

CWU Course Number Math 153, Math154	CWU Course Title Precalculus Mathematics I (first semester) Precalculus Mathematics II (second semester)
Instructor Name Don Schafer	Instructor email (Best way to contact me) schado@wwva.org
Instructor Work Phone 509-525-1050	Term (info only for CWU information) 1 st Sem for 153, 2 nd Sem for 154

WWVA Precalculus (Traditional High School Precalculus)

Class schedule/meeting time and place:

3rd period class: Room #502 at Walla Walla Valley Academy; MTH: 9:52-10:39; W: 9:49-10:33; F: 8:45-9:25

Prerequisites: Algebra II; Math 153 prerequisite for Math154 (first semester prerequisite for second)

Textbook: Precalculus (with Limits): A Graphing Approach; 2nd Edition (Know this!)

Authors: Larson, Hostetler, Edwards (Know!)

Publisher: Houghton Mifflin

Dual Credit: You may choose to take this class for dual credit. In addition to a year of Precalculus credit here at WWVA, you may also earn 10 quarter hours of university credit, 5 for first semester, 5 for second semester, through Central Washington University. If you wish to do this, you will need to fill out and submit the appropriate paperwork by the relevant dates as well as pay the appropriate fees. You will also need to pass a qualifying test on the placement test that CWU administers for those who wish to take the class for dual credit.

Daily Necessities: Everyone will need their own **graphing calculator**. Borrowing a classmate's calculator simply will not do. Have access to your own personal calculator that you can use anytime. I recommend a TI-84Plus (CE, etc.). If you have a different calculator, the explanations and examples done in class may be less helpful.

Grading: Your quarter grade will be determined by your performance in the following areas: Project, Homework, Quizzes, and Tests. These areas will be weighted in the following way:

Project	10 %
Homework	20 %
Quizzes	30 %
Tests	40 %

These four categories will be combined as explained above to yield a final quarter percentage which will determine your grade as follows:

Letter Grade	GPA	Percent cut-off
A	4.0	93%
A-	3.7	90%
B+	3.3	87%
B	3.0	83%
B-	2.7	80%
C+	2.3	76%
C	2.0	69%
C-	1.7	65%
D+	1.3	61%
D	1.0	54%
D-	0.7	50%

Your semester percentage will be determined as follows: first quarter 40%, second quarter 40%, and the comprehensive semester exam 20%. This weighted percentage will determine your semester grade according to the same grade scale. Remember, it is your semester grade that stays on your transcript. Your semester grade forms part of your permanent record.

Homework will be assigned about 3 times a week from the assignment sheet. Follow the assignment sheet and the schedule on Google Classroom in which I give due dates. Turn in assignment on day it is due as indicated. Put it in the basket on the teacher's classroom desk. Points will be deducted for late work.

If you are sick, you need to catch up within the number of class days that you missed. For example, if you missed two class days because of sickness,

you have two class days to catch up when you return. On the third class day back in class you should be all caught up and assignments received after this will be considered late and treated accordingly.

Quizzes may be any time during the class period and usually will be daily. If not inconvenient for me, you can make up the quiz as long as you do so on the next day after you return from an excused absence. At the end of each quarter, one third of your lowest quiz scores (including any quizzes for which you may have been absent) will be dropped and your quiz grade will be determined by the remaining quiz scores. The quizzes will be based on the homework and lectures of the previous few days. Each quiz will be worth ten points.

Also, you are always responsible for taking the quizzes when you are in class, even if you were gone the previous class period(s). Before you come to class, you can get the quiz information from a classmate, or you can email me ☺. schado@wwva.org

Tests will come basically once every two or three weeks and in general will cover mainly the chapter and/or the material covered since the last chapter. However, math often depends on what has come before, so expect all tests in a certain sense to be cumulative.

Classroom Expectations: These guidelines will enable everyone to learn more and consequently have a better year. The basic principles which run through them are orderliness and mutual respect for others.

1. Don't leave class after the second bell rings unless you take the pass. If the pass is not hanging on the door, you need to wait or talk to the teacher. Don't use the pass during the first five minutes of class. If there is a special or urgent need, talk to me.
2. If your gum chewing becomes a problem in class, I will ask you to spit it into the trash. No gum under desks, on floor, etc. please!
3. No personal listening devices while the teacher is teaching or group activities. During quiet work time, you may quietly listen to music with ear buds.
4. Thank you for dressing in accordance with the principles outlined in the WWVA bulletin. Wear appropriate school uniform. Dress modestly.
5. Drinks and water are OK as long as the liquid stays inside the container. This privilege can be lost in the event of a spill, etc.
6. Phones: Don't text during class. Don't be checking your phone. Focus on learning. If you have a special need, talk to me. There may be times when you will use your phone for class activities, but in general, you won't need it.

Tardies: tardies may affect your grade and certainly disrupt the class. Please be on time.

Absences due to sickness: If you are absent 3 class days due to sickness, you will have 3 class days to catch up on your homework without it being considered late. In general, the number of class days which you are absent because you are sick is the number of days you have to catch up. However with tests, you will always have one week after you return to make up the test (provided you were sick!). If you have failed to make up the test after one week, your test score will be lowered 10 % per day thereafter that you fail to make up the test.

