MATH 241 Calculus IV – Fall 2021

MTRF 7:10-8:00am (Section 1) and 8:10-9:00am (Section 2)

Class web page: https://www.egcharalampidis.com/teaching/241_F21/math_241_F21/

Tentative Schedule

Date	Lectures	Events
9/20 M	12.6 Cylinders and Quadric Surfaces	
9/21 T	14.1 Functions of Several Variables (Part I)	
9/23 R	14.1 Functions of Several Variables (Part II)	
9/24 F	14.2 Limits and Continuity	
9/27 M	14.3 Partial Derivatives	
9/28 T	14.4 Tangent Planes and Linear Approximations	
9/30 R	14.5 The Chain Rule	
10/1 F	14.6 Directional Derivatives and the Gradient Vector (Part I)	
10/4 M	14.6 Directional Derivatives and the Gradient Vector (Part II)	
10/5 T	14.7 Maximum and Minimum Values	
10/7 R	14.8 Lagrange Multipliers (Part I)	
10/8 F	14.8 Lagrange Multipliers (Part II)	**Study 12.6; 14.1-14.8 for Midterm #1**
10/11 M	15.1 Double Integrals over Rectangles (Part I)	
10/12 T	15.1 Double Integrals over Rectangles (Part II)	**Review Session TBA**
10/14 R	15.2 Double Integrals over General Regions (Part I)	
10/15 F	**Midterm #1** (12.6; 14.1-14.8)	
10/18 M	15.2 Double Integrals over General Regions (Part II)	
10/19 T	15.3 Double Integrals in Polar Coordinates (Part I)	
10/21 R	15.3 Double Integrals in Polar Coordinates (Part II)	
10/22 F	15.4 Applications of Double Integrals (Part I)	
10/25 M	15.4 Applications of Double Integrals (Part II)	
10/26 T	15.6 Triple Integrals (Part I)	
10/28 R	15.6 Triple Integrals (Part II)	
10/29 F	15.6 Triple Integrals (Part III)	
11/1 M	15.7 Triple Integrals in Cylindrical Coordinates (Part I)	
11/2 T	15.7 Triple Integrals in Cylindrical Coordinates (Part II)	
11/4 R	15.8 Triple Integrals in Spherical Coordinates (Part I)	
11/5 F	15.8 Triple Integrals in Spherical Coordinates (Part II)	**Study 15.1-15.4; 15.6-15.8 for Midterm #2**
11/8 M	16.1 Vector Fields (Part I)	
11/9 T	16.1 Vector Fields (Part II)	**Review Session TBA**
11/11 R	**No class**	**Veterans' Day on Thursday, 11/11**
11/12 F	**Midterm #2** (15.1-15.4; 15.6-15.8)	
11/15 M	16.2 Line Integrals (Part I)	
11/16 T	16.2 Line Integrals (Part II)	
11/18 R	16.2 Line Integrals (Part III)	
11/19 F	16.3 The Fundamental Theorem for Line Integrals (Part I)	

Date	Lectures	Events
11/22 M	**No class**	**Thanksgiving Break**
11/23 T	**No class**	**Thanksgiving Break**
11/25 R	**No class**	**Thanksgiving Break**
11/26 F	**No class**	**Thanksgiving Break**
11/29 M	16.3 The Fundamental Theorem for Line Integrals (Part II)	
11/30 T	16.4 Green's Theorem	
12/2 R	16.5 Curl and Divergence (Part I)	
12/3 F	16.5 Curl and Divergence (Part II)	**Review Session TBA**