MATH 3400 SPRING 2014 TENTATIVE SCHEDULE

Week Starting	Topics	Sections
13-Jan	Calculus review Linear algebra review	1.5–1.6
20-Jan	Coordinate systems Functions of several variables	1.7, 2.1
27-Jan	Limits Derivatives	2.2–2.4
3-Feb	Chain rule and gradient Parametrized curves	2.5–2.6, 3.1
10-Feb	**Test 1** Arc length, differential geometry	3.2
17-Feb	Vector fields Divergence and curl	3.3–3.4
24-Feb	Differentials Max/min	4.1–4.3
3-Mar	**Test 2** Applications	4.4
10-Mar	Spring Break	
17-Mar	Area and volume Double integrals	5.1–5.3
24-Mar	Triple integrals Change of variables	5.3–5.5
31-Mar	Applications Line integrals	5.5–5.6, 6.1
7-Apr	Greens Theorem Conservative vector fields	6.2–6.3
14-Apr	**Test 3** Parametrized surfaces	7.1
21-Apr	Stokes and Gauss's Theorem Surfaces integrals	7.2–7.4
28-Apr	Review	