

Math 130 – PL1 Quantitative Reasoning Syllabus

Instructor: Vincent Maltese

Class Time: 12:30 – 2:50 PM, Tuesday/Thursday

Office Hours: By appointment

Required Materials:

- Coursepack
- Extra lined paper for in-class note taking & preview note taking
- Writing materials - LARGE eraser, pencils, highlighters, etc.
- TI-84 calculator (provided for use in class)

Course Description: Quantitative Reasoning develops student skills in analyzing, synthesizing and communicating quantitative information. Cultivates algebraic reasoning and modeling skills through a quantitative literacy lens. Emphasizes critical thinking and the use of multiple strategies in applied contexts. Topics include proportional and statistical reasoning, probability, and evaluation of bias and validity.

Prerequisite: A 2.0 in MAT 030, or course placement by exam.

Math 130 Course Objectives: Students will be able to:

1. reason, model, and draw conclusions or make decisions with mathematical, statistical, and quantitative information.
2. interpret and communicate quantitative information and mathematical and statistical concepts using language appropriate to the context and intended audience.
3. critique and evaluate quantitative arguments that utilize mathematical, statistical, and quantitative information.
4. increase comfort and facility with numeracy, the processes and skills of mathematics.
5. experience mathematical challenges and use the tools required to persist and succeed through them.
6. use appropriate technology in a given context.
7. draw conclusions and/or make decisions based on analysis and critique of quantitative information using ratios or proportional reasoning.
8. draw conclusions and/or make decisions by analyzing and/or critiquing mathematical models, including situations for which the student must recognize underlying assumptions and/or make reasonable assumptions for the model.
9. apply probabilistic reasoning to draw conclusions, to make decisions, and to evaluate outcomes of decisions.
10. draw conclusions or make decisions and communicate their rationale based on understanding, analysis, and critique of self-created or reported statistical information and statistical summaries.

General Education Outcomes & Essential Competencies: All courses at Jackson Community College address one or more of the institutionally defined General Education Outcomes (GEOs) or Essential Competencies (ECs). Math 130 contributes GEO 3: Demonstrate computational skills and mathematical reasoning.

<https://www.jccmi.edu/academic-deans/student-assessment/general-education-ado/>

Course Requirements:

<u>Grading Scale:</u>		<u>Grading Policy:</u>
90 -100%	4.0	Class Participation: 6%
85 - 89%	3.5	Online MML Homework: 12%
80 - 84%	3.0	In-Class Work, Quizzes, etc.: 12%
75 - 79%	2.5	Exam 1 (lessons 1-4): 12.5%
70 - 74%	2.0	Exam 2 (lessons 5-8): 12.5%
65 - 69%	1.5	Exam 3 (lessons 9-12): 12.5%
60 - 64%	1.0	Exam 4 (lessons 13-17): 12.5%
50 - 59%	0.5	Cumulative Final (lessons 1-15): 20%
0-49%	0.0	

Grading Information: 2.0 or "C" is a passing grade. Only courses with passing grades count toward graduation. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades. Additionally, earning less than a 2.0 in a class results in being unable to participate in the next level of courses in a discipline which requires this course as a prerequisite. Registering for the next course sequence without passing the prerequisite course may result in you being dropped from that class.

Homework:

- These assignments must be done outside of class time.
- There is a practice assignment for each lesson in the course.
- Practice assignments will be due as announced in class.
- You have an unlimited number of tries to do the practice assignments before you submit them (up until the final due date). Thus, all of your practice assignments should receive full credit, if you keep trying until you get a perfect score.
- **Late** homework will be accepted at a 5% penalty per class meeting date over the due date for any questions not already complete.

In-Class Work, Quizzes, etc.: There may be in-class assignments (turned in for credit). These may be individual or group assignments, closed or open notes at the instructor's discretion. Students who are absent may not make up the missed in-class assignments for any reason.

Exams: Due to the nature of the course, every exam will have questions that relate to previous exams. The final exam is cumulative for the whole course. Exams **may not be made up** except under extreme, well-documented circumstances. Final decisions as to whether a makeup exam will be allowed rest solely with the instructor, so tell him immediately if there is a problem. You will be allowed a page (8.5 by 11, front and back) of notes for each exam of your own creation. All previous note sheets may be used on the final exam. There will also be instructor-given tables and info sheets on certain exams. The Final Exam is during the last week of the course.

Extra Credit Policy: There will be no opportunities for extra credit. Your grade is based on your performance in class, not on extras.

Participation: Your points for this area are based on class attendance left to the discretion of the instructor.

Absence Policy: Students are expected to attend all class meetings, arriving on time, and staying until the end. We do a variety of in-class activities involving other students and group participation and therefore cannot be made up outside of class for any reason. If absence is unavoidable the **student is responsible** for obtaining the missed lecture notes from another student.

