

Math 0205: Bridge to Calculus

Course Outlines

Week / Module	Date	Lecture Note/Set of Practice Problems	Topics
1	June 27-30	1	Angles. Unit Circle Trigonometric Functions and Their Properties Trigonometric Identities Assignment 1 is due. Quiz 1
2	July 5-7	2	Graphs of Trigonometric Functions Inverse Trigonometric Functions The Law of Sines and the Law of Cosines Limits of Expressions with Trigonometric Functions Continuity Assignment 2 is due. Quiz 2
3	July 11-14	3	Derivatives of the First and Higher Orders Derivatives of Trigonometric Functions Basic Differentiation Formulas Product, Quotient, and Chain Rules Logarithmic and Implicit Differentiation Related Rates Assignment 3 is due. Quiz 3
4	July 18-21	4	Inverse Trigonometric Functions and Their Derivatives Extrema of Trigonometric Functions Linear Approximation Indeterminate Forms and L'Hospital's Rule Assignment 4 is due. Quiz 4
5	July 25-28	5	Antiderivatives of Trigonometric Functions Definite Integral Fundamental Theorem of Calculus Integration by Substitution and by Parts Assignment 5 is due. Quiz 5
6	August 1-3	6	Trigonometric Integrals Trigonometric Substitution in Integrals Assignment 6 is due. Quiz 6
	August 4		Final Exam