

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 1²

Thu Common Classes of Graphs (1.3), Multigraphs and Digraphs (1.4)³
Activity Sheet 2⁴

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 5¹¹

Week 4 (01/29-02/02)

Tue Bridges (4.1)¹²
Trees (4.2)¹³
Assignment 1¹⁴

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[notes/trees.html](#)
¹⁴[assignments/assignment1.html](#)

Thu Minimum Spanning Trees (4.3)¹⁶

Week 5 (02/05-02/09)

Tue Cut-vertices (5.1)

Thu Blocks (5.2)

Week 6 (02/12-02/16)

Tue Vertex-Connectivity (5.3)

Thu Eulerian Graphs (6.1)

Week 7 (02/19-02/23)

Tue Hamiltonian Graphs (6.2)

Thu Midterm Chapters 1-5)

Week 8 (02/26-03/02)

Tue BREAK

Thu BREAK

Week 9 (03/05-03/09)

Tue Strong Digraphs (7.1)

Thu Tournaments (7.2)

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 6-8)

¹⁵activities/activities6-trees.html

¹⁶notes/minimum_spanning_trees.html

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)