

# PRECALCULUS II

## Math 154-002, Spring 2020

**Instructor:** Tyler Suronen

**Office:** Samuelson 228I

**Virtual Office Hours:** M-F 2-2:50 PM

**Office Phone:** (509) 963-2991 (not presently using my office phone for contact)

**E-mail:** suronent@cwu.edu

**Text:** *Precalculus*, Michael Sullivan, 2nd Custom Edition for CWU.

The course is subject to change at the discretion of the instructor. These changes will be communicated to you as they happen. Communication is especially important this quarter. Please contact me if you have any questions.

**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:** Is included in Canvas through “MyLab and Mastering.” Find MyLab and Mastering and go to the course home. There you can access the e-text and navigate by chapter and section. We begin with Chapter 6 section 6.1. Frequent reference is made to material from section 2.5 on transformations and all of chapters 2-5 are presumed understood from 153. Online homework from Pearson’s MyMathLab is also included. Details in the “Homework” page.

**Calculators:** We’ll need all the utilities of the TI-83/84. The graphing utility and data features are necessary to follow lectures completely, but we will use other applications which serve some functions better. For many computations a scientific calculator on your PC or phone will suffice. For graphing I prefer [desmos.com/calculator](https://www.desmos.com/calculator) for visualization.

**Contact:** Expect to use email as the main mode of communication. Response time may vary, but generally I will get back within one business day. Take your time and write a complete message. Make your need clear in the subject line and include relevant details in the body of the message. Canvas messaging works mostly, but don’t expect to send or receive attachments that way. I will not be available by phone this quarter unless circumstances change. Otherwise you’ll see me in virtual office hours.

**Virtual Office Hours:** Office hours will be an open time for questions about the course. They will be hosted in Blackboard Ultra. Details can be found in the “Blackboard Ultra”

page in the introduction section. Office hours are planned for 2-2:50PM daily during week days.

**Lectures:** Lectures will be provided in the form of pre-recorded videos. Each video will cover a single topic and be between 5-20 minutes in length. The pace of the course is not in the length of the videos but by the timing of assignments. Don't rush through these. View at your convenience and study the corresponding material in the text before attempting homework. If you have further questions please reach out and drop in to office hours.

**Attendance:** Attendance will not be given. This does not make the course any easier. You need to be self-motivated to work through the material. I hope the homework will help you find the right pace to learn.

**Grade percent breakdown:**

- HW 40%
- Quizzes 40%
- Final Exam 20%

**Grades:** Your overall grade will be calculated by percentage of completed work with the following cutoffs. Cutoffs for +/- given at my discretion, but generally the rule is 3 points above or below letter cutoffs. i.e. A- is between 90 to 93 percent, B+ is between 87 to 90 percent, etc.

$$\begin{aligned}90 &\leq A \\80 &\leq B < 90 \\70 &\leq C < 80 \\60 &\leq D < 70 \\F &< 60\end{aligned}$$

**Homework:** Homework will be assigned frequently. You will find assignments on Canvas through MyMathLab. Homework is worth 40% of your total grade. Each assignment is worth the same percent of your grade. It is expected that you keep up with the homework. You are expected to attempt all problems.

**Quizzes:** We will have 4 quizzes. Each will cover a chapter of material. Each will cover roughly 2 weeks of material. Quizzes will be given in Canvas. You will have two attempts. Your highest score is kept. The quizzes are timed for 1 hour. The quizzes are worth 40% of your total grade.

**Final Exam:** The final exam will be comprehensive. The final is worth 20% of your total grade.

**Late work and Makeup:** No late homework will be accepted. Early homework is welcome. You may not retake homework or quizzes (beyond the two attempts provided for quizzes). Makeups for homework and quizzes 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.

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](mailto:OfficeforEqualOpportunity@cwu.edu), Mitchell Hall 1st floor. Complete policies are available online at [www.cwu.edu/hr](http://www.cwu.edu/hr).

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

**Accessibility:** Students who have special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact me. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations: Hogue Hall 126, 509.963.2214, [DS@cwu.edu](mailto:DS@cwu.edu).

**Important Dates:**

April 8 First day of classes.

April 14 Add/Drop classes.

May 18 Uncontested withdrawal period deadline.

May 25 Memorial day. No classes/administrative offices closed.

June 8 Last day of class instruction.

June 8 Hardship withdrawal petition deadline.

June 9-12 FINAL EXAMS

Complete academic calendar found here: [cwu.edu/registrar/academic-calendar-class-schedule-search](http://cwu.edu/registrar/academic-calendar-class-schedule-search)

**Other:** Participation is not graded, but it is essential for your learning! I expect you to ask questions about the material. The more input I have from you, the better I can facilitate your learning needs.

Math requires lots of practice. Plan to spend a 1-2 hours outside of class for every hour in class. Reading your notes and text will only get you so far. The deepest understanding comes from working through many examples and internalizing the concepts. Having no in-person meetings I would expect that a student spends 1-3 hours each day on the material. Notice: not having in-person meetings does not mean less time is expected of you. In fact, for most students much more will be required to excel.

**Resources:**

1. **YOUR INSTRUCTOR:** I'm available for additional help several days a week during my office hours. During office hours I can help you review material, work on practice problems, answer questions related to homework, etc. If you have questions, you don't need to wait for my office hours to ask: you're welcome to e-mail me.

2. **YOUR TEXT:** The majority of the material in this class is based on the text. I recommend you keep up with the material in the book as we cover it in class. The text also has practice problems and will make a decent study guide.

3. **YOUR FELLOW STUDENTS:** Form study groups, work through homework, share notes, etc. Borrow understanding from others and share your understanding with them.