Math 1001 – Quantitative Skills & Reasoning – 3 Credit Hrs
Section 10, Fall 2015
TTh 12:30-1:50 pm; Anthropology Rm #7

Instructor: Mr. Ricky Johnson
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Office Hours: 10:00-12:00 on Wed/Fri; 2:00-4:00 on Wed/Thurs; or by appointment

Prerequisites: None.
Course Description: This course is an alternate in Area A of the Core Curriculum and is not intended to supply sufficient algebraic background for students who intend to take Precalculus or the Calculus sequence for science majors. This course places quantitative skills and reasoning in the context of experiences that students will likely encounter. It emphasizes processing information in context from a variety of representations, understanding of both the information and the processing and understanding which conclusions can be reasonably determined.


MyMathLab: Homework assignments will be done online. You will be required to purchase a subscription to MyMathLab.com. This is a website which includes (along with the homework assignments) several useful resources that can help you with this course. To activate a subscription on MyMathLab.com, you will need to enter the following course ID when you register: johnson77959. To purchase the subscription you can either buy an access code at the bookstore or pay directly on the website. The subscription lasts for one semester and grants you access to an online version of the textbook. Therefore, a physical copy of the textbook is not required. Please use your UWG email address when registering. Detailed instructions on how to enroll in MyMathLab.com are on courseDen at https://westga.view.usg.edu.

Calculator: You will need a calculator for this course; any type will do.

Math Tutoring Center: Located in room 205 on the second floor of the Boyd Bldg, the MTC offers personalized help with math. No appointment necessary, just walk in.

Learning Outcomes: Students will be able to demonstrate a stronger understanding of:
1. Mathematical ideas
2. Appropriate usage of mathematical vocabulary, language, and notation
3. How to use mathematical reasoning to analyze quantitative information and develop procedures for solving problems
4. How to employ quantitative skills to critique mathematical arguments
5. How to interpret and calculate financial information including interest and loans
6. Of analyzing probability and statistical results in society
7. The pervasiveness of mathematics in college, career, and life in general
CourseDen: I will be using CourseDen at https://westga.view.usg.edu. You should check courseDen regularly for any class announcements. I use CourseDen to post grades for tests, assignments, quizzes, final exam as well as your final course grade; to post worked solutions for tests and quizzes; to post a list of practice problems (not the problems, just the list) from the textbook.

Attendance: Attendance is mandatory and is important in order to do well in this course. Roll will be taken at every class. If you are late and miss the roll, you are considered to be absent. An attendance bonus of 2% will be added to your final grade if you have no more than 2 unexcused absences for the entire semester. An unexcused absence is any absence other than one where you have documentation for an illness or a sponsored university event (e.g. athletes). If you miss a class you are still responsible for all material you may have missed including lecture notes, announcements, assignments, etc.

Grading Policy: Final grade will be based on the following scale: (A=90-100%, B=80-90%, C=70-80%, D=60-70%, F=<60).

<table>
<thead>
<tr>
<th>4 Tests</th>
<th>40% (10% each)</th>
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<tbody>
<tr>
<td>Test 1 Tuesday, September 15</td>
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<tr>
<td>Test 2 Thursday, October 8</td>
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<td>Test 3 Thursday, October 9</td>
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<td>Test 4 Tuesday, December 1</td>
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Quizzes
Vocabulary Journal 10%
Homework 20%
Final (Comprehensive) Thurs, Dec 10 20%
Total 100%

Tests: The test dates are tentative and are subject to change. You will need a scantron form for each test and the final. Make-up tests will only be given for students with a documented excused absence. In that case, students should contact the instructor in advance, if possible, to reschedule the make-up test. Note, that make-up tests will usually be more difficult. There will be no make-up final exam.

Quizzes: There will be approximately 4-6 quizzes throughout the semester. Most of the quizzes will be announced beforehand, however there may be an unannounced pop quiz. Some of the quizzes will be group quizzes (i.e. you may discuss your solutions with each other), while other quizzes will be individual. Some quizzes might be take-home. The lowest quiz score will be dropped. Consequently, there will be no make-up quizzes for ANY reason.

Vocabulary Journal: The journal will consist of a list of mathematical terms, their definitions, and an example demonstrating the term’s concept. Additional instructions will be provided on CourseDen. It will be due in 4 installments (each due at test dates).
**Homework Assignments:** There will be weekly homework assignments on the Mymathlab website. Each posted assignment will have a due date. Up until the due date you can rework problems for an unlimited number of times to improve your score. Once the due date has passed, you will no longer have access to the problems (although it will allow you to practice and review them without changing your score as long as you had attempted them in the first place.) The lowest 3 homework scores will be dropped. There will be no extensions on the due dates (unless changed for the whole class). So if you can’t get to a homework assignment for any reason, then that will have to be one of your drop scores.

**Practice Problems:** Practice problems from the textbook will be assigned to help you study the material covered in class. These problems are NOT to be turned in. They are for practice only. I will list the problem numbers on courseDen.

**Other Course Policies:**
1. Cell phones should be set to an inaudible setting or turned off.
2. All electronic correspondence between student and instructor should be by way of your UWG email account.
3. Arriving late and leaving early is discouraged as it is distracting and disrespectful.
4. You need to be prepared to study a minimum of 6-8 hours every week outside of class in order to do well in this course.
5. Additional course policies: http://tinyurl.com/UWGSSyllabusPolicies

**Disabilities:** Students with documented disabilities (through West Georgia’s Disability Services) will be given all reasonable accommodations. Students must take the responsibility to make their disability known and request academic adjustments or auxiliary aids. Adjustments needed in relation to test-taking must be brought to the instructor’s attention well in advance of the test (**let me know at least 1 week prior to a test**).

**Important Dates:**
- August 24 – August 26: Open Drop
- August 24 – August 27: Open Add
- September 7: Labor Day (no classes, offices closed)
- October 14: Last day to withdraw with a grade of W
- November 23-27: Thanksgiving break (no classes)
- December 3: Last Day of Class
- December 10: Final Exam Thursday, 11:00 am – 1:30 pm

The following sections of Blitzer’s book will be covered in this order (deviations may occur due to any unforeseen time constraints):

1.1 Inductive and Deductive Reasoning
1.2 Estimation, Graphs, and Mathematical Models
1.3 Problem Solving
2.1 Basic Set Concepts
2.2 Subsets
2.3 Venn Diagrams and Set Operations
2.4 Set Operations and Venn Diagrams with Three Sets
2.5 Survey Problems

Test 1

6.1 Algebraic Expressions and Formulas
6.2 Linear Equations in One Variable and Proportions
8.1 Percent, Sales Tax, and Discounts
8.2 Income Tax
8.3 Simple Interest
8.4 Compound Interest
8.5 Annuities, Methods of Saving, and Investments
*8.6 Cars
*8.7 The Cost of Home Ownership

Test 2

11.1 The Fundamental Counting Principle
11.2 Permutations
11.3 Combinations
11.4 Fundamentals of Probability
11.5 Probability with the Fundamental Counting Principle, Permutations, and Combinations
*9.1 Measuring Length; The Metric System
*9.2 Measuring Area and Volume

Test 3

3.1 Statements, Negations, and Quantified Statements
3.2 Compound Statements and Connectives
3.3 Truth Tables for Negation, Conjunction, and Disjunction
12.1 Sampling, Frequency Distributions, and Graphs
12.2 Measures of Central Tendency
12.3 Measures of Dispersion
12.4 The Normal Distribution
*12.5 Problem Solving with the Normal Distribution
*12.6 Scatter Plots, Correlation, and Regression Lines

Test 4

*These sections covered if time permits