

Fall 2024
MA115: Pre-Calculus
The Science Building 1705
M,T,W,R 4 - 4:50 AM

Instructor: Shelby Juidici

Instructor email: sjuidici@nmu.edu

Office hours: Jamrich 2232

Monday and Wednesday 2-3:50 PM

(If these times do not work for you, we can arrange a different time to meet)

Text: Algebra and Trigonometry by Larson

COURSE DESCRIPTION The study of exponential, logarithmic, and trigonometric equations and functions. Includes a review of higher degree polynomial and rational functions.

Prerequisite: Placement Exam or MA111 (C- or better) or MA100 (A- or better)

Course Materials: (NOT REQUIRED) *Algebra & Trigonometry , 10th Edition*. Author: Ron Larson. ISBN-10: 1-337-27117-9. The book can be bought both in a physical copy, or with an online copy at the NMU bookstore, an online copy can also be bought at www.webassign.com .
Scientific calculator.

Course Learning Outcomes

1. Manipulate and interpret functions, including absolute values, polynomials (including polynomials of degree greater than 2 and the fundamental theorem of algebra), rational functions, logarithms, exponential functions, and inverse functions.
2. Apply algebraic techniques in solving linear, quadratic, logarithmic, exponential, and trigonometric equations. Determine when the use of the Law of Sines is appropriate, vs the Law of Cosines.
3. Recall, define, and apply basic identities involving sine, cosine, tangent, secant, cosecant, cotangent, and their inverse functions. **Apply angle sum and difference formulas, including half-angle and double angle formulas.**
4. Recognize graphs of the trigonometric functions and their inverses. Identify amplitude, period, vertical shift, and phase shift

Homework: Assignments will be completed online through WebAssign.

You can create an account here: <https://www.webassign.net>

Class Key: nmu 9534 6745

Homework will be done through WebAssign online. Assignments will be due at 11:59 each Saturday. Do not start the homework on Saturday, as there are roughly 4 homework assignments due each week. All assignments will be made available from the first day of the semester if you choose to work ahead. If you already have a WebAssign account from another

class, then use the key to find the course. If not – on the login page click the button that says “I have a class key” and follow the prompts to register for the class and create an account.

Exams: *YOU ARE NOT ALLOWED TO USE GRAPHING CALCULATORS!!!!!!!!!!* There will be four in-class exams and a comprehensive final exam. To receive a passing grade in the course, you need to earn at least 60% on the final exam.

Course Grading: Homework: 15%	Course Grade: 90-100% - A
Exams (4): 40%	80-89% - B
Final Exam: 35%	70-79% - C
Quizzes: 10%	60%-69% - D
	0-59% - F

About me:

Normally I am a rather informal, laid back person, but there are a few things which tend to make me unhappy. Here's a short list:

- 1. repeatedly skipping class and expecting me to “lecture” during office hours (I don't mind covering the material with you in my office, but there is only so much we can cover in one sitting.)**
- 2. cheating, etc.**
Cheating will result in failure of not only the exam / assignment, but also the course.
- 3. frequently requesting extensions**
I understand that life happens and you may not be able to turn in the assignment on time, but please do not make it an “every assignment” thing. You are granted an automatic extension if requested.

ADA Statement

If you have a need for disability-related accommodations or services, please inform the Coordinators of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (906-227-1737 or disability@nmu.edu). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and university guidelines.

VETERANS SERVICES STATEMENT

If you are a veteran and need assistance with your benefits or are experiencing complications with your education due to military service connected issues, contact the Veteran Resource Representative in 2101 Hedgcock (227-1402 or mrutledg@nmu.edu). The Veteran Resource Representative can advocate for you before the Veterans Administration and can also help you solve any veteran specific issues you may have.

Religious and Spiritual Observance Statement

Faculty, staff, and students practice a variety of religious and spiritual traditions, which enhance the diversity of our campus community. NMU acknowledges that scheduling conflicts between required academic activities and religious and spiritual obligations are inevitable. Additionally, we recognize that some religious and spiritual obligations extend for multiple days and/or start at sundown of one day and extend through sundown of another day. In the event of conflicts, I

will make every effort to help students avoid any negative academic consequences of observing religious and spiritual obligations. Students should consider the implications of missing class due to religious and spiritual obligations and should take into consideration these impacts when making decisions regarding any other absences during the term.

When an exam, assignment, or class conflicts with a religious or spiritual obligation, students are responsible for notifying me in advance of the date(s). You are not exempt from meeting course requirements or completing assignments in a timely manner as determined

As always, but particularly in light of current global conditions
This syllabus is subject to change with notice.