

## **INTRODUCTION TO BIOLOGY B**

Tal Pupko, Dorothee Huchon, Nir Ohad

Spring Semester

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Office Hours: By appointment

### Short description:

This course introduces students to the principles of evolution and species diversity, covering the worlds of microbiology, animals and plants.

The course text book is "Biology" by Campbell. 11th edition:

1. Chapter 21: How evolution works
2. Chapter 23: Microevolution
3. Chapter 22: Phylogeny reconstruction
4. Chapter 20: Evolution of Genomes I
5. Chapter 20: Evolution of Genomes II
6. Chapter 24: Species & speciation
7. Chapter 25: Macroevolution
8. Chapter 26: Viruses
9. Chapter 27: Prokaryotes
10. Chapter 27: Prokaryotes
11. Chapter 28: Evolution of eukaryotes
12. Chapter 31: Fungi
13. Chapter 32: Animal diversity
14. Chapter 33: Invertebrates
15. Chapter 33/34: Vertebrates
16. Chapter 34: Vertebrates
17. Chapter 29: Evolution of Non vascular plants
18. Chapter 30: Evolution of Seed plants
19. Chapter 35: Plant structure & growth, from cells to tissues
20. Chapter 35: Plant structure & growth, organ formation
21. Chapter 36: Water Transport in vascular plants
22. Chapter 37: Reproduction of flowering plants, from flower to seedling development
23. Chapter 38: Plant signaling & Plant Hormones
24. Chapter 39: Plant Phototropism and gravitropism
25. Plant transformation and Biotechnology

Assessment\* :

Minor assignments:

NA.

Midterm:

In-class exam, 10% of the final grade.

Final requirement:

In-class exam, 90% of the final grade.

Participation:

No grade on participation.

Attendance:

Attendance is mandatory. Students are permitted a maximum of three absences. Students who do not meet the attendance requirements will be considered not to have fulfilled the obligations of the course.

Academic conduct:

Plagiarism is taken extremely seriously. Any instance of academic misconduct which includes: submitting someone else's work as your own; failure to accurately cite sources; taking words from another source without using quotation marks; submission of work for which you have previously received credit; working in a group for individual assignments; using unauthorized materials in an exam and sharing your work with other students, will result in failure of the assignment and will likely lead to further disciplinary measures.

Additional requirements: TBD

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\* Please note that if distance learning is required, the assessment procedure, modes of assessment and weightings may be changed.