

Professor Angela J. Pignotti

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Syllabus

Website: <http://pignottia.faculty.mjc.edu>

and <http://people.mjc.edu/pignottia>

Office Hours: MW 10 –11 a.m. F 10 – 11:30 a.m.

MTWTh 1:05– 1:30 p.m. in SCC 227 and by appointment

MyStatLab (MSL) For Technical help Alternate Website	Website: http://pearsonmylabandmastering.com/ http://247pearsoned.custhelp.com/ http://www.mathxl.com/login_mml.htm	Course ID: pignotti_____
StatCrunch	http://www.statcrunch.com/	Login is the same as MSL.

Requirements

- Text:** *Statistics Informed Decisions Using Data 5th Ed.*, Michael Sullivan III OR access to the e-text.
- Online HW Access:** MyStatLab (MSL)) is an online homework system that requires purchase of an access code. An access code can be purchased online or with a text bundle at bookstore.
**Students can register for a trial period with deferred payment.

All registered students must register onto MyStatLab by Friday, September 2nd. Students not enrolled in MSL will be dropped from the course. Provide your **MJC student email account** when creating your MSL account.

- Join the class group on StatCrunch:** To join the class group, go to StatCrunch: <http://www.statcrunch.com/> (login is the same as MSL). Click on EXPLORE at top, then GROUPS. Type in Pignotti in the search box on the left and click on search. Click on Pignotti Statistics Fall 2016 and ask to join by clicking on JOIN THIS GROUP. Include your name in the message box. Do this today. **You MUST register by Friday September 9th**. Students not enrolled in the StatCrunch Fall 2016 class group will be dropped from the course.
- TI-84 Plus calculator.** (C and silver editions are both fine) No other model calculator may be used.
- 3-ring binder with dividers** for storing notes, homework, returned exams and quizzes.

Enroll in Math 135 – Problem Solving Skills and Technology for Statistics This one unit course is CRITICAL to your success in the course. All review for your exams and homework will ONLY be in the Math 135 section. Materials from this one unit class will not be shared with Math 134 students. Math 134's technology component- MyStatLab, Computer Labs, TI-84 usage in the Math 135 section will be explained. The 4-unit 134 class is primarily lecture with no technology instruction and little, if any, time for homework questions or problem solving.

Homework: *Homework is an essential component of your learning in this course.* Most homework will be done on the computer. It is your responsibility to know when online homework is due. **NO LATE WORK IS ACCEPTED.** You must have a reliable computer with reliable internet in order to do the online assignments. Plan on working in an MJC computer lab until you get your home system working. Routinely check your MSL homework page. Open everything that has become available and make a note of all the due dates. Your exams will rely *heavily* upon your mastery of the assigned homework, reading, as well as the work done in class and in computer labs.

We have a calculator loan program available. It is located in the east & west campus libraries. It is on a first come first serve basis. Bring your class schedule and don't delay as they will run out. Smart phones or any other technological aids are NOT allowed. Your binder should have a section for class notes, homework, handouts, labs and exams. **You must bring your calculator, binder and textbook to all class meetings.** In order to succeed in this course it is imperative you come to class prepared everyday, do all the labs, reading assignments, projects and homework.

What's in it for you: After completing this course you will be able to see, hear and read mass media (TV, radio, magazines, newspapers) relying on statistics and know how to determine the validity of the conclusions reported.

You will learn to appreciate the difference between anecdotal evidence and evidence based on data. You will become statistically literate and be able to think statistically. You will understand how to take a question of interest, rephrase it into a statistical hypothesis, use sound methodology to collect the data that will answer the question and finally be able to use appropriate statistical analysis to answer your original question. This class is one of the most practical you will ever take. You will come to understand why we need to always use common sense, logical thinking and experts in addition to statistical formulas and computations. It will allow you to make well-informed and educated decisions about any topic of interest: abortion, presidential candidates, global warming, the death penalty and more. Never again will you be led or misled by anyone's use or misuse of statistics. You will have the power to decide for yourself (based on the evidence) what you believe to be true.

Location of MJC Computer Labs and Drop in Tutoring Centers:

Campus	Location	Hours
East Campus	Library Building	Monday – Friday, 9am - 8pm Saturdays 8:15 am - 5 pm
West Campus	Library in Yosemite 235	Monday – Friday, 9am - 8pm

Computer Labs, Projects, Journal Article Evaluation, Homework and Quizzes: (20% of grade)

1. Our work requires you read and write at the college level. All assignments will be graded for clarity, correctness, organization, grammar, spelling and completeness.
2. There will be computer labs and/or projects due throughout the semester. These will use various types of technology. Each assignment comes with detailed directions, however most students need additional help to be successful. The technology is ONLY demonstrated and discussed in the 135 class.
3. There will be quizzes on journal article readings, text book reading assignments, videos assigned to watch and on homework.
4. Homework is assigned and will be represented on quizzes and exams.

Exams and Final 80%:

Exams are closed book, closed note. ***You must bring your TI-84 calculator to all exams. No make-up exams will be given.*** The cumulative final exam will be on **Monday, Dec. 12th from 7 a.m. - 9:50 p.m.** If you cannot make this final exam date you SHOULD DROP THIS CLASS NOW.

