האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

The Hebrew University of Jerusalem

Syllabus

Structure & Function of Biomolecules - 94650

Last update 27-09-2017

HU Credits: *3.5*

Degree/Cycle: *1st degree (Bachelor)*

Responsible Department: *bio-medical sciences*

Academic year: *0*

Semester: *2nd Semester*

Teaching Languages: *Hebrew*

Campus: *Ein Karem*

Course/Module Coordinator: *Dr Reuven Wiener*

Coordinator Email: *ReuvenW@ekmd.huji.ac.il*

Coordinator Office Hours: *By Appointment*

Teaching Staff:

Dr. Reuven Wiener
Prof Saul Yedgar
Dr.
Ms. Orit Berhani
Ms. Klil Cohen

Course/Module description:
Structure and Functions of Biomolecules and their cellular regulation : Structure of Amino acids, Peptides, Proteins (Collagens, Different Oxygen Binding Proteins- Myoglobin, Hemoglobin A, A2, F and S, Lipids, Carbohydrates, Biological Membranes, Zymogens- Enzymes and Enzyme Kinetics.
Nucleotides, DNA, RNA structure and function.

Course/Module aims:
To get familiar with the different Biomolecules and to understand the molecular basis of their function and cellular regulation

Learning outcomes - On successful completion of this module, students should be able to:
The students should be able to analyze the molecular basis of the specific function of the different molecules and their regulation in the cell.

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures and Exercises

Course/Module Content:
Lehninger 6th edition Chapters 3,4,5,6,7,9,10,11

Required Reading:
Appropriate Chapters in Lehninger Principles of Biochemistry ,
6th Edition

Additional Reading Material:
Appears in Med. School Edu Portal

Course/Module evaluation:

End of year written/oral examination 85 %
Presentation 0 %
Participation in Tutorials 0 %
Project work 0 %
Assignments 15 %
Reports 0 %
Research project 0 %
Quizzes 0 %
Other 0 %

Additional information: