Schedule

A week-by-week breakdown of the material.

Week 1 (01/08-01/12)

Day 1 Sequences (11.1). Limit of sequence. Limit Laws[1]

Day 2 Review of Calc 1, Calc2[2]

Day 3 Review of Calc 1, Calc2

Week 2 (01/15-01/19)

Day 1 Infinite Series (11.2)[3]

HW Due: 11.1 16, 26, 48, 70

Day 2 Positive Terms series (11.3)[4]

Day 3 Absolute vs Conditional Convergence (11.4)[5]

Week 3 (01/22-01/26)

Day 1 Ratio and Root tests (11.5)[6]

Day 2 Series tests review.

Day 3 Power Series (11.6)[7]

Week 4 (01/29-02/02)

Day 1 Taylor Series (11.7)[8]

Day 2 Taylor Series (11.7) cont[9]

Day 3 Review

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[1] notes/sequences.html
[2] notes/calc_review.html
[3] notes/series_intro.html
[4] notes/series_positive.html
[5] notes/series_conditional.html
[6] notes/series_root.html
[7] notes/series_power.html
[8] notes/series_taylor.html
[9] notes/series_taylor.html

Week 5 (02/05-02/09)

Day 1 **Midterm 1** (chapter 11, study guide[10])

Day 2 Vectors in the Plane (13.1)[11]

Day 3 Vectors in the Space (13.2). Equations for lines in space.[12]

Week 6 (02/12-02/16)

Day 1 Dot product and angles (13.3).[13]

Day 2 Dot product and angles (cont, 13.3). Projections.[14]

Day 3 Cross product (13.4).[15]

Week 7 (02/19-02/23)

Day 1 Equations for planes (13.5).[16]

Day 2 Vector-valued functions (14.1).[17]

Day 3 Calculus of vector-valued functions (14.2).[18]

Week 8 (02/26-03/02)

BREAK

Week 9 (03/05-03/09)

Day 1 Arc Length (14.3).[19]

Day 2 Curvature (14.4). Normal vectors.[20]

Day 3 Review

[10] notes/midterm1_study_guide.html
[11] notes/vectors.html
[12] notes/vectors_space.html
[13] notes/dot_product.html
[14] notes/dot_product.html
[15] notes/cross_product.html
[16] notes/plane_equations.html
[17] notes/vector_valued_functions.html
[18] notes/vector_valued_calculus.html
[19] notes/arc_length_curvature.html
[20] notes/arc_length_curvature.html

Week 10 (03/12-03/16)

Day 1 **Midterm 2** (chapters 13, 14, study guide[21])

Day 2 Functions of multiple variables (15.1). Level curves.[22]

Day 3 Limits and Continuity in several variables (15.2).[23]

Week 11 (03/19-03/23)

Day 1 Partial Derivatives (15.3).[24]

Day 2 Differentiability (15.4). Linear Approximation.[25]

Day 3 Gradient. Directional derivatives (15.5)[26]

Week 12 (03/26-03/30)

Day 1 Chain rule (15.6).[27]

Day 2 Optimization (15.7).[28]

Day 3 Lagrange Multipliers (15.8).[29]

Week 13 (04/02-04/06)

Day 1 Integration in two variables (16.1).[30]

Day 2 Integration over more general regions (16.2).[31]

Day 3 Integrals in Polar Coordinates (16.4).[32]

[21] notes/midterm2_study_guide.html
[22] notes/multiple_variables.html
[23] notes/limits_continuity.html
[24] notes/partial_derivatives.html
[25] notes/differentiability.html
[26] notes/gradient.html
[27] notes/chain_rule.html
[28] notes/optimization.html
[29] notes/lagrange_mults.html
[30] notes/multiple_integrals.html
[31] notes/integrals_general.html
[32] notes/integrals_polar.html

Week 14 (04/09-04/13)

Day 1 Change of variables (16.6).[33]

Day 2 Review

Day 3 Catchup

[33] notes/integrals_change_variables.html