

Math 110: Applied College Mathematics

Winter 2019 // CRN 20755 // MT 8:00-8:50; R 8:00-9:50 MNB 110

Professor: Dr. Leanne Merrill
Office: MNB 126
Office Hours: Mon. 9-10am, 12-1pm; Tuesday 12-2pm; Thursday 3-4pm
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Prerequisite: C- or better in Math 095 or satisfactory score on WOU's ALEKS math placement test

Materials: You should come to class every day with note-taking materials and a binder for hand-outs. You should have access to the internet throughout this course, although you will not need at-home access as long as you can find time to use WOU computer labs when they are open. We will not be using a traditional textbook for this course. I will provide structured notes that contain information typically found in a textbook, and I may also refer you to online sources for supplementary materials. You do not need a calculator for this course, though you are welcome to use one if you like. We will explore a variety of free online calculation tools in this course that you will be able to use for homework and exams.

Course Goals: This course is designed to increase your quantitative literacy by exploring computational aspects of algebra and related concepts as they apply to the real world. By the end of the course:

1. Students will provide accurate explanations of information presented in mathematical forms.
2. Students will convert relevant information into various mathematical forms.
3. Students will draw reasonable and appropriately qualified conclusions from quantitative analysis of real-world applications.
4. Students will understand the use of percent, proportions and rates in solving real-world problems.
5. Students will understand and use polynomial, exponential, logarithmic, and power families of functions and develop regression and modeling of real-world problems with these functions.

Course Structure

Homework: There will be between one and three written homework assignments each week. I will typically give you at least three days to complete homework assignments. Homework assignments are not equally weighted; the number of points on the assignment determines the weight of the assignment.

Exams: There will be two midterm exams in this course. You may have a 3 inch by 5 inch note card for all exams and an online calculator will be available to you. Here are the midterm exam dates:

- Midterm 1: **Thursday, 1/31 (Week 4) during class**
- Midterm 2: **Thursday 2/21 (Week 7) during class**

Final Project: Instead of a final exam for this class, you will have a final project. This project will use material from the entire course and will concern personal financial mathematics. More information about the final project will be given during the second half of the term.

In-class work: You are expected to attend and participate in class every day – this is by far the best way to learn the material. Nearly every day there will be either group work, individual work, or unannounced quizzes that will count towards your in-class work grade.

Grading: Your percentage grade will be calculated as follows:

- In-class work: 10%
- Homework: 15%
- Midterm exams: 25% each
- Final project: 25%

Letter grades will be determined as follows:

A	93% - 100%	C	73% - 76%
A-	90% - 92%	C-	70% - 72%
B+	87% - 89%	D+	67% - 69%
B	83% - 86%	D	63% - 66%
B-	80% - 82%	D-	60% - 62%
C+	77% - 79%	F	0% - 59%

I will use standard rounding conventions at the end of the term; for example, a 92.5% would be rounded to a 93% for a letter grade of A, whereas a 92.4% would be rounded to 92% for a letter grade of A-.

Course Policies and Resources

- Late Work:** If you miss class due to a WOU-sanctioned activity, you must notify me **before** the absence to make arrangements for missed work. If for some reason you are absent due to an extenuating circumstance or medical situation, you must notify me as soon as possible, and submit a report by going to www.wou.edu/advising/absence, or by contacting the Academic Advising and Learning Center at 503-838-8428. Exams and in-class work may not be re-taken or made up unless one of these two channels is followed. For individual homework assignments, 10% will be deducted from the score on the assignment for each weekday it is late.
- Incompletes:** An Incomplete can only be granted for a student who is passing a class and has a documented emergency that prevents them from completing the course.
- Accommodations:** If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both your instructor and the Office of Disability Services, APSC 405, or at 503-838-8250, as early as possible in the term. Students needing medical or mental health care can access the Student Health and Counseling Center by calling 503-838-8313, emailing at health@wou.edu, or by walking in to schedule an appointment.
- Veterans/Military:** Veterans and Active Military Personnel with special circumstances are welcome and encouraged to communicate these, in advance if possible, to the instructor.
- Student Success:** If I determine your performance in this class is placing you at academic risk, you may be referred to a WOU Student Success Specialist. They will offer to work with you to address issues and develop a student success strategy. Regardless of whether a referral has or has not been made, you are ultimately responsible for tracking your own progress in this course. If you would like to meet with an advisor regarding any academic struggles you are experiencing, please contact the Academic Advising and Learning Center at 503-838-8428.

Course Policies and Resources

Email:

Please use your WOU Gmail to send me an email; otherwise, it may be sent to my spam folder. I will respond to all emails within 48 hours, and usually within a 2-3 hours if you send the email before 5pm on a weekday. Likewise, **you must check your WOU Gmail at least once per weekday while you are enrolled in this course, and you must read my emails entirely.** When you are composing a message to me, please consider readability and tone. If you are asking a question about a particular math problem, it is helpful if you are able to attach a picture of your work on that problem so far (but not necessary).

Moodle:

At moodle.wou.edu you may access all course documents such as this syllabus, handouts, homework assignments, and keys. I may also post short videos or other resources that supplement what we've done in class and on homework. In addition, you may view your scores on previous assignments. I will post announcements relevant to this course in Moodle as well, and I will always duplicate such announcements in class.

Getting Help:

There are two free and accessible ways for you to get help in this course. The first line of defense is office hours. You do not need an appointment to attend my scheduled office hours – just drop in when it is convenient for you. If none of my office hours times work for you, please talk to me after class or send me an email to set up a different time. I am here to help you succeed, and have plenty of time to meet with you one-on-one.

There is also free drop-in Math 110 tutoring in the Math Center, located in Hamersly Library Room 228. You may find the Math Center is a great place to sit and work, even if you don't have questions. See wou.edu/mathcenter for specific tutoring hours - they may be available at times when I am not.

Suggestions:

Success in mathematics does not rest on innate ability, but rather upon diligent and careful work over time. Most of your learning will take place on your own and everyone will move at their own pace in understanding the material. Do not be discouraged if you don't get something the first, second, or even third time. Most of us didn't either. Mathematics is a habit of thought, and it takes time to develop this habit. Focus on understanding and appreciating the material and everything else will fall into place.