

Instructor: Andrew Wray
Office: Deady 12 (Basement of Deady)
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Phone: 541-346-4711 (strongly not preferred)

Office Hours:
MWF 11am-12pm

Class Meetings: 4- 4:50pm, MTWTh, 123 LLCN

Course Goals: Learning Outcomes: A successful student...

- identify, by formula, verbal description, or graph the vertical and horizontal transformations that take a parent function to an indicated function,
- identify a function as periodic from its definition,
- describe characteristics of periodic functions such as period, as well as amplitude and midline where applicable,
- describe sine, cosine, and tangent functions from both unit circle and right triangle perspectives,
- describe the characteristics of the sine, cosine, and tangent as functions,
- calculate all angles and side lengths of both right and oblique triangles, given appropriate information,
- use identities relating to the period of sine, cosine, tangent as well as identities relating to negative angles and the Pythagorean identity,
- construct functional models from trigonometric, exponential, polynomial, and rational expressions,
- describe vectors in a mathematical and physical science context,
- add, subtract, and perform scalar multiplication on vectors,
- find and interpret the dot product of two vectors as a measure of agreement between vectors.

Text: *Functions, Trigonometry, and their Applications*, by Dan Raies.

Recommended: A scientific calculator (only for roughly last half of course).

Homework: Homework will be primarily hand written in this class. Homework will be collected once per week. Written homework must be turned in by the beginning of class.

On written homework, I expect

- neat handwriting,
- clear steps shown in your solution,
- complete sentences explaining your solution (when applicable),
- a staple, should it go more than one page,
- no frilly edges or scribbles. (Frilly edges are what you get when you rip it out of a spiral notebook.)

Points will be deducted for not following these rules. I will **not** accept homework that is not stapled! I advise that you buy a mini stapler. They are pretty cheap at the Duck store and will be indispensable to you.

At the end of the term I may give bonus points to your homework score to cover life's little misfortunes that might cause to you miss an assignment or two. I encourage working together on homework, but you *must* be able to answer the questions on your own.

A note on late homework: Webwork assignments will close eventually. If you need an extension for homework, come see me during office hours and I can give you an extension. However, I reserve the right to revoke this if I notice it becomes a habit for you.

I will not accept late written homework. If you will be missing class or are sick, find a way to get the homework to me before you leave or get it to my office the day it is due.

Quizzes: I will give quizzes at the end of each week, except for the first week. These quizzes will feature problems that are slightly similar to homework problems as well as concepts we have been developing in class. These will probably last about 25 minutes each.

Exams:

Exam 1:	Thursday, February 2nd (End of Week 4)
Exam 2:	Thursday, February 23rd (End of Week 7)
Cumulative Final Exam:	Wed, March 22nd at 2:45 pm (Week 11)

A note on exams: unless there are documented, extreme circumstances, no late work will be accepted, nor make-up exams given.

Grading: Course grades¹ are weighted according to the following scheme.

Homework	20%
Quizzes	20%
Midterm Exams (2)	30% (15% each)
Final Exam	30%

Standard grade assignments will be made (e.g. grades in the 80% to 90% range will be B's, those in the 70% to 80% range are C's, etc.)

Plus and minus grades will be awarded in the upper and lower 2% of a bracket. (e.g. A grade of B+ is awarded between 88% and 90%; B- between 80% and 82%). I reserve the right to apply an adjustment to grades at the end of the term.

Lectures: I don't take attendance, but I assure you that coming to lectures and participating will only benefit your learning. I encourage you to participate in lectures by asking questions and working on the handouts I give you. I also ask that you turn off your phones and keep laptops put away.

Accessibility: For those of you who are currently registered with Accessible Education Center for a documented disability, please present your paperwork to me during the first week of the term (or earlier) so that we can design a plan for you. Those of you with a disability (or who might) but are not registered with AEC should contact them as soon as possible. It is much more likely that measures can be taken to provide adequate special accommodation if the organization is done through AEC. I have attempted to provide documents that are accessible. Please let me know if you need additional accommodations.

