Schedule

A week-by-week breakdown of the material.

Week 1 (01/08-01/12)

Tue Graph Models (1.1), Connected Graphs (1.2)[1]

Activity Sheet 1[2]

Thu Common Classes of Graphs (1.3), Multigraphs and Digraphs (1.4)[3]

Activity Sheet 2[4]

Week 2 (01/15-01/19)

Tue Catchup

Thu Degree of a Vertex (2.1)[5]

Activity Sheet 3[6]

Week 3 (01/22-01/26)

Tue Regular Graphs (2.2)[7]

Degree Sequences (2.3)[8]

Activity Sheet 4[9]

Thu Graph Isomorphism (3.1), Isomorphism as a Relation (3.2)[10]

Activity Sheet 5[11]

Week 4 (01/29-02/02)

Tue Bridges (4.1)[12]

Assignment 1[13]

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[1] notes/intro.html
[2] activities/activities1-intro.html
[3] notes/graph_classes.html
[4] activities/activities2-graph_classes.html
[5] notes/degrees.html
[6] activities/activities3-degrees.html
[7] notes/degrees.html
[8] notes/degree_sequences.html
[9] activities/activities4-sequences.html
[10] notes/graph_isomorphism.html
[11] activities/activities5-isomorphism.html
[12] notes/bridges.html
[13] assignments/assignment1.html

Thu Trees (4.2)[14]

Activity Sheet 6[15]

Week 5 (02/05-02/09)

Tue Minimum Spanning Trees (4.3)[16]

Thu Minimum Spanning Trees cont. (4.3)[17]

Week 6 (02/12-02/16)

Tue Cut-vertices (5.1)[18]

Thu Blocks (5.2)[19]

Assignment 2[20]

Week 7 (02/19-02/23)

Tue Review

Assignment 3[21]

Thu Midterm Chapters 1-4[22]

Week 8 (02/26-03/02)

Tue BREAK

Thu BREAK

Week 9 (03/05-03/09)

Tue Connectivity (5.3)[23]

Thu Connectivity continued (5.3)[24]

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[14] notes/trees.html
[15] activities/activities6-trees.html
[16] notes/minimum_spanning_trees.html
[17] notes/minimum_spanning_trees.html
[18] notes/cut_vertices.html
[19] notes/blocks.html
[20] assignments/assignment2.html
[21] assignments/assignment3.html
[22] notes/midterm1studyGuide.html
[23] notes/connectivity.html
[24] notes/connectivity.html

Week 10 (03/12-03/16)

Tue Eulerian Graphs (6.1)[25]

Activity Sheet 7[26]

Thu Hamiltonian Graphs (6.2)[27]

Week 11 (03/19-03/23)

Tue Strong Digraphs (7.1)[28]

Thu Tournaments (7.2)

Week 12 (03/26-03/30)

Tue Matchings (8.1)

Factorization (8.2)

Decompositions (8.3)

Planar Graphs (9.1)

Thu Discussion of the Four Color Theorem (10.1)

Vertex Coloring (10.2)

Week 13 (04/02-04/06)

Tue Midterm 2 (Chapters 5-7)

Thu Edge Coloring (10.3)

Week 14 (04/09-04/13)

Tue Ramsey Numbers (11.1)

Thu Center of a Graph (12.1), Distant Vertices (12.2)

[25] notes/eulerian_graphs.html
[26] activities/activities7-eulerian.html
[27] notes/hamiltonian_graphs.html
[28] notes/strong_digraphs.html