



The Hebrew University of Jerusalem

Syllabus

introduction to biology - 72148

Last update 14-01-2014

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Life Sciences (Biology)

Academic year: 1

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Mt. Scopus

Course/Module Coordinator: Michael Brandeis

Coordinator Email: michael.brandeis1@mail.huji.ac.il

Coordinator Office Hours: By prior appointment

Teaching Staff:

Prof Michael Brandeis

Course/Module description:

Introduction molecular genetics

Course/Module aims:

Teach the students to comprehend the basics of modern biology

Learning outcomes - On successful completion of this module, students should be able to:

define basic concepts in biology; 2. Identify major molecules in biology; 3. describe their roles; 4. Analyze and present main genetics principles

Attendance requirements(%):

None

Teaching arrangement and method of instruction: Lecture

Course/Module Content:

- 1. What is life.*
- 2. Mendelian genetics*
- 3. DNA*
- 4. RNA*
- 5. Protein synthesis and decay*
- 6. The Genome project*
- 7. Epigenetics*
- 8. Genetically modified crops*
- 9. Cancer*
- 10. Sex*

Required Reading:

None

Additional Reading Material:

Biology
By Campbell and Reece

Course/Module evaluation:

End of year written/oral examination 100 %

Presentation 0 %

Participation in Tutorials 0 %

Project work 0 %

Assignments 0 %

Reports 0 %

Research project 0 %

Quizzes 0 %

Other 0 %

Additional information:

None