Math 109-005 General Mathematics

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Office Hours: TR 11:15am-12:15pm, W 10:30am-12:00pm. Also available by appointment or capture.

**Course Description**

This is a terminal course for non-science majors who have satisfactorily completed the minimum high school mathematics requirements. This course is NOT intended to prepare students for Math 116. *If your major requires Math 116, you are in the wrong course and should drop this course immediately.*

Math 109 students will learn to interpret, illustrate, and communicate mathematical and/or statistical ideas. Further, students will learn to model and solve problems. Math 109 students will be able to use fundamental mathematical reasoning principles; use graphical, symbolic, and numeric methods to solve practical problems; and interpret information presented in tables or graphical displays.

**Learning Objectives**

This course fulfills the Quantitative Reasoning requirement in the Foundations category of WKU's Colonnade program. As part of that program, Math 109 has the following learning objectives:
Students will demonstrate the ability to:

1. Interpret information presented in mathematical and/or statistical forms.

2. Illustrate and communicate mathematical and/or statistical information symbolically, visually and/or numerically.

3. Determine when computations are needed and execute the appropriate computations.

4. Apply an appropriate model to the problem to be solved.

5. Make inferences, evaluate assumptions, and assess limitations in estimation modeling and/or statistical analysis.

**Prerequistes**

At least one of the following criteria must be met to enroll in Math 109:

- Math ACT score of 19 or better.

- Completion of DMA 096C with a grade of C or better.

**Textbook**

- Using and Understanding Mathematics, 6th Edition, Bennett and Briggs. Textbook is **OPTIONAL**; the entire content of the textbook can be accessed online within the MyMathLab program.

- Required: A subscription to MyMathLab. This will be discussed more in class.

- Recommended: A calculator capable of calculating powers, square roots, and base $e$ to a power. It is preferred that the calculator is able to calculate factorials ($x!$), Combinations (nCr), and Permutations (nPr), but is not required. A graphing calculator is not needed. Cell phones may not be used as calculators.

**Homework**

Homework will be assigned daily with specific deadlines for completion. A review for each unit exam will be included in the homework assignments. A grade of at least 90% will be necessary on each such unit review and on the final review before a student is allowed to take the corresponding exam.

## Quizzes

Both announced and un-announced quizzes may be given. These quizzes may be traditional paper-and-pencil quizzes or online quizzes delivered via MyMathLab.

## Exams

Unit exams are administered using MyMathLab, which algorithmically generates different versions of each test. All exams will be given in the Math Testing Center (COHH 2126). Students will be required to provide a valid WKU ID for admission to testing.

## Final Exam

A comprehensive final exam will be given.

## Course Grades

A weighted average for this course will be calculated using the following scale:

| | |
|---|---|
| Homework | 10% |
| Quizzes | 10% |
| Unit Exams | 60% |
| Final Exam | 20% |

## ADA Statement

In compliance with university policy, students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Student Accessibility Resource Center (SARC) in Downing Student Union 1074. The SARC telephone number is (270) 745-5004; TTY is (270) 745-3030. Per university policy, please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the SARC.

## Academic Dishonesty

Seriously, **DO NOT DO IT.** Cheating includes such acts as copying off your neighbor's exam or quiz, writing information on your desk, storing formulas in your calculator, breaking any rules the Math Testing Cener has in place, etc. If you are caught cheating, **you will AUTOMATICALLY receive an F in the course.** You will also be turned over to the Office of Judicial Affairs for disciplinary sanctions.

## Cell Phones

Using your cell phone in class is extremely rude and will not be tolerated. You can live without your cell phone during class, I promise. I can tell when you are on your phone. Cell phones should be put away and not within reach during class.

## What If You Need Help?

See me! I am your teacher after all. IT IS TOTALLY OKAY TO ASK QUESTIONS. If you are confused, I need to know! Also, there is FREE tutoring available in the Math Tutoring Lab located on floor 2R in COHH 2124. The hours are Monday-Thursday 8:30-4:30 and Friday 8:30-2:00. Tutors in the Math Tutoring Lab are undergraduate or graduate math majors. Take your laptop with you if you want to ask questions about homework.

## The Learning Center

Should you require academic assistance with your WKU courses, The Learning Center (located in the Downing Student Union, 2141) provides free supplemental education programs for all currently enrolled WKU students. The Learning Center (TLC) at Downing Student Union offers certified, one-on-one tutoring in over 200 subjects and eight academic skill areas by appointment or walk in. Online tutoring is offered to distance learners. TLC is also a quiet study area (with side rooms designated for peer-to-peer tutoring) and a computer lab to complete academic coursework. Please call TLC in the Downing Student Union at (270) 745-5065 for more information or to schedule a tutoring appointment. www.wku.edu/tlc