## Presentations

1) Singer-Thorpe: Metric spaces, bottom of page 5 to bottom of page 6. Define metric space, prove that the real numbers are a metric space.

2) Singer-Thorpe: Topological spaces, top of page 7 to page 8, including Theorem 2.

3) Singer-Thorpe: Basis for a topological space, from the definition on page 8 to Corollary on page 9.

4) Singer-Thorpe: Equivalent bases, from the definition on page 9 to the end of the section on page 11.

5) Singer-Thorpe: Connectedness, from the definition on page 11 to the example  $(R^n - \{0\})$  on page 12.

6) Singer-Thorpe: Compactness, from the definition of open covering on page 12 to the end of the section on page 13.

7) Singer-Thorpe: Continuous functions, from the definition on page 13 to the end of page 14.

8) Singer-Thorpe: Continuous functions, page 15 to the end of the section on page 16.

9) Singer-Thorpe: Weaker topology, page 16 up to Theorem 2 on page 17.

10) Singer-Thorpe: Product topology, from the definition on page 17 to the end of the section (include at least two examples).

11) Handout: Quotient topology.