

MATH 1513 - Algebra and Transcendental Function

Fall 2026 Syllabus, Section 01, CRN 43427,

Credit hours: 5

Instructor

Alayne Leone

Email: amleone@ysu.edu

Public Instructor Information

Instructor Title: Senior Lecturer

Instructor Professional Qualifications: *Master's, Mathematics, Youngstown State University*

Bachelor's, Mathematics, Youngstown State University

Instructor Office Location: Cafaro Hall Room 526

Instructor Office Phone: 330-941-1383

Course Description

1513. Algebra and Transcendental Function. Function concepts including trigonometric, exponential, and logarithmic functions. Application problems and graphing. Supplemental topics. Prereq.: Math Placement Level 45 or higher. 5 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Precalculus: An Investigation of Functions (edition2.3)	Lippman & Rasmussen	

This is a free, open-source textbook. Don't buy anything unless you want a physical copy.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Module 1	Functions	
8/31	Module 1	Functions	
9/7	Module 2	Linear Functions	
9/14	Module 2	Linear Functions	
9/21	Module 3	Polynomial and Rational Functions	
9/28	Module 3	Polynomial and Rational Functions	
10/5	Module 3	Polynomial and Rational Functions	
10/12	Module 4	Exponential and Logarithmic Functions	
10/19	Module 4	Exponential and Logarithmic Functions	
10/26	Module 5	Trigonometric Functions	
11/2	Module 5	Trigonometric Functions	
11/9	Module 5	Trigonometric Functions	
11/16	Module 6	Trigonometric Equations and Identities	
11/23	Module 6	Trigonometric Equations and Identities	
11/30	Module 6	Trigonometric Equations and Identities	
12/7	Finals Week		

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.