MATH 106-016 – Quantitative Reasoning Fall 2013

(http://math.gmu.edu/~robeirne/math106)

PREREQUISITE: Specified score on Math Placement Test, or successful completion

of self-paced Basic Math Program offered by Math Literacy Center

INSTRUCTOR: Richard O'Beirne, Department of Mathematical Sciences

Telephone: 703-993-1467

Email: ROBEIRNE@GMU.EDU Office: Exploratory Hall, 4th Floor

MEETINGS: Wednesdays from 7:20 p.m. to 10:00 p.m. from August 28, 2013

through December 4, 2013 in KH210 (except no class on 11/27 -

Thanksgiving break)

OFFICE HOURS: 5:00 p.m. – 5:55 p.m. on Mondays and Wednesdays, and by

appointment as necessary.

TEXTBOOK: "Mathematical Ideas" (Custom Edition for GMU) by Miller,

Heeren and Hornsby. Purchase of the MyMathLab access code is

optional but recommended.

MATERIAL: The course will cover an assortment of material contained in the

following chapters:

Chapter 1 – The Art of Problem Solving

Chapter 2 – The Basic Concepts of Set Theory

Chapter 3 – Introduction to Logic

Chapter 6 – The Real Numbers and Their Representations

Chapter 7 – The Basic Concepts of Algebra

Chapter 10 – Counting Methods

Chapter 11 – Probability Chapter 12 – Statistics

Chapter 13 – Personal Financial Management

GRADING: There will be 3 in-class, one-hour tests. The lowest of the three

will be dropped. The remaining two will account for 60% of the grade. The final examination on December 11 will count for the remaining 40%. I will also give occasional quizzes. The quizzes will not count toward the grade. There will be no make-up exams.

A web site has been set up for the course. On it I will post announcements relevant to the course such as the syllabus, information on tests (review sheets) and solutions, lists of practice problems, etc. You can find it by going to http://math.gmu.edu (which is the web site for the math department). On the left side you will see "Quick Links", and below that a link to "Course Home Pages". Clicking on that will reveal a link for this course.

I recommend that you buy the abbreviated text together with the MyMathLab software at the GMU bookstore. The cost of this abbreviated version of the text together with the

software is \$112. The software access by itself would cost you \$80. You will find the online access very helpful for practicing the material.

You will need a calculator which has an e^x key on it (all scientific calculators have this). You do not need to have a graphing calculator for this course.

The Honor Code is taken seriously in this class. Any work that you do for credit, on the tests, must be solely your own.