

Math 4301 Course Outline
2007/2008

Instructors: For the fall, A.J. Dean, RB 2009, 343-8689, andrew.dean@lakeheadu.ca; and for the winter term, G. Lee, RB 2005, 346-7867, greg.lee@lakeheadu.ca

Office hours: For the fall term, Mondays, Wednesdays, and Fridays 11:30-12:30, or by appointment or happenstance. For the winter term, to be announced.

Textbooks: R.G. Bartle, *The Elements of Integration and Lebesgue Measure*, and J. Rotman, *Galois Theory*, 2nd ed.

Objects of the course: During the fall term, we shall cover the material in the first ten chapters of the measure theory textbook by Bartle, along with selected topics from the other chapters. The students will also learn to typeset documents using TeX. During the winter term, the topic will be Galois Theory, out of the textbook by Rotman.

Marking scheme: The two terms will be weighted equally. The marking scheme for the fall term is:

Written Assignments: 25%
Oral Presentations: 20%
Participation: 5%.

For the winter term the marking scheme is:

Written Assignments 15%
Presentations 10%
Exam 20%
Participation 5%.