

DATE	LOCATION	COLLEY	TOPIC
M 1.8	STR 120		Review of ideas from Calculus I & II
T 1.9	STR 105		<i>Mathematica</i> crash course
W 1.10			No class - professor at conference
R 1.11			No class - professor at conference
M 1.15			No class - MLK Jr. Day
T 1.16	STR 120	1.1-1.2	Vectors and matrices
W 1.17	STR 120	1.3	Dot product and projection
R 1.18	STR 120	1.4	Cross products
M 1.22	STR 105		Vector and matrix operations on <i>Mathematica</i>
T 1.23	STR 120	1.5	Equations of lines and planes
W 1.24	STR 120	1.7	Polar, cylindrical and spherical coordinates
R 1.25	STR 120		Review of Chapter 1
M 1.29	STR 105	2.1	Functions from $\mathbb{R}^n \rightarrow \mathbb{R}^m$
T 1.30	STR 105	2.1	Various graphs for functions $\mathbb{R}^n \rightarrow \mathbb{R}^m$
W 1.31	STR 120	2.1	Quadric surfaces
R 2.1	STR 120	2.2	Limits
M 2.5	STR 120	2.2	More on limits (polar coordinate trick)
T 2.6	STR 105	2.1	More on graphs of functions $\mathbb{R}^n \rightarrow \mathbb{R}^m$
W 2.7	STR 120		Review
R 2.8	STR 120		EXAM 1: covers Colley §1.1-2.2
M 2.12	STR 120	2.3	The total derivative; partial derivatives
T 2.13	STR 120	2.3-2.4	More on partial derivatives
W 2.14	STR 120	2.3	Linear approximation; tangent lines and planes
R 2.15	STR 120	2.5	Higher-dimensional product and chain rules
M 2.19	STR 105		Derivatives on <i>Mathematica</i>
T 2.20	STR 120	2.6	Directional derivatives
W 2.21	STR 120	2.6	Gradients
R 2.22	STR 120	3.1	Position, velocity and acceleration
M 2.26	STR 120	3.2	Arc length and displacement
T 2.27	STR 105	3.2	Analysis of motion using <i>Mathematica</i>
W 2.28	STR 120	3.2	Arc length parameterization
R 2.29	STR 120	4.2	Optimization of functions $\mathbb{R}^n \rightarrow \mathbb{R}$
3.5-3.8			No class - Spring Break

DATE	LOCATION	COLLEY	TOPIC
M 3.12	STR 120	4.2	Optimization of functions $\mathbb{R}^n \rightarrow \mathbb{R}$
T 3.13	STR 105	4.2	Optimization with <i>Mathematica</i>
W 3.14	STR 120	4.3	Lagrange multipliers
R 3.15	STR 120		Review
M 3.19	STR 120		EXAM 2: covers Colley §2.3-2.6, 3.1-3.2, 4.1-4.3
T 3.20	STR 120	5.1-5.2	Area and volume; introduction to double integrals
W 3.21	STR 120	5.2	Double and iterated integrals
R 3.22	STR 120	5.2-5.3	More on double integrals; Fubini's theorem
M 3.26	STR 105	5.3	Double integrals with <i>Mathematica</i>
T 3.27	STR 105		More double integrals with <i>Mathematica</i>
W 3.28	STR 120	5.4	Triple integrals
R 3.29			<i>No class - Mid-semester Recess</i>
M 4.2	STR 120	5.5	Change of variables with Jacobians
T 4.3	STR 105		Even more integration with <i>Mathematica</i>
W 4.4	STR 120	5.5	Change of variables with Jacobians part II
R 4.5	STR 120		Review of multiple integrals
M 4.9	STR 120	3.3	Vector fields
T 4.10	STR 120	3.4	Gradient, divergence and curl
W 4.11	STR 120	6.1	Line integrals
R 4.12	STR 120	6.1	Reparameterization of line integrals
M 4.16	STR 105		Vector fields on <i>Mathematica</i>
T 4.17	STR 120	6.2	Green's Theorem
W 4.18	STR 120	6.3	Conservativity of vector fields; path independence
R 4.19	STR 120		Review
M 4.23	STR 120		EXAM 3: covers Colley §3.3-3.4, 5.1-5.6, 6.1-6.3
T 4.24	STR 120		Review: basics
W 4.25	STR 120		Review: differentiation
R 4.26	STR 120		Review: integration
R 5.3	STR 120		FINAL EXAM: cumulative; 8:00-9:40 AM