

Course Syllabus
Math 1001: Quantitative Skills and Reasoning
Fall Semester, 2018
University of West Georgia

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| Instructor: Mrs. Sonal Patel | E-mail: spatel@westga.edu |
| Office: Boyd-106 A | Phone: (678) 839 - 4123 |
| Class Location: Boyd - 304 | Class Meeting: T/R 9:30am-10:45am |
| Office Hours: T/R 10:45am – 12:30pm and 4:45pm – 5:30pm (or by appointment) | |
| Course web: (Course DEN) https://westga.view.usg.edu/ | |

Text/ Resources:

- Blitzer, Robert, *Thinking Mathematically*, 6th Ed., Prentice Hall, 2015
- Scientific calculator (**TI-30XII** or better)

General Course Description:

From the course catalog: “This course is a general overview of mathematical concepts used in quantitative reasoning 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 ... Emphasis is on 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.”

Topics:

Proofs and Problem-Solving (Chapters 1 and 2): Inductive and deductive reasoning, direct and indirect proofs, disproofs by counterexample, estimation/approximation, *Polya's* 4-step method of problem solving, logical operations, syllogisms.

Set Theory (Chapter 2): set notation, set cardinality, membership, and inclusion, families of sets, set operations, Venn diagrams, set identities, inclusion/exclusion principle, applications to logic and probability.

Logic (Chapter 3): Propositions, logical implication and equivalence, conditionals, logical quantifiers, categorical statements, negation, conjunction, disjunction, truth tables, syllogisms, valid and sound arguments.

Financial Math (Chapter 8): percent change, tax computations, simple and compound interest, annuities and installment loans.

Probability (Chapter 11): counting, permutations and combinations, probability distributions, laws of chance, odds.

Statistics (Chapter 12): Sampling, frequency distributions, graphs, Measures of central tendency, measures of dispersion, normal distributions, empirical rule

Components for Evaluation:

Tests (Four tests)

Tests are worth 40% of your grade. Each exam will be announced at least one (1) week prior to the exam date. Check CourseDen for an announcement of Test schedule. One lowest test score will be dropped.

- Test-1 will cover Chapter-1 and 2
- Test-2 will cover Chapter-3 and 4
- Test-3 will cover Chapter-8 and 11
- Test-4 will cover Chapter-12

Comprehensive Final Exam

The cumulative final exam is worth 25% of your final grade. Final exam will be on **4th Dec, Tuesday** on class time (Time duration: 75 min)

Online Quiz

Quiz is worth 35% of your final grade. Quizzes will be available in CourseDen. You have online quiz for each section. So once section is complete in the class, quiz from that section will be open in CourseDen for a week. There is no extension on date. **Three lowest quizzes scores will be dropped.** There are only 2 attempts.

Grading Policy:

Final Grade will be computed as follow: **Final Grade = $Q*0.35+T*0.40+F*0.25$** ,

Where **Q**=Quiz average, **T** = Tests average and **F** is final exam score

Final Grade determined as follows: 90-100=A, 80-89.999=B, 70-79.999=C, 60-69.999=D, <60=F.

Important Dates:

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| First day of class: | 16 th Aug, Thursday |
| Fall Break: | 4 th Oct, Thursday (No Class) |
| Thanksgiving Break | 19 th Nov – 24 th Nov (No Class) |
| Last Day of Class: | 4 th Dec, Tuesday |

Special Note:

- You may click the following to view University of West Georgia Syllabus Policies.
<http://tinyurl.com/UWGSyllabusPolicies>.
- You can find all of your scores including Quiz, Homework, Test, Final, and the overall Total score under <https://westga.view.usg.edu/>.
- Common language of course syllabi:
<https://www.westga.edu/administration/vpaa/common-language-course-syllabi.php>

Course Policy:

Attendance: There is no attendance policy in this class. Please do **not** arrive late or leave early. If you need to arrive late or leave early, please clear it with me before the class begins.

Make-ups: There is NO make-up Test. In order to take a makeup test, you must have a valid, documented reason for missing it. If it is possible, you must let me know before you miss the test. In the event of an emergency or illness on the day of the test, you must contact me on the day of the test. All the make-up tests should be taken within one week from the original date. There is NO make-up Quiz, Tests and Final Exam.

Extra Credit: There will be no extra credit given in this course. My desire is to make this course so accessible that extra credit is not needed. This course will still be challenging, but there are a number of free resources at your disposal, outlined at the end of this syllabus. Please utilize them.

Questions about grading: Questions about grading must be asked within **one week** of the graded works return.

Email: If using email, you must use your **university email** (@westga.edu) for any communication; also check your university email account for any announcement regarding the class. I will not respond to any non-university emails.

Assistant: If you find yourself falling behind in the course, do not delay in seeking out assistance and/or advice from someone (the Instructor, a tutor, etc.) who is competent in the subject area and who has your best interests at heart! **The Math Tutoring Center is in Boyd # 205 and is open daily at the posted times.**

Disabilities:

Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If you need course adaptations or accommodations because of a disability or chronic illness, or if you need to make special arrangements in case the building must be evacuated, you should notify me in writing and provide a copy of your Student Accommodations Report (SAR), which is available only from Accessibility Services. I cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given.