

Required text: S. Lay, *Analysis with an Introduction to Proof* (5th Edition, Pearson, 2014)

This schedule is based on the course meeting once per week over the full semester. The course can also be offered over seven weeks with the obvious modifications to the syllabus.

Week (one session per week)	Sections / Topics
Week 1	1.1 Logical Connectives
Week 2	1.2 Quantifiers
Week 3	1.3 Techniques of Proof I
Week 4	1.4 Techniques of Proof II
Week 5	EXAM #1
Week 6	2.1 Basic Set Operations
Week 7	2.2 Relations
Week 8	2.3 Functions
Week 9	EXAM #2
Week 10	2.4 Cardinality
Week 11	2.5 Axioms For Set Theory
Week 12	3.1 Natural Numbers and Induction
Week 13	EXAM #3
Week 14	REVIEW
FINAL EXAM	FINAL EXAM