

## 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://math.bgu.ac.il/en/teaching/fall2021/courses/basic-concepts-in-topology->

**Lecturer** Prof. Michael Brandenbursky, <brandens@bgu.ac.il>, Office 306

**Office Hours** <https://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