

**Math 4213 Course Outline**  
**Winter 2008**

**Instructor:** A.J. Dean, RB 2009, 343-8689, andrew.dean@lakeheadu.ca

**Office hours:** Mondays, Wednesdays, and Fridays 1:30-2:30 or by appointment or happenstance.

**Textbook:** General Topology by Stephen Willard, Addison-Wesley Publishing Company. (ISBN: 0-201-08707-3)

**Tentative schedule:**

**Week 1.** Review of Set Theory and Metric Spaces (Questions 1H, 2F)

**Week 2.** Topological Spaces (Questions 3A, 4A, 5F)

**Weeks 3 and 4.** New Spaces from Old (Questions 6B, 7E, 8A, 9C)

**Week 5.** Convergence (Questions 10A, 11A, 11D)

**Weeks 6 and 7.** Separation and Countability (Questions 13D, 13G, 16A, 16B)

**Weeks 8 and 9.** Compactness (Questions 17B, 18F, 19A)

**Week 10** Metrizable Spaces (Questions 23A, 25A)

**Weeks 11 and 12.** Connectedness (Questions 26F, 27D)

**Marking scheme:** Evaluation will be based on weekly presentations and the assigned questions. The weighting will be presentations 60% and assignments 40%.