Monday	Wednesday	Thursday	Friday
	4-Sep	5-Sep	6-Sep
	Syllabus Overview + 3D Coordinate Geometry + 13.1 (Vectors in 3D)	**Lab 0 (Intro to Mathematica)** + Vectors	13.3 (Dot Product, Angle, Projection)
9-Sep	11-Sep	12-Sep	13-Sep
13.4 (Cross Product, Area, Volume)	Lines and Planes	**Lab 1 (Lines and Planes) + Distances**	**Quiz 1 + Handout 1**
16-Sep	18-Sep	19-Sep	20-Sep
12.1-12.2(Functions of several variables)	12.3, 12.5 (Contour Plots) + **Conic Sections and Quadric Surfaces**	**Lab 2 (3D Graphing)**	**Quiz 2 + Handout 2**
23-Sep	25-Sep	26-Sep	27-Sep
12.4 (Linear Functions)	17.1 (Parametrized Curves - Straight line, Circle, Helixes)	**Handout 3 (Cycloid and Hypocycloid) + Epicycloid and the Rotary Engine**	17.2 (Arc length and Curvature)
30-Sep	2-Oct	3-Oct	4-Oct
Lab 3 (Parametric Plotting)	**Handout 4 (Lab contd. + Angles)**	**Quiz 3** + 14.1-14.2 (Partial Derivatives)	14.3 (Tangent Plane and Local Linearity)
7-Oct	9-Oct	10-Oct	11-Oct
Handout 5 (Review)	**Review**	**Midterm 1**	14.6 (Chain Rule)
14-Oct	16-Oct	17-Oct	18-Oct
Fall Vacation	14.4 (Gradients and Directional Derivatives)	**Lab 4 (Gradients and Contour Plots)**	14.5 (Three dimensional Gradient and Tangent Plane)
21-Oct	23-Oct	24-Oct	25-Oct
Quiz 4 + Handout 6	15.1 (Stationary Points) + **Mathematica Project**	**Lab 5 (Ordinary Linear Regression)**	14.6 (Clairaut's Theorem and Hessian)

Monday	Wednesday	Thursday	Friday
28-Oct	30-Oct	31-Oct	1-Nov
15.3 (Lagrange Multipliers) + **Rocket Science**	15.2 (Unconstrained Optimization)	**Lab 6 (Max/Min Problems) + Quiz 5**	16.1-16.2 (Definite Integral of Functions of Two Variables)
4-Nov	6-Nov	7-Nov	8-Nov
16.2-16.3 (Type I/II regions, Triple Integrals)	16.4 (Double Integral in Polar Coordinates) + **Normal Probability Distribution**	**Lab 7 (Volume Integration)**	Polar Volume Integration (Cylindrical Coordinates)
11-Nov	13-Nov	14-Nov	15-Nov
Handout 8 (Curves in Polar Coordinates)	**Review**	**Midterm 2**	Spherical Coordinates
18-Nov	20-Nov	21-Nov	22-Nov
17.3 (Vector Fields)	17.4 (Flow of a Vector Field)	**Handout 9**	18.1-18.2 (Line Intergrals on Paramterized Curves)
25-Nov	27-Nov	28-Nov	29-Nov
Thanksgiving Break			
2-Dec	4-Dec	5-Dec	6-Dec
18.3 (Gradient Fields - Path-Independent)	18.4 (Path-dependent fields, Circulation, Curl)	**Lab 8 (Vector Fields)**	18.4 (Path-Dependent Fields and Green's Theorem)
9-Dec	11-Dec	12-Dec	13-Dec
Applications and Generalizations of Green's Theorem	**Handout 10**	**Reading Period**	**Reading Period**