LB 220 Calculus III, Spring 2013 Course Calendar

M 01/07 11.3: the scalar product of two vectors
W 01/09 11.4: the cross product of two vectors
F 01/11 11.5: lines and planes in $\mathbb{R}^3$
M 01/14 11.6: surfaces in $\mathbb{R}^3$
W 01/16 11.7: cylindrical and spherical coordinates in $\mathbb{R}^3$
F 01/18 problem solving worksheet I
M 01/21 MLK: no class today
W 01/23 12.1 and 12.2: vector-valued functions and their derivatives
F 01/25 12.3: velocity and acceleration
M 01/28 12.4: tangent vectors and normal vectors
W 01/30 problem solving worksheet II
F 02/01 exam I: chapters 11 and 12, omitting section 12.5
M 02/04 13.1: functions of several variables
W 02/06 13.2 and 13.3: partial derivatives
F 02/08 13.5: the chain rule
M 02/11 13.6: the gradient vector and directional derivatives
W 02/13 13.7: tangent planes and normal lines
F 02/15 problem solving worksheet III
M 02/18 13.8: extrema of functions of two variables
W 02/20 13.9: applications of extrema
F 02/22 13.10: Lagrange multipliers
M 02/25 problem solving worksheet IV
W 02/27 exam II: chapter 13
F 03/01 14.1: iterated integrals
M 03/04 spring break
W 03/06 spring break
F 03/08 spring break
M 03/11 14.2: double integrals
W 03/13 14.3: change of variables using polar coordinates
F 03/15 14.4: center of mass and moment of inertia
M 03/18 problem solving worksheet V; writing project I due today
W 03/20 14.5: surface area
F 03/22 14.6: triple integrals
M 03/25 14.7: change of variables using cylindrical or spherical coordinates
W 03/27 14.8: change of variables using the Jacobian determinant
F 03/29 problem solving worksheet VI
M 04/01 exam III: chapter 14
W 04/03 15.1: vector fields
F 04/05 15.2: line integrals
M 04/08 15.3: conservative vector fields and indepdence of path
W 04/10 15.4: Green’s theorem
F 04/12 problem solving worksheet VII
M 04/15 15.5 and 15.6: parametric surfaces and surface integrals
W 04/17 15.7: the divergence theorem
F 04/19 15.8: Stokes’s theorem
M 04/22 problem solving worksheet VIII; writing project II due today
W 04/24 review
F 04/26 review
T 04/30 final exam at 7:45 a.m.