5; 11; 13; 15-18	
29 Feb. Mon. 02 Mar. Wed. 04 Mar. Fri.	Correlation (con’t)	5		Test 1 Review
07 Mar. Mon. 09 Mar. Wed. 11 Mar. Fri.	Regression	6	Ex. 1-8; 10-13	5
14 Mar. Mon. 16 Mar. Wed. 18 Mar. Fri.	Probability	7	Ex. 1-11	6
21 Mar. Mon.	TEST 2 (20%)	4, 5, 6	-	7
23 Mar. Wed. 25 Mar. Fri.	Random Variables and Probability Distributions	8	Ex. 1, 7, 8, 9-14	
28 Mar. Mon. 30 Mar. Wed. 01 Apr. Fri.	Normal Distribution & Sampling Distributions	9	Ex. 1, 2, 3, 5, 6, 7, 15, 16, 18	8
04 Apr. Mon. 06 Apr. Wed. 08 Apr. Fri.	Spring Break – NO CLASS	-	-	-
11 Apr. Mon. 13 Apr. Wed. 15 Apr. Fri.	Statistical Inference: One Sample	10	Ex. 1, 2, 3, 4, 6, 7, 8, 9	9
18 Apr. Mon.	TEST 3 (20%)	7, 8, 9	-	10
20 Apr. Wed. 22 Apr. Fri.	Statistical Inference: Two Samples	13	Ex. 4, 6, 9	
25 Apr. Mon. 27 Apr. Wed. 29 Apr. Fri.	Introduction to the Analysis of Variance	15	Ex. 10, 11	13
02 May. Mon 04 May. Wed. 06 May. Fri.	Statistical Inference for Frequency Data	17	None	15/17
13 May. Fri.	Final Exam (50%) (10:10 – 12:10)	All Course Material	-	-