

Math 119 Syllabus

Precalculus Trigonometry

Spring 2023
2 credits

Associate Lecturer	Office Hours	Class Schedule
<p>Lisa Kennedy Office: D221 Science Building Phone: 715-346-2120</p> <p>Email: lkennedy@uwsp.edu</p>	<p>Location Wausau 087A/Marshfield</p> <p>Wednesday 12:00-12:30 Zoom Option 12:30-12:50</p> <p>Stevens Point Campus Office Science Building D221 Tuesday & Thursday 1:00-1:30pm Zoom Option 1:30-1:50</p> <p>Email to confirm Zoom meeting. Email to schedule an appointment if a different time is needed.</p>	<p>Monday and Wednesday 11:00-11:50 am Wausau room 238 Marshfield room 466 Sections M01 & W01</p> <p>Course Timeframe: January 23 - May 12, 2023 Final exam: May 17, 2023 12:30-2:30pm</p>

Prerequisite:

Math 107 or suitable placement score.

Text (rental):

Precalculus: Mathematics for Calculus, 7th Edition, by Stewart, Redlin, & Watson
(Publisher Cengage), ISBN 978-1-305-07175-9. Topics include most of Chapters 5-7.

Calculator:

A scientific calculator is required for class daily. A graphing calculator may be used, but is not required. Computers, phones, smartwatches, and devices with internet access are not allowed during exams or quizzes. The items must be stowed out of sight and set to a silent mode.

Course Communication:

Announcements, homework assignments, grade information, and other course information will be update in Canvas. To access Canvas, go to <https://www.uwsp.edu>, choose Canvas from the "Logins" dropdown menu, and use your regular campus login ID and password.

- Email is an excellent way to contact me (lkennedy@uwsp.edu).
- I will send the class **emails using your UWSP address**. Please check your email daily.

Attendance Policy:

Attendance is expected at every class meeting. It is socially responsible to take extra care to not spread germs. If you have a fever or are concerned based on symptoms like coughing/sneezing, please stay home. Email when the decision is made. It is the student's responsibility to make prompt arrangements for finding out what was missed and for making up any assigned work in the case of an absence. I recommend exchanging contact information with another student in this specific section of Math 119. Canvas is a great resource at these times.

Electronics:

Cell phones should be silenced and put away once class begins. I understand that occasionally a need to check your phone may arise. Otherwise, please put these devices away. Earphones/earbuds may not be used during class, quizzes, or exams. Cell phones and smart watches **MUST** be silenced and stowed in a backpack during quizzes and exams.

Available Support:

1. Ask questions as they arise. Come to see me before or after class, stop by during my office hours, or schedule an appointment with me for another time. It my goal for all students to learn and build confidence in mathematics. I am committed to helping each student. I believe experience and exposure are the necessary components needed to achieve success in mathematics.
2. Talk with classmates about math. Communication helps to identify the questions needed to be asked and can solidify understanding of the concepts.
3. Tutoring services are FREE. The following link has detailed information.
[Tutoring-Learning Center](#) One on One Tutoring Appointments or Drop-in options are available.
Stevens Point CCC 234 - 715-346-3568 tlctutor@uwsp.edu
Marshfield Library 715-898-6036 roleary@uwsp.edu
Wausau Library 715-261-6148 wautlc@uwsp.edu

Course Grade:

Course Grades (%) at or above	93	90	87	83	80	77	73	70	67	60
will receive at least a grade of	A	A -	B +	B	B -	C +	C	C -	D +	D

10% Homework

20 % Quizzes

50 % Exams

20% Comprehensive Final Exam

(Note: There is no such grade as a D- at this university)

I reserve the right to exercise discretion in raising a student's grade if the final weighted average does not appear to reflect the quality of a student's work (for example, because of low performance one week due to illness). I will not use discretionary judgments to lower a student's final grade.

10% Homework:

Each class period, a list of homework problems will be assigned from the textbook or online. This will be a minimal list of problems needed to understand the content to do well in this course. Completing the homework is extremely important. Plan to work on math everyday after class. The problems assigned will be odd. Students are expected to complete all problems, check the answers from the text, and ask questions during class or office hours on problems that were incorrect. The textbook assignments will be turned in and scored on the day of the quiz/exam. Late submission of assignments is docked 10% per day, zero points after 1 week.

20% Quizzes:

Quizzes will be given roughly every week. They are short and are intended to be a quick check for understanding. The goal is for the quiz to take between 5-10 minutes. A Unit Circle Quiz will take place during the second week of class. Quizzes need to score above a 70%.

50% Exams:

There will be **TWO** Unit Exams and the final exam. Must be taken **in class on the day scheduled**. Missing quizzes/exams will result in a **zero unless** an accommodation is deemed appropriate.

20% Final Exam:

The final exam will be cumulative and cover all the content, taught in the Math 119 course.

Quizzes and exams may **ONLY** be made up in special circumstances:

- If a medical emergency occurs, contact the Dean of Students or the Disability Resource Center as soon as possible (* contact info. below *). Then we can see if an exception is in order.
- If unforeseen circumstances prevent you from being present in class. Email immediately. If the exam/quiz cannot be taken prior to the absence, an **alternate version** may be given.
- If a conflict will prevent you from taking a quiz or exam on the designated date/time, contact me as soon as possible to find out if it is possible to take the quiz/exam **EARLY** with the instructor.

