

Math 154.004: Pre-Calculus 2

Meeting Daily at 1:00 – 1:50 PM in Samuelson 251

Instructor: Tim Brown

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Office: Samuelson 218A

Office Hours: 3:00 – 3:50 PM daily (*and by appt.*)

See canvas site on mycwu

Description: Math 154 is a 5-credit course designed to develop both concepts and procedural skills in trigonometry in preparation for the study of Calculus. There will be problem solving, analysis, and communication required in addition to algebraic, graphical, and numerical approaches to the patterns we study. You need to already have proficiency with functions in general, including operations, compositions, inverses, and graphs. In this class you will develop proficiency with trigonometric functions in terms of triangle problems, circular and harmonic motion, and wave patterns. Communication is a critical part of the expectation; you will be expected to communicate logical processes clearly using proper math symbols and “grammar” as well as to communicate interpretations of your answers.

Time: The general rule of thumb for college is 2 hours outside of class for each hour in class. Expect to spend 5 - 10 hours per week besides class time to be successful (some may need more, some less...) You choose to succeed or not largely by how you choose to spend time and energy. You will be receiving a schedule template to help you plan for success – you will need to block out 15 – 30 hours in your weekly routine for homework if you are a full time student (5 – 10 hours for this class).

Attendance, participation, homework. People who consistently show up, do their work, and get help as needed generally pass my classes. Be here, pay attention, ask questions, do your work, get help when you need it, and you will succeed. If you must be gone, you are responsible to access my canvas website for information, and keep up with the work.

Absences will hurt your grade in several ways:

- You miss your best opportunity to learn the material and/or ask questions
- You will miss in-class activities, which you may not be able to make up
- You may waste a quiz retake opportunity
- You will miss getting your perfect practices checked in a timely manner – and may be unsure what the expectations are in terms of showing work, labelling, etc.

Expectations:

Uni-tasking! The (lost) art of doing one thing at a time, focusing, and doing it well. Turn off your phones, ipods, ipads, cortical implants, etc. during class... She will still love you in 50 minutes. The birds will still be angry. Some people will still call him Maurice. The fruit will still need to be ninja-ed. If you are here, be truly here.

Respect yourself: Believe your education is important enough to put forth the effort. Your future is worth investing in.

Respect others (real or simulated respect) – me, classmates, the school, etc. Honesty is absolutely essential. In order to create and sustain a safe and inclusive environment for learning, we have a shared responsibility to treat each other with dignity and respect. Mutual respect and nondiscrimination includes freedom from sexual harassment.

Materials:

- A graphing calculator is required. (Some students get by with scientific calculators, but it will be more difficult.) Smart phone apps will not do, as you can't use a phone during quizzes and tests (for what I hope are obvious reasons). I can help with TI-83 plus or TI-84 plus, but other calculators are acceptable if you read your own manual.
- Text: Pre Calculus by Sullivan, bundled with a “My Math Lab” license. You will be doing homework online, so make sure you have adequate online access. The physical text is only for reference this quarter, so it's optional. For the first two weeks, you can do the work with free “temporary access” while you sort out financial issues.

Homework is assigned almost every day, and needs to be done that day. Attendance and participation are essential, and practicing the skills and concepts promptly is the only way to be confident of success. This will be done mostly through [mymathlab](#) linked from my canvas page. There will also be paper assignments, with specified due dates.

Perfect Practices are short tasks, usually one to three questions, done during the last 10 -20 minutes of class. They must be completely perfect to get credit (at which point they get stamped). Perfect practices must be corrected and stamped within two days of the day they are assigned. They will be turned in as a packet for credit on test day.

Quizzes will cover the homework concepts from the previous few days. You can make up or retake up to 3 quizzes for a better grade this quarter. Come see me outside of class time with your stamped perfect practices and completed schedule to do a make up/retake. Retakes must be done by the day before the unit test. If you are absent the day a quiz is given, the retake/make up is your only chance at the quiz.

Chapter tests and the **Final exam** must be taken on the days assigned; you will know at least a week ahead. Other times will be arranged only for the direst of circumstances (family funeral is valid if it is your own ☺). The final exam is cumulative – i.e. it covers the whole course.

Grading:

○ 20%	Final Exam	A	92%
○ 25%	Unit Tests	A-	90%
○ 25%	Quizzes	B+	88%
○ 15%	“Perfect Practices”	B	82%
○ 15%	“My Math Lab” & paper homework	B-	80%
		C+	78%
		C	72%
		C-	70%
		D+	68%
		D	60%
		F	Below 60%

Late work: Each mymathlab assignment is to be done on the day it is assigned, but will generally have grace period built in prior to the deadline, so you can ask questions in class and return to the problem set. Any work after that gets 50% credit. Paper assignments are not accepted late. Perfect practices have a two day grace period.

Cheating = Failure. You are allowed help on homework, and on perfect practices (“Help” and “copying” are two different things!). Tests, quizzes, and the final exam are individual efforts. You will receive a zero with no chance for make up if you copy, help, hint, check, “access extra resources”, etc. You will also forfeit any remaining quiz make up or retake opportunities.

Extra Help: Do not hesitate to come see me at my office during office hours or other times by arrangement. Also, the University Math Center, located in Brooks library has generous drop in tutoring hours. Kahn academy (www.khanacademy.org) has an organized collection of over 2,400 tutorial videos, with special emphasis on math.

Accommodations: If you have a disability and require accommodations for this course please speak with me privately as soon as possible so that your needs may be met. If you have not already done so, you will need to register with Disability Services (DS). DS is located in Bouillon 140. Call (509) 963-2149 or email cds@cwu.edu for more information.

THE END: Your final exam will be held on Tuesday, March 12, Noon – 1:50 PM. There will be regular daily work, review assignments, and a quiz due during the last week of class.