STT 315 Second Summer Session 2006   **Syllabus Version 5-15-06**
ATTENDANCE IS REQUIRED AT ALL OF EVERY LECTURE
THERE WILL BE A 15 MINUTE BREAK IN EACH LECTURE
            STT 315 SECTION 201, 10:20a-12:10p, MWF, C215 Wells Hall
            STT 315 SECTION 202, 12:40p-02:30p, MWF, C215 Wells Hall

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Course website: www.stt.msu.edu/~rdl. Click on STT 315-201/202 Summer 2006.

This syllabus may be revised. The current version will be posted to the course website.

Office Hours: MW 3-5p, and by appt, in A428 Wells Hall.

Help Room in C100 Wells Hall: Hours may change.
        HELP ROOM SCHEDULE AT WWW.STT.MSU.EDU

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.

Attendance: Attendance is **required** for all lectures, quizzes and the final exam. Your record of attendance will figure in your course grade. Any student called upon in lecture or recitation may be awarded points at the discretion of the instructor . If a student is called upon but is not present or chooses not to participate points will be withdrawn at the discretion of the instructor .

Textbook: Complete Business Statistics, SIXTH Edition, by Amir D. Aczel and Jayavel Sounderpandian, McGraw-Hill 2005. 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. We will make some use of statistical routines available in the public labs of MSU.

Exercises: Exercises will be placed on the website www.stt.msu.edu/~rdl (click on STT 315-201/202 Summer 2006). We use exercises designed by your instructor as well as some from the text.

Key dates: For a complete list consult http://www.summerstudy.msu.edu/Calendar.asp
July 5, Wednesday, first class.
July 7, Friday, open add ends.
July 17, Monday, end tuition refund period.
July 27, Thursday, mid-semester, last day to withdraw or drop course with no grade reported.
August 18, Friday, last class and final exam.

STT 315 Quizzes and Final Exam: All quizzes and the comprehensive final, are in C215. Calculators are NOT allowed). Notes, papers, or books are NOT allowed. No headphones may be used. Points will be **withdrawn** for violations of this policy. Quizzes are the last half of the period. The final exam is a full period.

● Quiz 1, Monday, July 17 (pp. 075-142; 150-159; 031-040, except as noted, AND lecture material.).

● Quiz 2, Friday, August 11 (pp. 175-330, except as noted, AND lecture material).

● Final Exam, Friday, August 18 (cumulative).

No makeup exams are given. With prior approval points may be shifted to a future exam or to the exam of the other section 315-201 or 315-202.

Prerequisite: MTH 124

Comments on the role of mathematics in this course: No previous contact with statistics is assumed. Algebra, and some ideas from calculus, are part of the course requirement and are used. Calculations for homework and exams primarily use arithmetic. Facility with fractions and simple calculations is an asset. A basic calculator with power, root, exponential and logarithm is needed. Formulas are interpreted in the context of mathematical notation. Operations are executed from "the inside out." For example

● 3 x – 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 (distributive law);

● 3 x / 7 means divide x by 7 then multiply by 3 or (giving the same result) multiply x by 3 then divide by 7 (associative law);

● 1 / (3 / 7) = 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. 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, everyone will be a bit shaky or suffer inattention on some points. 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.

Video tapes: You may find the tapes I've prepared for 315 to be helpful. They are in the A.V. section of the main library.

Involvement with learning: There are parallels between learning and exercise. Modest amounts applied consistently seem to work well. Read; talk things over with someone, particularly within a few hours of the end of class. Play with a few problems now and then 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 and inform your mind that this is a priority but not a crisis. Be upbeat. It becomes an easy habit. Work with your classmates to prepare a backup recourse for when you get stuck. No need for loose ends.

Modifications to the Course Plan: This plan is subject to adjustments depending upon unforeseen circumstances or in the interests of achieving academic objectives. In particular, additional material may be introduced or material may be deleted. The course material is covered at about 12 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.

Homework: Exercises will be assigned in class. Your solutions are to be submitted as a part of your graded work for the course (see "Grading" below). Some exercises will be submitted during the class period in which they are assigned and may involve group activity. Others will be submitted at a time announced (another class period).

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.

Homework = 40 points
35 points each for exams 1 and 2
Final Exam = 40 points

Being called upon in class may change your point total.

Course total = 150.

134 & above = 4.0
[127, 134) = 3.5
[120, 127) = 3.0
[112, 120) = 2.5
[105, 112) = 2.0
[097, 105) = 1.5
[090, 097) = 1.0
Below 090 = 0.0