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 3⁶

Week 3 (01/22-01/26)

Tue Regular Graphs (2.2)⁷
Degree Sequences (2.3)⁸
Activity Sheet 4⁹

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 1¹³

¹notes/intro.html

²activities/activities1-intro.html

³notes/graph_classes.html

⁴activities/activities2-graph_classes.html

⁵notes/degrees.html

⁶activities/activities3-degrees.html

⁷notes/degrees.html

⁸notes/degree_sequences.html

⁹activities/activities4-sequences.html

¹⁰notes/graph_isomorphism.html

¹¹activities/activities5-isomorphism.html

¹²notes/bridges.html

¹³assignments/assignment1.html

Thu Trees (4.2)¹⁴
Activity Sheet 6¹⁵

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 2²⁰

Week 7 (02/19-02/23)

Tue Vertex-Connectivity (5.3)

Assignment 3²¹

Thu Midterm Chapters 1-4²²

Week 8 (02/26-03/02)

Tue BREAK

Thu BREAK

Week 9 (03/05-03/09)

Tue Eulerian Graphs (6.1) Hamiltonian Graphs (6.2)

Thu Strong Digraphs (7.1) Tournaments (7.2)

¹⁴notes/trees.html

¹⁵activities/activities6-trees.html

¹⁶notes/minimum_spanning_trees.html

¹⁷notes/minimum_spanning_trees.html

¹⁸notes/cut_vertices.html

¹⁹notes/blocks.html

²⁰assignments/assignment2.html

²¹assignments/assignment3.html

²²notes/midterm1studyGuide.html

Week 10 (03/12-03/16)

Tue Matchings (8.1)

Thu Factorization (8.2)

Week 11 (03/19-03/23)

Tue Decompositions (8.3)

Thu Midterm 2 (Chapters 5-8)

Week 12 (03/26-03/30)

Tue Planar Graphs (9.1)

Thu Discussion of the Four Color Theorem (10.1)

Week 13 (04/01-04/06)

Tue Vertex Coloring (10.2)

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)