Schedule

A week-by-week breakdown of the material.

Week 1 (01/05-01/09)

- Day 1 Introduction
- **Day 2** Graphs, Euler Circuits, Valence¹
- **Day 3** Hamiltonian Circuits, Complete Graphs²
- **Day 4** Traveling Salesman Problem³
 Minimum Cost Spanning Trees⁴
- **Day 5** Directed Graphs, Critical Paths⁵

Week 2 (01/12-01/16)

- **Day 1** Priority Lists, Scheduling, Independent Tasks⁶
- **Day 2** Bin-packing, Vertex-Coloring⁷
- Day 3 MIDTERM 1
- **Day 4** Linear Programming, Mixture Problems⁸ Corner Point Principle⁹
- **Day 5** Transportation Problems, Tableaux¹⁰

Week 3 (01/19-01/23)

Day 1 Voting Systems, Majority Rules¹¹

¹notes/graphs_euler.html

²notes/graphs_hamiltonian.html

³notes/graphs_tsp.html

⁴notes/graphs_mst.html

⁵notes/graphs_directed.html

⁶notes/scheduling.html

⁷notes/bin_packing.html

⁸notes/linear.html

⁹notes/corner_point.html

¹⁰notes/tableaux.html

¹¹notes/voting_majority.html

- **Day 2** Voting with more than 3 candidates¹²
 Arrow's theorem¹³
- **Day 3** Manipulability¹⁴
 Impossibility, Chair's Paradox¹⁵
- Day 4 MIDTERM 2
- **Day 5** Error-Correcting, Identification Numbers 16

Week 4 (01/26-01/30)

- **Day 1** Binary Codes, Parity Check¹⁷
- **Day 2** Data Compression¹⁸
- **Day 3** Cryptography¹⁹
- Day 4 Wrap-up
- Day 5 MIDTERM 3

¹²notes/voting_more_candidates.html

¹³notes/voting_arrow.html

¹⁴notes/voting_manipulability.html

¹⁵notes/voting chairs.html

¹⁶notes/codes_ecc.html

¹⁷notes/codes_binary.html

¹⁸notes/codes_compression.html

¹⁹notes/crypto.html