0366.3267 Graph Theory, Fall Semester 2014
List of Theorems

- Cayley's Formula

- Mader's Theorem (large degrees imply a subgraph of large connectivity)

- Euler's Theorem (about Eulerian graphs)

- Dirac's Theorem for Hamilton cycles

- The Chvátal-Erdős Theorem

- Hall's Theorem

- König's Theorem: In any bipartite graph, the maximum size of a matching is equal to the minimum size of a vertex cover

- Tutte's Theorem

- Petersen's Theorem

- Brooks' Theorem

- The chromatic index of any bipartite graph is equal to its maximum degree

- Vizing's Theorem

- Turán's Theorem

- Ramsey's Theorem

- Erdős' lower bound for the Ramsey number $R(k, k)$

- Euler's Formula for planar connected graphs

- Five-colorability of planar graphs