

Linfield College Syllabus

Department: DCE

Course Number: MAT 130

Course Title: Introduction To Statistics/3

Credits: Three Credits

Instructor: M. Malek Daaboul

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Term/Section: Summer Semester 2008

Dates/Time: Monday (6:00pm – 9:30pm): 06/16/08 – 08/18/08

Location: Walker 220

Department Approval: _____

I. Course Description:

The purpose of this course is to present a first course in statistics appropriate for students in a wide variety of disciplines. A major objective of such a course is to acquaint the student with the basic ideas of descriptive and inferential statistics.

This includes:

Coverage of the nature of Statistics, sampling and design of experiments (Chapter 1),

Organizing & Describing Data & Measure of Central Tendency, Dispersion, and Position (Chapter 2),

Regression and Correlation (Chapter 3),

Probability (Chapter 4),

Probability Distributions For Discrete Random Variables (Chapter 5),

Probability Distributions For Continuous Random Variables; The Normal Distribution (Chapter 6), and

Statistical Inferences Concerning Means And Proportions (Chapter 7).

Inference Concerning Two Population Parameters (Chapter 8).

Concepts are introduced and reinforced with examples and exercises from a wide range of fields, from sports to medicine.

II. Prerequisites, Helpful Knowledge and skills:

The student should have a sound knowledge of College Intermediate Algebra (MAT 115) or equivalent.

III. Learning Objectives/Outcomes:

After completing this course the student should have the knowledge of the principles, concepts and applications of descriptive and inferential statistics. Many of these principles and concepts are applicable to solving problems in business and economics, life science, and social science as well as other aspects of the student's professional and personal life. Consequently, the student should expect the benefits of studying Statistics to serve him/her in those areas.

IV. Methodology:

The mode of delivery will be lectures, homework assignments, and three examinations. Class discussion of the subject matter concepts and interactive dialogue among students and the instructor is expected/encouraged to ensure clear understanding of statistical concepts and its applications to problem-solving, decision making in business and economics, life science, social science and other disciplines.

V. . COURSE POLICIES

Incompletes: A grade of Incomplete (I) is given only in emergency situations. The student must request an Incomplete in writing and must obtain my permission. All uncompleted work must be completed within the time limits I set. If you simply don't turn in the final assignments or the final exam, your course grade will be calculated with the missed portion counting for 0 points.

Academic honesty: Cheating and plagiarism will not be tolerated. Any student found to be engaging in either of these activities at any point in the course will receive a failing grade for the assignment and/or entire course and may be subject to further college sanctions.

Rules of Discussion: The classroom should be a safe haven within which individuals can discuss the widest possible range of topics without fearing retribution, ridicule, or attack. In order for this to happen, we must assume that we are all persons of intelligence and good will who may ultimately disagree, sometimes to a profound degree, with one another but whose characters are not impugned or intelligence disparaged because of this disagreement. The classroom is not a forum for proselytizing, nor it is a soapbox for diatribes by either students or faculty. For the academic endeavor to succeed, we must treat each other with civility, courtesy, and respect. All perspectives and questions are welcome, as long as they are impelled by a genuine desire for knowledge, can be articulated thoughtfully, and supported by sound reasoning.

Students with disabilities: Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the first week of the term.

VI. Resources:

Text: General Statistics Fourth Edition

By: Warren Chase & Fred Bown

ISBN: 0-471-28310 - X, John Wiley & Sons, INC.

VII. Evaluation & Grading:

The student's learning is evaluated continuously through class interactions, assignments, and three examinations. The course grade is based on the student performance on the three examinations and class participation.

Class participation:	10%
Exam 1:	30%
Exam 2:	30%
Exam 3:	30%

Grading scale:

How points and percentages equate to grades

100-95	A	76-73	C
94-90	A-	72-70	C-
89-87	B+	69-67	D+
86-83	B	66-63	D
82-80	B-	62-60	D-
79-77	C+	59 or <	F

VII. Course Outline:

Weeks 01-03:

1. Introduction Chapter 1
 2. Organizing and Describing Data Chapter 2
 3. Probability Chapter 4
- EXAM I (60 minutes, 100 points), Chapters 1, 2, & 4, 30% of grade.

Week 04-05:

4. Probability Distributions for Discrete Random Variables Chapter 5
 5. Probability Distribution for Continuous Random Variables Chapter 6
- EXAM II (60 minutes, 100 points), Chapters 5 & 6, 30% of grade.

Weeks 06-09:

6. Statistical Inference Concerning Means and Proportions Chapter 7
 7. Inference Concerning Two Population Parameters Chapter 8
 8. Regression and Correlation Chapter 3
- EXAM III (60 minutes, 100 points), Chapters 7, 8 & 3, 30% of grade.