

Math 119—Precalculus Trigonometry

Topics include trigonometric functions, their basic properties and graphs; inverse trigonometric functions; identities; applications. **2 credits**

Gretchen Renfert	Availability	Course Meeting Times														
Office: B152 Science Bldg Phone: 715-346-2919 * email: grenfert@uwsp.edu (* preferred method of contact)	<table border="0"> <tr> <td><u>Day</u></td> <td><u>Time</u></td> </tr> <tr> <td>M-R</td> <td>10:00AM – 11:30AM</td> </tr> <tr> <td>M-R</td> <td>1:00PM – 1:40 PM</td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Or by appointment</i></td> </tr> </table>	<u>Day</u>	<u>Time</u>	M-R	10:00AM – 11:30AM	M-R	1:00PM – 1:40 PM	<i>Or by appointment</i>		<table border="0"> <tr> <td><u>Sec</u></td> <td><u>Time</u></td> <td><u>Room</u></td> </tr> <tr> <td>1</td> <td>12 PM MTWR</td> <td>SCI A201</td> </tr> </table>	<u>Sec</u>	<u>Time</u>	<u>Room</u>	1	12 PM MTWR	SCI A201
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Text (rental): *Precalculus: Mathematics for Calculus*, 7th edition
 by Stewart, Redlin & Watson (Published by Cengage) ISBN: 978-1-305-07175-9
 Topics include most of those in Chapters 5-7.

Calculators: You will need a scientific calculator during portions, but not all, of the semester. Graphing calculators may be used at times, but you will not always be allowed to use a calculator on all parts of exams—do not become too dependent on using either type of calculator.

* Computers, cell phones, SMART watches, iPads or other tablets, and calculators with a “QWERTY” keyboard are not allowed during exams.

Prerequisites: Math 100 or Math 107 or a suitable placement test score

This course prepares you for: Math 120, if you did not place into Math 120

* **Caution:** You may not earn credit for both Math 112 AND Math 119

Evaluation: Course grades information will be available in CANVAS and will be determined as follows*:

15% Quizzes (see last page)		<u>Tentative Exam Dates:</u>	
20 % Exam I	in-class on	Thursday,	Sept 19
20 % Exam II	in-class on	Thursday,	Oct 3
20% Exam III	in-class on	Thursday,	Oct 17
25% Comprehensive Final Exam	IN CLASS	Wednesday,	Oct 23
100%	(2 days)	Thursday,	Oct 24

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

(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 one low exam score early in the course). I will not use discretionary judgments to lower a student’s final grade.

CANVAS Our course management system at UWSP

To access CANVAS use your regular campus logon ID and password, and then click on our course:
MATH 119 (Pre-Calculus Trigonometry)

Homework assignments, handouts, class work, grade information, and other class announcements can be found through CANVAS

Homework: Almost every day a list of homework problems will be given in class. Each of these will be a *minimal* list of problems which you need to understand in order to do well in this course. Doing the homework is extremely important, so make sure you stay on top of it and ask questions on whatever you don't understand. The homework will not be graded, but it is highly recommended that you practice doing problems on your own and **ASK QUESTIONS AT THE BEGINNING OF EACH CLASS PERIOD** regarding homework problems that you would like clarified, explained "live", etc.

* **Attendance** is expected at every class meeting. Everyone becomes ill sometimes. If you become ill, I expect you to make a reasonable effort to come to class. If the illness or other emergency require absence from class, I expect you to make every attempt to keep up with what is being taught by checking **CANVAS**, following in your book and making every attempt to do the homework.

* **Quizzes & Exams** MAY NOT be made up unless arrangements are made ahead of time.
If a dire emergency occurs, contact me as soon as possible to see if an exception is in order.

Incompletes: A grade of incomplete may be given when circumstances arise beyond the student's control and the student is unable to complete the course ***IF*** the student was passing when the circumstances arose.

Disability Accommodations: Reasonable accommodations are available for students who have a documented disability. Please notify the instructor during the first week of class of any accommodations needed for the course. For information on accommodations available to students with disabilities, call 715-346-3365, visit the Disability and Assistive Technology Center (DATC) in room 609 of the Learning Resources Center, or visit their website: <http://www.uwsp.edu/disability/Pages/default.aspx> .

All students are expected to know the UWSP Community **Rights & Responsibilities** and the **Student Academic Standards and Disciplinary Procedures** found on the Dean of Students webpage at <https://www.uwsp.edu/dos/Pages/stu-academic.aspx> This is an excellent place for you to find more information about Academic Concerns, Conduct Concerns, Personal Concerns, and more.

Food/Beverage: I would prefer that you not eat in class. I find food to be a distraction.

Cell Phones: I understand that occasionally you may want to take a picture of what is on the board. Other than that, cell phones should be silenced and put away once class begins.

