

SYLLABUS

MATHEMATICS 115.59399

Statistical Reasoning

Fall 2004

TR 11:10-12:25, Ayres 329

| | |
|---------------|----------------------|
| Instructor: | George Butler |
| Office: | Ayres 107F |
| Email: | gbutler@math.utk.edu |
| Office Hours: | TBA |

Course Description: An introduction to probability and statistics without calculus. Topics covered include descriptive statistics, probability laws for discrete and continuous distributions, and inferential statistics including correlation and regression. Not available for credit to students in the College of Business Administration.

Prereq: 2 years of algebra and one year of geometry and either satisfactory placement test scores or Mathematics 100.

Textbook: **Essentials of Statistics**, by Mario F. Triola. **A Graphing Calculator is required.** The TI-83 or TI-83 plus is highly recommended. The math department provides support for the TI-83.

Homework/Labs: I will assign homework at the end of each lecture and collect homework ten times during the semester at the start of class. I will always tell you the homework collection dates at least one week in advance. The assigned problems will be taken from the departmental syllabus (see reverse or <http://www.math.utk.edu/~hagop/m115/115DEPT/115TRSyllabusFall104.pdf>). There will be five labs using Microsoft Excel to apply what you have learned in class to real-world data sets. The lab handouts can be found at <http://www.math.utk.edu/~ksmith/m115/> using the username/password **math115/statlabs**. Labs should be submitted using email, although floppies are also acceptable if you do not have access to email for some reason.

| Grading scale: | | Grade composition: | |
|----------------|----|--|-----|
| 720-800 | A | Three exam grades (100 pts each) | 300 |
| 696-719 | B+ | Comprehensive final | 200 |
| 640-695 | B | Ten homework assignments (15 pts each) | 150 |
| 616-639 | C+ | Five labs (30 pts each) | 150 |
| 560-615 | C | Total | 800 |
| 480-559 | D | | |
| 0-479 | F | | |

Attendance Policy: Attendance is highly recommended. Everyone is allowed one free makeup exam. For any additional makeup exams, I will need to see a doctor's note or obituary notice. I will try to schedule my office hours at times that are convenient for everyone; please try to arrange for makeup exams during my office hours.

Disability Accommodations: Students who have a disability that require accommodation(s) should make an appointment with the Office of Disability Services (974-6087) to discuss their specific needs as well as schedule an appointment with me during my office hours.

Academic Standards of Conduct (from "Hilltopics: Student Handbook," 2003-2004): All students are expected to abide by the University Honor Statement. In mathematics classes, violations of the honor statement include copying another person's work on any graded assignment or test, collaborating on a graded assignment without the instructor's approval, using unauthorized "cheat sheets" or technical devices such as calculators, cell phones or computers for graded tests or assignments, or other infractions listed in "Hilltopics". These violations are serious offenses, subject to disciplinary action that may include failure in a course and/or dismissal from the University. The instructor has full authority to suspend a student from his/her class, to assign an "F" in an exercise or examination, or to assign an "F" in the course. The instructor shall give written notification (countersigned by the department head) of the penalty and the route of appeal to the student. Students who contest the penalty should first appeal to the instructor, then the Head of the Mathematics Department. If the student is unable to resolve the penalty with the instructor and department head, he/she may appeal to the Academic Review Board within 7 calendar days of receiving written notice of the penalty. See "Hilltopics" for more complete information.