

COURSE DETAIL

TOPOLOGY

Country

Ireland

Host Institution

University of Galway

Program(s)

Irish Universities,National University of Ireland, Galway,University of Galway

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

TOPOLOGY

UCEAP Transcript Title

TOPOLOGY

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course introduces the theory and application of topology. Topics include the basic algebra of set theory, including De Morgan's Laws; topological space; the relationship between topologies and continuous functions; homeomorphism; construction of new topological spaces using the subspace and quotient constructions; compactness and basic theorems relating to this concept; connectedness and basic theorems relating to this concept; and applying topological ideas to solve problems in other areas of mathematics or applied mathematics e.g. topological proof of the fundamental theorem of algebra or a proof of the Brouwer fixed point theorem.

Language(s) of Instruction

English

Host Institution Course Number

MA342

Host Institution Course Title

TOPOLOGY

Host Institution Course Details

Host Institution Campus

National University of Ireland, Galway

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

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