COURSE DETAIL

GENERAL TOPOLOGY
Country Korea, South
Host Institution Yonsei University
Program(s) Yonsei University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 103
UCEAP Course Suffix
UCEAP Official Title GENERAL TOPOLOGY
UCEAP Transcript Title GENERAL TOPOLOGY
UCEAP Quarter Units 4.50
UCEAP Semester Units 3.00

Course Description

This course begins with an understanding of the concept of distance in mathematics, and introduces the fundamental concepts and various properties of topological structures. It provides a theoretical foundation for topics previously used in calculus, including the real number system, limits, continuous functions, the extreme value theorem, the mean value theorem, the existence of definite integrals, the fundamental theorem of calculus, and the intermediate value theorem. In addition, the course explores the geometric properties of topological concepts. Topics include Set Theory and Logic, Topological Spaces and Continuous Functions, Connectedness and Compactness, Countability and Separation Axioms, The Tychonoff Theorem, Metrization Theorems and Paracompactness, and Complete Metric Spaces and Function Spaces.

Language(s) of Instruction
English

Host Institution Course Number
MAT3122

Host Institution Course Title
GENERAL TOPOLOGY

Host Institution Course Details
https://underwood1.yonsei.ac.kr/

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Course Last Reviewed
2025-2026

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