MATH 1001-08 - Quantitative Skills and Reasoning

MWF 8:50am - 9:40am Boyd 307 Spring 2019

Hours Credit: 3 hours
Prerequisites: None

COURSE INSTRUCTOR

Instructor: Irina Pashchenko
Office: Library #311
Email: ipashche@westga.edu
Phone: (678) 839-3939

OFFICE HOURS: MWF 3:30 pm – 4:30 pm Library #311
MW 12:30 pm – 1:00 pm Math Lab Boyd #205

REQUIRED COURSE MATERIALS
PowerPoint presentations with all covered lessons are posted online in your CourseDen accounts The PowerPoint files correspond to the book ***Thinking Mathematically, 6e, by Robert Blitzer (Pearson/Prentice Hall)*** which is optional.
You are required to have a MyOpenMath online account for your homework assignments.

Courses 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 Pre-calculus 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.

Learning Outcomes
Upon successful completion of this course students will demonstrate the ability to:
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.

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

Homework
All homework assignments will be completed online through the MyOpenMath website. Be sure to understand all problems and be able to show all steps in the solutions if they are required. The Course ID is printed in the MyOpenMath instruction that is included at the end of the syllabus. Each homework assignment is due on the corresponding chapter exam day and will not be available afterward. After a particular assignment's deadline has passed, I will NOT participate in any discussion (in person, by phone, or email) about the deadline.

Tests
There will be six in-class tests. All tests will be taken during the regular class time in the regular classroom. Books and notes will not be allowed on any tests. Each student may use one two-sided handwritten by himself (herself) page of notes for the tests. Missed tests will receive a grade of 0. Two lowest test grades will be dropped. THERE WILL BE NO MAKE UPS. We will have a review session before each test. One regular narrow green scantron form will be required for each test and the final exam.

Final Exam
There will be a comprehensive final exam at the end of the semester given in the regular classroom. The exam will be given on Monday, May 6, 8:00am – 10:00 am.

Class Participation
Each student will be credited with 38 participation points at the beginning of the semester, one for each class lecture. Two equally important parts will allow a student to keep his (her) point per class lecture.
Regardless of your ability to understand the material, you are expected to be present for each class meeting. You are allowed to have no more than three unexcused absences for the course. After that, you will lose one point per each unexcused absence. An absence is considered to be excused if you had a serious reason for missing a class like admission to a hospital or a death in your family. An official document explaining your absence needs to be emailed to me.
Moreover, regardless of how well you understand the material, you are expected to pay attention to every lesson presented by your teacher. Should you expect any important phone call, keep your phone on vibration. Then, step outside to receive your call if necessary. There is a group of prohibited activities in class, which includes, but is not limited to receiving any phone calls or text messages, initiating phone calls or text messages, touching any electronic devises with your hands, keeping headphones or other electronic devises visible on any parts of your body or clothes, even if you believe that they are turned off. Once any of the prohibited activities occur, the student loses a participation point for that day. If a student who lost his (her) participation point continues behaving the same way during the same class, the student will be asked to leave. Taking notes in class is recommended, but not mandatory. In order to keep a participation point for each lesson, a student is just expected to be in class and avoid using electronic devises.

NOTE: Only a calculator performing basic arithmetic operations is allowed during your tests and final exam. A calculator, which is a part of your cell phone, iPod, or any other electronic devises will not be allowed. You are not allowed to share calculator with any other party in your class during any in class tests or exams unless permitted by your instructor.

ASSESSMENT GRADING:

MyOpenMath Homework	25%
Tests	45%
Final Exam	25%
Class Participation	5%

Grading Scale:

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

NOTE: No extra-credit assignments of any kinds will be offered during the course.

OTHER COURSE INFORMATION

It is the student's responsibility to catch-up on any missed material. It is the student's responsibility to get notes from their classmates.

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:

- Respect the rights, interests, and values of others
- Respect the professionalism of the instructor
- No talking to each other when the instructor is lecturing
- No packing your possessions before the lecture is over
- No walking in the classroom (unless you need to use a restroom)
- Watch your language
- Turn off ALL your electronic devices. This includes cell phones, CD players, etc.
- Conduct that disrupts the classroom environment will not be tolerated

COURSE POLICIES AND INFORMATION

University Policies and Academic Support

Please carefully review the following Common Language for all university course syllabi at the link. 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.

https://www.westga.edu/administration/vpaa/assets/docs/facultyresources/common_language_for_course_syllabi_v2.pdf

Academic Honesty

Any form of academic dishonesty will result in a failing grade for the assignment for the first offense (students will not be able to replace this grade).A second offense will result in a failing grade for the course. All forms of academic dishonesty will be reported.

