

**WEBSTER UNIVERSITY**

**COURSE SYLLABUS**

**MTHC 5350.01**  
**COURSE NUMBER and SECTION**

**Andrea Rothbart**  
**INSTRUCTOR**

**LOGIC**

**TERM: Summer, 2003**

**Course Description: (Student focus, rationale, scope, prerequisites)**

This course is an introduction to mathematical logic and proofs.

**Learning Outcomes: (Goals, objectives, course outcomes, etc.)**

Students will become more sensitive to the use of language and will become better able to express mathematical arguments.

Class 1: Lewis Carroll Puzzles; Introduction to Attribute Block Puzzles.  
Classes 2 - 5: Attribute Block Puzzles; Techniques for solving Logic Puzzles  
Class 6: Quiz  
Classes 7 - 8: Quantification; Logic Games  
Classes 9 - 11: Expressing Mathematical Arguments; Paradoxes  
Class 12: Quiz

**Resources:**

Materials on Lewis Carroll puzzles, Attribute Block Puzzles and other Logic Puzzles to be distributed by instructor.

Evaluation: Evaluation is based upon class participation and quizzes.

**This syllabus is subject to change at the discretion of the instructor.  
Therefore, regular attendance is required.**