STT200 Syllabus for Spring 2010          (revision date 1-5-10)
Prof. LePage's sections are 9-12 and 13-16.
The syllabus may be revised in the interests of the course.
**Dr. LePage Office Hours:  Tu 2-4 A428 WH (Wells Hall)**
**                                       Wed 1:45-2:45 A428 WH (or by appt.).**

**Graduate Assistants:   Attend office hours of your own TA.**

**Sections 9-12**     Wenning Feng, Graduate Assistant
                      Office: A500 Wells Hall
                      Phone: 432-3342
                      Email: fengwenn@stt.msu.edu
                      Office Hours: TUE 11:30-1:30p.m., THUR 1:30-2:30p.m. @A500 WH
                      Help Room Hours: THUR 2:50-7:00p.m. @C100 WH

**Sections 13-14**    Hsiu-Ching Chang, Graduate Assistant
                      Office: A505 Wells Hall
                      Phone: 884-1488
                      Email: changh13@stt.msu.edu
                      Office Hours: Wed 10:30 - 11:30 A505 WH
                      Help Room Hours: Wed 12:30 - 2:50 C100 WH

**Sections 15-16**    Xiaoqin Tang, Graduate Assistant
                      Office: A505 Wells Hall
                      Phone: 884-1488
                      Email: tang@stt.msu.edu
                      Office Hours: TU  1:40 om-2:40 p.m.   @A505  Wells Hall
                      Help Room Hours: Tu 2:50-5:00p.m. @C100 Wells Hall

**Website www.stt.msu.edu/~lepage** (click on STT200 Sections 9-16, Spring 2010).

| | |
|---|---|
| Monday, Jan 11 | First day of classes |
| Monday, Jan 18 | Martin Luther King Day, no classes |
| Thursday, February 4 | Last day to drop a course and receive 100% refund |
| Wednesday, March 3 | Last day to drop course with no grade reported (middle of semester) |
| Mon-Fri, March 8-12 | Spring Break, No classes |
| Friday, April 30 | Last day of classes |
| Mon-Fri, May 3-7 | Final exam week |

**Course: STT 200  Statistical Methods**
**Semester:** Fall of every year, Spring of every year, Summer of every year
**Credits:** Total Credits: 3   *Lecture/Recitation/Discussion Hours: 4*
            3(4-0)
**Prerequisite:** (MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LB 118) or designated score on Mathematics Placement test
**Not open to students with**
            **credit in:** STT 201 or STT 315 or STT 421
**Description:** Data analysis, probability models, random variables, estimation, tests of hypotheses, confidence intervals, and simple linear regression.

**Help room C100 Wells Hall.** The help room is staffed by statistics grad students and will open Thursday, January 14th. **You may attend at any of the scheduled times and need not restrict your consulation to the hours of your own TA.** The schedule is posted at C100 and also on www.stt.msu.edu. No appointment is needed. There may also be limited tutoring offered by the College of Natural Science. It is a good idea to connect with these resources right away.

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**Semester:** Fall of every year, Spring of every year, Summer of every year
**Credits:** Total Credits: 3   *Lecture/Recitation/Discussion Hours: 4*
3(4-0)
**Prerequisite:** (MTH 103 or MTH 110 or MTH 116 or MTH 124 or MTH 132 or LB 118) or designated score on Mathematics Placement test
**Not open to students with credit in:** STT 201 or STT 315 or STT 421
**Description:** Data analysis, probability models, random variables, estimation, tests of hypotheses, confidence intervals, and simple linear regression.

*Recitations meet Tuesdays at the times and places scheduled below.*

| STT 200 | | Statistical Methods | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Section | Credits | Hours Arranged | Days | Times | Room | Building / Location | Instructor | Enrolled | Limit | Room Si |
| | 009 | 3 | | M W | 3:00 PM - 4:20 PM | S109 | South Kedzie | R. Lepage | 32 | 32 | 189 |
| | | | | Tu | 1:50 PM - 2:40 PM | C311 | Wells Hall | | | | 42 |
| | 010 | 3 | | M W | 3:00 PM - 4:20 PM | S109 | South Kedzie | R. Lepage | 32 | 32 | 189 |
| | | | | Tu | 3:00 PM - 3:50 PM | C211 | Wells Hall | | | | 42 |
| | 011 | 3 | | M W | 3:00 PM - 4:20 PM | S109 | South Kedzie | R. Lepage | 32 | 32 | 189 |
| | | | | Tu | 4:10 PM - 5:00 PM | C216 | Wells Hall | | | | 32 |
| | 012 | 3 | | M W | 3:00 PM - 4:20 PM | S109 | South Kedzie | R. Lepage | 31 | 32 | 189 |
| | | | | Tu | 5:30 PM - 6:20 PM | C215 | Wells Hall | | | | 32 |
| | 013 | 3 | | M W | 5:30 PM - 6:50 PM | 111 | Olds Hall | R. Lepage | 32 | 32 | 178 |
| | | | | Tu | 3:00 PM - 3:50 PM | C300 | Wells Hall | | | | 32 |
| | 014 | 3 | | M W | 5:30 PM - 6:50 PM | 111 | Olds Hall | R. Lepage | 32 | 32 | 178 |
| | | | | Tu | 4:10 PM - 5:00 PM | C305 | Wells Hall | | | | 32 |
| | 015 | 3 | | M W | 5:30 PM - 6:50 PM | 111 | Olds Hall | R. Lepage | 31 | 32 | 178 |
| | | | | Tu | 5:30 PM - 6:20 PM | C305 | Wells Hall | | | | 32 |
| | 016 | 3 | | M W | 5:30 PM - 6:50 PM | 111 | Olds Hall | R. Lepage | 32 | 32 | 178 |
| | | | | Tu | 6:40 PM - 7:30 PM | C305 | Wells Hall | | | | 32 |