Academic dishonesty is defined as a student's use of unauthorized assistance with intent to deceive an instructor or other such person who may be assigned to evaluate the student's work in meeting course and degree requirements.

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

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.

Math Tutoring Center

Located in Boyd 205, MTC has a number of computers and some math tutors who can help you in studying math courses.

Class Schedule:

01/07/19	INTRO	
01/09/19	1.1	Inductive and Deductive Reasoning
01/11/19	1.2	Estimation, Graphs and Mathematical Models
01/14/19	1.3	Problem Solving
01/16/19	Review	
01/18/19	TEST1	
01/23/19	2.1	Basic Set Concepts
01/25/19	2.2	Subsets
01/28/19	2.3	Venn Diagrams and Set Operation
01/30/19	2.4	Set Operations and Venn Diagrams with Three Sets
02/01/19	2.5	Survey Problems
02/04/19	Review	
02/06/19	TEST2	
02/08/19	3.1	Statements, Negations, and Quantified Statements
02/11/19	3.1, 3.2	

02/13/19	3.2	Compound Statements and Connectives
02/15/19	3.3	Truth Tables for Negation, Conjunction, and Disjunction
02/18/19	3.3, 3.4	
02/20/19	3.4	Truth Tables for the Conditional and the Biconditional
02/22/19	Review	
02/25/19	TEST3	
02/27/19	8.1	Percent, Sales Tax, and Discounts
03/04/19	8.1, 8.3	
03/06/19	8.3	Simple Interest
03/08/19	8.3, 8.4	
03/11/19	8.4	Compound Interest
03/13/19	Review	
03/15/19	TEST 4	
03/25/19	11.1	The Fundamental Counting Principle
03/27/19	11.2	Permutations
03/29/19	11.3	Combinations
04/01/19	11.4	Fundamentals of Probability
04/03/19	11.5	Probability with the Fundamental Counting Principle, Permutations, and Combinations
04/05/19	Review	
04/08/19	TEST 5	
04/10/19	12.1	Sampling, Frequency Distributions, and Graphs
04/12/19	12.1, 12.2	
04/15/19	12.2	Measures of Central Tendency
04/17/19	12.3	Measures of Dispersion
04/19/19	12.3, 12.4	
04/22/19	12.4	The Normal Distribution
04/24/19	Review	
04/26/19	TEST 6	
04/29/19	Review	
05/06/19	FINAL EXAM	8:00am - 10:00am

IMPORTANT DATES:

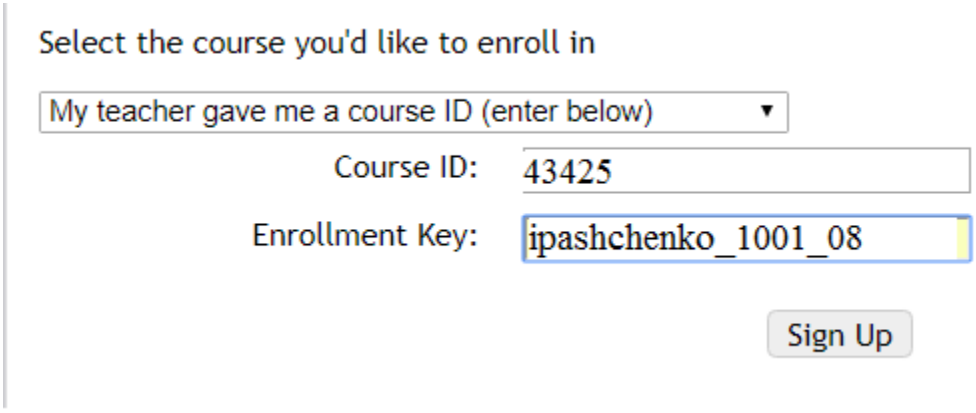
First Day of Class:	Monday, January 7
Drop Ends:	Wednesday, January 9
Last Day to Withdrawal with W:	Wednesday, February 27
Last Day of Class:	Monday, April 29
Final Exam Period:	May 1-7 (see The Scoop for specific times)
No classes:	Monday, January 21 (MLK Day)
	Friday, March 1 (Math Day)
	Monday March 18- Friday March 22 (Spring Break)

How to register MyOpenMath

Go to https://www.myopenmath.com/forms.php?action=newuser

Fill out the form.

For the course **Quantitative Skills and Reasoning: Spring 2019** you do the following:



If you have any questions, please email me.