

INSTRUCTOR	Catherine Sausville Exploratory Hall -4418	<i>Email:</i> csausvil@gmu.edu
OFFICE HOURS	Tuesday 11:00am-12:00pm Thursday 11:00am-12:00pm <i>and by appointment</i>	
TEXTBOOK	<i>Mathematical Ideas</i> 13/e by Miller, Heeren, Hornsby and Heeren We will be using MyMathLab to access the ebook as well as the online homework and quizzes. To register, go to pearsonmylabandmastering.com and click register. Use the student access code WSCMMV-BLUFF-CUTCH-DIVAN-DOBBY-LURES and you will get your copy of MyMathLab and the ebook.	
MATERIAL TO BE COVERED	Generally, portions of Chapters 1, 2, 3, 5, 10, 11, 12 in the text, not necessarily in that order. This course satisfies the General Education Foundation Requirement in quantitative reasoning.	
NATURE OF COURSE DELIVERY	All course materials and activities will be held online. The lecture portion of this course will be delivered asynchronously using the following tools:	

- Publisher provided videos and activities
- Internet based activities and problem solving
- Instructor made videos (as requested by students)

Students may ask questions about the material in a variety of ways. I hold office hours on campus, and am willing to make appointments to meet on campus if those hours do not work for you. Email is also a very good way to get a quick response to questions, and I try to answer emails as soon as I get them. I am also willing to set up online office hours using BlackBoard Collaborate if there are requests for this from students. If a Collaborate session is scheduled, I will post the date and time on the announcements page so that other students may also join. Please to not hesitate to ask for help or the schedule office hours, either in-person or online.

If there is a topic that you are struggling with, chances are that other people in the class are struggling as well. Please do not hesitate to reach out to me and I will either provide a supplemental video or notes that may be helpful. Online math courses are difficult but with plenty of communication I can ensure that everyone gets through this.

MYMATHLAB MyMathLab is a powerful online, homework, tutorial and assessment system that accompanies your new textbook. Students can take assessments, and receive personalized study plans based on their results. The study plan diagnoses weaknesses and links students to tutorial exercises for objectives they need to study. In many cases students can also access video clips, PowerPoint presentations, and other animations for each section and from selected exercises.

MyMathLab is NOT a program operated by GMU. If you are experiencing technical difficulties using the program, then you can email or chat with Customer Support directly through the Pearson Education Customer Service website. Go to 247pearsoned.custhelp.com for more information. Help is available 24 hours a day, seven days a week. You could also call the Pearson Customer Service and Technical Support number at 800-677-6337. **DO NOT CALL THE GMU HELP DESK OR YOUR PROFESSOR!**

REQUIRED
TECHNOLOGY

A calculator is required for this course. Make sure your calculator is a scientific calculator with an e^x button. Calculators using a symbolic CAS (such as the TI-89) will not be allowed while taking exams. Please bring your calculator with you to class. Cell phones are not calculators and you may not use them as one.

No sharing of calculators will be allowed on the exams or quizzes.

You are required to have all of this no later than Tuesday, January 30.

COURSE GRADES

Your final grade will be calculated as follows:

Quizzes	15%
Homework (online & paper)	20%
Tests (20% each)	40%
Final Exam	25%

HOMEWORK &
QUIZZES

Homework assignments will be listed on MyMathLab. The homework is broken into each section, however multiple sections may be due each week. Please pay attention to the due dates.

Homework will be available on Saturday at the beginning of the week and will be due at 11:59pm the following Sunday evening (8 days later). For full credit you must submit your solutions to the homework during this designated time period. Late homework will not be accepted.

Homework assignments are provided with a help menu which includes links to things like videos, practice problems, similar examples, and the link to the textbook section pertaining to the material. You will have unlimited chances to complete each homework problem (though the numbers may change after 3 attempts), so if you miss a question please take advantage of these help menus.

Quizzes and worksheets will be assigned at the end of each chapter. The quiz will be timed and similar to the homework problems. You will get two attempts per quiz. Worksheets will be assignments that are assigned and submitted on BlackBoard. These will be problems that you need to work by hand.

TESTS & FINAL
EXAM

There are 2 tests scheduled in this class. Tests will cover material from the homework as well as the lecture, however test questions may be more challenging than homework and quiz questions.

It is expected that students will take the tests on campus on the scheduled date. There will be no make-up exams available. Each test must be taken in the Math Testing Center in Exploratory Hall room 4107. There will be a sign-up sheet for each exam where you can schedule your time block. Late students will not be permitted to take the test and will not be given a makeup exam.