**Textbook.** Intro Stats by DeVeaux et. al. 3rd Ed. Addison-Wesley. We will employ some modifications of methods presented there.

**Course materials.** Available at www.stt.msu.edu/~lepage and later also www.angel.msu.edu (to be announced).

## Lecture topics.

| Day | Material |
|---|---|
| M 1-11 | Ch. 14 |
| W 1-13 | Ch. 15 |
| M 1-18 | No class (recitation meets Tu) |
| W 1-20 | Ch. 15 |
| M 1-25 | Ch. 16 |
| W 1-27 | Ch. 16 |
| M 2-1 | Ch. 17 |
| W 2-3 | Exam 1 on Ch. 15-17 |
| | |
| M 2-8 | Ch. 18 |
| W 2-10 | Ch. 18 |
| M 2-15 | Ch. 19 |
| W 2-17 | Ch. 20 |
| M 2-22 | Ch. 21 |
| W 2-24 | Ch. 22 |
| M 3-1 | Review Ch. 18-22 |
| W 3-3 | Exam 2 on Ch. 18-22 |
| | |
| M 3-8 | No class (no recitation Tu) |
| W 3-10 | No class |
| | |
| M 3-15 | Ch. 23 |
| W 3-17 | Ch. 24 |
| M 3-22 | Ch. 24 |
| W 3-24 | Ch. 26 |
| M 3-29 | Ch. 26 |
| W 3-31 | Exam 3 on Ch. 23-26 |
| | |
| M 4-5 | Ch. 7 |
| W 4-7 | Ch. 8 |
| M 4-12 | Ch. 9 |
| W 4-14 | Ch. 10 |

M 4-19          Ch. 27
W 4-21          Ch. 27
M 4-26          Review Ch. 7-10, 27
W 4-28          Exam 4 on Ch. 7-10, 27

Take a long look at the brief period between exams and the amount of material covered.

No final exam will be held for sections 9-16. I will meet at the times scheduled by the registrar but attendance at these times is entirely optional and will have no bearing on your course grade. If you choose to attend I will answer such questions as you may have and have prepared a presentation of material concerning some more modern developments in statistics including "The Bootstrap."

**Attendance Policy.** Any student may be called upon in any class or recitation period for positive or negative credit applied to a future exam, at the discretion of the instructor. We have only **29** lecture periods **4** of which are devoted to exams. It will take concerted effort to progress through this material and the prospects for those who take it too lightly are not bright simply because we cannot keep backing up to overcome that.

**Makeups.** THERE ARE NO MAKEUP EXAMS OR MAKEUP ASSIGNMENTS. Exceptions to this rule may be made in rare circumstances upon the approval of Prof. LePage (in advance unless it is an emergency).

**Graded Activities.** Each activity will have its own 4.0 grade-scale which will be announced in timely fashion after scoring is complete. Ordinarily, you will submit both your written solutions and a bubble sheet asking questions about the solutions. You will be scored first on the bubble. Points may be withdrawn however for answers given without substantiation on your written submission. There may be extra credit assignments from time to time, some announced or conducted in lecture. These will impact particular grades such as exams or homework. All exams are closed book, no notes or electronics (other than a calculator) in use or in view, and assigned seating.

You will be graded on your performance and attendance in recitations. Your course grade will be **0.2** of your recitations grade plus **0.8** of the average of your four exam grades.

**Course Grade.**

*Your course grade will be converted to a registrar's grade according to the formula:*
$$< 0.9 \quad 0.0$$
$$0.9 \text{ to} < 1.4 \quad 1.0$$
$$1.4 \text{ to} < 1.9 \quad 1.5$$
$$1.9 \text{ to} < 2.4 \quad 2.0$$
$$2.4 \text{ to} < 2.9 \quad 2.5$$
$$2.9 \text{ to} < 3.4 \quad 3.0$$
$$3.4 \text{ to} < 3.9 \quad 3.5$$
$$3.9 \text{ upward} \quad 4.0$$
*This scale may be relaxed as the instructor deems appropriate.*

**Registrar's final exam times (we do not have a final exam at these times, see above):**

| | | | |
|---|---|---|---|
| *Sections 9-12* | Tuesday May 4 | 3:00-5:00 p.m. | S109 South Kedzie |
| *Sections 13-16* | Monday, May 3 | 8:00-10:00 p.m. | 111 Olds Hall |