46001 Elementary Topology (3)

Knowledge

The students learn the notions of the metric spaces, introduction to topological spaces, separation axioms

Comprehension

The students will be able to understand one of the most abstract notions of mathematics, the notion of a topological space.

Application

The students will be able to apply the definitions and properties to problems in geometry and topology.

Analysis

Should learn how the most abstract notions in topology help solving concrete problems in geometry.

Synthesis

N/A

Evaluation

Students will be able to critique their own proofs.

Class Activities

Discussion of theorems and problems.

Out of class Activities

Weekly homework assignments.