MATH 143 Calculus III – Spring 2020

MTRF 8:10-9:00am

Class web page: https://web.calpoly.edu/~echarala/teaching/143/math_143_S20/

Tentative Schedule

Date	Lectures	Events
4/6 M	10.1 Parametric Equations	
4/7 T	10.2 Calculus with Parametric Curves (Part 1)	
4/9 R	10.2 Calculus with Parametric Curves (Part 2)	
4/10 F	10.3 Polar Coordinates (Part 1)	
4/13 M	10.3 Polar Coordinates (Part 2)	
4/14 T	10.4 Areas and Lengths in Polar Coordinates	
4/16 R	11.1 Sequences (Part 1)	
4/17 F	11.1 Sequences (Part 2)	
4/20 M	11.1 Sequences (Part 3)	
4/21 T	11.2 Series (Part 1)	
4/23 R	11.2 Series (Part 2)	
4/24 F	11.3 The Integral Test and Estimates of Sums (Part 1)	**Study 10.1-10.4; 11.1-11.3 for Midterm #1**
4/27 M	11.3 The Integral Test and Estimates of Sums (Part 2)	
4/28 T	11.4 Comparison Tests	**Review Session at 3:10-5:00pm**
4/30 R	11.5 & 11.6 Alternating Series/Absolute Convergence	
5/1 F	11.6 & 11.7 Ratio and Root Tests/Strategy for Series	**Midterm #1 on 10.1-10.4; 11.1-11.3**
5/4 M	11.8 Power Series	
5/5 T	11.9 Representation of Functions as Power Series	
—"—	11.10 Taylor and McLaurin Series (Part 1)	
5/7 R	11.10 Taylor and McLaurin Series (Part 2)	
5/8 F	11.10 Taylor and McLaurin Series (Part 3)	
5/11 M	12.1 Three-Dimensional Coordinate Systems	
5/12 T	12.2 Vectors	
5/14 R	12.3 The Dot Product (Part 1)	
5/15 F	12.3 The Dot Product (Part 2)	**Study 11.4-11.10; 12.1-12.3 for Midterm #2**
5/18 M	12.4 The Cross Product (Part 1)	
5/19 T	12.4 The Cross Product (Part 2)	**Review Session at 3:10-5:00pm**
5/21 R	12.5 Equations of Lines and Planes (Part 1)	
5/22 F	12.5 Equations of Lines and Planes (Part 2)	**Midterm #2 on 11.4-11.10; 12.1-12.3**
5/25 M	**No class**	**Memorial Day**
5/26 T	13.1 Vector Functions and Space Curves	
5/28 R	13.2 Derivatives and Integrals of Vector Functions	
5/29 F	13.3 Arc Length and Curvature (Part 1)	
6/1 M	13.3 Arc Length and Curvature (Part 2)	
6/2 T	13.3 Arc Length and Curvature (Part 3)	
6/4 R	13.4 Motion in Space: Velocity and Acceleration (Part 1)	
6/5 F	13.4 Motion in Space: Velocity and Acceleration (Part 2)	**Review Session at 3:10-5:00pm**