Important Dates: Be sure to check out the JCC Academic Calendar for Project Success Day, Holidays with no classes, last day to withdraw, etc. at http://www.jccmi.edu/academics/academic_calendar.htm

Incompletes Policy: (Excerpt from JCC Policy) "A student may request an incomplete from the instructor. The incomplete will be granted only if the student can provide documentation that his or her work up to that point is sufficient in quality, but lacking in quantity, due to circumstances beyond the student's control. Furthermore, a written plan for making up the missing work within one semester must be completed by the student. Final determination of whether an incomplete will be given is the instructor's decision."

Intermediate Grading: To comply with college policy and federal regulations you will receive three intermediate grades during the semester. The grades assigned are letters with the following meanings:

- **V:** Verifies that you are participating and your work so far has been acceptable
- **H:** Means that you are participating, but your work shows that you may require Help in order to complete the class successfully. If you receive an H grade, you will be contacted by the Center for Student Success (located in 125 Bert Walker Hall) and offered tutoring services.
- **Q:** Means that you have quit participating in the course. If you receive a Q grade, you will automatically be withdrawn from the course. A Q grade is normally assigned if you have not submitted work (classwork, exams, participation, etc.) for two weeks and have not contacted your instructor regarding your absences.

Academic Honesty Policy: You are *encouraged to talk to each other, but all your work must be your own*. In other words, "group-work" is a great way to learn material, but anything you submit for a grade must be done by you - reflecting your own thought processes, not that of someone else. If I suspect you of academic dishonesty, I will follow JCC's Academic Honesty Policy and take appropriate action up to and including assigning a **failing grade** for the paper, project, report, exam, or the course itself (whichever I deem necessary). The policy can be seen here:
<http://www.jccmi.edu/policies/Academics/Policies/1004.pdf>

Classroom Behavior Policy: *"We know what a person thinks not when he tells us what he thinks, but by his actions."* - Issac B. Singer

1. Be Responsible: for your work, for your learning, for your behavior in class, etc. The homework is going to require great levels responsibility on your part. You will need to stay on top of your schedule and your life to make sure that all coursework is done in a timely fashion.

2. Be Respectful: of other students, of the instructor, of the material, of yourself. No tobacco, come on time, stay the full time, be prepared to answer questions and work together.

Where to Get Help...

Office Hours: There are no scheduled office hours so let the instructor know immediately if you need help.

Each Other: Get a regular study group. Write down names of your peers and call on each other when needed!

Homework Schedule for Fall 2017
(may be altered depending on progress)

DATE	LESSONS COVERED	HOMEWORK (PRACTICE)	PREPARATION (PREVIEW)
September 21	Syllabus, 1.A, 1.B, 1.C, 1.D	1.C, 1.D	2.A
September 26	2.A, 2.B, 2.C	2.A	3.A, 3.B, 3.C
September 28	3.A, 3.B, 3.C	3.A, 3.B, 3.C	4.A, 4.B
October 3	4.A, 4.B	4.A, 4.B	Exam 1 Review
October 5	Exam 1 Review	Study for Exam 1	Study for Exam 1
October 10	Exam 1 (1, 2, 3, 4)		5.A, 5.B, 5.D, 5.D
October 12	5.A, 5.B, 5.C, 5.D	5.A, 5.B, 5.C, 5.D	6.A, 7.A, 7.B
October 17	6.A, 6.B, 7.A, 7.B	6.A	7.C, 7.D, 7.E, 7.F
October 19	7.C, 7.D, 7.E, 7.F	7.A, 7.B, 7.C, 7.D, 7.E, 7.F	8.A, 8.B, 8.C, 8.D, 8.E, 8.F
October 24	8.A, 8.B, 8.C, 8.D	8.A, 8.B, 8.C, 8.D	Exam 2 Review
October 26	Exam 2 Review	Study for Exam 2	Study for Exam 2
October 31	Exam 2 (5, 6, 7, 8)		9.A, 9.B, 9.C, 9.D
November 2	9.A, 9.B, 9.C, 9.D	9.A, 9.B, 9.C, 9.D	10.A, 10.B, 11.A, 11.B
November 7	10.A, 10.B, 11.A, 11.B	10.A, 10.B	11.C, 11.D, 11.E
November 9	11.C, 11.D, 11.E	11.A, 11.B, 11.C, 11.D, 11.E	12.A, 12.B, 12.C
November 14	12.A, 12.B, 12.C, 12.D	12.A, 12.B, 12.C	Exam 3 Review
November 16	Exam 3 Review	Study for Exam 3	Study for Exam 3
November 21	Exam 3 (9, 10, 11, 12)		13.A, 13.B, 13.C, 13.D
November 28	13.A, 13.B, 13.C, 13.D	13.A, 13.B, 13.C, 13.D	14 TBD
November 30	14.A, 14.B, 14.C	14 TBD	15 TBD
December 5	15.A, 15.B, 15.C, 15.D, 15.E	15 TBD	17 TBD
December 7	17.A, 17.B, 17.C, 17.D	17 TBD	Exam 4 Review
December 12	Exam 4 Review	Study for Exam 4	Study for Exam 4
December 14	Exam 4 (13, 14, 15, 17)	Study for Final Exam	Study for Final Exam
December 19	Final Exam		