

# The Department of Mathematics

2022–23–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/fall2023/courses/basic-concept-in-topology>

**Lecturer** Dr. David Corwin, <corwind@bgu.ac.il>, Office 215/58

**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.

---

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