Syllabus Math 106-008, Quantitative Reasoning

Instructor: Mohammed Snoussi, Department of Mathematical Sciences

Office Hours and location: 6:00 pm- 7:00 pm on Monday and Wednesday, Exploratory Hall, 4th Floor, Room 4309.
Email: msnoussi@gmu.edu
Textbook: Mathematical Ideas, by Miller, Hereen and Hornsby, 13th edition, ISBN: 9781323919385.

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/

Homework: We will be using MyMathLab for online homework, and practice exercises from the textbook. The course ID: snoussi56502
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: The grade will consist of quizzes, homework, three in class tests, cumulative project, and in class cumulative final exam. These will count towards your grade as follows:

- Three tests 30%
- Online homework 25%
- Cumulative Project 10%
- Quizzes 10%
- Final Exam 25%

Class tests: The Class Tests will be scheduled as follows (although the dates may be modified later in the semester) will be held in class on the following days:
Test 1: Wednesday February 27
Test 2: Wednesday March 27
Test 3: Wednesday April 24

Final exam: It will be a cumulative exam, held on Wednesday May 8 from 7:30 - 10:15 pm

The grading scale will be: A: 90-100%; B: 80-89%; C: 70-79%; D: 60-69%; F: below 60%.

Below is a schedule for this course

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	Ch 3
5	Decimals, Percent, Linear Equations and it Applications	6.5, 7.1, 7.2
6	Counting Methods	Ch 10
7	Counting Methods	Ch 10
8	Probability	Ch 11
9	Probability	Ch 11
10	Statistics	Ch12
11	Statistics	Ch12
12	Financial Math	13.1
13	Financial Math	13.2
14	FINAL EXAM – Wednesday May 8 from 7:30 pm- 10:15 pm	