



## The Department of Mathematics

2022–23–A term

**Course Name** Computer Programming

**Course Number** 202.1.1011

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/fall2023/courses/computer-programming>

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

### Abstract

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

### Course topics

Introduction to computer science 201-1-1011 .1 Basic Programming .2 Some order and arrays .3 Arrays and functions .4 Strings, Binary search and Selection sort .5 Insertion sort, handling matrices .6 Introduction to recursive programming .7 Recursive programming : binary search, selection sort, Merge sort .8 Last examples : recursive programming .9 Introduction to object oriented programming .10 Object oriented programming .11 Lecture canceled .12 Interfaces .13 Inheritance .14 Inheritance and abstract inheritance .15 Exceptions .16 Data structures .17 Stack application .18 Queue and linked lists .19 Lists - the recursive perspective .20 Trees

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