

## Syllabus Math 106.07, Quantitative Reasoning

**Instructor:** Ms. Michelle Burke

**Office Hours and location:** Exploratory Hall Room 4309

**Email:** mburke20@gmu.edu

**Text:** Mathematical Ideas, by Miller, Hereen and Hornsby, 13<sup>th</sup> ed Pearson, 2016 ISBN: 978-0-321-97707-6

**Calculators:** You will need a Scientific Calculator for the course.

The textbook bundled with a MyMathLab access code can be purchased in the campus bookstore.

Alternatively, the ebook and MyMathLab access code which will provide access to a digital version of the text and the on line tools can also be purchased online (<http://www.mymathlab.com>). It is strongly recommended that you purchase the physical text as most students are more successful using a physical book.

**Course Description:** This course meets the quantitative reasoning requirement, one of the Foundation requirements of the University General Education program. The goal of the Foundation requirement is to help ensure that students are equipped with the tools and techniques necessary to succeed in college and throughout their lives and careers.

The learning objectives for this requirement are:

1. Students are able to interpret quantitative information (i.e., formulas, graphs, tables, models, and schematics) and draw inferences from them.
2. Given a quantitative problem, students are able to formulate the problem quantitatively and use appropriate arithmetical, algebraic, and/or statistical methods to solve the problem.
3. Students are able to evaluate logical arguments using quantitative reasoning.
4. Students are able to communicate and present quantitative results effectively.

**Disability statement:** If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Resources at 703.993.2474. All academic accommodations must be arranged through that office.

**Tutoring Center:** The Math Tutoring Center is located in the Johnson Center Room 344. Help is available on a walk-in basis. For hours of operation see <http://math.gmu.edu/tutor-center.php>

**University Honor Code:** You are expected to follow the GMU Honor Code <http://oai.gmu.edu/the-mason-honor-code/>

MyMathLab is a powerful online, homework, tutorial and assessment system that accompanies your new textbook. Students can take assessments, and receive personalized study plans based on their results. The study plan diagnoses weaknesses and links students to tutorial exercises for objectives they need to study. In many cases students can also access video clips, PowerPoint presentations, and other animations for each section and from selected exercises.

*MyMathLab* is NOT a program operated by GMU. If you are experiencing technical difficulties using the program, then you can email or "chat" with Customer Support directly through the Pearson Education Customer Service website. Go to <http://247pearsoned.custhelp.com> for more information. Help is available 24 hours a day, seven days a week. You could also call the Pearson Customer Service and **Technical Support number at 800-677-6337**.

## Grading:

- Three exams (50% of course grade)
- Written and online homework (20%)
- Quizzes or class projects (5%)
- Final Exam (25%)

The grading scale will be: A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: below 60% .  
+ or – may be attached to the grade for *approximately* the upper or lower 2 points at the discretion of the instructor.

**Homework:** We will be using MyMathLab for online homework. Information about registering and using the MyMathLab website is available here:

**Blackboard:** Blackboard will be used extensively throughout the semester. All announcements, course updates, changes in schedule, materials and resources will be posted on Blackboard.

**Inclement Weather Policy:** If the University is closed due to inclement weather, any tests or quizzes scheduled will be postponed to the next class meeting.

Week	Topic	Sections Covered
1	Inductive/Deductive Reasoning, Problem Solving and Sets	1.1, Ch2
2	Set Theory	Ch 2
3	Logic	Ch 3
4	Logic TEST 1	Ch 3
5	Decimals, Percent and Begin Counting	6.5, Ch 10
6	Counting and Begin Probability	Ch 10, 11
7	Probability	Ch 11
8	Probability TEST 2	Ch 11
9	Statistics	Ch12
10	Statistics	Ch12
11	Algebra Review and Regression Test 3	7.1,2
12	Financial Math	13.1
13	Financial Math	13.1
14	FINAL EXAM Thursday May 10 (1:30 – 4:15 pm) <a href="https://registrar.gmu.edu/calendars/spring-2018/final-exam/">https://registrar.gmu.edu/calendars/spring-2018/final-exam/</a>	