

Math 130.81 Quantitative Reasoning Syllabus

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MyMathLab Course ID:	faber65854
Class Time/Location:	HIL Room 14 MW 6:00 – 8:25 pm
Office Hours:	

Required Materials:

- Coursepack & MyMathLab Student Access (purchased at the bookstore)
- No required text (textbook zero)
- LARGE 3-ring binder for this class ONLY!
- Writing materials - LARGE eraser, pencils, highlighters, etc.
- Calculator: **TI-84 required.**
- **Please note: Access to a computer with Internet is required for this section of Math 130.**

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 MTH 030, or course placement by exam.

Math 130 Core 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.

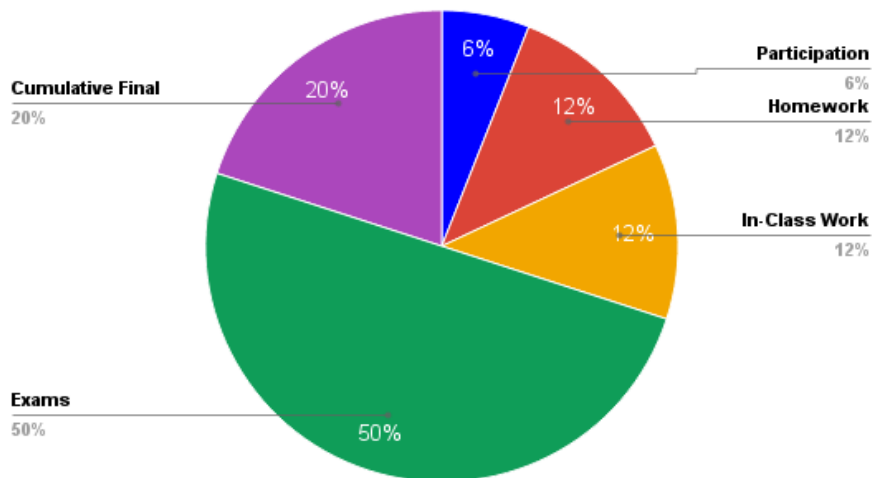
<https://www.jccmi.edu/academic-deans/student-assessment/general-education-ado/>

Course Requirements:

<u>Grading Scale:</u>	<u>Grading Policy:</u>
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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	

Category Weights



Grading Information: A 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.

Online Homework:

You will encounter two types of online homework assignments: **previews** and **practices**. Most lessons have a preview assignment, all lessons have a practice assignment. These assignments must be done outside of class time on a computer with internet access at MyMathLab (reachable through <http://www.mymathlab.com>).

Preview assignments have two parts: **interactive lecture** and **problem sets**. Students are required to take notes on the interactive lectures that will be checked at the beginning of the next class period. Problem sets are to be completed by midnight

Practice assignments will be due one week after it is assigned, as announced in class. You can also check MyMathLab for particular due dates.

You have an unlimited number of tries to do these assignments before you submit them (up until the due date). Thus, all of your assignments should receive full credit, if you keep trying until you get a perfect score.

In-Class Work, Quizzes, etc.: There will be frequent in-class assignments (turned in for credit). These may be individual or group assignments, closed or open notes at the instructor's discretion. Students that 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 contact them 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. The Final Exam is during

the last week of the course and can NOT be taken early so do **NOT** schedule travel plans during that week or you will receive a **ZERO** on the final.

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

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 an absence is unavoidable the **student is responsible** for obtaining the missed lecture notes from another student. Please remember that office hours are not a replacement for class time.

Center for Student Success: (138 Bert Walker Hall, Central Campus) The Center for Student Success has tutoring available for free to students enrolled in MAT130. Math tutors are always on staff when the Center is open, you can drop in anytime. You can get help with take-home work, MyMathLab/MyStatLab homework, and more. The Center is located on the first floor of Bert Walker Hall (on Central Campus). For tutoring at the other campus locations please speak to the staff member at the front desk for availability. Central Campus CSS hours:
<http://bit.ly/jctutoringhours>.

Supplemental Instruction: Some sections of the course have Supplemental Instruction (SI) Leaders assigned to them. These students will serve as peer “math coaches” for the students in that section, and will facilitate weekly study sessions. These study sessions are open to *all* MAT130 students and are completely voluntary, but highly recommended.

Winter '17 MAT130 students who utilized SI had an 85% pass rate (28% Increase)

In a recent semester, students that utilized SI study sessions experienced an increase of over 18% in their pass rates, compared to those who did not. Even if your class doesn't have an SI Leader, you are encouraged to attend SI Sessions for your course. For times and locations of SI sessions, visit the Center for Student Success webpage and click on “Supplemental Instruction” in the menu or go to (<http://bit.ly/jcsischedule>)

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:

Instruction for this course occurs primarily from group work. Thus we will determine behavior policies as a class.