

4000 Introductory Statistics
Course Syllabus
Fall 2009

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Office hours: Monday and Wednesday 10:30 – 11:30 and by appointment

Required Course Materials:

Spatz, C. Basic Statistics: Tales of Distribution. Belmont, CA: Wadsworth/Thomson Learning.

Additional Supplies

Calculator

Three ring notebook

**Bring your book, cookbook, and calculator to every class session!!

Course Description

Psychology 4000 is a course designed to provide you with an introduction to statistical methods in the behavioral and social sciences by teaching you how to think about statistical issues. Lectures will focus on techniques for describing behavior data and making inferences about them. After taking this course, you should be able to understand and apply many of the essential statistical concepts used by psychologists in basic and applied research. In addition, this course will prepare you for more advanced courses in statistics.

Prerequisite

The prerequisite for this course is PSY 1000 (General Psychology)

Student Responsibilities

My goal is to provide you with the best educational experience possible. However, it is up to you to take advantage of the instructional activities that are planned. Some of your responsibilities include:

- Attend all class and lab sessions
- Arrive on time
- Read all assignments on the schedule prior to class
- Allow sufficient time to prepare for class (6 to 9 hours per week outside of class)

Academic Integrity

All Villanova students, including those in this course, are expected to maintain the highest standards of academic integrity and to not tolerate any form of academic dishonesty or misconduct. All students should be familiar with and will be bound by the Academic Integrity and Plagiarism policy found in the Villanova University Handbook or the following website: <http://www.vpaa.villanova.edu/academicintegrity/>.

Disabilities

It is the policy of Villanova to make reasonable academic accommodations for qualified individuals with disabilities. If you are a person with a disability, please contact me after class or during office hours to make arrangements to register with the Learning Support Office by contacting 610-519-5636 or at nancy.mott@villanova.edu as soon as possible. Registration with the learning Support Office is required in order to receive accommodations.

Grading

	Points
Test #1	100
Test #2	100
Test #3	100
Cookbook	20

An incomplete (“N”) will only be granted in emergency situations, such as severe illness. However, you must get my approval ahead of time to receive an incomplete. Do not assume an incomplete will be granted automatically if you miss an exam. Leaving a message on my voice mail does not constitute permission.

Tests

Each test is split into two sections – one section is closed note and the other section is open note (closed book). This is why it is essential for you to create a statistical “cookbook”. There will be no make-up exams without a written excuse. All make-up exams must be completed during the departmental make-up time.

Cookbook

This term refers to step by step examples of how to compute each statistic. You are **required** to have a summary Cookbook page for every major topic covered and a separate page for each major statistical formula covered. All other class work, returned exams, and class projects must be kept in a three ring notebook. Your cookbook will be evaluated periodically in class and prior to the final exam.

- Up to –5 points for missing Detailed Tabs and Table of Contents
- Up to –10 points for lack of Neatness, Completeness and Accuracy

Course Modification

The schedule and procedures listed in this syllabus are subject to change in the event of extenuating circumstances.

Tentative Weekly Schedule of Lectures

	Class	Book Chapter
Aug. 24	Introduction to the class	1
Aug. 26	Frequency Distributions and Graphs	2
Aug 28- Sept. 2	Central Tendency and Variability	3
Sept 4	Other Descriptive Statistics	4
Sept 7	No Class	
Sept. 9 – 11	Other Descriptive Statistics (cont)	4
Sept. 14	Review	
Sept. 16	Test #1	
Sept. 18 – 25	Correlation and Regression	5
Sept. 28 – Oct 2	Theoretical Distributions	6
Oct 5-9	Samples and Confidence Intervals	7
Oct 12 – 16	No Class	
Oct 19	Review	
Oct. 21	Test #2	
Oct 23 – 30	Hypothesis Testing: One-Sample Designs	8
Nov. 2 – 6	Hypothesis Testing: Two Sample Designs	9
Nov 9 - 13	Analysis of Variance: One-Way Classification	10
Nov 16-23	Analysis of Variance: Repeated Measures / Factorial Design	11,12
Nov 25 – 27	No Class	
Nov 30 – Dec 4	Chi Square	13
Dec 7	Choosing Tests – Putting it all together!	
Dec. 9	Review	
Final Exam	Test #3	
