

STAT 381, Applied Statistical Methods I Spring 2015
CRN: 37625 MWF 12:00 - 12:50 PM, Room: TH 204

Instructor: Brian Powers, SEO 633, Email: bpower6@math.edu

Office Hours: MW 1:00-2:00 PM and by appointment.

Textbook: Prob & Stat for Engineers & Scientists, **9th** edition
By Walpole/Myers/Myers/Ye ISBN-13 978-0-321-62911-1

Prerequisites: Grade of C or better in Math. 210 and it is **strictly enforced**

Course Outline:

Week 1	.....	Ch 1, 2.1-2.2
Week 2	.....	2.3
Week 3	.....	2.4-2.7, Quiz 1
Week 4	.....	3.1-3.3, Quiz 2
Week 5	.....	4.1-4.3, Quiz 3
Week 6	.....	Exam 1, 5.2-5.3
Week 7	.....	5.4-6.2
Week 8	.....	6.3-6.7, Quiz 4
Week 9	.....	8.1-8.4, Quiz 5
Week 10	.....	8.5-8.6, Quiz 6
Week 11	.....	Spring Break
Week 12	.....	Review, Exam 2
Week 13	.....	9.1-9.12
Week 14	.....	10.1-10.3, Quiz 7
Week 15	.....	10.4-10.9, Quiz 8
Week 16	.....	Quiz 9, Project Due, Review
Week 17	.....	Final Exam

Grade Policy:

Exam 1	.....	100 points
Exam 2	.....	100 points
Quizzes	.....	50 Points
Homework	.....	50 points
Written Assignments	.....	25 points
Special Project	.....	25 points
Final Exam	.....	200 points

Quizzes are given weekly starting from the 3rd week. They are usually similar to the homework problems assigned in the previous week and/or the worked out examples in your book or lecture. The three lowest quiz scores will be dropped, the rest will be averaged and scaled to 50 points. No makeup quizzes will be given. You can use the three chances to drop in case you have to miss quizzes.

Homework will be collected roughly weekly (see due dates below). **Multiple pages must be stapled** (no folded-corners). The best 10 HW scores will be averaged and scaled to 50 points in the end of the semester. You may work together on homework, but each student must hand in individual work listing the names of any other students you worked with. Furthermore, **copying solutions directly from the solution manual will not be tolerated**, and will result in a zero for the homework assignment.

A written assignment will be given weekly, usually Friday. These will ask you to explain in your own words (in one or two paragraphs) some of the specific concepts taught during the week. These will be graded on completion and effort only, not on correctness, given a 0,1 or 2. These should ideally be submitted through Blackboard (but may be submitted in hard copy should that not be possible). The lowest 2 scores will be dropped, and the average of the others will be scaled to 25 points.

A special project will be assigned mid-semester to be done using a statistical package (probably R). This will be a small group assignment. More details to follow.

A: [90%, 100%], B: [80%, 90%), C: [70%, 80%), D: [60%, 70%), F: [0%, 60%)

Important Dates:

Add Deadline	January 23
First Exam	Feb 26
Drop Deadline	March 20
Second Exam	April 1
Project Deadline	May 1
Final Exam	TBA

Remarks:

- Check my webpage regularly for the latest announcements regarding course material, homework assignments, etc.
- All students are responsible for the full work of the course. This includes knowing the material, taking tests, doing the homework, knowing the dates when tests are held and any announcement that may be made in class.
- Calculators are allowed on exams, including those capable of symbolic algebra. However, most problems require you to "show each step"—and thus NO credit will be given unless you show all work by hand.
- Students should bring and display their UIC ID cards during exams. (Academic dishonesty: Cheating on exams typically results in disciplinary procedures, up to expulsion from the university).
- You are encouraged to discuss and work out homework problems with your fellow students.

- If you have a valid excuse for missing a midterm let me know in advance. In case if you are ill on the day of a midterm, give a written evidence/explanation of your absence (e.g. doctor's notes) to me upon returning to class. There will be no make up exams and/or quizzes. If your excuse is valid with written document, the missing exam will be replaced by the final (percentage wise). Otherwise it counts zero.
- There will be no make-up for the final exam. Exceptions will be made only for emergencies e.g. hospitalization, or conflict in final schedule.
- Do not hesitate to ask for help if you need it. Do not wait until it is too late.

Homework:

HW #	Problems	Due Date
1	Ch 1: 1(a,b,c), 7, 14, 18, 24, 29; Ch 2: 4, 14, 16, 18, 20	1/21
2	Ch 2: 23, 30, 33, 36, 38, 39	1/26
3	Ch 2: 49, 53, 55, 58, 59, 61, 69, 73, 74, 75, 80, 84, 90, 92, 93, 94, 97, 101	2/2
4	Ch 3: 3, 4, 5, 6, 8, 12, 14, 17, 21, 29, 33	2/9
5	Ch 4: 2, 4, 5, 10, 13, 17, 34, 35, 50, 57, 62, 65, 66	2/16
6	Ch 5: 10, 11, 27, 32, 42, 44	2/23
7	Ch 5: 50, 53, 55, 67, 72; Ch 6: 1, 2	3/2
8	Ch 6: 5, 7, 9, 22, 23, 24, 26, 41, 45, 58, 59	3/9
9	Ch 8: 2, 12, 18, 19, 23, 24, 26, 30, 31, 32	3/16
10	Ch 8: 37, 39, 41, 44, 45	3/30
11	Ch 9: 2, 4, 13, 14, 35, 40, 41, 49, 51, 55, 63, 72, 76	4/13
12	Ch 10: 1, 3, 4, 6, 9	4/20
13	Ch 10: 19, 21, 24, 30, 32, 35, 42, 58, 61	4/27