

MATH 2613: Unified Calculus & Analytic Geometry III

Fall 2026

University of Mississippi

Instructor: Yunfeng (Walt) Zhang

Tentative Course Schedule

The schedule may be adjusted according to the pace and needs of the class.

Date	Section	Topic
Tue. Aug. 25	10.2	Sequences
Thu. Aug. 27	10.3	Infinite Series
Tue. Sept. 1	10.4	The Divergence and Integral Tests
Thu. Sept. 3	10.5	Comparison Tests
<i>Sept. 4: Last day to withdraw with a refund</i>		
Tue. Sept. 8	10.6	Alternating Series
Thu. Sept. 10	10.7	The Ratio and Root Tests
Tue. Sept. 15	10.8	Choosing a Convergence Test
Thu. Sept. 17	11.1	Approximating Functions with Polynomials
Tue. Sept. 22	11.2	Properties of Power Series
Thu. Sept. 24	11.3	Taylor Series
Tue. Sept. 29	11.4	Working with Taylor Series
Thu. Oct. 1	Catch-up / Review	
Tue. Oct. 6	Test 1	Test 1
Thu. Oct. 8	12.1	Parametric Equations
<i>Oct. 12: Last day to withdraw without a refund</i>		
Tue. Oct. 13	12.2	Polar Coordinates
Thu. Oct. 15	12.3	Calculus in Polar Coordinates
Tue. Oct. 20	13.1	Vectors in the Plane
Thu. Oct. 22	13.2	Vectors in Three Dimensions
Tue. Oct. 27	Catch-up / Review	
Thu. Oct. 29	Test 2	Test 2
Tue. Nov. 3	13.3	Dot Products
Thu. Nov. 5	13.4	Cross Products
Tue. Nov. 10	14.1	Vector-Valued Functions
Thu. Nov. 12	14.2	Calculus of Vector-Valued Functions
Tue. Nov. 17	14.3	Motion in Space
Thu. Nov. 19	Test 3	Test 3
Tue. Nov. 24	—	Thanksgiving Break — No Class
Thu. Nov. 26	—	Thanksgiving Break — No Class
Tue. Dec. 1	Review	Comprehensive Review I
Thu. Dec. 3	Review	Comprehensive Review II

The comprehensive final examination will be given at the date and time specified by the University of Mississippi final examination schedule.