Math 119 Course Objectives:

Students will think and communicate mathematically through the study of trigonometry.

Students will become prepared to use trigonometric ideas in calculus classes.

Students will gain a basic understanding of most of the topics in Chapters 5 – 7 of the text, such as:

- unit circle approach to trig functions
- properties of trig and inverse trig functions
- trigonometric identities and equations
- right triangle trigonometry, the law of sines, and the law of cosines.

Weeks 1-6

- 5.1 The Unit Circle
- 5.2 Trigonometric Functions of Real Numbers
- 5.3 Trigonometric Graphs
- 5.4 More Trigonometric Graphs
- 5.5 Inverse Trigonometric Functions and Their Graphs
- 5.6 Modeling Harmonic Motion

Weeks 7-11

6.1-6.3 (Only review as needed)

Angle Measure, Trigonometry of Right Triangles, Trigonometric Functions of Angles

- 6.5 The Law of Sines
- 6.6 The Law of Cosines

Weeks 12-16

- 7.1 Trigonometric Identities
- 7.2 Addition and Subtraction Formulas
- 7.3 Double-Angle, Half-Angle, and Product-Sum Formulas
- 7.4 Basic Trigonometric Equations
- 7.5 More Trigonometric Equations
- 8.1-2 (Optional as time permits.) Polar Coordinates, Graphs of Polar Equations
- 9.1-2 (Optional as time permits.) Vectors in Two Dimensions, The Dot Product

Weekly Schedule - Spring 2023

	Week		Approximate text sections of focus	Assessments
1	January 23 – 27	M W	Introduction & 5.1	
2	January 30 – February 3	M W	5.2, 5.3	Quiz #1 Unit Circle
3	February 6 – 11	M W	5.3	Quiz #2 Sect 5.1-5.3
4	February 13 – 17	M W	5.4, 5.5	Quiz #3 Sect 5.3.-5.4
5	February 20 – 24	M W	5.5, 5.6	Quiz #4 Sect 5.4-5.5
6	February 27 – March 3	M	Review	Quiz # 5 Sect 5.5-5.6

		W		Exam 1 March 2
7	March 6 – 10	M W	6.1, 6.2	
8	March 13– 17	M W	6.2 – 6.4	Quiz #1 Sect 6.1-6.3
9	March 20 – 24	M W	6.4, 6.5	Quiz #2 Sect 6.3.-6.4
	March 27 – 31			<i>Spring Break – No classes</i>
10	April 3 – 7	M W	6.6	Quiz #3 Sect 6.4- 6.5
11	April 10 – 14	M W	Review	Quiz # 4 Sect 6.5-6.6 Exam 2 April 13
12	April 17 – 21	M W	7.1, 7.2	
13	April 24 – 28	M W	7.2, 7.3	Quiz #1 Sect 7.1-7.2
14	May 1 – 5	M W	7.4, 7.5	Quiz #2 Sect 7.2-7.4
15	May 8 – 12	M W	7.5, Review for FINAL	Quiz #3 Sect 7.4-7.5
16		Cumulative FINAL EXAM May 17, 2023		12:30-2:30pm

Lisa Kennedy
Associate Lecturer UWSP Spring 2023

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00 AM					
9:30 AM					
10:00 AM	Travel 10:15-10:45		Travel 10:15-10:45		
10:30 AM					
11:00 AM	Math 119 Sections M01 & W01 Precalculus Trigonometry Lecture 11:00-11:50 am Wausau 238, Marshfield 466 January 23- May 12		Math 119 Sections M01 & W01 Precalculus Trigonometry Lecture 11:00-11:50 am Wausau 238, Marshfield 466 January 23- May 12		
11:30 AM					
12:00 PM	Travel 12:00 -12:45	Travel 12:00 -12:45	Office hours location Wausau/Marshfield 12:00-12:30 Zoom Option 12:30-12:50	Travel 12:00 -12:45	
12:30 PM					
1:00 PM		Office Hours 1:00-1:30 pm Stevens Point Science Building Room D221 Zoom 1:30-1:50 Option	Travel 1:00-1:45	Office Hours 1:00-1:30 pm Stevens Point Science Building Room D221 Zoom 1:30-1:50 Option	
1:30 PM					
2:00 PM	Math 95 section 01 2:00-2:50 pm Science Building A207 Jan 23-March 17	Math 95 section 01 2:00-2:50 pm Science Building A207 Jan 23-March 17	Math 95 section 01 2:00-2:50 pm Science Building A207 Jan 23-March 17	Math 95 section 01 2:00-2:50 pm Science Building A207 Jan 23-March 17	
2:30 PM					
3:00 PM	Math 95 section 05 3:00-3:50 pm Science Building A213 Jan 23-March 17	Math 95 section 05 3:00-3:50 pm Science Building A213 Jan 23-March 17	Math 95 section 05 3:00-3:50 pm Science Building A213 Jan 23-March 17	Math 95 section 05 3:00-3:50 pm Science Building A213 Jan 23-March 17	
3:30 PM					
4:00 PM					
				*Important Note Courses change at 8 week mark Math 107 begins Math 95 courses	Math 107 Section 05 2nd 8 weeks 3:00-3:50 pm Science A 207 March 27 - May 12