

PRECALCULUS II

Math 154-A02, Spring 2021

Instructor: Tyler Suronen

Office: Samuelson 228I

Office Hours: M-F 10-10:50 AM

Phone: 509-963-2991

Email: tyler.suronen@cwu.edu

Text: *Precalculus: An Investigation of Functions*, by David Lippman and Melonie Rasmussen ed2.2

The course is subject to change at the discretion of the instructor.

Description: A continuation of MATH 153 with emphasis on trigonometric functions, vectors, systems of equations, the complex numbers, and an introduction to analytic geometry.

Course Objectives: By the end of this course you will be prepared to:

- Use knowledge of trigonometric functions in relation to the unit circle to graph, create functions, and describe behaviors of trigonometric functions.
- Use knowledge of trigonometric functions in relation to triangles to solve triangles.
- Simplify trigonometric expressions and solve trigonometric equations.
- Convert between rectangular and polar coordinates.

The Text: Precalculus by Lippman Rasmussen is available for free download or print purchase at <http://www.opentextbookstore.com/precalc/>. We will be using chapters 5-8.

Calculators: TI-83/84 or comparable. I recommend [desmos.com/calculator](https://www.desmos.com/calculator) as a free alternative with most of the required features.

Grades:

- HW 20%
- Quizzes 15%
- Weekly Check-in 5%
- Exams 40%
- Final Exam 20%

Your overall grade will be calculated by percentage of completed work with the following cutoffs (+/- fall within 3 percent points of the upper/lower ends of these ranges. i.e. B+ 87-90): $90 \leq A$, $80 \leq B < 90$, $70 \leq C < 80$, $60 \leq D < 70$, $F < 60$.

Homework: Homework will be assigned frequently. There are on average 2 each week. Homework is due weekly on Saturday at 11:59PM. You will find assignments on Canvas in each weekly module. Homework is worth 20% of your total grade.

Quizzes: You have two attempts (from which your highest score is kept). The quizzes are timed. The quizzes are worth 15% of your total grade. Due dates for the quizzes are noted in each weekly module.

Check-ins: You receive credit for checking-in each week if we correspond at office hours, over email, or in discussions during that week. If you don't otherwise contact me with questions during the week and everything is going fine you can send an email with "All good. No questions." by the end of that week. In total this is 5% of your grade (each week worth 0.5% of your overall grade).

Exams: Each exam will cover one chapter (which will be roughly every two weeks). The exams are timed for one hour per attempt and you have two attempts (from which your highest score is kept). The exams are open to attempt only the day they are due. The exams are worth 40% of your total grade. There are 4 exams (one for each chapter). Each exam is 10% of your grade.

Final Exam: The final exam will be comprehensive. The final is timed for two hours. The final is worth 20% of your total grade.

Late work and Makeup: Makeups for all assignments will be given on a case by case basis when circumstances are both valid and verifiable, e.g. illness, bereavement, and school-related activities. Documentation may be required. It is expected that exceptions to due dates be requested prior to the due date.

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963-1515 for further information or questions.

Academic Dishonesty: Consult university policies (CWUP 5-90-040(22), CWUR 2-90-040(22), and WAC 106-125-020) for student conduct, cheating, plagiarism, and other academic expectations. Disciplinary action will be taken, up to and including failure of the course, in accordance with CWU policy and recommendations.

Classroom Equity: It is my duty as your instructor to provide a safe and inclusive environment for learning. As students you are expected to share this commitment. Our shared responsibility is to welcome everyone to learn and to treat each other with dignity and respect. Mutual respect and nondiscrimination includes freedom from sexual harassment. CWU policy defines sexual harassment as unwelcome, sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature under particular conditions. Title IX considers sexual harassment to be a form of discrimination. If you experience sexual harassment, or know someone who is being sexually harassed, you are encouraged to report concerns to me, another faculty member or employee, or to Equal Opportunity, at 509-963-1202, OfficeforEqualOpportunity@cwu.edu, Mitchell Hall 1st floor. Complete policies are available online at www.cwu.edu/hr.

This extends to the online components of the course in virtual office hours, discussions, canvas chat/discussions, and email correspondence. It is each of our duty to engage with the course and each other in a respectful manner.

Accessibility and Accommodations: Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email Disability Services, ds@cwu.edu, for more information.

Resources for Online Students: CWU offers a variety of services and guidelines for current and future online students. For more information visit: www.cwu.edu/online-learning/resources-current-and-future-students

Multimodal Learning recognize and embrace that online learning requires different strategies for students. For more information visit: www.cwu.edu/online-learning/online-learning-basics-students

Important Dates: see <http://www.cwu.edu/registrar/academic-calendar> for more

Mar 30 First day of classes.

Apr 5 Add/Drop classes.

May 13 Uncontested withdrawal period deadline.

May 31 Memorial Day. No classes.

Jun 4 Last day of class instruction.

Jun 7 Study Day.

Jun 9 Final Exam

Jun 11 End of Quarter

Study Advice: Math requires lots of practice. When taking in-person courses we recommend you spend a 1-2 hours outside of class for every hour in class. In the online, asynchronous environment I recommend you schedule the time you need aiming to meet the same time investment on a weekly basis. For each new section please: read the section in the book, watch the corresponding videos, and attempt the assignments.

Contact: Expect a response to emails within 1-2 business days. Advice for emails:

- i) Take your time and write a complete message
- ii) Make your need clear in the subject line
- iii) Include relevant details in the body of the message
- iv) Use salutations and farewells (including your name)
- v) Use official CWU email