

## The Department of Mathematics

2019–20–B term

**Course Name** Computer Programming

**Course Number** 202.1.1011

**Course web page**

<https://www.math.bgu.ac.il/en/teaching/spring2020/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

---

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