

LIST OF TOPICS (DATES ARE TENTATIVE)

13.6. Directional Derivatives and the Gradient Vector (review)	August 27
13.8. Maximum and Minimum Values	September 3,8
13.9. Lagrange Multipliers	September 8,10
14.1. Double Integrals over Rectangular Regions	September 15
14.2. Double Integrals over General Regions	September 17
14.3. Double Integrals in Polar Coordinates	September 22
Review	September 24
Midterm I. (in class)	September 29
14.4. Triple Integrals	October 1
14.5. Triple Integrals in Cylindrical & Spherical Coordinates	October 6,8
14.7. Change of Variables in Multiple Integrals	October 13
15.1. Vector Fields	October 15
15.2. Line Integrals	October 20,22
15.3. Conservative Vector Fields	October 27
Review	October 29
Midterm II.	November 3

16.1. Basic Ideas of Second Order ODEs	November 5
Appendix C. Complex Arithmetic	November 10
16.2. Linear Homogeneous Equations	November 12
16.3. Linear Non-homogeneous Equations	November 17
16.4. Applications	November 19,24
16.5 Complex Forcing Functions	December 1
Review	December 3,8
Final	December 16, 8:00am -9:45am

REFERENCES