For Academic Support:

- 1) Ask questions as they arise.
- 2) See me before or after class, during my office hours, or check to see if I am available at other times.
- 3) **The Math Help Room** in the Science Building offers free drop-in tutoring just off the Main Lobby of the older part of the building, room **SCI A113A**.
- 4) **The Tutoring Learning Center** (lower level of the **ALB**) offers support as well.

(See the next page for locations and more information)

Tutoring

The Tutoring-Learning Center (TLC) and the Department of Mathematical Sciences offer free group and drop-in tutoring to support you in your math classes. In addition, the TLC offers the option for individual math tutoring sessions. The tutors are UWSP students who have done well in their classes and who are here to share their successful study habits and math content knowledge to help others succeed. Discussing mathematical concepts and practicing problems together clarifies and solidifies knowledge, and the tutors are eager to study with you.

If you have questions about the schedules or would like to make an appointment, please:

1. Visit the TLC in ALB 018 (library basement),
2. Email (tlctutor@uwsp.edu), or
3. Call (715) 346-3568 for information.

Math and Science Tutoring – Fall 2019

What	Details	Schedule	Cost
Drop-In Tutoring Center	DUC 205	https://www.uwsp.edu/tlc/Pages/dropInTutoring.aspx (Begins the 2 nd week of class)	Free
Group Tutoring	Based on course section	https://www.uwsp.edu/tlc/Pages/schedules.aspx (Begins the 3 rd week of class)	Free
One-on-One Tutoring	By appointment	https://www.uwsp.edu/tlc/Pages/CA-tutoring.aspx Beginning the 2 nd week of class, visit ALB 018 (in the library basement) to make a request.	\$9.00/session* <i>*Fee waived for students listed as low-income</i>
The Math Room	SCI A113A	https://www.uwsp.edu/mathsci/Pages/tutoring.aspx	Free
The MathPad <i>*Math 90, 95, 107 only</i>	CCC 302	https://www.uwsp.edu/mathsci/Pages/tutoring.aspx	Free
The Physics Room	SCI A105	https://www.uwsp.edu/physastr/Pages/Tutoring.aspx	Free

Renfert's Schedule:

	Monday	Tuesday	Wednesday	Thursday	* Friday
8:00 - 8:50	Math 107.2 Sci A210	Math 107.2 Sci A210	Math 107.2 Sci A210	Math 107.2 Sci A210	(Oct 28 - Dec 13)
9:00 - 9:50	Math 109.1 Sci A210	Math 109.1 Sci A210	Math 109.1 Sci A210	Math 109.1 Sci A210	<i>Not on campus</i>
10:00 - 10:50	Office Hour	Office Hour	<i>Meeting</i>	Office Hour	
11:00 - 11:50	<i>Lunch</i>				
12:00 - 12:50	Math 119.1 Sci A201	Math 119.1 Sci A201	Math 119.1 Sci A201	Math 119.1 Sci A201	(Sept 3 - Oct 25)
1:00 - 1:50	Office Hour	Office Hour	Office Hour	Office Hour	<i>Not on campus</i>
2:00 - 2:50	Math 109.2 Sci A208	Math 109.2 Sci A208	Math 109.2 Sci A208	Math 109.2 Sci A208	
3:00 - 3:50	*	*	*	*	
4:00 - 4:50	* Available by appointment				

* Tentative Schedule for Trigonometry, 8 weeks *

Week	Dates	Sections	Topic
1	Sept 3 - 5	6.1 6.2 6.2	Introduction & Angle Measure Trigonometry of Right Triangles (continued) Special Triangles
2	Sept 9 - 12	6.3 6.4 6.5	Trigonometric Functions of Angles Inverse Trigonometric Functions & Right Triangles The Law of Sines
		Quiz 1	Thursday, September 12 (Chpt 6.1-6.4)
3	Sept 16 - 19	6.6 6.6 Review	The Law of Cosines Additional Area Formulas Chapter 6.1 - 6.6
		Exam 1	Thursday, September 19
4	Sept 23 - 26	5.1 5.2 5.3	The Unit Circle Trigonometric Functions of Real Numbers Trigonometric Graphs
		5.4 & Quiz 2	More Trigonometric Graphs & Quiz 2 (Chpt 5.1-5.2)
5	Sept 30 – Oct 3	5.4 5.5 Review	(Day 2) Transformations of Graphs of Trig Functions Inverse Trigonometric Functions & Their Graphs Chapter 5.1 - 5.6
		Exam 2	Thursday, October 3
6	Oct 7 - 10	5.6 7.1 7.2	Modeling Harmonic Motion Trigonometric Identities Addition & Subtraction Formulas
		7.3 & Quiz 3	Double, Half Formulas & Quiz 3 (Chpt 7.1-7.2)
7	Oct 14 - 17	7.4 7.5 Review	Basic Trigonometric Equations More Trigonometric Equations Chapter 7.1-7.5
		Exam 3	Thursday, October 17
8	Oct 21 - 24	Review Review	Exam 3 results and Review for Final Chapters 5-7
		Final: Day 1	(In class) Wednesday, October 23
		Final: Day 2	(In class) Thursday, October 24