

## The Department of Mathematics

2022–23–B term

**Course Name** Ordinary Differential Equations

**Course Number** 201.1.0061

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/spring2023/courses/ordinary-differential-equations>

**Lecturer** Prof. Dmitry Kerner, <kernerdm@bgu.ac.il>, Office 217

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

### Abstract

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

### Course topics

Ordinary differential equations of first order, existence and uniqueness theorems, linear equations of order  $n$  and the Wronskian, vector fields and autonomous equations, systems of linear differential equations, nonlinear systems of differential equations and stability near equilibrium

---

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