

Spring 2011 Math 265 Calendar

Date	Lecture Topic
Tuesday, January 18	Class overview and syllabus; differentials
Wednesday, January 19	Functions of several variables and level curves
Thursday, January 20	Different coordinate systems
Monday, January 24	Total differentials, tangent planes, and linear approximations
Tuesday, January 25	Chain Rules
Wednesday, January 26	Higher partial derivatives, Clairaut's theorem
Thursday, January 27	Max/Min Problems
Monday, January 31	Max/Min Problems II
Tuesday, February 1	Extreme value theorem
Wednesday, February 2	Lagrange Multipliers
Thursday, February 3	Lagrange Multipliers II
Monday, February 7	Review (Cobb-Douglas production function)
Tuesday, February 8	Vectors and vector spaces
Wednesday, February 9	Geometry of vectors
Thursday, February 10	The dot product
Monday, February 14	Group Activity: Which Way Is North
Tuesday, February 15	Vector differentials and the 'Master Formula'
Wednesday, February 16	More about the 'Master Formula'
Thursday, February 17	Group Activity: Finding dr
Monday, February 21	PRESIDENT'S DAY: NO CLASS
Tuesday, February 22	Directional Derivative and the Gradient
Wednesday, February 23	Double integration
Thursday, February 24	Fubini's theorem
Monday, February 28	Triple integrals
Tuesday, March 1	Triple integrals, integrating in polar coordinates
Wednesday, March 2	Integrating in cylindrical coordinates
Thursday, March 3	Integrating in spherical coordinates
Monday, March 7	Vector functions and the cross product
Tuesday, March 8	Cross product (cont.)
Wednesday, March 9	Review
Thursday, March 10	Midterm

Monday, March 21	Midterm debriefing
Tuesday, March 22	Group Activity: The Pretzel
Wednesday, March 23	Line integrals of scalar functions
Thursday, March 24	Group Activity: The Valley
Monday, March 28	Line integrals of vector fields
Tuesday, March 29	Group Activity: The Wire
Wednesday, March 30	Potential functions and the Murder Mystery Method
Thursday, March 31	Group Activity: Potential Functions
Monday, April 4	Surface integrals of scalar functions
Tuesday, April 5	Group Activity: The Grid
Wednesday, April 6	Surface integrals of vector field
Thursday, April 7	Group Activity: The Cone
Monday, April 11	Flux, divergence and the divergence theorem
Tuesday, April 12	Group Activity: The Fishing Net
Wednesday, April 13	Circulation, Curl and Stokes' theorem
Thursday, April 14	Group Activity: Stokes' theorem
Monday, April 18	More on Curl and Div
Tuesday, April 19	Group Activity: Divergence and Curl
Wednesday, April 20	Green's theorem
Thursday, April 21	Green's theorem and conservative vector fields
Monday, April 25	Presentation Prep Day
Tuesday, April 26	Presentation Day
Wednesday, April 27	Review Day 1
Thursday, April 28	Review Day 2
Monday, May 2	Final Exam