



# Short Syllabus



Course Title	Credits
Introduction to Biology B	4
<b>Lecturers</b>	
Prof. Tal Pupko, Prof. Dorothee Huchon, Prof. Nir Ohad	
<b>Contact details</b>	
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<b>Semester</b>	
Spring	
<b>Short Description</b>	
<p>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 <i>Biology</i> by Campbell. 11th edition:</p> <ol style="list-style-type: none"><li>1. Chapter 21: How evolution works</li><li>2. Chapter 23: Microevolution</li><li>3. Chapter 22: Phylogeny reconstruction</li><li>4. Chapter 20: Evolution of Genomes I</li><li>5. Chapter 20: Evolution of Genomes II</li><li>6. Chapter 24: Species &amp; speciation</li><li>7. Chapter 25: Macroevolution</li><li>8. Chapter 26: Viruses</li><li>9. Chapter 27: Prokaryotes</li><li>10. Chapter 27: Prokaryotes</li><li>11. Chapter 28: Evolution of eukaryotes</li><li>12. Chapter 31: Fungi</li><li>13. Chapter 32: Animal diversity</li><li>14. Chapter 33: Invertebrates</li><li>15. Chapter 33/34: Vertebrates</li><li>16. Chapter 34: Vertebrates</li><li>17. Chapter 29: Evolution of Non vascular plants</li><li>18. Chapter 30: Evolution of Seed plants</li><li>19. Chapter 35: Plant structure &amp; growth, from cells to tissues</li><li>20. Chapter 35: Plant structure &amp; growth, organ formation</li><li>21. Chapter 36: Water Transport in vascular plants</li><li>22. Chapter 37: Reproduction of flowering plants, from flower to seedling development</li><li>23. Chapter 38: Plant signaling &amp; Plant Hormones</li><li>24. Chapter 39: Plant Phototropism and gravitropism</li><li>25. Plant transformation and Biotechnology</li></ol>	



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## Final grade components

### Course requirements and final grade:

The grade in the course will be based on 15% grades from quizzes (a total of 3 quizzes, 5 points each) and 85% from the final exam ( $0.85 \times \text{exam grade} + 0.15 \times \text{average-quiz-grad}$ ). Should the exam grade be higher than the quizzes' grade, the final grade will be 100% exam.

**Quizzes and final exam are in-class.**

### Quizzes

There will be three quizzes (one covering Tal's part, a second covering Nir's part and a final one covering Dorothee's part). Each quiz will take 30 minutes and will include 18 questions, of which at least 6 will be taken from Pearson's dynamic module questions. We thus recommend the student to answer Pearson's dynamic module questions following the completion of each chapter.

## Attendance

Attendance is mandatory. Students are permitted a maximum of three absences without penalty. Any additional absences will affect the final grade and may result in failure 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