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:

Last Revised: 06/10/09