

Syllabus/MA 123-001/Statistics /Fall 2009

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Class Time: MW 2:00-3:15 pm
Parkinson Hall 122

Office Hours: MTWR 1:00 - 2:00 pm, T 11:00 -12:00 pm
or, by appointment

I should always be the first person you come to with your questions. You can also contact Academic Support Services to set up a tutoring time with a mathematics tutor at no charge to you.

Textbook and MyStatLab Student Access Code: Elementary Statistics (7th Edition) by Neil A. Weiss; Pearson Addison-Wesley. You need Student Access Code to register in MyStatLab. See page 5 for details.

Calculator: A calculator is needed in this course. Cell phones and personal digital assistants (PDAs) may **not** be used for in-class assessments in this class. A TI-83 plus calculator will be used in class. Your calculator should come to class with you every day. I will bring a classroom set of calculators to be used only on the test days. These calculators will be not checked out.

Prerequisite: None. A basic knowledge of College Algebra is useful.

Nature of Course Content: Organizing Data, Descriptive Measures, Probability, Discrete Random Variables, Normal Distribution, Sample Distribution of Sample Mean, Confidence Intervals, Hypothesis Tests, Regression and Correlation, Chi Square Procedures

Students with Disabilities: It is the responsibility of students who have professionally diagnosed disabilities to notify the instructor so that necessary and appropriate modifications can be made to meet any special learning needs.

Homework/Quizzes/Minitab Labs: Homework and quizzes will be assigned on the MyStatLab site and graded by the work submitted in a timely fashion. ***Please get your MyStatLab account set up immediately.*** The system itself will not allow you to submit your work after a deadline. It is ***your responsibility*** to set up an active MyStatLab account and familiarize with this system. Minitab lab assignments will be posted on WebCT. It is also ***your responsibility*** to check deadlines for these assignments and make sure your work is submitted in timely fashion. ***Late submission of all these assignments will NOT be accepted regardless of any reasons.***

Desired Student Goals and Outcomes: After successful completion of the course, the student should be able to:

1. distinguish between descriptive and inferential statistics;
2. understand and distinguish between sample and population;
3. understand and describe basic sampling methods;
4. use and create charts, tables, diagrams, and graphs summarizing information;
5. understand and calculate the descriptive summary statistics;

6. understand and apply basic probability concepts and rules;
7. understand and apply the z-scores and the standard normal distribution;
8. understand and use the sampling distribution of the sample means;
9. use Central Limit Theorem;
10. understand and calculate confidence intervals for means;
11. understand and apply hypothesis tests for means (z-test, t-test);
12. understand and perform chi-square goodness-of-fit test and Chi-square independence test;
13. understand and calculate regression lines and correlation coefficients; and
14. use the computer software Minitab for describing and analyzing data.

Requirements of the Course/Method of Evaluation/Makeup Policy:

The student is expected to:

1. attend and participate in at least 70% of all class meetings (you may miss at most **8** days);
2. read the text and other course materials;
3. complete daily homework assignments, and occasional quizzes and Minitab labs;
4. submit all assignments when due or receive no credit; and
5. take and pass the following tentatively scheduled tests as well as the comprehensive final exam.

The following table shows the distribution of points for the final grade.

Test 1	Monday, September 14	15%
Test 2	Wednesday, October 21	15%
Test 3	Wednesday, November 18	15%
Homework/Quizzes (online) Approx. (25+6)		15%+5% =20%
Minitab Lab (Three Assignments)		10%
Comprehensive Final Exam	Tuesday, December 1, 3:00-6:00 pm	25%

Homework, quizzes and Minitab labs will never be accepted late even if you missed a lecture for these assignments. Five homework assignments and one quiz will be dropped. Tests and Final Exam are closed book, closed notes; calculators will be allowed. There will be **no makeup tests** under any circumstances (excused or unexcused). A missed test bears the score of a zero. The final exam percentage will replace the lowest of the three test scores if it helps your average. Only one test score can be replaced by your final exam percentage. **There will be no makeup for Final Exam. Under no circumstances will Final Exam be given on an earlier date.** Work hard to achieve and maintain the grade you want out of the course through the regular homework assignments, labs, tests, and the final exam.

Minitab lab assignments need to be neat and well organized work with clear and concise explanation of what the results mean. The work must be stapled before you turn in. Just the graphs or the plain numbers coming out of the software will not be given full credit. The submitted work on these assignments must be your own individual effort. You are allowed to collaborate only for better understanding of the methodology to be performed on the assignments.

