

Monday	Wednesday	Thursday	Friday
	23-Jan	24-Jan	25-Jan
	Syllabus Overview + 12.1 (Functions of Two Variables)	Lab 0 (Intro to Mathematica)	12.1-12.2 (Graphs and Surfaces)
28-Jan	30-Jan	31-Jan	1-Feb
12.3 (Contour Plots) + Heatmaps	12.4-12.5 (Linear Functions and Level Surfaces)	Lab 1 (3D Graphing)	Handout 1
4-Feb	6-Feb	7-Feb	8-Feb
14.1-14.2 (Partial Derivatives)	14.3 (Local Linearity)	Lab 2 (Partial Derivatives)	13.1 (Vectors)
11-Feb	13-Feb	14-Feb	15-Feb
13.2 (More on Vectors)	13.3 (Dot Product)+ Euclidean Geometry	Handout 2	13.4 (Cross Product) + Three Dimensional Pythagorean Theorem
18-Feb	20-Feb	21-Feb	22-Feb
17.1 (Parametrized Curves - Straight line, Circle, Helix)	17.2 (Motion, Velocity, Acceleration)+ Running Circles around Circles	Lab 3 (Parametric Plotting)	14.6 (Chain Rule)
25-Feb	27-Feb	28-Feb	1-Mar
Handout 3	Review	Midterm 1	14.4 (Gradients and Directional Derivatives) + Mt. Katahdin Trails
4-Mar	6-Mar	7-Mar	8-Mar
14.5 (Three dimensional Gradient and Tangent Plane)	15.1 (Critical Points and Hessian)	Lab 4 (Stationary Points)	14.6 (Second-order Partial - Clairaut's Theorem and Taylor Quadratic)
11-Mar	13-Mar	14-Mar	15-Mar
Spring Vacation	Optional Second Derivative Test Project		Spring Vacation
18-Mar	20-Mar	21-Mar	22-Mar
Spring Vacation	Optional Numerical Optimization Project		Spring Vacation
25-Mar	27-Mar	28-Mar	29-Mar
15.3 (Lagrange Multipliers)+ Rocket Science	15.2 (Optimization) + Line of Best Fit	Handout 5	16.1-16.2 (Definite Integral of Functions of Two Variables)

Monday	Wednesday	Thursday	Friday
1-Apr	3-Apr	4-Apr	5-Apr
16.2-16.3 (Type I/II regions, Triple Integrals)	16.4 (Double Integral in Polar Coordinates) + Normal Density	Lab 5 (Volume Integration)	16.6 (Probability Density) + Volumes of Hyperspheres
8-Apr	10-Apr	11-Apr	12-Apr
Handout 6	Review	Midterm 2	17.3 (Vector Fields)
15-Apr	17-Apr	18-Apr	19-Apr
17.4 (Flow of a Vector Field) + Flux Diagrams	18.1 (Line Intergral)	Handout 7	18.2 (Line Intergrals on Paramterized Curves)
22-Apr	24-Apr	25-Apr	26-Apr
18.3 (Gradient Fields - Path-Independent)	Handout 8	Lab 6 (Vector Fields)	18.4 (Path-Dependent Fields and Green's Theorem)
29-Apr	1-May	2-May	3-May
18.4 (Applications and Generalizations of Green's Theorem)	Handout 9	Office Hour	21.2 (Change of Coordinates in Integrals - Jacobian)
6-May	8-May	9-May	10-May
Handout 10	Review	Reading Period	Reading Period