Extra Credit: There are no special extra credit assignments, but on occasion the teacher will throw out random questions on quizzes for extra credit. However, such credit will not significantly raise your grade.

Academic dishonesty: It is expected that student's work represents their own understanding of math. Do get help when you don't understand, but do not copy other's work, either from the internet or from other students. This applies to all work in the class. If I have concerns, I will talk to you. If they are unresolved, I will take them to the administration.

Respect: every student is expected to contribute to an inclusive and respectful culture for learning, growth and friendship in, and out of, class.

Diversity: We are committed to creating a learning environment that meets everyone's needs. If you anticipate any obstacles to learning, please contact Stephanie Anderson to discuss a range of available options.

Religion: Reasonable accommodations for religious holidays and religious practices will be made.

Harassment: We are committed to providing all learners with an environment free of bullying, sexual harassment or stalking.

Important CWU Dates:

CWU First Semester Registration Due by:	Oct.8, 2021
Student Uncontested Withdrawal	Nov.22, 2021
Student Complete Withdrawal	Jan.14, 2022
Student Withdrawal with Hardship	Jan.14, 2022

CWU Second Semester Registration Due by:	Feb.11, 2022
Student Uncontested Withdrawal	Apr.15, 2022
Student Complete Withdrawal	June 3, 2022
Student Withdrawal with Hardship	June 3, 2022

First Semester: Tentative Dates for Chapter Tests:

Chapter in textbook: Precalculus – A graphing approach. Larson, Hostetler, Edwards	Approximate date of test
Ch.P.1 –P.4 (Review: slope, equations of line, distance formula, equations of circle, midpoint, solving equations, simple systems of equations, substitution, rational, quadratic, radical, fractional exponents)	Sept.24, 2021
Chapter P all (absolute value equations, inequalities, absolute value inequalities, polynomial inequalities, rational inequalities, representing single variable data, measures for single variable data: mean, median, mode)	Oct.8
Ch.1.1-1.4 (relations, functions, domain, range, increasing, decreasing, relative extrema, symmetry, even/odd, greatest integer function, rigid vs non-rigid transformations, combinations of functions)	Oct.24
Ch.1 all (Inverse of a function, one-to-one, vertical and horizontal line tests, two-variable data – representations, scatter plots, least squares linear regression)	Nov.8
Ch.2.1-2.4 (quadratic polynomials, general polynomials, leading coefficient test, zeros, Intermediate Value Th, Long division of polynomials, synthetic division, Remainder Th, Factor Th, Rational Zero Test, imaginary unit i , Complex numbers, complex conjugates, applications)	Dec.9
Ch.2 all (Fundamental Th of Algebra, complex conjugate pairs, factoring a polynomial over various sets (integers, reals, complex numbers), rational functions, horizontal and vertical asymptotes, applications, graphs, slant asymptotes, applications with slant asymptotes)	Dec.19
Semester Exam through Ch.3 (exponential functions, graphs, natural base e , compound interest and	Jan.14

applications, logarithmic functions and their graphs, the natural log function, applications, properties of logarithms, rewriting logarithmic expressions exponentially, solving exponential and logarithmic equations, models: exponential growth and decay, Gaussian, Logistics growth, classifying scatter plots, fitting non-linear models to data	
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Second Semester: Tentative Dates for Chapter Tests:

Chapter in textbook: Precalculus – A graphing approach. Larson, Hostetler, Edwards	Approximate date of test
Ch.4.1-4.6 (radian, degree measure, rotation in standard position, arc length, radius, and angle; Unit Circle, right triangle trigonometry, trigonometric functions of any angle, graphs of sine, cosine, tangent and other trig functions)	Feb.13, 2022
Chapter 4 all (inverse trigonometric functions, their domain and ranges, applications, solving problems involving trigonometry, applications from other fields.)	March 5
5.1, 5.2 (Fundamental trigonometric identities: reciprocal, ratio, Pythagorean, co-function, even/odd; demonstrating a variety of trigonometric identities)	March 13
5.3-5.5 (solving trig equations, Sum and Difference formulas for sine, cosine; multiple angle identities, product/sum formulas)	Apr.20
6.1-6.3 (Law of Sines, Cosines; Vectors in the plane)	May 11
10.6, 10.7 (polar coordinates, changing between rectangular and polar coordinates, graphs of polar coordinates)	May 25
Semester Exam Ch.4-6.3 and 10.6,10.7	June 3

How can I help? I really want you to do well in this class. If there is any way that I can help you, please let me know. I'm always available for help after school. If that is a bad time for you, make arrangements with me for another time.

Interesting, hard work, tedious, mind-boggling, fascinating - math can be all of these things at times. But your success in mathematics will probably depend most on two things: First, Study regularly. Keeping up is the best way to avoid frustration in this class. Secondly, everything you learn should make sense to you. Why am I doing this? Does this make sense? How does this relate to what I already know? Is it reasonable? The more your understanding is based on these types of thought processes, the better you will understand math and the more you will enjoy it.

Talk to me if you have any questions or problems and have a great year!