MATH 477/578 Topology (3 units)

Course Outline

Sections	Topics	# of weeks
1–6	General Topology: Sets; topology on a set; bases; metric spaces; subspaces; position of a point with respect to a set.	3.0
9–11	Continuity: Maps; continuous maps; homeomorphisms.	2.5
12–17	Topological Properties: Connectedness; path connectedness; separation axioms; compactness.	2.5
21, 23	Topological Constructions: Quotient spaces; projective spaces.	2.5
30, 32	Fundamental Group: Homotopy; fundamental group.	2.5
	Tests	1.0

Textbook: Elementary Topology, 1st edition, by O. Viro, O. Ivanov, N. Netsvetaev, V. Kharlamov.

Adopted: Spring 2013.