

**Statistics 200-020 ~ Eight Week Term 2002**  
**Statistics: A Force on Human Judgment**

**Instructor:** Heather M. Bush

**Lectures:** MTWRF 9:10 – 10:10 CB346

**Text Book:**  
*Statistics – Concepts and Controversies*, 5<sup>th</sup> Ed. David Moore

[Schedule of Topics](#)

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**Learning Objectives:**

Upon successful completion of this course, a student will be able to intelligently articulate the role of statistical science in the world around us. He or she will be able to discuss the concepts and complications associated with sampling variability, confidence statements, experimental design, measurements and plots, averages and spreads, normal distributions, and regression.

**Method of Evaluation:**

**Activities (25%):** Activities will be based on material covered during lectures. Only students with *documented* excused absence will be permitted to make-up activities.

**Quizzes (10%):** Quizzes will be given during lectures. Their primary purpose is to insure class attendance, prevent tardiness, and facilitate the retention of main ideas covered in lecture. Thus, late quizzes or make-ups for unexcused absences will not be accepted. Only students with *documented* excused absences will be permitted to make-up quizzes.

**Statistics in Media Project (25%):** This project will be completed in pairs. Students will be responsible for presenting an example of statistics in the media during class. If students are not presenting, they will be responsible for taking notes on other students' presentations. A summary paper of the presentations will be due on the Monday after the presentations ([See handout for additional information](#)).

**Exams (40%):** Exams will consist of material from lecture, discussion labs, and text. Exams are weighted equally.

**Exam I:** Chapters 1 – 4      *Tentative Date: June 19*

**Exam II:** Chapters 5 – 9      *Tentative Date: July 3*

**Exam III:** Chapters 10 – 13      *Tentative Date: July 16*

**Exam IV:** Chapters 21 -25,14,15      *August 1, 2002 9:10AM*

**Make-up exams:** Students who have a valid reason for missing an exam may take a make-up. The instructor must be notified as soon as possible and documentation will be required. Make-up exams will be scheduled at a time that is mutually convenient for the student and instructor but will not exceed one week past the original exam date.

**Grading Scale :**

100 – 90 = A
89 – 80 = B
79 – 70 = C
69 – 60 = D
59 – 0 = E

**Policies:**

**Attendance Policy:** The course is designed so that students should be successful with *active participation* and regular, punctual attendance. It is understandable that students may miss class; however, it is the student's responsibility to determine what activities were missed and what material was covered. A student will only be allowed make-up work if the absence is excused. Also, students missing more than 20% of the class periods (excused or unexcused) will receive an E for the course.

**Make-up Work:** Only students with documented excused absences will be allowed to make-up work and examinations. Excused absences are defined as follows:

1. *Illness of the student or serious illness of a member of the student's immediate family.*
2. *The death of a member of the student's immediate family.*
3. *Trips for members of student organizations sponsored by an academic unit, trips for University classes, and trips for participation in intercollegiate athletic events.*
4. *Major Religious Holidays.*
5. *Any circumstance which the instructor finds a reasonable cause for non-attendance.*

It is the student's responsibility to make arrangements for determining and handing in missed work, preferably in advance, but no later than one week afterwards.

**Academic Integrity:** Academic integrity is expected from all students. A violation of academic integrity involves any communication of information, verbal or nonverbal, during tests or quizzes, or sharing of homework. Students are reminded that possible University penalties for such violations are an "E" for the course, suspension, and dismissal.

# Statistics in Media Project Grading Criteria

## **Presentation (10%):**

Students are expected to find articles in newspapers, magazines, on the internet, etc... These articles will pertain to the ideas and concepts discussed in class the previous week. It is important that students prepare for the presentation in advance. I will be available to assist in presentation aids, help in understanding the articles, etc... Students will be graded on the following:

1. Ability to communicate statistical ideas to classmates:
  - a. The presenter must use statistical terms correctly and be able to define and explain how the week's concepts apply to his/her article
  - b. Preparation of material
  - c. The presenter must stay within the specified time limit (The actual presentation must be at least 10 minutes with 10 minutes left for class discussion). This includes providing and managing questions and class discussion
2. Relevancy of article:

The article must pertain to the week's discussion. In addition, the presentation must focus on statistical concepts. Students are encouraged to choose articles that he or she finds interesting, however, the overall presentation must focus on the statistical concepts of the article.

## **Summary Papers (15%):**

This provides each student the opportunity to formulate his or her opinions and ideas about the material discussed during Friday's class. The paper should include:

- ? Summary of class discussion
  - ? Opinion on the statistical concepts presented/used in the article. Notice that this is not a critique of the presentation or an analysis of the presenter's skills. This is an opportunity for each student to evaluate and provide additional insight on statistical concepts presented in the article.
- Each paper will be worth 20 points with equal weight being given to summary and opinion.

A final summary paper will also be required. It will be due on July 31. It will be worth 20 points. It will need to include:

- ? (5 points) Summary of all of the articles presented in class. You should be able to look back on past articles with a more informed viewpoint by the end of the course.
- ? (5 points) Overall statistical concepts that reappeared in the articles. Uses and misuses of statistics that appeared often should be discussed.
- ? (10 points) Reflection. You should use the articles as a guide to what was studied in the course. This will enable students to see the progression of statistical concepts. You should also include why you think the study of statistics is important and how you plan to use statistics in the future.

\* Papers that are not considered readable by the instructor will not be graded.