

## MTH 243 SECTION 4 - CALENDAR FALL 2019

*Below is an approximate timetable for our section. We may be slightly ahead or behind this schedule at any given time. Adjustments will be announced in class as needed.*

Week of	Content, Events	Suggested Practice Problems
9/2	<i>Classes Begin Wednesday 9/4</i> Functions of Two Variables: 12.1	(12.1): #1,3,5,7,8,9,10,11,12,13,14,17,18,19,23,27,33,37,41,43;
9/9	Graphs of Functions of Two Variables: 12.2 Contour Diagrams: 12.3	(12.2): #1,3,6,7,9,11,13,15,16,17,18,19,20,21,34,35,43,44,45,47,53; (12.3): #1,2,3,4,5,7,9,10,11,16,18,30;
9/16	Linear Functions: 12.4 Functions of Three Variables: 12.5 Intro to Vectors: 13.1, 13.2 (Read before class)	(12.4): #1,2,3,4,5,7,10,11,12,21,22,25,35,36,46,47,50,52,57; (12.5): #1,2,3,4,6,8,9,10,16,17,19,20,30,47,49,51,53; (13.1): #1,2,3,4,5,7,9,11,15,17,21,25,29,31,33,34,37,38,39,41,54,55,56,59,60; (13.2): #1,2,4,6,7,8,9,10,11,15,17;
9/23	The Dot Product: 13.3 The Cross Product: 13.4	(13.3): #1,3,4,5,11,15,17,19,21,23,25,28,29,30,31,32,34,35,36,40,42,44,51,52,59,63,71; (13.4): #1,3,5,9,11,24,29,34;
9/30	The Partial Derivative: 14.1 Computing Partial Derivatives Algebraically: 14.2 Local Linearity and the Differential: 14.3	(14.1): #1,4,5,6,8,11,13,15,17,19,20,29; (14.2): #3,5,7,9,11,23,24,25,31,35; (14.3): #1,3,5,7,9,11,13,26,29,37;
10/7	<b>Exam I, Thursday, Oct 10, in class</b> Gradients and Direct. Derivatives in the Plane: 14.4 Gradients and Direct. Derivatives in the Space: 14.5	(14.4): #1,7,11,15,17,19,21,23,25,27,29,31,33,45,47,49,75,97; (14.5): #3,7,13,17,19,21,25,27,69;
10/14	<i>Monday classes meet Tuesday.</i> The Chain Rule: 14.6 Second Order Partial Derivatives: 14.7	(14.6): #1,3,7,9,18,19,20,27,29,47; (14.7): #1,3,5,7,8,23,25,49;
10/21	Local Extrema: 15.1 Lagrange Multipliers: 15.3 (Read only) The Definite Integral - Functions of Two Vars: 16.1	(15.1): 1,2,3,4,8,14,15,19,21,25,29,41,42,53,54; (15.3): None; (16.1): 1,3,9,11,17;
10/28	Iterated Integrals: 16.2 Triple Integrals: 16.3	(16.2): 1,3,5,7,15,17,19,21,23,25,34,36,39,43,44,53,54,60,61,62,65; (16.3): 1,2,5,7,9,11,13,15,37,39,45,55;
11/4	Double Integrals in Polar Coordinates: 16.4 Integrals in Cylindrical and Spherical Coords: 16.5	(16.4): #1,3,4,5,9,11,16,17,19,20,21,31,34,36,49; (16.5): # 3,4,5,8,9,11,13,15,19,21,23,24,25,29,31,51;
11/11	<i>No Classes Monday</i> Parameterized Curves: 17.1 Motion, Velocity and Acceleration: 17.2	(17.1): #1,2,3,6,7,9,11,13,15,19,20,23,27,53,61,62,65,76; (17.2): #1,3,6,7,9,17,19,22,26,57;
11/18	Vector Fields: 17.3 The Idea of a Line Integral: 18.1	(17.3): #1,2,3,4,5,6,7,8,11,12,15,21,31; (18.1): #1,2,3,9,11,32;
11/25	<i>No classes Wed, Thu, Fri. Thanksgiving Recess.</i> Integrals over Parameterized Curves: 18.2	(18.2): #1,3,7,9,11,12,13,14,19,35,36,41;
12/2	<b>Exam II, Tuesday, Dec 3, in class</b> Gradient Fields and Path-Independent Fields: 18.3 Green's Theorem: 18.4	(18.3): #1,3,5,13,17,18,19,24,35,37; (18.4): #1,2,3,5,6,11,12,13,14,15;
12/9	Review <i>Last Day of Classes Tuesday 12/10</i>	