

Stat 328 Syllabus Summer 2002

Professor Steve Vardeman
304-D Snedecor Hall
Ph 515-294-2535
Fax 515-294-5040
vardeman@iastate.edu
<http://www.public.iastate.edu/~vardeman/>

Lab Grader: Ling-Hong Zhang
lhzhang@iastate.edu

Texts: *Basic Practice of Statistics*, 2nd Edition, by Moore
Applied Regression Analysis, 3rd Edition, by Dielman
Software: JMP 4.0 (available under the ISU site license)

Course Grades

| | |
|---------------|--------------------------------|
| Homework/Labs | 15% |
| Exam 1 | 35% (Over Basic Statistics) |
| Exam 2 | 50% (Over Regression Analysis) |

Lab/HW Policy

The first 5 of these labs/HW sets will be due on Thursdays (of weeks 2-6) for the Evening section and on Saturdays (of weeks 2-6) for the Saturday section. You may work in teams (of 4 or fewer)* on these labs. If you do so, turn in only one report per team. However, the appearance of your name on a team lab submission is a statement that you participated fully in its development. If you are unable (because of schedule, etc.) to contribute fully to the development of a particular team report, you should prepare and submit your own individual report. The first 5 labs will each be scored on a 3 point scale, expecting that most/all will receive the full 3 points (as essentially complete and correct). On rare occasions 4 points (out of 3) may be assigned to a particularly penetrating, complete and lucid report or less than 3 points to a sloppily done submission. You may, if necessary, submit one of the first 5 labs up to one week late without grading penalty. (Please don't use this privilege if you don't need to.)

The last lab/HW will be submitted to arrive at Snedecor Hall by July 3rd. (Note that this is AFTER the final class meeting. Also note that campus mail delivery takes a day or so.) Its submission is a required part of the course, but it will be marked as "S" or "NS" and (unless "NS") will not influence course grades.

(* Regarding this size limitation, I will allow "unattached" students with no ISU 2001 MBA Class team to affiliate with a "regular" 4 person team for purposes of this HW/lab work, in such cases raising this limit to 5.)

General Comments About the Course

The intelligent collection and interpretation of quantitative information is the backbone of good business decisions. This course is "basic quantitative literacy material" for managers, and has its opposite number in every MBA program in the country. I don't expect to make you statisticians. I do expect to help you learn some things that, if used, will make you better at what you do.

I am aware that 1) you are all working professionals with already full lives and 2) some of you have substantially less quantitative background (and will pay a heavier personal price to learn the course material) than others. I will be as flexible as possible on the first account and as helpful as possible on the second. However, neither 1) nor 2) changes the fact that this is a 3 credit university course, that you have chosen to take. Plan on it requiring a substantial amount of time and effort. (The standard rule of thumb is that a 3 credit semester course produces 45 contact hours and 90 hours of work outside class. I doubt you will spend 90 hours total outside of class on Stat 328, but I can't/won't be moved by reports that the homework and reading is taking a lot of time. It's what is required to absorb the material.)

Give this your best shot as professionals and I think you'll be pleasantly surprised how doable (and maybe even interesting!) it ultimately is.

Saturday MBA Stat 328 Tentative Schedule/ Summer 2002

M= *Basic Practice of Statistics* by Moore

D= *Applied Regression Analysis for Business and Economics* by Dielman

| Date | Morning | Afternoon |
|---------|--|---|
| May 11 | M Ch 1, Ch 3 D 2.1, 2.2, 2.4 | M Ch 4 D 2.3, 2.5 |
| May 18 | M 6.1-6.3 D 2.6-2.7 | M Ch 7 D 2.6-2.9 |
| June 1 | Exam 1 (Basic Statistics) Six Sigma and Statistics M 4.4 | M 2.1-2.4, 11.1-11.2 D 3.1-3.2, 3.7, 3.3-3.4 |
| June 8 | M 11.2 D 3.4-3.5, 4.1, 4.3 | D 4.2-4.3, 4.5 |
| June 15 | D 4.4, 6.9, 3.6, 4.6, 5.2, 6.1-5 M 11.3 | D Ch 6, 7.1 |
| June 22 | Exam 2 (Regression) | D Ch 8, 7.2-7.3 |

Evening MBA Stat 328 Tentative Schedule/ Summer 2002

M= *Basic Practice of Statistics* by Moore

D= *Applied Regression Analysis for Business and Economics* by Dielman

| Dates | Tuesday | Thursday |
|-------------|---|---|
| May 14, 16 | M Ch 1, Ch 3 D 2.1, 2.2, 2.4 | M Ch 4 D 2.3, 2.5 |
| May 21, 23 | M 6.1-6.3 D 2.6-2.7 | M Ch 7 D 2.6-2.9 |
| May 28, 30 | Six Sigma and Statistics M 4.4, 2.1-2.3 D 3.1-3.2 | Exam 1 (Basic Statistics) M 2.4, 11.1-11.2 D 3.7, 3.3-3.4 |
| June 4, 6 | M 11.2 D 3.4-3.5, 4.1, 4.3 | D 4.2-4.3, 4.5 |
| June 11, 13 | D 4.4, 6.9, 3.6, 4.6, 5.2, 6.1-5 M 11.3 | D Ch 6, 7.1 |
| June 18, 20 | D Ch 8, 7.2-7.3 | Exam 2 (Regression) |