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: