

MATH 1572 - Calculus 2

Fall 2026 Syllabus, Section 03, CRN 40499,

Credit hours: 4

Instructor

Mason Martuccio

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Public Instructor Information

Instructor Title: Mr. Mason Martuccio

Instructor Professional Qualifications:

- Ph.D. (currently pursuing), Mathematics Education, Kent State University
- M.A., Applied Mathematics, Kent State University
- B.S., Mathematics, Youngstown State University

Instructor Office Location: Cafaro Hall 616 & BC0E 2420

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Course Description

1572. Calculus 2. A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications. Prereq.: C or better in MATH 1571, MATH 1571H, MATH 1581, MATH 1581H, or MATH 1585H. 4 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Calculus, Volume 1	Gilbert Strand & Edwin "Jed" Herma	978-1-947172-13-5
Required	Calculus, Volume 2	Gilbert Strand & Edwin "Jed" Herma	978-1-947172-14-2
Optional	Active Calculus, 2018 Edition	Matthew Boelkins, David Austin, & Steven Schlicker	978-1-724458-32-2

These books are open-source (free) and are available to you on Blackboard.

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

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Mon	8/24	None	Review over syllabus Differentiation and Integration Review	None
Wed	8/26	Section 1.4 (V1) Section 1.5 (V1)	M1S1: Inverse Functions M1S2: Exponential and Logarithmic Functions QUIZ	PC M1S1 due 12:00 pm PC M1S2 due 12:00 pm HW Prereq Review due 11:59 pm
Mon	8/31	Section 3.7 (V1) Section 5.7 (V1)	M1S3: Derivatives of Inverse Functions M1S4: Derivatives of Exponential and Logarithmic Functions	PC M1S3 due 12:00 pm PC M1S4 due 12:00 pm HW M1S1 due 11:59 pm HW M1S2 due 11:59 pm

Wed	9/2	Section 5.6 (V1) Section 5.7 (V1)	M1S5: Integrals Involving Exponential and Logarithmic Functions M1S6: Integrals Resulting in Inverse Trigonometric Functions QUIZ	PC M1S5 due 12:00 pm PC M1S6 due 12:00 pm HW M1S3 due 11:59 pm HW M1S4 due 11:59 pm
Mon	9/7	No Class		
Wed	9/9	Section 4.8 (V1)	M1S7: L'Hopital's Rule Review for Exam 1 QUIZ	PC M1S7 due 12:00 pm HW M1S5 due 11:59 pm HW M1S6 due 11:59 pm
Mon	9/14	None	EXAM 1 (Module 1)	HW M1S7 due Sunday, 9/13 11:59 pm
Wed	9/16	Section 3.1	M2S1: Integration by Parts	PC M2S1 due 12:00 pm
Mon	9/21	Section 3.2	M2S2: Trigonometric Integrals	PC M2S2 due 12:00 pm HW M2S1 due 11:59 pm
Wed	9/23	Section 3.3	M2S3: Trigonometric Substitution QUIZ	PC M2S3 due 12:00 pm HW M2S2 due 11:59 pm
Mon	9/28	Section 3.4	M2S4: Partial Fractions	PC M2S4 due 12:00 pm HW M2S3 due 11:59 pm
Wed	9/30	None	Integration Review Quiz	HW M2S4 due 11:59 pm
Mon	10/5	Section 3.7	M2S5: Improper Integrals INTEGRATION GATEWAY EXAM	PC M2S5 due 12:00 pm
Wed	10/7	Section 2.4 Section 2.6	M3S1: Arc Length of a Curve M3S2: Moments and Center of Mass	PC M3S1 due 12:00 pm PC M3S2 due 12:00 pm HW M2S5 due 11:59 pm
Mon	10/12	Paul's Online Math Notes/Section 2.4 Section 2.8 Section 4.3	M3S3: Probability/Area of a Surface of Revolution (Choose ONE) M3S4: Separable Differential Equations	PC M3S3 due 12:00 pm PC M3S4 due 12:00 pm HW M3S1 due 11:59 pm HW M3S2 due 11:59 pm
Wed	10/14	None	M3S4: Separable Differential Equations Review for Exam 2 QUIZ	HW M3S3 due 11:59 pm
Mon	10/19	None	EXAM 2 (Modules 2 & 3)	HW M3S4 due Sunday, 10/18 11:59 pm
Wed	10/21	Section 7.1 Section 7.2	M4S1: Parametric Equations M4S2: Calculus of Parametric Curves	PC M4S1 due 12:00 pm PC M4S2 due 12:00 pm
Mon	10/26	Section 7.3	M4S3: Polar Coordinates	PC M4S3 due 12:00 pm HW M4S1 due 11:59 pm HW M4S2 due 11:59 pm
Wed	10/28	Section 7.4	M4S4: Area and Arc Length in Polar Coordinates QUIZ	PC M4S4 due 12:00 pm HW M4S3 due 11:59 pm
Mon	11/2	Section 5.1 Section 5.2	M5S1: Sequences M5S2: Infinite Series	PC M5S1 due 12:00 pm PC M5S2 due 12:00 pm HW M4S4 due 11:59 pm
Wed	11/4	Section 5.3 Section 5.4	M5S3: The Divergence and Integral Tests M5S4: Comparison Tests QUIZ	PC M5S3 due 12:00 pm PC M5S4 due 12:00 pm HW M5S1 due 11:59 pm HW M5S2 due 11:59 pm
Mon	11/9	Section 5.5 Section 5.6	M5S5: Alternating Series M5S6: Ratio and Root Tests	PC M5S5 due 12:00 pm PC M5S6 due 12:00 pm HW M5S3 due 11:59 pm HW M5S4 due 11:59 pm
Wed	11/11	No Class		
Mon	11/16	Section 6.1 Section 6.2	M5S7: Power Series and their Properties	PC M5S7 due 12:00 pm HW M5S5 due 11:59 pm HW M5S6 due 11:59 pm

Wed	11/18	Section 6.3 Section 6.4	M5S8: Taylor and Maclaurin Series Review for Exam 3 QUIZ	PC M5S8 due 12:00 pm HW M5S7 due 11:59 pm
Mon	11/23	None	EXAM 3 (Modules 4 & 5)	HW M5S8 due Sunday, 11/22 11:59 pm
Wed	11/25	No Class		
Mon	11/30	None	Review for Final Exam	None
Wed	12/2	None	Review for Final Exam Exam Retake Day	None

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.