

Math 130 Foundations of Math Course Syllabus

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| MyMathLab Website: | www.mymathlab.com |
| MyMathLab Course ID: | main89617 |
| Class Time/Location: | M/W 8:30-10:25am |
| Office Hours: | M/W 8-8:30, 10:30-11am, 1:30-3pm |

Required Materials:

- Coursepack & MyMathLab Student Access (purchased at the bookstore)
- LARGE 3-ring binder for this class ONLY!
- 11-tab page dividers
- Writing materials - LARGE eraser, pencils, highlighters, etc.
- Basic four-function or scientific calculator.
- **Please note: Access to a computer with Internet is required for this section of Math 030.** We will be doing homework, projects, and possibly some quizzes online, outside of class. School computers can be used to satisfy these requirements.

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.

Math 130 Associate Degree Outcomes: All courses at Jackson College address one or more of the institutionally defined Associate Degree Outcomes (ADOs). Math 130 contributes to the following outcomes.

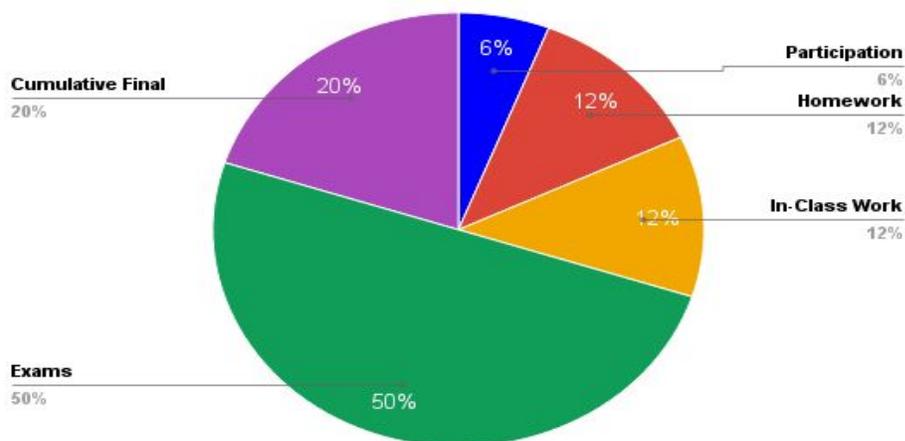
ADO 3: Proficient - Demonstrate computational skills and mathematical reasoning

ADO 7: Proficient - Critical Thinking

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 13-16): 12.5% |
| 50 - 59% | 0.5 | Cumulative Final (lessons 1-16): 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 are due by the next class period.
- **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.
- Late homework will be accepted at a 5% penalty per day over the due date for any questions not already complete, that will be applied in MML.

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. There will be a notebook check before each exam. Each notebook check will be part of your In-Class portion of your final grade. There may also be additional quizzes posted on MyMathLab for students to take outside of class. 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. There will also be instructor-given tables and info sheets on certain exams. 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 absence is unavoidable the **student is responsible** for obtaining the missed lecture notes from another student (or by watching the online YouTube lecture videos). Please remember that office hours are not a replacement for class time.

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.

Where to Get Help...

Office Hours: Office hours are there for you to come get help. Please come and see me if you need questions answered. Remember, though, that office hours are not a replacement for attending class.

Center for Student Success: The Center for Student Success has tutoring available for free to students enrolled in Math 130. You can get help with take-home work, MyMathLab homework, and more. The Center is located in Bert Walker Hall.

MyMathLab: There are videos, extra problems, sample exams, lecture notes, PowerPoint lectures and more available in MyMathLab. It's a great resource!

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