

## Tentative Schedule of Topics, Presentations and Examinations

Date	Topic
W Jan 19	$n$ -Dimensional Euclidean Space
F Jan 21	Spans, lines and planes
M Jan 24	Dot product and Euclidean norm
W Jan 26	Orthogonality and projections
F Jan 28	The cross product
M Jan 31	Functions on Euclidean space
W Feb 2	Open subsets of Euclidean space
F Feb 4	Continuous functions
M Feb 7	Continuous functions (continued)
W Feb 9	Limits and continuity
F Feb 11	Differentiability
M Feb 14	The derivative map
W Feb 16	The derivative map (continued)
F Feb 18	Sufficient conditions for differentiability
M Feb 21	Sufficient conditions for differentiability (continued)
W Feb 23	Derivatives of compositions
F Feb 25	Derivatives of compositions (continued)
M Feb 28	Problems
W Mar 2	Review
F Mar 4	<b>Exam 1</b>
M Mar 7	Path integrals
W Mar 9	Path integrals (continued)
F Mar 11	Line integrals
M Mar 14	<i>Spring Recess</i>
W Mar 16	<i>Spring Recess</i>
F Mar 18	<i>Spring Recess</i>
M Mar 21	Gradient fields
W Mar 23	Flux across plane curves
F Mar 25	<i>Cesar Chavez Day</i> (observed)
M Mar 28	Differential forms
W Mar 30	Calculus of differential forms
F Apr 1	Calculus of differential forms (continued)
M Apr 4	Evaluating 2-forms: Double integrals
W Apr 6	Green's Theorem
F Apr 8	Fundamental Theorem of Calculus in two dimensions

M	Apr	11	Change of variables Theorem
W	Apr	13	Change of variables Theorem (continued)
F	Apr	15	Triple integrals
M	Apr	18	Surface integrals
W	Apr	20	Surface integrals (continued)
F	Apr	22	Stokes' Theorem
M	Apr	25	Problems and examples
W	Apr	27	Review
F	Apr	29	<b>Exam 2</b>
M	May	2	Review
W	May	4	Review
Th	May	12	<b>Final Examination</b>