Grading Scale:

A = 90% and above
 B = 80-89.9%
 C = 70-79.9%
 D = 60-69.9%
 F = Below 60%

Topics in the Order They Will be Covered as Time Permits:

Weeks 1-2	Chapter 1 Chapter 2	The Nature of Statistics; Sections 1.1, 1.2, 1.3 Organizing Data; Sections 2.1, 2.2, 2.3, 2.4, 2.5
Weeks 3-4	Chapter 3	Descriptive Measures; Sections 3.1, 3.2, 3.3, 3.4
Weeks 4- 6	Chapter 5	Probability and Random Variables; Sections 5.1, 5.5, 5.3, 5.4, 5.5, 5.6
Weeks 6-7	Chapter 6	Normal Distribution; Sections 6.1, 6.2, 6.3
Week 8	Chapter 7	The Sampling Distribution of the Sample Mean; Sections 7.1, 7.2, 7.3
Weeks 9-11	Chapter 8	Confidence Intervals for One Population Mean Sections 8.1; 8.2; 8.3, 8.4
Weeks 11-13	Chapter 9	Hypothesis Tests for One Population Mean Sections 9.1, 9.2, 9.3, 9.4, 9.5
Weeks 13-14	Chapter 12	Chi-square Procedures Sections 12.1, 12.2, 12.3, 12.4
Week 15	Chapter 4	Descriptive Methods in Regression and Correlation; Sections 4.2, 4.4

Attendance Policy: Students must attend at least 70% of the classes in a Department of Sciences and Mathematics course. This means you may have a maximum of **8** absences, and if more classes than that are missed, the grade given must be an F, regardless of the quality of the student's work.

Academic Dishonesty: *All of your graded work outside of class should be your own effort and no one else's.* The Academic Dishonesty section under Academic Information in the MUW Student Handbook clearly defines cheating and plagiarism. You will be held to the Academic Standards described under Student Rights and Responsibilities.

Early Alert Program: As one part of the academic early-alert program, students who perform poorly at midterm (falling below a midterm semester GPA of 2.0) will have holds placed on their accounts. The early-alert holds for poor midterm performance serve not as a punitive measure, but rather as an opportunity for students to seek the advice of their faculty advisors at a crucial moment in the semester. Students who have early-alert holds on their accounts for poor midterm performance should schedule meetings with their faculty advisors, who will work with the students to draw up action plans for academic success. Once those plans are in place, the early-alert holds for poor midterm performance will be released.

The instructor of the course reserves the right to make changes on the syllabus if it is absolutely necessary to accommodate unexpected circumstances. In this case, you will be notified of any changes that should take place.

Important Dates:

August 18 Last day to enter classes for credit and change from grade to pass-fail
September 16 Last day to drop without WP or WF or change from credit to audit
October 14 Last day a course may be dropped
November 6 Last day to withdraw from the university



Student Registration for MyStatLab MA 123-001 MW 2:00 Fall 2009

MyStatLab is an interactive website where you can:

- Take tests or do homework assigned by your instructor
- Self-test, work practice problems, and get tutorial help to improve your skills
- View videos for further understanding
- Explore interactive animations in the Multimedia Textbook
- Use customized materials prepared by your instructor

What do you need to get started?

<input checked="" type="checkbox"/>	A Valid Email Address	<i>Don't have it yet?</i> Contact your school's technology center, or set up an e-mail account through a free service such as Hotmail or Yahoo.
<input checked="" type="checkbox"/>	Course ID	<i>The Course ID for your section is:</i> adhikari37175
<input checked="" type="checkbox"/>	Student Access Code	Your new textbook for the course has been packaged with a free Student Access Kit for MyStatLab. To register for MyStatLab, open your access kit to obtain your Student Access Code.

What steps do you take next?

- 1) Go to <http://www.coursecompass.com/> and click on Student: Register.
- 2) Follow the on-screen instructions to enter your student access code and Course ID, provide contact information, and create your own unique login name and password.
- 3) **IMPORTANT!!!:** Install required plug-ins on EVERY computer from which you plan to access MyStatLab. The plug-ins you will need to install can be found at <http://www.mathxl.com/info/wizard.aspx?bookCode=estat7w&mml=yes> or from the link for the "Installation Wizard" on your announcements page when you log in to your course.
- 4) After you've registered, Log In with your new login name and password at <http://www.coursecompass.com/> (bookmark this URL).

If you need Technical Support, please visit
http://www.coursecompass.com/html/student_support.html.
For Customer service, call 1-800-848-9500