

UNIVERSITY OF WEST GEORGIA – FALL 2017 SEMESTER

Course: MATH 1001 section 12, Quantitative Skills and Reasoning - 3 credit hours

Course Description: This course is an alternative 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 sequences for mathematics and science majors. This course places quantitative skills and reasoning in the context of experiences that students will be likely to encounter. The course emphasizes processing information in context from a variety of representations, of both the information and the processing, and understanding which conclusions can be reasonably determined.

Learning Outcomes: Upon successful completion of this course, students will demonstrate:

1. Interpret a wide variety of quantitative information.
2. Use mathematical reasoning to analyze quantitative information, and use it to reach conclusions in real-world contexts.
3. Understand how mathematics and quantitative reasoning are an integral part of society and history.
4. Process information and develop procedures for solving problems.
5. Use different units and formats of numbers including metric system and percentages.
6. Understand and deal with uncertainty in mathematics.
7. Be able to interpret and calculate financial information including interest and loans.
8. Understand and interpret statistical results found in the media and society.

Instructor: Mr. Jim Bellon jbellon@westga.edu (but best way to contact me is through UWG-CourseDen)

Office & Hours: Boyd 104C Mon 11am-12pm, 1-1:55pm Wed 1-1:55pm other hours by appointment
Boyd 205 Math tutoring Center Fridays 11am – 12pm

Class Meets: MW 2 – 3:15pm Boyd Building room 306

Materials Needed: A calculator is required, any kind will do. Bring a notebook to class.
Students should have access to the textbook (but owning one is not required)
“Thinking Mathematically” 6th edition by Blitzer; from Pearson Publishers.

Grading: In class there will be 3 tests (test avg counts 40%), a **cumulative** Final exam (20%),
Homework (avg counts 20%), In class group worksheets (avg counts 20%).
The lowest HW will be dropped. Final grades will be determined as follows:

89.1% and up	= A
79.3% to 89.0%	= B
69.5% to 79.2%	= C
60.0% to 69.4%	= D
59.9% and below	= F

HW Assignments: Every week or two there will be HW assignments. You must write out your work NEATLY and hand in by the due dates. The HW will be worksheets. NO WORK = FAIL!!

****Group Learning:** In this section of MATH 1001 we will be utilizing a non-standard method of instruction in addition to standard lectures. Every week we will break into groups and discuss concepts, work problems, and interact and help one another. There will be several graded group worksheets do be done in class. They will require collaboration, thinking, and communicating results. If you miss one of these for a valid reason, you must notify me immediately and you may complete it on your own.

Last Day to Withdraw: *September 29th* Any student who withdraws after this date will receive a grade of “F”.

Attendance Policy: **You will be allowed TWO absences.** For every absence beyond those mentioned above, your overall course grade will be lowered by 5%. Students are expected to attend class and complete all work when assigned. Students are responsible for the topics covered and assignments due whether present or not. “**I was not here**” is **NOT** a valid excuse.

Make-up policy: HW assignments, if handed in late, will receive a penalty of 25 % for each class meeting it is late. Makeups for in class assignments and exams may be granted with a VALID and documented excuse, but only if you contact me before or the same day as the assignment/exam.

Extra-credit policy: **There will be NO extra credit given, period!** Points can be earned only as stated above.

Class Rules: You are to turn off your cellular phone during the class. You are not allowed to use your phone as a calculator. Please respect your instructor and other students in the class. No talking or any distracting behavior. If you fall asleep in class, you will be asked to leave. It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students WILL NOT be tolerated!! Any serious violations will be reported; appropriate actions will be taken; and consequences will result. Please see the general policies for UWG at <https://www.westga.edu/UWGSyllabusPolicies>

Meeting with:
Instructor can be beneficial and is encouraged. Meeting should occur during the instructor's office hours, whenever possible. If these hours conflict with a student's schedule, then appointments should be made. The meeting time is not to be used for duplication of lectures that were missed; it is the student's responsibility to obtain and review lecture notes before consulting with the instructor. As your instructor, I am very concerned about the student's achievement and well-being and encourages anyone having difficulties with the course to contact me for extra help.

Note: If you have a documented disability, which will make it difficult for you to carry out the course work as I have outlined and / or if you need special accommodation or assistance due to disability, please contact me as soon as possible.

Math Tutoring Center: Boyd 205 Hours are Mon/Wed 9am-8pm, Tue/Thurs 9am-7pm, Fridays 9am – 3pm. You can just walk in and get help. There are 2-4 tutors on duty who will rotate between students. There are also textbooks and computers to use while you are in the tutoring center.

If you desire personal one-one help, you can also visit the Center For Academic Success in the UCC. They offer free tutoring sessions by appointment.

This is a tentative schedule of assignments and topics to be covered in class sessions. Changes will be made as needed. Once we finish a section, we will immediately move along to the next section. It is recommended that you read over text sections BEFORE we cover them in class. After we cover topics, you should complete assignments and do any extra practice or get help as needed. Don't wait until its too late (like after doing bad on a test).

8/9	Introduction, Sec 1.1 Reasoning, 1.2 Estimation
8/14 – 8/16	Sec 1.3 Problem Solving, 2.1 Sets Concepts group learning [Wed 8/16]
8/21 – 8/23	HWsheet #1 due Monday 8/21 Sec 2.2 Subsets, 2.3 Venn Diagrams, 2.5 Survey Problems group learning [Wed 8/23]
8/28 – 8/30	HWsheet #2 due Monday 8/28 Group worksheet #1 Monday 8/28 Sec 3.1 Logic Statements, 4.4 early Number Systems Review for test #1
9/4 – 9/6	Monday 9/4 LABOR-DAY - No Class Test #1 on Wednesday September 6th (chapters 1 and 2, sec 3.3, 4.4)
9/11 – 9/13	Sec 8.1 Percent & Tax, 8.2 Income Tax group learning [Wed 9/13]
9/18 – 9/20	HWsheet #3 due Monday 9/18 Sec 8.4 Compound Interest, 8.5 Annuities group learning [Wed 9/20]
9/25 – 9/27	HWsheet #4 due Monday 9/25 Sec 8.7 Home Ownership, 8.8 Credit Cards Group worksheet #2 Wednesday 9/27
10/2 – 10/4	HWsheet #5 due Monday 10/2 Sec 11.1 Counting Principle, 11.2 Permutations, 11.3 Combinations, group learning [Wed 10/4]
10/9 – 10/11	Review for test #2 Test #2 on Wednesday October 11th (chapter 8, sec 11.1, 11.2, 11.3)
10/16 – 10/18	Sec 11.4/11.5 Probability, 11.6 Odds group learning [Wed 10/18]
10/23 – 10/25	HWsheet #6 due Monday 10/23 Sec 11.8 Expected Value, group learning [Mon 10/23] Group worksheet #3 Wednesday 10/25
10/30 – 11/1	Sec 12.1 Distribution/Graphs, 12.2 Measures of Center group learning [Wed 11/1]
11/6 – 11/8	HWsheet #7 due Monday 11/6 Sec 12.3 Dispersion, 12.4 Normal distribution, 12.6 Correlation group learning [Wed 11/8]
11/13 – 11/15	HWsheet #8 due Monday 11/13 Group worksheet #4 Monday 11/13 Review for Test #4
11/20 – 11/24	THANKSGIVING BREAK
11/27 – 11/29	Test #3 on Monday November 27th (sec 11.4-11.8 and chapter 12) FINAL REVIEW
Mon 12/4	FINAL EXAM (all chapters) 2 – 4 pm in our classroom.