

MATH 143 Calculus III – Fall 2020

MTRF 7:10-8:00am (Section 1) and 8:10-9:00am (Section 3)

Class web page: https://web.calpoly.edu/~echarala/teaching/143/math_143_F20/

Tentative Schedule

Date	Lectures	Events
9/14 M	10.1 Curves Defined by Parametric Equations	
9/15 T	10.2 Calculus with Parametric Curves (Part 1)	
9/17 R	10.2 Calculus with Parametric Curves (Part 2)	
9/18 F	10.3 Polar Coordinates (Part 1)	
9/21 M	10.3 Polar Coordinates (Part 2)	
9/22 T	10.4 Areas and Lengths in Polar Coordinates	
9/24 R	11.1 Sequences (Part 1)	
9/25 F	11.1 Sequences (Part 2)	
9/28 M	11.1 Sequences (Part 3)	
9/29 T	11.2 Series (Part 1)	
10/1 R	11.2 Series (Part 2)	
10/2 F	11.3 The Integral Test and Estimates of Sums (Part 1)	Study 10.1-10.4; 11.1-11.3 for Midterm #1
10/5 M	11.3 The Integral Test and Estimates of Sums (Part 2)	
10/6 T	11.4 Comparison Tests	Review Session at 1:00-2:15pm
10/8 R	11.5 Alternating Series	Midterm #1 on 10.1-10.4; 11.1-11.3
10/9 F	11.6 Absolute Convergence	
10/12 M	11.6 & 11.7 Ratio and Root Tests /Strategy for Series	
10/13 T	11.8 Power Series	
10/15 R	11.9 Representation of Functions as Power Series	
10/16 F	11.10 Taylor and McLaurin Series (Part 1)	
10/19 M	11.10 Taylor and McLaurin Series (Part 2)	
10/20 T	11.10 Taylor and McLaurin Series (Part 3)	
10/22 R	12.1 Three-Dimensional Coordinate Systems	
10/23 F	12.2 Vectors (Part 1)	
10/26 M	12.2 Vectors (Part 2)	
10/27 T	12.3 The Dot Product (Part 1)	
10/29 R	12.3 The Dot Product (Part 2)	
10/30 F	12.3 The Dot Product (Part 3)	Study 11.4-11.10; 12.1-12.3 for Midterm #2
11/2 M	12.4 The Cross Product (Part 1)	
11/3 T	12.4 The Cross Product (Part 2)	Review Session at 1:00-2:15pm
11/5 R	12.4 The Cross Product (Part 3)	Midterm #2 on 11.4-11.10; 12.1-12.3
11/6 F	12.5 Equations of Lines and Planes (Part 1)	
11/9 M	12.5 Equations of Lines and Planes (Part 2)	
11/10 T	12.5 Equations of Lines and Planes (Part 3)	Veterans' Day on Wednesday, 11/11
11/12 R	12.5 Equations of Lines and Planes (Part 4)	
11/13 F	13.1 Vector Functions and Space Curves	

Date	Lectures	Events
11/16 M	13.2 Derivatives and Integrals of Vector Functions	
11/17 T	13.3 Arc Length and Curvature (Part 1)	
11/19 R	13.3 Arc Length and Curvature (Part 2)	
11/20 F	13.3 Arc Length and Curvature (Part 3)	
11/23 M	13.4 Motion in Space: Velocity and Acceleration (Part 1)	
11/24 T	13.4 Motion in Space: Velocity and Acceleration (Part 2)	Review Session at 1:00-2:15pm
11/26 R	No class	Thanksgiving Break
11/27 F	No class	Thanksgiving Break