How to Succeed:

Study groups are strongly encouraged, however each person must **independently** write up their own lab assignments, projects and take home quizzes in their own words. So please be careful of this. If more than one person turns in the same exact assignment, I really have no choice but to assign all persons involved a zero for that assignment. I do adhere to MJC policy on academic dishonesty as described in our catalog.

Emergencies: If you have an emergency situation please contact me as soon as you can by email if possible. If you are unable to, have a friend or family member do it. I must know you need help or accommodations ASAP so I can offer you the widest range of options possible. Together we will attempt to create a plan so you still have an opportunity to succeed in the course.

Grading:		% of total points earned	Grade earned
Computer labs, homework, Projects/Journal Review/quizzes	20%	90-100	A
Three exams	60%	80-89	B
Comprehensive Final	20%	70-79	C
Total	100%	60-69	D
		Below 60	F

Professor Drop for lack of Class Participation Required participation in this class consists of daily attendance, completion of assigned homework problems, responding at least occasionally during in-class discussions, and doing your best on each exam. Each of these activities is designed to help you master the material and demonstrate your knowledge on exam day. State law allows the instructor of record (me) to drop students for “lack of participation.” Students may be dropped from class for any of the following reasons:

- Absent for any TWO days during the first two weeks of class.
- Absent for any four days of class and/or missing assignments.
- Miss any exam without prior notification.

Note: It is your responsibility to drop this class if you stop attending.

Classroom Behavior Expectations:

1. **You must arrive on time and stay the entire class period. In the rare event that you are late, please enter the classroom quietly and sit near the entrance. Do not walk in front of the seated classroom.**
2. Talking is not allowed between any individuals for any reason during class unless the Professor has initiated group work.
3. **Students may not leave the classroom once class has begun.** Entering and exiting the classroom disrupts the class. Disruptions are not allowed. Please see me if you have a medical condition or are sick prior to the start of class.
4. All electronic devices must be turned OFF (preferably, not vibrate!) during class.

Prerequisites: Satisfactory completion of Math 89, 90 or equivalent.

Course Learning Outcomes:

Upon satisfactory completion of MATH 134, the student should be prepared to:

1. Analyze and solve level appropriate problems including descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.
2. Effectively communicate, using appropriate mathematical notation, processes and strategies in solving level appropriate problems descriptive and inferential statistics, probability, discrete and continuous probability distributions, hypothesis testing, regression analysis, ANOVA, nonparametric statistics, and applications.

Math 134 and 135 Tentative Schedule

Week	Monday	Wednesday	Thursday M135 section	Friday
1	29-Aug 1.1	31-Aug 2.1, 2.2	1-Sep Lab 1 directions Practice probs, HW QnA	2-Sep 2.4, 3.1
2	5-Sep Labor Day Holiday	7-Sep 3.1, 3.2	8-Sep Lab 2 directions Practice probs, HW QnA	9-Sep 3.4
3	12-Sep 3.5, 1.2	14-Sep 1.2, 1.3	15-Sep Lab 3 directions Practice probs, HW QnA	16-Sep 1.3, 1.4
4	19-Sep 1.5, 1.6	21-Sep 1.6	22-Sep Practice probs, HW QnA	23-Sep 7.1
5	26-Sep 7.2	28-Sep Catch Up/ 7.2 - Application problems	29-Sep Review for Exam 1	30-Sep Exam 1 Ch 1, 2, 3, 7.1, 7.2
6	3-Oct 5.1, 5.2, 5.3, 5.4 Probability	5-Oct 6.1, 6.2, 7.3 Focus on Binomial distrib	6-Oct HW QnA	7-Oct 8.1
7	10-Oct 8.1	12-Oct 8.2	13-Oct Practice Problems, HW QnA	14-Oct 8.2
8	17-Oct 9.1	19-Oct 9.1	20-Oct Practice Problems, HW QnA	21-Oct 9.2
9	24-Oct 9.2	26-Oct 9.4	27-Oct Review for Exam 2	28-Oct Exam 2 Ch 5, 6, 8 and 9
10	31-Oct 10.1, 10.2	2-Nov 10.3	3-Nov HW QnA 10.5 - review	4-Nov 10.6
11	7-Nov 11.2*	9-Nov 11.3, 11.1 11.1 - Indep. Samples only	10-Nov HW QnA 11.5 - Ch 11 review	11-Nov Veteran's Day Holiday
12	14-Nov 4.1, 4.2 Correlation	16-Nov 4.2, 4.3	17-Nov Practice Problems, HW QnA	18-Nov 4.3 and RMSe of regression estimate
13	21-Nov Regression Application	23-Nov 12.1 Chi-Square Independence	24-Nov Thanksgiving Holiday	25-Nov Thanksgiving Holiday
14	28-Nov 12.2 Homogeneity of Proportions	30-Nov 12.1 Chi-Square Goodness of Fit	1-Dec Review for Exam 3	2-Dec Exam 3 Ch 10, 11, 4
15	5-Dec 13.1 - ANOVA	7-Dec 13.1 - ANOVA 3.3* - Means for Groups	8-Dec Review / Catch Up	9-Dec Final Exam Review
16	12-Dec Final Exam 7 am - 9:50 am	14-Dec	15-Dec	16-Dec