

# The Department of Mathematics

2020–21–A term

**Course Name** Basic Concepts in Topology and Geometry

**Course Number** 201.2.5221

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/fall2021/courses/basic-concepts-in-topol>

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**Office Hours** <https://www.math.bgu.ac.il/en/teaching/hours>

## Abstract

## Requirements and grading<sup>1</sup>

## Course topics

- Topological manifolds. The fundamental group and covering spaces. Applications.
- Singular homology and applications.
- Smooth manifolds. Differential forms and Stokes' theorem, definition of de-Rham cohomology.
- Additional topics as time permits.

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<sup>1</sup>Information may change during the first two weeks of the term. Please consult the webpage for updates