Math B206: Transition to Higher Mathematics

Math 206 is designed to help you transition from the computational topics of 100-level courses to the theoretical material considered at the 300-level. In particular, you will:

- Learn the logic, structure, and techniques of mathematical proofs.
- Read and understand proofs and other explanations found in the textbook.
- Collaborate with other students to solve problems and write solutions.
- Communicate mathematics in oral and written form.
- Learn to typeset mathematics using LaTeX.
- Learn basic programming with the language R.

Topics encountered in this process include: sets, logic, counting, proof techniques (direct, contradiction, induction), relations, functions, cardinality, topics in analysis, topics in algebra, R basics (vectors, functions, data frames), and programming basics (loops, conditionals, defining functions).