

Note:
Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form.

MOODY DISTANCE LEARNING

Course Number, Name, and Credit Hours

GSU-2231 Quantitative Reasoning, 2 credit hours

Course Description

This course is an overview of mathematics intended to equip students with the knowledge necessary to understand various mathematical concepts, real life applications with respect to probability and statistics, basic logical thought, personal financial management, and basic algebraic equations. There is an emphasis on critical thinking skills and reasoning. The course includes discussion questions that the student will respond to. Instruction and assessment for the content covered takes place through My Math Lab. Discussion question forums will take place on Blackboard. *There are no prerequisites required for this course.*

Course Goals

In this course, you will learn to:

- Understand basic concepts in set theory and logic
- Understand basic algebraic concepts
- Increase your appreciation of mathematics
- Broaden your mathematical literacy
- Develop your mathematical skills and problem-solving abilities
- Renew your confidence in applying mathematical skills in real-world situations

Course Objectives

After completing this course you should be able to:

1. Apply principles of counting
2. Differentiate between types of numbers
3. Solve mathematical problems using a variety of techniques
4. Determine the validity of basic arguments
5. Discover and interpret statistical information based on the data given
6. Convert between bases and operate with some ancient numeration systems
7. Solve basic algebraic equations using real world situations
8. Calculate probabilities
9. Apply basic planar geometry formulas
10. Apply formulas for personal financial management

Course Textbook(s) and/or Supplemental Information

Required textbooks for all Moody Online classes can be found on the [Required Textbooks](#) section of the Moody website.

Assignments

- 1. Homework:** Homework (practice problems) is provided through My Math Lab. Homework will be included in the course grade. The homework assignments are designed to help you take realistic problems and determine the mathematical method that would best solve these problems as well as prepare for a quiz. Consequently, homework problems are an important part of the course. Problems will be completed and graded via My Math Lab. You can verify your progress on My Math Lab. Students falling behind in the course due to an emergency must contact the instructor as soon as possible. Homework for a particular week must be completed prior to taking the weekly quiz.

2. **Quizzes:** There are eight (8) quizzes given through My Math Lab. Each quiz covers a chapter or a part of a chapter. Usually there will be one quiz taken each week. Quizzes are to be taken alone, with no helps (except for a calculator) unless otherwise stated by the instructor.
3. **Discussions:** There are seven (7) discussion questions. These questions generally correspond to the topics being studied during a given week. You are expected to give full explanations to discussion questions. Also, you are expected to comment on other students' responses on the discussion board. The discussion responses that are posted will be graded according to fullness or depth of response as opposed to correctness, since there is a significant range of responses that can be considered a full and well thought out. See **Appendix A** in the **Course Resources** section of this course for a rubric on how these will be assessed.

Assessments

Your grade for this course will consist of:

Homework – (8 x 2% each)	16%
Quizzes – (8 x 8.75% each)	70%
Discussion Posts – (7 x 2% each)	14%
Total	100%

Letter grades are determined by the following scale:

Letter Grade	Percentage Equivalent	Letter Grade	Percentage Equivalent
A	96% or higher	C	73 - 76.9%
A-	90 - 95.9%	C-	70 - 72.9%
B+	87 - 89.9%	D+	67 - 69.9%
B	83 - 86.9%	D	63- 66.9%
B-	80 - 82.9%	D-	60 - 62.9%
C+	77 - 79.9%	F	Below 60%

Course Resources

Online students have access to the Moody Library. Though students may wish to check out books via inter-library loan, the online database has a number of articles and reviews available for download. You can access the online database by logging into your account at my.moody.edu. If you have not previously accessed the library database you may wish to complete the [database tutorial](#).

Course Copyright Statement

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