

## **Math 453 – Combinatorics**

**Course Description from Bulletin:** Permutations and combinatorics; pigeonhole principle; inclusion-exclusion principle; recurrence equations and generating functions; enumeration under group action. (3-0-

- 5. The Principle of Inclusion-Exclusion
- 6. Groups Acting on Sets

3-5  
4-10

**Assessment:**      Problem Solutions                      10-40