

Math 030-53/54 Foundations of Math Course Syllabus

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MyMathLab Website:	www.mymathlab.com
MyMathLab Course ID:	Main65406
MyMathLab Access Code:	WSCMMV-PPRIL-LOACH-PYRAN-HELOT-GLEES
Class Time/Location:	Monday & Wednesday 11am-1:18pm JM211
Office Hours:	M/W 8-8:30am, 10:30-11am, 1:18-3pm T/TH 11:48am-2pm

Required Materials:

- Coursepack & MyMathLab Student Access (You will pick up at the bookstore)
- LARGE 3-ring binder for this class ONLY!
- Extra lined paper for in-class note taking & preview note taking
- Writing materials - LARGE eraser, pencils, highlighters, etc.
- Basic four-function or scientific calculator, TI-84 Plus preferred. Your cell phone may NOT be used as a 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.

Optional Materials: USB drive

Course Description: This course is designed to prepare non-STEM major students for MAT 130, Quantitative Reasoning. Cultivates student skills in interpreting, understanding, and using quantitative information. Develops facility with numeracy, problem solving strategies, proportional and statistical reasoning through a quantitative literacy lens. Fosters skills in reading and writing quantitative information. Emphasizes critical thinking and the use of multiple strategies in applied contexts.

Prerequisite: Accuplacer score or completion of MAT 019

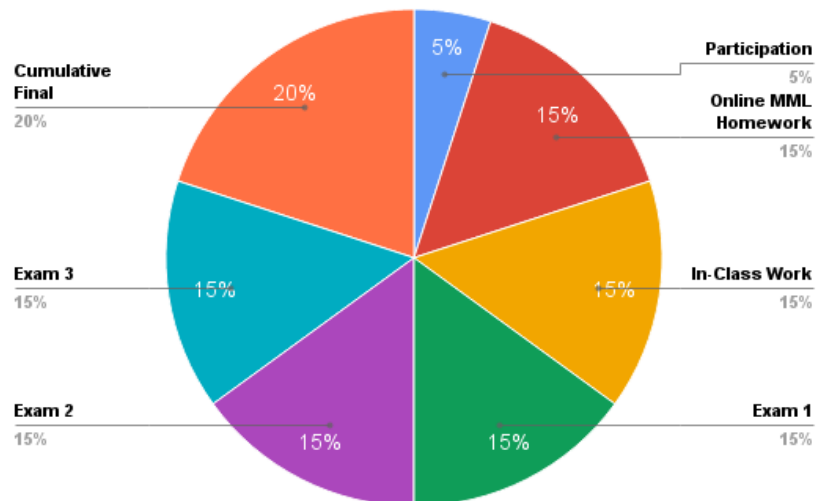
Math 030 Course Objectives: Students will be able to:

1. **Communication Objective:** Students will be able to interpret and communicate quantitative information and mathematical and statistical concepts using language appropriate to the context and intended audience.
 - Use appropriate mathematical language.
 - Read and interpret short, authentic texts of quantitative information including graphical displays.
 - Use quantitative information to make or critique an argument or to summarize information.
2. **Problem Solving Objective:** Students will be able to make sense of problems, develop strategies to find solutions, and persevere in solving them.

- Solve multi-step problems by applying strategies in new contexts or by extending strategies to related problems within a context.
- 3. Reasoning & Evaluation Objective:** Students will be able to reason, model, evaluate, and make decisions with mathematical, statistical, and quantitative information.
- Make decisions about situations in which quantitative information must be considered along with other factors.
 - Present short written or verbal justifications of decisions that include appropriate discussion of the mathematics involved.
 - Identify mathematical or statistical errors, inconsistencies, or missing information in arguments.
- 4. Technology Objective:** Students will be able to use appropriate technology in a given context.
- Use a spreadsheet to organize quantitative information and make repeated calculations using simple formulas.
 - Use internet- or calculator- based tools appropriate for a given context.
- 5. Learning Strategies Objective:** Students will improve metacognition and self-regulation.
- Take responsibility for their own mathematical development.
 - Utilize self-management practices as it pertains to their mathematics class such as time management, meeting deadlines, attending class, etc.
 - Work interdependently with peers, the instructor and other college support systems.
- 6. Numeracy Objective:** Students will develop number sense and the ability to apply concepts of numeracy to investigate and describe quantitative relationships and solve real world problems in a variety of contexts.
- Solve problems and interpret results involving: fractions, decimals, percents, unit analysis, estimation, magnitude, measurement, and inequalities.
 - Demonstrate operation sense and communicate verbally and symbolically with real numbers.
 - Read, interpret, and make decisions about data summarized numerically, in tables, and in graphical displays.
- 7. Proportional Reasoning Objective:** Students will use proportional reasoning to solve problems that require ratios, rates, proportions, and scaling.
- Represent, and use ratios in a variety of forms and contexts.
 - Determine whether a proportional relationship exists based on how one value influences another.
 - Analyze, represent, and solve real-world problems involving proportional relationships, with attention to appropriate use of units.
- 8. Algebraic Competence, Reasoning, and Modeling Objective:** Students will transition from specific and numeric reasoning to general and abstract reasoning using the language and structure of algebra to investigate, represent, and solve problems.
- Demonstrate understanding of the meaning and uses of variables as unknowns, in equations, in simplifying expressions, and as quantities that vary, and use that understanding to represent quantitative situations symbolically.
 - Describe, identify, compare, and contrast the effect of multiplicative or additive change.
 - Analyze real-world problem situations, and use variables to construct and solve equations involving one or more unknown or variable quantities.
- 9. Probabilistic Reasoning Objective:** Students will understand and critically evaluate statements that appear in the popular media.
- Interpret statements about chance, risk, and probability that appear in everyday media.
 - Identify common pitfalls in reasoning about relative and absolute risk in terms of probability.
- 10. Application Objective:** Students will understand, interpret, and critically evaluate quantitative information in order to make decisions in their financial and civic life.
- Identify and critique erroneous, misleading, or conflicting information.
 - Topics will be selected from: Compound interest, consumer debt, personal finance, social policies, economics, or environmental issues.

Course Requirements:

<u>Grading Scale:</u>		<u>Grading Policy:</u>
90 -100%	4.0	Class Participation: 5%
85 - 89%	3.5	Online MML Homework: 15%
80 - 84%	3.0	In-Class Work, Quizzes, etc.: 15%
75 - 79%	2.5	Exam 1 (lessons 1-4): 15%
70 - 74%	2.0	Exam 2 (lessons 5-9): 15%
65 - 69%	1.5	Exam 3 (lessons 10-14): 15%
60 - 64%	1.0	Cumulative Final (lessons 1-16): 20%
50 - 59%	0.5	
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:

- These assignments must be done outside of class time on a computer with internet access at MyMathLab (reachable through <http://www.mymathlab.com>).
- There is a practice assignment for each lesson in the course.
- 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 the practice assignments before you submit them (up until the 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 day over the due date for any questions not already completed. The 5% penalty 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. 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.

Participation: Your points for this area are based on attendance for both the lecture and the lab. There will be 100 points that can be earned by attending the lab and 100 points that can be earned by attending the lecture. The points for the lecture portion are up to the discretion of the course instructor. The points earned for lab attendance will be awarded as follows:

Attendance	Points Earned
1 missed lab	75 points
2 missed labs	50 points
3 missed labs	25 points
4+ missed labs	0 points

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 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 online homework and take-home quizzes in particular are 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...

3. Turn OFF your cell phones, no chewing tobacco, come on time, stay the full time, be prepared to answer questions and work together.

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 030. 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!