¹A student who achieves adjusted grades of D or F on *all* of the exams may be eligible for a maximum grade of D.

Sexual Violence: The UO is committed to providing an environment free of all forms of discrimination and sexual harassment, including sexual assault, domestic and dating violence and gender-based stalking. If you (or someone you know) has experienced or experiences gender-based violence (intimate partner violence, attempted or completed sexual assault, harassment, coercion, stalking, etc.), know that you are not alone. UO has staff members trained to support survivors in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, helping with legal protective orders, and more.

Please be aware that all UO employees are required reporters. This means that if you tell me about a situation, I may have to report the information to my supervisor or the Office of Affirmative Action and Equal Opportunity. Although I have to report the situation, you will still have options about how your case will be handled, including whether or not you wish to pursue a formal complaint. Our goal is to make sure you are aware of the range of options available to you and have access to the resources you need.

If you wish to speak to someone confidentially, you can call 541-346-SAFE, UO's 24- hour hotline, to be connected to a confidential counselor to discuss your options. You can also visit the SAFE website at safe.uoregon.edu.

Student Conduct: I plan to treat every student with respect and, as such, expect my students to show respect for me and for the class as a whole. Violations of the student conduct code results in the incident being included on your student conduct record as well as academic sanctions such as a failing grade on any coursework related to the violation or simply a failing grade in the course. The University of Oregon requires all instances of cheating be reported, no matter how small. Cheating includes, but is not limited to:

- Looking at another students exam during a test
- Copying the work of another person (student or otherwise) and submitting it as your own
- Using any materials except those explicitly approved during a test-taking situation
- Resubmitting graded work that was altered after being returned

For a list of other descriptions of cheating, see the Student Conduct Code.

Suggestions for Successful Study:

- Don't get behind in your reading, homework, etc.
- Participate in class, ask questions, and make use of my office hours.
- Form a study group with others in the class. Work together on homework - but everyone must join in and submit their own work.
- Read ahead in the book. Even reading the first few pages of each lesson will help the material sink in quicker during lecture and allow you to ask meaningful questions.
- Keep all your old exams, worksheets and quizzes. You'll find them useful when youre studying for tests.
- If you think you'll need extra help, establish a tutoring plan right away. Check with the Teaching and Learning Center (Room 68 in the Basement of PLC) for free or private tutoring.

Tentative Weekly Schedule:

Week	Sections to Cover	Assessment	Other Notes
1	1.1,1.2,1.3	Exam 1 (Ch 1, 2.4, 3.1-3.3)	2.1– 2.3 read on your own (review); MLK Day Midterm feedback survey on Canvas
2	1.4, 1.5		
3	2.4, 3.1, 3.2		
4	3.2, 3.3, 3.4		
5	3.5, 3.6, 4.1		
6	4.2, 4.3	Exam 2 (Ch 3.4-3.6, 4)	
7	4.4, 4.5*, 5.1		
8	5.2, 5.3		
9	5.4, 5.5		
10	Catch-up and Review	Finals exam Wed	Submit course evaluations in DuckWeb
11	Final Exam		No classes

Important Dates:

Monday of 2nd week (Jan 16)	Last day to drop without a “W”
Wednesday of 2nd week (Jan 18)	Last day to add a class
Monday of 2nd week (Jan 16)	Martin Luther King Day (No classes)
Sunday of 7th week (Feb 26)	Last day to withdraw (drop with a “W”) or change to P/NP

See the calendar on Registrars website for other fall deadlines

Getting Help From...

Me: You should make use of my office time whenever possible. Keep in mind that I may ask you questions about how you started the problems and encourage you to contribute to solving it, rather than simply handing you the result. You may also use Canvas’ messaging system to send me messages.

Tutors: The Teaching and Learning Center (Room 68 in the Basement of PLC) has both free and private tutors available during most business hours. Free tutoring is also available in the Math Library Reading Room (across the hall from the math office in Fenton Hall) on weekdays and Sundays.