

Math 2415, Fall 2012, Tentative Schedule:

Date	Section/Topic
Tu 8/28/12	First Day Handout; §12.1 – Vectors §12.2 – Vectors
Th 8/30/12	§12.3 – Dot Product
Tu 9/4/12	§12.4 – Cross Product
Th 9/6/12	§12.5 – Lines and Planes
Tu 9/11/12	§12.6 – Quadric Surfaces
Th 9/13/12	§12.6 – Quadric Surfaces §15.8 – Cylindrical Coordinates §15.9 – Spherical Coordinates
Tu 9/18/12	§13.1 – Parametric Curves §13.2 – Velocity §13.3 – Arclength
Th 9/20/12	§14.1 – Functions of Several Variables §14.3 – Partial Derivatives
Tu 9/25/12	§14.3 – Partial Derivatives §14.4 – Tangent Planes and Linear Approximation
Th 9/27/12	§14.5 – Chain Rule
Tu 10/2/12	§14.5 – Chain Rule §16.6 – Parametric Surfaces
Th 10/4/12	§14.6 – Directional Derivative and Gradient
Fr 10/5/12	EXAM 1
Tu 10/9/12	§14.7 – Max/Min
Th 10/11/12	§14.7 – Max/Min

Date	Section/Topic
Tu 10/16/12	§14.8 – Lagrange Multipliers
Th 10/18/12	§15.1 – Double Integrals over Rectangles §15.2
Tu 10/23/12	§15.3 – Double Integrals (General Regions)
Th 10/25/12	§15.4 – Double Integrals (Polar Coordinates)
Tu 10/30/12	§15.10 – Change of Variables (Double Integrals)
Th 11/1/12	§16.1 – Vector Fields §16.2 – Line Integrals
Tu 11/6/12	§16.3 – FTC for Line Integrals
Th 11/8/12	§16.3 – Conservative Vector Fields
Fr 11/9/12	EXAM 2
Tu 11/13/12	§16.4 – Green’s Theorem
Th 11/15/12	§16.5 – Curl and Divergence
Tu 11/20/12	Fall Break – no class
Th 11/22/12	Thanksgiving Holiday – no class
Tu 11/27/12	§16.7 – Surface Integrals
Th 11/29/12	§16.7 – Surface Integrals §16.8 – Stokes’ Theorem
Tu 12/4/12	§15.7 – Triple Integrals (Rectangular) §15.8 – Triple Integrals (Cylindrical Coords) §15.9 – Triple Integrals (Spherical Coords)
Th 12/6/12	§16.9 – Gauss’ Theorem
Tu 12/11/12	Review
Fr 12/14/12	FINAL EXAM