

## Syllabus

INSTRUCTOR	Calvin Stanley 4309 Exploratory Hall Email: cstanle@gmu.edu
OFFICE HOURS	1:00-3:00 pm, Monday and Wednesday
LECTURE ROOM	Peterson Hall Room 2413
MEETING TIME	4:30-7:10 pm, Tuesday and Thursday

**Course Description** This course meets the quantitative reasoning requirement, one of the Foundation requirements of the University General Education program. The goal of the Foundation requirement is to help ensure that students are equipped with the tools and techniques necessary to succeed in college and throughout their lives and careers.

**Goals** The course seeks to accomplish the following goals:

1. Students are able to interpret quantitative information (i.e., formulas, graphs, tables, models, and schematics) and draw inferences from them.
2. 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 evaluate logical arguments using quantitative reasoning.
4. Students are able to communicate and present quantitative results effectively.

If you have any trouble registering for the class, email Christine Amaya at [camaya@gmu.edu](mailto:camaya@gmu.edu).

### Required Materials:

1. Access code for the ebook and MyMathLab for *Mathematical Ideas, 13th ed.* by Miller, Hereen, and Hornsby.

OR

*Mathematical Ideas, 13th ed.*, plus a NEW MyMathLab registration code.

Online course ID is: stanley40526

2. Calculator: You will need a simple scientific calculator for this class. No advanced scientific calculators, graphing calculators, or any calculators that can perform integration/differentiation are allowed. I recommend a TI-30X IIS.
3. A GMU email address and access to it. I will only respond to emails from a student's GMU email to ensure student privacy.
4. Access to Blackboard. I will be posting assignments and grades here, so it is in your interest to check frequently.

5. Regular and consistent access to a computer. I will not be assigning work via MyMathLab, but I will be posting materials to Blackboard.

**Assessment** The point breakdown for the class is shown below:

Daily quizzes	6	points each
Seven homeworks	20	points each
Three midterm exams	100	points each
One final exam	200	points
Total	706	points.

I will be grading the class according to the following scale:

	A: 642 – 706	A-: 612 – 641
B+: 583 – 611	B: 556 – 582	B-: 527 – 555
C+: 498 – 526	C: 454 – 497	
D+: 428 – 453	D: 386 – 427	
	F: 000 – 385	

**Attendance/Quizzes** Attendance is required to each class in order to gain a proper understanding of the material. The daily quizzes serve as a way to measure attendance. The quizzes are open note, and you are encouraged to work with classmates on them.

**Homework** There will be seven homework assignments given throughout the semester. Each will be worth 20 points. Four problems assigned at the beginning will be graded, and the others are extra practice. You are strongly encouraged to do the additional problems, however, in order to gain a good understanding of the material. Assignments are to be turned in by the specified date in class. If submitting on separate notebook paper, remove the fringe edge to receive a grade. Solutions are to be written by hand, and with all work shown and written in a clean, organized manner. You only need to turn in work for the four graded problems, and working on the others will not earn you extra credit.

You may work with other students on the homework assignments, however you may not use solution sites such as Chegg or Slader. These sites will more often than not use a technique we have not covered in class, or are sometimes flat out wrong. It is therefore in your best interest to avoid them.

**Exams** There will be three midterm exams throughout the semester. Tentatively they will be on 9/26, 10/24, and 11/21. There will also be a cumulative final exam on Thursday, 12/12, from 4:30 pm to 7:15 pm.

**Late/Makeup Work** Any homework assignment may be turned in by the class period after the due date for half credit. After that, I won't accept late work. I must know at least a week in advance if you cannot attend class the day of an exam in order to schedule for you to take an alternate exam early.

If you miss class due to illness, I require that you email me before class letting me know ahead of time, as well as a signed doctor's note in order to excuse the quiz for that day, or find a time for you to take a makeup exam.

**Additional Resources** In addition to class time, the math tutoring center is located in the Johnson Center Room 344. Help is available on a walk in basis. See <http://math.gmu.edu/tutor-center.php> for hours of operation.

**Academic Dishonesty and GMU Honor Code**

You are expected to comply with the university's honor code found at the [Honor Code Policy Site](#).

**Some**, but not all, examples of behaviors considered cheating include:

- Any form of communication with another person during an assessment
- Copying material from another person from any graded assignment
- Allowing another person to copy from any graded assignment
- Use of unauthorized assistance on any graded assignment
- Providing or receiving a copy of a quiz or exam used in this course
- Use of a cell phone during an exam.

**Accommodations** If you have a learning or physical difference that may affect your work, please contact the Office of Disability Services (ODS) and arrange accommodations through them. Either email or hand me a copy of the notice in class.

**Tentative Schedule for Material**

Week	Topics Covered	Sections Covered	Assignments
1	Class introduction Inductive/Deductive Reasoning Problem Solving and Sets	1.1, Chapter 2	Homework 1 Assigned 8/29/19
2	Set Theory	Chapter 2	
3	Logic	Chapter 3	Homework 1 Due 9/12/19 Homework 2 Assigned 9/12/19
4	Logic	Chapter 3	
5	Decimals, Percent, and Begin Counting	6.5, Chapter 10	Homework 2 Due 9/26/19 Exam 1 9/26/19 Homework 3 Assigned 9/26/19
6	Counting and Begin Probability	Chapter 10, 11	
7	Probability	Chapter 11	Homework 3 Due 10/10/19 Homework 4 Assigned 10/10/19
8	Probability	Chapter 11	
9	Statistics	Chapter 12	Homework 4 Due 10/24/19 Exam 2 10/24/19 Homework 5 Assigned 10/24/19
10	Statistics	Chapter 12	
11	Algebra Review and Regression	7.1, 7.2, Chapter 12	Homework 5 Due 11/7/19 Homework 6 Assigned 11/7/19
12	Financial Math	13.1	
13	Financial Math Elementary Cryptography	Chapter 13	Homework 6 Due 11/21/19 Exam 3 11/21/19 Homework 7 Assigned 11/21/19
14	Thanksgiving Break: No class		
15	Elementary Cryptography		Homework 7 Due 12/5/19