

**Tennessee Technological University
Mathematics Department**

MATH 6210-6220: Topology I-II

- I. COURSE DESCRIPTION FROM CATALOG:** Topics in point-set topology, homotopy theory, triangulated spaces, homology theory, other topics in topology. Lec. 3-3. Cr. 3-3.
- II. PREREQUISITE(S):**
MATH 6210: C or better in MATH 4320 or MATH 5320 or consent of instructor.
MATH 6220: C or better in MATH 6210.
- III. COURSE OBJECTIVE(S):** Students will understand the advanced concepts of Topology
- IV. TOPICS TO BE COVERED:** Exact content is to be determined by the instructor. The following is a list of suggested topics from which the instructor might choose one or more items to cover.
- Piecewise Linear Topology
 - Dimension Theory
 - Introduction to Homology and Cohomology
 - Knot Theory
 - Continuum Theory
 - Geometric Topology in Low Dimensions
 - Infinite-dimensional Topology
 - Higher Homotopy Groups
- V. ADDITIONAL INFORMATION:**
- VI. POSSIBLE TEXTS AND REFERENCES:**
Topology and Geometry, 1st ed. by Bredon
Topology First Course, by Munkres
- VII. ANY TECHNOLOGY THAT MAY BE USED:**

Students with a disability requiring accommodations should contact the Office of Disability Services (ODS). 1
An Accommodation Request (AR) should be completed as soon as possible, preferably by the end of the first week of the course. The ODS is located in the Roaden University Center, Room 112; phone 372-6119.