

2020/1 - BIO-4007Y PHYSICAL AND ANALYTICAL METHODS IN BIOCHEMISTRY

Full Year, Level 4 module
(Maximum 60 Students)

UCU: 20

Organiser: Dr Maria Vardakou

(UG) MODULE - 40% PASS ON AGGREGATE

Module Type: Coursework

Timetable Slot:G1/-H2\, G2\+, D3\

WHILE TAKING THIS MODULE YOU MUST TAKE BIO-4013Y

To understand Life we have to study and understand the molecular properties of life's components. For any biochemist these are cells, energy, macromolecules, biochemical reactions and transport (of energy or chemical components). The tools we use as scientists in our quest for understanding life are various physical and analytical methods. You will be introduced to the basic principles of thermodynamics, chemical equilibria, electrochemistry, and reaction kinetics. You will conclude the module by having a look at various physical and analytical techniques that are being used in current Biochemistry. This lectures will introduce you and provide you with essential information about some of the physical principles that underpin our understanding of molecular and cellular systems. The complementary seminar series will help to consolidate your understanding through applying this knowledge to selected topics in biochemistry and provide you with the opportunity to develop skills in problem solving, data analysis, scientific writing, and presentation. The module is also enriched with six math workshops. In these workshops you are going to consolidate but also further develop basic and more advanced mathematical skills that directly relate with this module but that will also assist you for the duration of your degree.

2020/1 - BIO-4017Y BIOLOGICAL CHEMISTRY

Full Year, Level 4 module
(Maximum 200 Students)

UCU: 20

Organiser: Dr Maria Vardakou

(UG) MODULE - 40% PASS ON AGGREGATE

Module Type: Coursework

Timetable Slot:E

Exam Paper(hrs):

This module will provide 1st year students with essential information about the physical and chemical principles that underpin our understanding of biochemical systems and cellular metabolism. This module is going to be delivered to 1st year students on the Biological Sciences, Biomedicine and Molecular Biology and Genetics degree programs.

2020/1 - BIO-5012Y BIOLOGY IN SOCIETY

Full Year, Level 5 module
(Maximum 70 Students)

