MATH 143 Calculus III – Fall 2022

MTRF 09:10-10:00am (38-218)

Class web page: https://www.egcharalampidis.com/teaching/143_F22/math_143_F22/

Tentative Schedule

Date	Lectures	Events
9/19 M	10.1 Curves Defined by Parametric Equations	
9/20 T	10.2 Calculus with Parametric Curves (Part I)	
9/22 R	10.2 Calculus with Parametric Curves (Part II)	
9/23 F	10.3 Polar Coordinates (Part I)	
9/26 M	10.3 Polar Coordinates (Part II)	
9/27 T	10.4 Areas and Lengths in Polar Coordinates	
9/29 R	11.1 Sequences (Part I)	**Quiz #1: 10.1-10.4**
9/30 F	11.1 Sequences (Part II)	
10/3 M	11.1 Sequences (Part III)	
10/4 T	11.2 Series (Part I)	
10/6 R	11.2 Series (Part 2)	
10/7 F	11.3 The Integral Test and Estimates of Sums (Part I)	**Study 10.1-10.4; 11.1-11.2 for Midterm #1**
10/10 M	11.3 The Integral Test and Estimates of Sums (Part II)	
10/11 T	11.4 Comparison Tests	**Review Session***
10/12 W	**No class**	**Quiz #2: 11.1-11.2**
10/13 R	11.5 Alternating Series & 11.6 Absolute Convergence	
10/14 F	**Midterm #1** (10.1-10.4; 11.1-11.2)	
10/17 M	11.7 Ratio and Root Tests/Strategy for Series	
10/18 T	11.8 Power Series	
10/20 R	11.9 Representation of Functions as Power Series	
10/21 F	11.10 Taylor and McLaurin Series (Part I)	
10/24 M	11.10 Taylor and McLaurin Series (Part II)	
10/25 T	12.1 Three-Dimensional Coordinate Systems	
10/27 R	12.2 Vectors (Part I)	**Quiz #3: 11.3-11.10**
10/28 F	12.2 Vectors (Part II)	**Study 11.3-11.10 for Midterm #2**
10/31 M	12.3 The Dot Product (Part I)	**Study 12.1-12.3 for Midterm #2**
11/1 T	12.3 The Dot Product (Part II)	
11/2 W	**No class**	**Quiz #4: 12.1-12.3**
11/3 R	12.4 The Cross Product (Part I)	**Review Session***
11/4 F	**Midterm #2** (11.3-11.10; 12.1-12.3)	
11/7 M	12.4 The Cross Product (Part II)	
11/8 T	12.5 Equations of Lines and Planes (Part I)	
11/10 R	12.5 Equations of Lines and Planes (Part II)	
11/11 F	**No class**	**Veterans' Day on Thursday, 11/11**

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*Please, see the Syllabus for the time and location.

Date	Lectures	Events
11/14 M	12.5 Equations of Lines and Planes (Part III)	
11/15 T	13.1 Vector Functions and Space Curves	
11/17 R	13.2 Derivatives and Integrals of Vector Functions	
11/18 F	13.3 Arc Length and Curvature (Part I)	**Quiz #5: 12.4-12.5; 13.1-13.2**
11/21 M	**No class**	**Thanksgiving Break**
11/22 T	**No class**	**Thanksgiving Break**
11/24 R	**No class**	**Thanksgiving Break**
11/25 F	**No class**	**Thanksgiving Break**
11/28 M	13.3 Arc Length and Curvature (Part II)	
11/29 T	13.3 Arc Length and Curvature (Part III)	
12/1 R	13.4 Motion in Space: Velocity and Acceleration (Part I)	
12/2 F	13.4 Motion in Space: Velocity and Acceleration (Part II)	**Review Session**[*]
12/3 S	**No class**	**Quiz #6: 13.3-13.4**