

## Algebra with Applications: Math 111 - Winter 2024

**Lecturer:** Dr. Andrew D. Loveless

**Email:** [aloveles@uw.edu](mailto:aloveles@uw.edu)

**Office Hrs:** MWF 2:00-3:30pm in CMU B006

**Web page:** [www.math.washington.edu/~aloveles](http://www.math.washington.edu/~aloveles)

**Text/Webassign:** *Applied Mathematics for Business (12th ed.)*, by Harshbarger/Reynolds. Every student must purchase an access code for Webassign. Webassign access include HW and an eBook.

### Other Required Materials (bring to each class):

- a clear plastic ruler
- a scientific calculus (no graphing calculators)

**Course Objectives:** You will study the use of graphs, rates, and algebra as they apply to fields for business and economics. This course will prepare you for a course in the application of calculus to business and economics.

**Grading:** The weight for each part of the course is given below. An example is also given to show how you can determine your own grade.

Category	Weight	Put your scores here	
		Your Percentage	Your Scores
Homework (on Webassign)	15	92%	= 13.8
3 Quizzes (on Canvas, Thu - Jan 12, Feb 9, Mar 1)	8	85%	= 6.8
2 Test Preps (Thu - Jan 18, Feb 15)	8	90%	= 7.2
Midterm 1 ( <b>Fri, Jan 26</b> )	22	76%	= 16.72
Midterm 2 ( <b>Fri, Feb 23</b> )	22	84%	= 18.48
Final Exam ( <b>Thu, March 14</b> )	25	89%	= 22.25
Total	100		85.25

This example student would get a 85.25 out of 100 for the course which is approximately a 3.1 on my rough gradescale from the last time I taught the course. The median for the class will be around 3.0. Typically, if you average above 70% on exams, then you get a grade above 2.0 which is required to move on to Math 112.

• **Homework:** Homework will be administered by Webassign and will typically be due every Tuesday and Thursday nights at 11 p.m.

• **Canvas Quizzes:** These will be on Canvas, they will consist of 5-10 question similar to old exams are will be automatically graded by Canvas. Check your calculations carefully, you only get one submission, like a test! These will open on a Thursday and close 3 days later (on Sunday). They are open book. The idea is that when you do these, you also look at some old exams and start to organize your thinking to get ready for exams. There will be multiple versions, do NOT work with other classmates. These aren't worth a lot, but they provide valuable practice for the test. Please use these well. We will drop the lowest of your three quiz scores.

• **Test Preps:** These will consist of one page of questions very similar to a problem from an old exam and/or homework. The TA's will hand out copies at the start of your registered quiz section and you will have 20 minutes to complete the test prep, then you will hand it and and it will be graded. You get one sheet of handwritten notes and a basic scientific calculator. No other resources are allowed. Treat these seriously, like a test.

• **Exams:** You will be allowed a basic scientific calculator (no graphing calculator) and one 8.5 x 11 sheet (front and back) of **handwritten** notes for the exams. Other electronic devices will not be allowed. You may not share a calculator or a note sheet with another student on an exam.

**Make-Ups and Extensions:** If you have a prolonged illness or emergency (lasting more than a week), then please contact me. For all other situations, please read the following:

- **Homework:**

- In order to account for any small issues of you forgetting a problem or incorrectly clicking, at the end of the term I add 5% to everyone's final HW percentage (but no one gets a grade above 100%).
- You can also request extensions for past due assignments automatically within Webassign for up to 3 days past the closing date, but there is a 15% penalty on any problems completed in this 3 day window.
- There are NO other extensions for any other reason whatsoever. I will NOT drop the late penalty for any reason whatsoever. Again, the expectation is that you complete the vast majority of homework at least two days before it closes.

- **Test Preps and Quizzes:** No make-ups for any reason, instead we drop your lowest score. If you miss due to sickness then that will count as your drop.

- **Midterm Exams:** If you miss a midterm exam due to an emergency and if you contact me, then your other exams will be weighted more heavily. There are no make-ups for midterm exams.

- **Final:** If you will miss the final exam due to emergency, then you will need to reach out to me as soon as possible. If you are in good standing in the course (i.e. passing), then we will discuss incomplete options for you to take a make-up final in a future quarter.

**Class Philosophy:** There are two vital rules for success in my classroom.

**1. THE HOMEWORK IS THE KEY:** Mathematics is truly learned when **YOU** completely solve a problem yourself AND understand the underlying concepts and tools so as to be able to apply them to related problems. The lecture, tutorial sessions, and office hours are valuable tools in guiding you towards learning and discovery, but ultimately the concepts and solutions must be absorbed, understood, and applied by you alone. Treat each problem as an exam question and ask yourself, "Can I answer this question without any help and do I understand the underlying principles that this problem conveys?" If your answer is no to either of these questions (or if you hesitate at all), then you need more studying and practice.

**2. ASK FOR HELP:** Most students will hit a wall at some point during the course. Some can't handle the large workload, while others find difficulty with specific concepts in the course. When these times arrive remember to ask for help. Come to your T.A., come to me, ask your classmates for help, visit the math study center and/or visit the student counseling center. If you are still stumped send me an email. Please, please, please find help earlier rather than later.

**Resources for Students with Disabilities:** If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course (if I have already been sent your accommodations, then you can expect an email from me with more info by the end of the first week of the quarter). If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu or disability@uw.edu. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions.

**Religious Accommodations:** Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy. Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form.