If you are unable to be in class on the day of a test you must ask me beforehand (in person or by email) so that I can determine if your situation warrants a make-up test. **Do not assume you will be given a make-up unless you get confirmation from me.** You must be able to validate your excuse with documentation or you will not be allowed a make-up. If you are more than 50 miles away from the Fairfax campus then we can discuss the possibility of you using a testing center to proctor your exams. Please email me if you are in this situation.

No collaboration is allowed on exams or quizzes. Any indication that you have worked together, used someone else's ideas, copied, or allowed a fellow student to copy your work is a violation of the George Mason Honor Code. Once you receive an exam or quiz, you are not allowed to leave the exam room until you are ready to turn the exam in.

Below is the tentative schedule of the tests, any changes will be announced on Blackboard. Exact material to be covered on the tests will be determined before the test. The final exam will be cumulative.

Test 1 Wednesday, February 28

Test 2 Wednesday, April 18

Final Exam Wednesday, May 9

These dates are tentative and subject to change.

**LEARNING GOALS
AND OUTCOMES**

Learning Goals and Objectives for Math 106

- I. Students are able to interpret quantitative information (i.e., formulas, graphs, tables, models, and schematics) and draw inferences from them.
 1. Students are able to identify, classify and count objects as members of sets, and calculate and quantify unions, intersections and complements of sets.
 2. Students are able to use percentiles in word problems relating to normally distributed populations and draw accurate conclusions, when a z-score/percentile conversion table is provided.
- II. Given a quantitative problem, students are able to formulate the problem quantitatively and use appropriate arithmetical, algebraic, and/or statistical methods to solve the problem.
 3. Students are able to calculate percentage of increase/decrease in one-step and multiple-step word problems.
 4. Students are able to calculate/identify measures of central tendency (mean, median, and mode).
 5. Students are able to compute probabilities in simple experiments.
- III. Students are able to evaluate logical arguments using quantitative reasoning.
 6. Students are able to differentiate between conjunction and disjunction to determine the truth value of a statement.
 7. Students are able to evaluate and discriminate between various logical quantifiers.
- IV. Students are able to communicate and present quantitative results effectively.
 8. Students are able to assess the meaning of and draw inferences from quantitative statements.

HONOR CODE

THIS IS IMPORTANT. It is expected that each student in this class will conduct himself or herself within the guidelines of the Honor Code. Among other things, this means that sharing information of any kind about exams or quizzes (either before or during the exam) will result, at a minimum, in a grade of zero for all parties involved. See academicintegrity.gmu.edu for a copy of the Honor Code.

**CELL PHONES AND
COMPUTERS**

I expect to receive the same level of respect that I give to you. This means that cell phones and computers are not to be used during class. Your cell phone should be on silent or vibrate during lecture and I should not see them at all during tests or quizzes. If I notice you using a cell phone during a test or quiz then I will assume that it is an Honor Code violation and take appropriate action. This could result in you failing the assignment, failing the class or being suspended from Mason.

- OBTAINING HELP** There are many outlets available for you to get help in this class. I understand that the pace of the class is very quick so I will try to be available as much as I can to students. In addition to my set weekly office hours, I am very happy to schedule appointments. **The Math Tutoring Center, is in the Johnson Center room 344 and offers free tutoring to Math 106 students.** I highly recommend using it. The schedule of the tutoring center can be found at <http://math.gmu.edu/tutorcenter.htm>.
- ACCOMMODATIONS** If you are a student with a disability and you need academic accommodations, please see me and contact the Office of Disability Services. All academic accommodations must be arranged through that office. Office of Disability Services Student Union Building I (SUB I), Room 4205
Phone: 703.993.2474
- E-MAIL & BLACKBOARD** E-mail is an effective form of communication outside the classroom. I frequently send announcements through email so make sure that you activate and check your GMU email account regularly. Please put Math 106 in the subject field anytime you send me an e-mail. If you want to discuss your grade via e-mail it *must* be done using your GMU e-mail account. I will be using Blackboard 9.1 in this class to post class announcements, grades and other important information pertaining to the class. You can access this by going to mymason.gmu.edu and logging in using your NetID.
- UNSCHEDULED AND LATE CLOSINGS** If the university has an unscheduled closing-because of weather or some other unforeseen occurrence- you should assume that we will pick up with the schedule where we left off. In particular, if a test was scheduled for a day in which school was canceled or an assignment was due that day you should assume that the test will be given or the assignment will be collected the next time class meets. If the university has a late opening on a class day we will begin class at the time the university opens. A test scheduled for a day the university opens late will be postponed until the next class day. Make sure you check your GMU e-mail account for any announcements.