

**FALL 2017 SYLLABUS**  
**Math 106-010, Quantitative Reasoning**

**Instructor:** Christopher J. Paldino  
**Room/Times:** 7:20-8:35 pm in Robinson B202  
**Office:** 4309 Exploratory Hall (4<sup>th</sup> Floor)  
**Office Hours:** Tuesdays, 8:35-9:35 pm in Robinson B202, and by appointment  
**Phone/Text:** 703-203-8661  
**Email:** cpaldino@gmu.edu

**Textbook:** Mathematical Ideas, by Miller, Hereen and Hornsby, *Custom Edition*, Pearson, 2012 (ISBN: 9781256715825). A **MyMathLab access code** is **required** for this 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, and we made the custom edition to reduce the total cost to you.

**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.

**Grading:** There will be a midterm exam, a final exam, and several quizzes. If the midterm exam is missed, the final exam grade will be used to replace the midterm exam grade. Each of the two exams are worth 35% of the course grade. The remaining 30% of the course grade will be comprised of quizzes (administered through MyMathLab or in class), or other projects (as assigned). MyMathLab will be utilized for this course. The **MyMathLab Course ID** is **paldino76349**.

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 the upper or lower 2 points in each range

**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/>

**Homework/Quizzes:** We will be using MyMathLab for online homework and online quizzes. Information about registering and using the MyMathLab website is available on Blackboard.

**Calculators:** You will be required to have a Scientific Calculator for the course.

Week	Topic	Sections Covered
1	Inductive/Deductive Reasoning, Problem Solving and Sets	Ch1, Ch2
2	Set Theory	Ch 2
3	Logic	Ch 3
4	Logic	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	<b>MIDTERM EXAM</b>	
9	Probability Exponents and Scientific Notation	Ch 11
10	Statistics	Ch 12
11	Statistics	Ch 12
12	Statistics	Ch 12
13	Basic Algebra, Graphs, Functions	Ch 7
14	Basic Algebra, Graphs, Functions and Regression	Ch 7 and Ch 12 extension on Regression
15	Financial Math & Review	Ch 13
16	<b>FINAL EXAM – 7:30-10:15 pm, Tuesday, December 19 in Robinson B202</b>	

#### Important Dates

- September 4: Labor Day Holiday University Closed
- September 29: Final Drop Deadline
- October 2-27: Selective Withdrawal Period
- October 10: No class (Columbus Day Recess)
- November 22-26: Thanksgiving Holiday
- December 07: Last Day of Classes
- December 19: Final Exam

#### Contact Policy:

*E-mail:* I ordinarily respond to email communication within one business day.

*Phone/Text Messages:* Although I try to check phone messages during the week, the preferred method of communication will always be e-mail. I will make every effort possible though to return phone/text messages within 1-2 business days.

**THIS SYLLABUS IS A TENTATIVE PLAN FOR THE COURSE. THE INSTRUCTOR RESERVES THE RIGHT TO ALTER ANY ITEM ON THIS DOCUMENT AS DEEMED NECESSARY.**