Marshall University

College of Science

MTH 430: Topology I

Course catalog description

General topology including separation axioms, connectedness, compactness, convergence, continuity, metric spaces, product and quotient spaces.

Credit hours

3 hours

Prerequisites

A grade of C or higher in MTH 300

List of topics

- Topological spaces - basis and subbasis, metric spaces, continuous functions and homeomorphims subspace topology, product topology, quotient topology
- Topological properties - separation axioms, metrizability, connectedness, compactness, countability axioms
- Rudiments of algebraic topology

Suggested textbooks

- *Topology*, Hocking and Young, Dover, 1988.
- *Basic Topology*, Armstrong
- *Introduction to Topology* Gamelin and Green

Last updated

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