Preliminary Version

STT 315 Spring 2005

Lecture 2 (all even sections) 12:40-2:00 p.m., MW, 102 CONRAD
Lecture 1 (all odd sections) 3:00-4:20 p.m., MW, 102 CONRAD
lecture 2 meets earlier!

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Course website: www.stt.msu.edu/~rdl. Click on STT 315 Spring 2005.

This syllabus may be revised. You are also enrolled in one of 22 recitation sections that meet 50 minutes on Thursdays. Work you do in recitations will be an important part of your grade.

Help room in C100: Hours for the help room will be posted on the course website and also posted outside C100 Wells Hall.

I.D.: Each student of 315 is required to have their valid MSU student I.D. with them for all lectures and examinations. Be sure to update or replace your I.D. as needed. You will not be able to take or submit examinations without your I.D. and you may have points deducted from your course total if you are called upon in lecture and do not have it on your person.

Assigned seating: You will have assigned seating for lectures of this course and your exams will follow that assigned seating. There will be no exceptions.

Attendance: Attendance is required for all lectures and recitations but will not be scanned. Your attendance may figure in your course grade since any student may be called upon in lecture or recitation and may be awarded points as the instructor sees fit. If a student is called upon but is not present or chooses not to participate points will be withdrawn as the instructor sees fit.

Lecture 2, beginning at 12:40, is attended by all students enrolled in even recitation sections. Lecture 1, beginning at 3:00, is attended by all students enrolled in odd sections.

Textbook: Complete Business Statistics, Fifth Edition, by Amir D. Aczel and Jayavel Sounderpandian, McGraw-Hill 2002. This is also the required textbook for MSM 317. We will not use the CD-ROM or Excel. Some students find them helpful so look them over.

Exercises: We use exercises from the text and also some designed by your instructor. They will be posted on the class website.

Key dates:

January 10, Monday, first class; late enrollment fee begins.
January 14, Friday, last day to change from CR/NCR or visitor; close of open adds.

January 17, Monday, Martin Luther King Day, class will not meet.
February 2, Wednesday, Exam 1, see below.
February 4, Friday, end of tuition refund period.

February 28, Monday, Exam 2, see below.
March 2, Wednesday, mid-semester, last day to withdraw or drop course with NG reported; close of online drops for Spring (8 p.m.).

**March 7 through 11, Spring break, class will not meet.**
April 1, Friday, last day to withdraw (it really is).

**April 13, Wednesday, Exam 3, see below.**
April 25, Monday, review.
April 27, Wednesday, review, last STT 315 lecture.
April 28, Thursday, last STT 315 recitation.

**May 4, Wednesday, Lec. 1 Final Exam, 3-5 p.m., 102 CONRAD. (Lec. 1 meets later!).**
**May 4, Wednesday, Lec. 2 Final Exam, 12:45-2:45 p.m., 102 CONRAD.**

**STT 315 Exams:** All exams, including the final, are in 102 CONRAD. Calculators but not computers are allowed for exams. Bring a backup calculator and pencils as none are provided. Notes, papers, or books are not allowed. Some formulas will be given on exams and these will be announced in advance. **Cell phones must be stored and inaccessible before you enter the exam room.** No headphones may be used. Calculators may not be passed (shared). No student of 315 may enter the room during an exam, or leave the exam room during an exam, unless they are taking the exam being given and have the permission of the instructor to do so. Students may earn 0.0 for the course, or points may be withdrawn, at the discretion of the instructor, for violations of this policy.

- Exam 1, Wednesday, February 2 (pp. 001-136 except as noted AND lecture material).
- Exam 2, Monday, February 28 (pp. 137-281 except as noted AND lecture material).
- Exam 3, Wednesday, April 13 (pp. 282-370 except as noted AND lecture material).
- Final Exam Lecture 1: Wednesday, May 4, 3-5 p.m., 102 CONRAD.
- Final Exam Lecture 2: Wednesday, May 4, 12:45-2:45 p.m., 102 CONRAD.

**Prerequisites:** Calculations for homework and exams primarily use arithmetic. Facility with fractions and simple calculations is important. A basic calculator with power, root, exponential and logarithm is needed. Bring a backup calculator to exams! Formulas are interpreted in the context of mathematical notation. Operations are executed from “the inside out.” For example

- \( 3x - 7 \) means to multiply \( x \) by 3 and deduct 7 from the result (multiplication priority);
- \( 3(x - 7) \) means deduct 7 from \( x \) and multiply the result by 3 or (giving the same result) multiply \( x \) and 7 each by 3 then take the difference (associative law);
- \( 3 \times \frac{1}{7} \) means multiply \( x \) by 3 then divide by 7 or (giving the same result) divide \( x \) by 7 then multiply by 3 (associative law);
- \( \frac{1}{3} / 7 = \frac{7}{3} \) (reciprocals of reciprocals).
- In statistics we often “average the squares of the incomes” which means to first square every income (i.e. multiply income by itself) then average these squares. The result of this operation will in general be larger than “square the average of incomes.”

If such examples are the slightest bother to you be sure to prepare yourself by doing a lot of standard calculations to hone your skills before STT 315 gets very far along.

**Participation in lectures:** As a student of STT 315, it is part of your responsibility to ask for clarification when you need it. Don’t wait to see if something clears up by itself. In a large lecture this may be hard for you to do (at least at first) because you may feel that it will be difficult to get your question across (often it will be) or you may feel it will bother other students or make you look bad (it can). Those considerations are not important. After all, with
300 people there are dozens who are a bit shaky or suffer inattention on any given point. You might just be the one who helps focus the attentions of your classmates and kick-starts the lecture. If everyone steps up to this shared responsibility, the resulting give and take will help keep the class lively and give each of you an idea of how your classmates are thinking.

**Your involvement with learning:** There are parallels between exercise and learning. Modest amounts applied consistently seem to work well. Read, talk things over with someone, particularly within a few hours of the end of class. Work a few problems to keep your hand in. Think about trying to apply what you currently are studying to a real problem in your life. Like a little exercise, these tell your body what to do. It becomes an easy habit. Work with your TA and classmates to prepare a backup for when you get stuck. No need for loose ends.

**Course Plan:** This plan is subject to minor adjustments depending upon unforeseen circumstances. In particular, extra material may be added or material may be deleted as the instructor sees fit. The course material is covered at an average of 16 pages of text per lecture. Do not be mislead by this, after all you are expected to develop problem-solving skills and that takes time beyond what the readings may suggest.

No makeup exams will be given. With prior approval points may be shifted to a future exam at the discretion of the instructor.

**Grading:** The following scale is intended as a guide. It may be revised in the case of broken questions or other unforeseen circumstances. You will be kept informed of any changes.

Exam 1 = 25 points  Exam 2 = 25 points  Exam 3 = 25 points  
Final Exam = 35 points  Graded recitation work = 40 points  
Being called upon in lecture changes your point total at the discretion of the instructor.

Nominal Course Total = 150.

134 or above = 4.0  [127, 134) = 3.5  [120, 134) = 3.0  
[112, 120) = 2.5  [105, 112) = 2.0  [97, 105) = 1.5  
[90, 97) = 1.0  below 90 = 0.0