



Math 130.50 Quantitative Reasoning (4 credits)

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Office Hours:	MTWTh: 10AM-11AM, Friday by Appointment

Course Information	
Connect Math Website:	https://www.connectmath.com
Connect Math Course ID:	3HYLE-3CTHE
Class Time/Location:	MTWTh 11:00AM – 12:55PM
Remind:	Text: 81010 Message: @13050mat

Required Materials:

- Textbook Zero: An online version of the text is included in Connect Math
- Coursepack & Connect Math Student Access (picked up at the bookstore)
- LARGE 3-ring binder for this class ONLY!
- Writing materials - LARGE eraser, pencils, highlighters, etc.
- Required Technology
 - Laptop or Cellphone with the desmos app and testing app
 - or
 - Ti-83 or above calculator
- **Please note: Access to a computer with Internet is required for this section of Math 130.** 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: MAT030 or MAT040

Course Goals: Quantitative Reasoning is not your traditional lecture course. Expect to be discovering concepts, solving problems, working collaborative in small groups, and sharing ideas with the whole class. Also, expect to read challenging mathematical content every day. Your instructors will be guiding and supporting along the way, but rarely will they spoon feed the answers. Be prepared to discover that you are good at math and your contributions to the class matter.

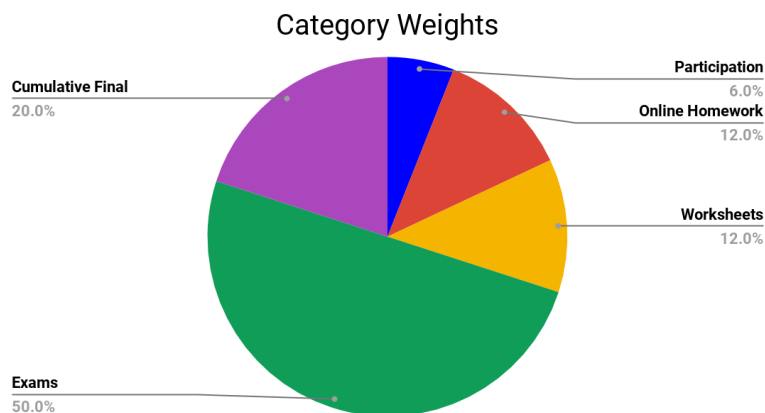
Math 130 Core Course Objectives: Students will be able to:

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 to GEO 3: Demonstrate computational skills and mathematical reasoning. <https://www.jccmi.edu/academic-deans/student-assessment/general-education-ado/>

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.

Grading Scale:		Grading Policy:
90 -100%	4.0	Class Participation: 6%
85 - 89%	3.5	Online CM Homework: 12%
80 - 84%	3.0	Worksheets: 12%
75 - 79%	2.5	Exam 1: 12.5%
70 - 74%	2.0	Exam 2: 12.5%
65 - 69%	1.5	Exam 3: 12.5%
60 - 64%	1.0	Exam 4: 12.5%
50 - 59%	0.5	Cumulative Final: 20%
0-49%	0.0	



Course Assignments

- **Connect Math Homework (online):** For each lesson covered, an online set of question will be assigned. Topics covered each week will have assignments due the following Tuesday. Assignments can be done late for a penalty of 5% for each day late. Assignments from each unit will not be accepted after the unit exam.
- **Participation:** The participation grade will be calculated from attendance and notebook checks
 - **Attendance:** The attendance portion of the grade will be total class sessions attended divided by total class sessions. Two “grade” days will be awarded for unavoidable absences. All other absences will count against your grade regardless of the reason. While the policy may seem harsh, being in class is essential for success.
 - **Notebook Check:** Before each exam, students will show their written work to an instructor. Students will receive a grade for completing the in class textbook.
- **Worksheets:** Paper worksheets will be given after each lesson. These worksheets might be completed during class or taken as homework. **Late worksheets will not be accepted! If you are absent when a worksheet is due, and you want credit – the worksheet must be emailed as a pdf attachment to me by the end of class time. I recommend the Genius app to use to convert pictures to pdfs**
- **Exams:** An exam will be administered after each unit. Students will be allowed a double side reference sheet of handwritten notes for each exam. Being absent for an exam without prior arrangements will result in a zero on the exam. In unforeseen emergencies official documentation is required to be allowed to make up the exam.
- **Cumulative Final Exam:** A cumulative final exam covering all four units will be administered on the last day of the course. Students are allowed each handwritten reference sheet from the unit exams and a fifth sheet written specifically for the final exam. Missing the final will result in a zero on the final exam.

