



Peru State College
MATH 340 Statistics
Syllabus - Fall 2011

Instructor: Dr. Paul Hinrichs
Office: Hoyt 214
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Text:

Title: Elementary Statistics
Author: Bluman
Publisher: McGraw Hill 978-0-07-3338610-2
Date: 8th Ed. © 2012

Student Requirements:

The text may be supplemented with readings from the literature. Students will need to have and learn to use a TI 83, TI 83plus, TI 84 or TI 84plus calculator. This calculator will also be used for classroom demonstrations. Students will also need to use Excel and other statistical software. Excel and SPSS are available in specific computer labs across campus.

Assessment Method:

Your percent grade will be computed by combining your exam grades, quiz grades, project grades and your final exam grade.

Either three unit exams (50% of final grade) or take the final exam (50% of final grade); Quizzes 30%, Project 20%

Exams: There will be 3 one-hour exams during the semester, each equally weighted.

There will be a comprehensive final. If you take the final exam that score will replace all previous exams. The unit exam average will be computed by calculating the mean of the exam scores.

Quizzes: Quizzes are unannounced and are given frequently during the semester. They will take about five to ten minutes to take and are usually worth 10 points. The lowest quiz grade for the semester is dropped. The average of those that remain will be your quiz grade.

Project: The project is part group and part individual and will be graded in that manner. The project is an application of statistical methods learned in the course.

Calculators: A statistical calculator (TI 83, TI 83plus, TI 84 or TI 84plus) is required for this class. You will be expected to use this calculator on tests and quizzes. You should to bring it to every class.

Course Description:

This course includes a study of the methods of summarizing and interpreting data, elementary probability, and its relation to distributions. The meanings, importance, and applications of the normal and binomial distributions as well as the methods of random sampling, testing of hypotheses, analysis of paired data, and interpretation of standardized test scores are covered.

Prerequisites:

There is no stated prerequisite, however, some prior college level mathematics would be helpful.

Objectives:

This course introduces some of the basic concepts and techniques of statistical inference. Its purpose is to develop an appreciation for, and some understanding of, the statistical approach to many types of problems faced by the administrator, the research worker, and other members of our society.

Instruction Method/Mode of Delivery:

Lecture/Discussion

Grading Policy: The following scale will be used for letter grades:

A:	92 – 100	C:	68 – 73.9
B+:	86 – 91.9	D+:	62 – 67.9
B:	80 – 85.9	D:	56 – 61.9
C+:	74 – 79.9	F:	Less than 56

Attendance Policy:

Students are expected to attend class regularly, to arrive punctually, and to complete all assigned work. Attendance is a privilege and a responsibility represented by not only the student's investment, but also by a significant investment by the State of Nebraska.

College's Incomplete Coursework Policy

To designate a student's work in a course as incomplete at the end of a term, the instructor records the incomplete grade (I). Students may receive this grade only when serious illness, hardship, death in the immediate family, or military service during the semester in which they are registered prevents them from completing course requirements. In addition, to receive an incomplete, a student must have completed substantially all of the course's major requirements.

Unless extenuating circumstances dictate otherwise, students must initiate requests for an incomplete by filling out an Incomplete Grade Completion Contract, which requires the signature of the student, instructor, and Dean. The Incomplete Grade Completion contract cites the reason(s) for the incomplete and details the specific obligations the student must meet to change the incomplete to a letter grade. The date by which the student agrees to complete required work must appear in the contract. The Dean, the instructor, and the student receive signed copies of the Incomplete Grade Completion Contract.

Even if the student does not attend Peru State College, all incomplete course work must be finished by the end of the subsequent semester. Unless the appropriate Dean approves an extension and if the student does not fulfill contract obligations in the allotted time, the incomplete grade automatically becomes an F.

College's Academic Integrity Policy

The College expects all students to conduct themselves in a manner that supports an honest assessment of student learning outcomes and the assignment of grades that appropriately reflect student performance. It is ultimately the student's responsibility to understand and comply with instructions regarding the completion of assignments,

exams, and other academic activities. At a minimum, students should assume that at each assessment opportunity they are expected to do their own original academic work and/or clearly acknowledge in an appropriate fashion the intellectual work of others, when such contributions are allowed. Students helping others to circumvent honest assessments of learning outcomes, or who fail to report instances of academic dishonesty, are also subject to the sanctions defined in this policy.

Instances of academic dishonesty may be discovered in a variety of ways. Faculty members who assign written work ordinarily check citations for accuracy, run data base and online checks, and/or may simply recognize familiar passages that are not cited. They may observe students in the act of cheating or may become aware of instances of cheating from the statements of others. All persons who observe or otherwise know about instances of cheating are expected to report such instances to the proper instructor or Dean.

In order to promote academic integrity, the College subscribes to an electronic service to review papers for the appropriate citations and originality. Key elements of submitted papers are stored electronically in a limited access database and thus become a permanent part of the material to which future submissions are compared. Submission of an application and continued enrollment signifies your permission for this use of your written work

Should an occurrence of academic misconduct occur, the faculty member may assign a failing grade for the assignment or a failing grade for the course. Each incident of academic misconduct should be reported to the Dean and the Vice President for Academic Affairs (VPAA). The VPAA may suspend students for two semesters found to be responsible for multiple instances of academic dishonesty. The reason for the suspension will be noted on the student's transcript.

A faculty member need present only basic evidence of academic dishonesty. There is no requirement for proof of intent. Students are responsible for understanding these tenets of academic honesty and integrity. Students may appeal penalties for academic dishonesty using the process established for grades appeals.

Title IX Compliance Notice

Peru State College is an equal opportunity institution. PSC does not discriminate against any student, employee or applicant on the basis of race, color, national origin, sex, disability, religion, or age in employment and education opportunities, including but not limited to admission decisions. The College has designated an individual to coordinate the College's nondiscrimination efforts to comply with regulations implementing Title VI, VII, IX, and Section 504. Inquiries regarding non-discrimination policies and practices may be directed to Eulanda Cade, Director of Human Resources, Title VI, VII, IX Compliance Coordinator, Peru State College, PO Box 10, Peru, NE 68421-0010, (402) 872-2230.

Students requesting reasonable accommodation and tutoring services should contact the Center for Achievement and Transition Services (CATS).

Changes to this Syllabus: The instructor reserves the right to modify any aspect of the course syllabus or content. Any modifications will be communicated to students in advance.

Tentative Schedule

	Topic	Reading Assignments/Activities
Week 1	Overview	Ch 1, Ch 2
Week 2	Descriptive Stats	Ch 2, Ch 3
Week 3	Descriptive Stats	Ch 3, Ch 4
Week 4	Probabilities	Ch 4, Ch 5
Week 5	Discrete Distributions	Exam 1, Ch 5
Week 6	Continuous Distributions	Ch 6
Week 7	Confidence Intervals	Ch 7
Week 8	Hypothesis Tests	Ch 8
Week 9	Mid-Term Break	No class
Week 10	Two-Sample tests	Ch 9, Exam 2
Week 11	Correlation Regression	Ch 9, Ch 10
Week 12	Chi-Square Tests	Ch 10, Ch 11
Week 13	ANOVA	Ch 11, Ch 12
Week 14		Ch 12, Ch 13
Week 15	Nonparametric Tests	Exam 3
Week 16		Projects Presented
Week 17	Final Exam MW 11:00 Class	May 3, 8:00-10:00
	Final Exam MW 12:30 Class	May 2, 1:00-3:00