

Math 119 Syllabus (Spring 2022, Section 01)

Instructor: Austin Hitz

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Office Hours: Wed: 12-3pm, Fri: 11am-1pm, or by Appointment

Class Time: M, T, Th, F: 10:00am-10:50am

Location: Science Building A208

Modality of Course: This course is taught in the traditional face-to-face format.

Course Description: Trigonometric functions, their basic properties and graphs; inverse trigonometric functions; identities; applications. Preparation for Math 225 if you did not place into Math 225. Prereq: 100 or Math 107, or suitable placement test score.

Required Course Text: Stewart, Redin & Watson, *Mathematics for Calculus* 7th ed., Cengage

Calculator: A graphing calculator will be necessary in this course and should be used on exams.

Teaching Methods:

- A variety of methods may be used to teach the course including traditional lecture, class discussion, working in groups, and video presentations.
- Coursework will consist primarily of weekly homework assignments, occasional quizzes, tests, and a final cumulative exam.

My Expectations of Students:

- It is expected that you will attend class, **read/review the chapters** in a timely fashion, and actively participate in learning the material.
- It is also expected that you keep up with the given assignments, ask questions when topics are unclear, and utilize your resources such as office hours or tutoring.
- All coursework must be of your own as cheating/plagiarism will not be tolerated as in UWSP rules and guidelines.
- All students are expected to behave politely and professionally.

Attendance Policy: Attendance will be monitored and worth a minor portion of your grade. It is imperative to attend all classes and it is your responsibility to communicate with the instructor if a class is missed. You will be held responsible for learning the material missed.

Late Work Policy: Be sure to pay close attention to deadlines—there will be no make-up assignments, quizzes, or exams. If there is compelling reason for an absence (and documentation) a student may be allowed to make up an assignment with the instructor's permission. Late work is also not accepted without a valid, documented reason.

Assignments: For each section of material covered, a problem set will be provided. All problem sets must be completed in order to succeed in the course. I will announce when/if an assignment will be graded and its due date (not all assignments will be graded). When odd numbered problems are assigned, feel free to use the back of the book to verify your answer is correct. If it is incorrect, fix it and learn from it.

Gaining the Most Out of the Course: Studying and learning styles are very personal and different. In order to gain the most out of the course I suggest taking notes, reading the chapters, completing homework on time, reviewing past course work, asking questions, utilizing office hours, finding fellow students to study with (safely), and most importantly *not procrastinating!!*

Extra Help and Tutoring: The Tutoring-Learning Center (TLC) offers free group, drop-in, and individual tutoring to support you in your math classes. 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 contact the TLC via email (tlctutor@uwsp.edu) or phone (715-346-3568) for information.

Disability Statement: UWSP provides students with disabilities reasonable accommodations to participate in educational programs, activities, and services. Students with disabilities requiring accommodations to participate in class activities or meet course requirements should contact me as early as possible. If you have a disability or acquire a condition during the semester where you need assistance, please contact the Disability and Assistive Technology Center on the 6th floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or via DATC@uwsp.edu.

Special Assistance: Please let me know as soon as possible if you are having difficulty with the course/content. We can make arrangements to meet up, establish tutoring, or other accommodations to try to facilitate your learning.

Grading/Evaluation:

Tests: 40%

Quizzes/Homework: 30%

Final Exam: 30%

*Missing a test or quiz without documentation for the absence will result in a zero score.

Grade Scale:

A	95-100%
A-	90-94.99%
B+	87-89.99%
B	84-86.99%
B-	80-83.99%
C+	77-79.99%
C	74-76.99%
C-	70-73.99%
D+	67-69.99%
D	61-66.99%
F	Less than 61%

Tentative Schedule/Outline:

Week	Topics
1	Introduction 5.1 The Unit Circle 5.2 Trigonometric Functions of Real Numbers
2	5.3 Trigonometric Graphs 5.4 More Trigonometric Graphs
3	5.5 Inverse Trigonometric Functions and Their Graphs 7.1 Trigonometric Identities Exam 1 (Chapter 5) on Friday Feb. 11th
4	7.2 Addition and Subtraction Formulas 7.3 Double-Angle, Half-Angle, and Product-Sum Formulas
5	7.4 Basic Trigonometric Equations 7.5 More Trigonometric Equations
6	5.6 Modeling Harmonic Motion 6.1-3 (Only review as needed.) Angle Measure, Trigonometry of Right Triangles, Trigonometric Functions of Angles Exam 2 (Chapter 7) on Friday Mar. 4th
7	6.5 The Law of Sines 6.6 The Law of Cosines
8	Final Exam Review Final Exam on March 17th & 18th in Sci. Bld. A208 (normal class time)

*8.1-2 (Optional as time permits.) Polar Coordinates, Graphs of Polar Equations

or

*9.1-2 (Optional as time permits.) Vectors in Two Dimensions, The Dot Product