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: Due to the collaborative format of the course, students are expected to attend every class session. Attendance is taken each session and included in the final grade calculation. If an absence is unavoidable, it is the student’s responsibility to learn the material missed. This material includes completing the course content in the textbook, working through the online assignments, and requesting/completing by the due date any paper quizzes. *If you are absent for more than 3 class periods in a row you will be dropped from the course or if you miss more than 50% of the class periods at any given time you will be dropped.*

Important Dates:

Date	Event
Jan. 13-May. 3, 2020	Semester Dates
Jan.13- Mar 1, 2020	1st 7 week semester class dates
Jan. 31, 2020	In-service Day (no classes)
May 3, 2020	End of Winter Semester
May 5, 2020	Grades Due

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."

Attendance: All instructors are required to take attendance daily and enter it in Jetstream 48 hours after a class meeting. This attendance requirement is to ensure compliance with Title IX. The following attendance "grades" will be entered in Jetstream:

- **Never Attended:** Assigned after the first day of class for not attending. The student is automatically dropped.
- **Last Day of Attendance:** Assigned after a student misses 3-4 classes. The student is automatically dropped.

Academic Honesty Policy:

Academic Honesty is defined as ethical behavior that includes student production of their own work and not representing others' work as their own, by cheating or by helping others to do so.

Plagiarism is defined as the failure to give credit for the use of material from outside sources.

Plagiarism includes but is not limited to:

- Submitting other's work as your own
- Using data, illustrations, pictures, quotations, or paraphrases from other sources without adequate documentation
- Reusing significant, identical or nearly identical portions of one's own prior work without acknowledging that one is doing so or without citing this original work (self-plagiarism)

Cheating is defined as obtaining answers/material from an outside source without authorization. Cheating includes, but is not limited to:

- Plagiarizing in any form
- Using notes/books/electronic material without authorization
- Copying
- Submitting others' work as your own or submitting your work for others
- Altering graded work
- Falsifying data
- Exhibiting other behaviors generally considered unethical
- Allowing your work to be submitted by others

Classroom Behavior Policy:

Instruction for this course occurs primarily from group and whole class discussions. It is expected the students and instructors will have different ideas. For the classroom to function effectively individuals and their ideas will be both heard and respected. Specific classroom behaviors will be determined collectively on the first day of class. Students are expected to follow the agreed guidelines for maintaining a safe and productive environment.

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, Connect Math homework, and more. The Center is located in Bert Walker Hall.

Connect Math: There are videos for all the “did you get it questions” as well as ungraded practice questions for each unit. These materials are found under the resources tab.

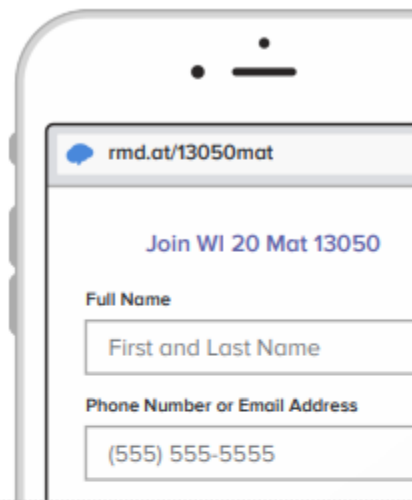
Each Other: Use your classroom groups as study groups and meet outside of class. The secret to success in higher education is working with your peers to master challenging material.

A If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

rmd.at/13050mat

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.



B If you don't have a smartphone, get text notifications.

Text the message @13050mat to the number 81010.

If you're having trouble with 81010, try texting @13050mat to (517) 618-0352.

** Standard text message rates apply.*



Winter 2020 1st 7-week Schedule (1/13-3/1)			
Day	Date	Unit.Lesson	Problems
M	13-Jan	Syllabus	
		1.1	
T	14-Jan	1.2	
		1.3	
W	15-Jan	1.4	
		1.5	
TR	16-Jan	1.6	
		1.7	
M	20-Jan	1.8	
T	21-Jan	Review	
W	22-Jan	2.1	
TR	23-Jan	2.2	
M	27-Jan	2.3	
T	28-Jan	2.4	
W	29-Jan	2.5	
TR	30-Jan	2.6	
		2.7	
M	3-Feb	Review	
T	4-Feb	3.1	
W	5-Feb	3.2	
TR	6-Feb	3.3	
M	10-Feb	3.4	
T	11-Feb	3.2-3.4	
W	12-Feb	3.5	
TR	12-Feb	3.6	
M	13-Feb	Review	
T	17-Feb	4.1 ,4.4	
W	18-Feb	4.4	
		4.5	
TR	19-Feb	4.6	
M	20-Feb	4.7	
T	24-Feb	Chapter 4 Review	
W	25-Feb	Final Exam Review	
TR	27-Feb	Final Exam	