

Math1001 – Quantitative Skills & Reasoning
Section 10, Spring 2017
T/R 9:30-10:45
Prerequisites:None

INSTRUCTOR

Instructor: Carrie Carmack
Office: BOYD 104B (1st floor)
Phone: (678) 839-5408

Email: ccarmack@westga.edu

Office Hours

Tuesday
1:50 PM – 3:30 PM

Wednesday
9:30 AM – 11:30 AM
1:00 PM – 3:00 PM

Thursday
1:50 PM – 3:30 PM

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.

REQUIRED COURSE MATERIALS

- 1) **Text: Thinking Mathematically (6th edition) by Robert Blitzer, Pearson/Prentice-Hall**
- 2) **Notebook/Paper: students will need to purchase a 3-ring binder and notebook paper for taking notes.**
- 3) **Calculator: scientific or graphing calculators will be permitted. Students will NOT be allowed to use phones/tablets/etc as a calculator substitute.**

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.

COURSE ASSESSMENT

Students' mastery of course learning outcomes will be assessed using the following methods:

1) **Exams:** There will be 5 in-class exams during the semester.

****Students may not take an exam late. If a student misses an exam, for any reason, their final exam grade will replace the score.**

2) **In-Class assignments/quizzes:** Students will be given assignments in class during the semester. A student must be present in class, when the assignment is delivered, to receive credit on the assignment. The assignment may be announced or random. If a student misses an in-class assignment, they will receive a 0%

****The lowest 3 in-class assignments will be dropped.**

3) **Final Exam:** There will be a comprehensive final exam at the end of the semester. The final exam will replace your lowest test grade.

CourseDen: I will use CourseDen to post your exam grades, in class assignment grades, and final exam grade.

ASSESSMENT GRADING:

In-Class Assignments:	25%
Exams:	50%
Final:	25%

Grading Scale:

90% - 100%:	A
80% - 89%:	B
70% - 79%:	C
60% - 69%:	D
<60%:	F

***I WILL NOT INCREASE GRADES ON AN INDIVIDUAL BASIS. PLEASE DO NOT ASK.**

***WHEN GRADES ARE CALCULATED, I WILL ROUND ACCURATELY (89.4% = B, 89.5% = A)**

OTHER COURSE INFORMATION

- 1) **Homework:** homework will be assigned but not taken for a grade. It is the student's responsibility to complete the homework assignments to retain the content. Failure to do so can negatively impact your grade.
- 2) **Extra Credit/Bonus:** There is not extra credit or bonus offered in the class. In addition, students may not turn in work late for partial credit, or do "extra" work for additional credit.
- 3) **Attendance:** Attendance will be taken, and at times, may be used for an in-class assignment. If a student misses a class and an in-class assignment was given, the student may not make it up at a later time (regardless of the reason for the absence).

***It is the student's responsibility to obtain any information they missed when absent.**

***Instructor notes will not be given to any student, for any reason.**

COURSE POLICIES AND INFORMATION

1) University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link:
http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf

It contains important material pertaining to university policies and responsibilities. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support and Online Courses, please review the information found in the Common Language for Course Syllabi documentation

at http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf.

2) Academic Honesty

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense. A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported.

Definitions of academic dishonesty are defined in the student handbook: www.westga.edu/handbook/

3) Disabilities Act/Accessibility for the Course

If you are a student whom is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content.

Please contact UWG Accessibility Services for more information.

4) Student Conduct

Students are expected to abide by the guidelines detailed in the university catalog. Respect and courtesy are required of all students while in the classroom. The following is also mandatory:

- a) Cell phones and laptops will not be permitted in class, unless prior arrangements have been made with the instructor (emergencies, disabilities, etc). Continued use of cell phones/laptops will result in your dismissal of class.
- b) Students are required to be courteous to others and the instructor. If a student is being disrespectful or disruptive, they will be asked to leave.
- c) Arriving late and learning early is highly discouraged as it is distracting and disrespectful.

IMPORTANT DATES:

Drop Ends:	Wednesday, January 11th
Last Day to Withdrawal with W:	Thursday, March 2nd
Last Day of Class:	Monday, May 1
Final Exam Period:	May 3-9 (see The Scoop for specific times)
No classes:	Monday, January 16th (MLK Day)
	March 20th-24th (Spring Break)

The following sections of the book will be covered in this order.

Note: this schedule may be changed at any time per the instructor's discretion. Any changes will be announced in class.

Section

- 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: Will cover sections 1.1-2.5

- 3.1 Statements, Negations, and Quantified Statements
- 3.2 Compound Statements and Connectives
- 3.3 Truth Tables for Negation, Conjunction, and Disjunction
- 3.4 Truth Tables for the Conditional and Biconditional
- 3.5* Equivalent Statements and Variations of Conditional Statements

TEST 2: Will cover sections 3.1-3.5*

- 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

TEST 3: Will cover sections 8.1-8.6*

- 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

TEST 4: Will cover sections 11.1-11.5

- 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 5: Will cover sections 12.1-12.6*

*These sections will be covered if time permits.