

## BSc (Hons) BIOMEDICAL SCIENCES COURSE SPECIFICATION

Course Aim and Title	BSc (Hons) Biomedical Science
Intermediate Awards Available	BSc, DipHe, CertHe Biomedical Science
Teaching Institution(s)	UEL
Alternative Teaching Institutions (for local arrangements see final section of this specification)	Metropolitan College, Greece
UEL Academic School	Health, Sport and Bioscience
UCAS Code	B940
Professional Body Accreditation	Institute of Biomedical Science
Relevant QAA Benchmark Statements	Biosciences / Biomedical Science
Additional Versions of this Course	BSc (Hons) Biomedical Science with Placement Year; BSc (Hons) Biomedical Science with Foundation Year
Date Specification Last Updated	February 2019

### Course Aims and Learning Outcomes

This course is designed to give you the opportunity to:

- Study the biology of disease of the human body
- Experience extensive laboratory training through all years of the course
- Study specialist areas of Biomedical Science included in the course, which is otherwise broadly based
- Potentially obtain a laboratory placement to aid clinical training in hospital laboratories

What you will learn:

Knowledge

- All students gain a broad overview of the biology field at Level 1. Thereafter they will acquire more detailed specialist knowledge
- The course aims to provide a background to a large number of the scientific techniques used in biological investigations
- Students will acquire an understanding of the laboratory procedures and techniques used which will allow the rapid acquisition of more specialist skills later in their career

- An awareness of the wider implications of scientific research on society as a whole

#### Thinking skills

- The ability to comprehend, analyse and criticize published information in biology
- The ability to formulate hypotheses with the minimum of assistance
- The ability to use integrated approaches to problem solving

#### Subject-Based Practical skills

- The ability to analyse data from own and other people's experiments and to interpret them in the light of published work
- The ability to select and apply a range of practical skills relevant to your chosen areas of biology
- The ability to design and carry out experimental work
- The ability to effectively communicate your work to scientists and the general public
- The ability to select and utilize appropriate computer software
- The ability to carry out literature searches effectively to find information of a specific topic

#### Skills for life and work (general skills)

- The development of own style of independent learning
- The ability to communicate ideas and experiments to others and to debate relevant scientific and/or ethical skills
- IT skills
- Communication skills
- Team work
- Time management
- Confidence

## Learning and Teaching

#### Knowledge is developed through

- Lectures and tutorials
- Workshops and practicals
- Guided reading
- Internet and Moodle
- Knowledge-based activities with feedback

#### Thinking skills are developed through

- Independent reading
- Computer aided learning
- Preparing for tutorials, seminars and workshops
- Presentations
- Completing coursework assignments (including data analysis, essays, presentations, etc.)
- Reflective activities with feedback

Practical skills are developed through

- Library practical and/or filedwork
- Computer simulations and IT activities with feedback
- Research skills-based activities with feedback

Skills for life and work (general skills) are developed through

- Managing time
- Planning activities with feedback
- Presenting ideas and arguments in structured manner – written and oral communication
- Problem solving
- Team work
- Project work

## Assessment

List here the assessment methods that you use. Once again, in order to demonstrate that all learning outcomes are assessed, it might be helpful if you use one of the approaches suggested above. Examples of forms of assessment include coursework, presentations, and case studies.

Knowledge is assessed by

- Evidence of reading and comprehension of the topics covered in the modules being assessed. This will be particularly apparent in essay work and examinations
- Ability to describe, explain and discuss various aspects of the course material in the context of class tutorials, group work, presentations and other pieces of assessed coursework for the modules.

Thinking skills are assessed by

- Coursework, examinations, project work
- In the final year particularly, thinking skills will be assessed by the ability to take information presented in any module out of its original context and to utilise this information in the construction of arguments, comparisons, hypotheses as required to address the specific assessments in each module

Practical skills are assessed by

- The ability to carry out laboratory practical work effectively, within the timeframe allocated
- The ability to interpret and report on work carried out in the laboratory
- The ability to complete assignments using appropriate resources
- Evidence of logical planning and management of time in the preparation of materials for assessment

Skills for life and work (general skills) are assessed by

- The ability to work to strict deadlines

- The ability to select and utilize appropriate problem solving skills
- Demonstration of effective oral and written communication skills
- Evidence of general numeracy skills
- Evidence of interpersonal skills such as teamwork and/or team leadership

Students with disabilities and/or particular learning needs should discuss assessments with the Course Leader to ensure they are able to fully engage with all assessments within the course.

## Work or Study Placements

The third year of the course might be spent in a Sandwich Placement. This is optional, but when available it is strongly recommended for students on this course. Students undertaking Sandwich Placement will gain significant advantages in obtaining the Institute of Biomedical Science registration and in job prospects.

Placements are not guaranteed but selected by a competitive process and will be based in local NHS Trusts.

## Course Structure

All courses are credit-rated to help you to understand the amount and level of study that is needed.

One credit is equal to 10 hours of directed study time (this includes everything you do, e.g. lecture, seminar and private study).

Credits are assigned to one of 5 levels:

- 3 Equivalent in standard to GCE 'A' level and is intended to prepare students for year one of an undergraduate degree course.
- 4 Equivalent in standard to the first year of a full-time undergraduate degree course.
- 5 Equivalent in standard to the second year of a full-time undergraduate degree course.
- 6 Equivalent in standard to the third year of a full-time undergraduate degree course.
- 7 Equivalent in standard to a Masters degree.

Courses are made up of modules that are each credit weighted.

The module structure of this course:

<b>Level</b>	<b>Module Code</b>	<b>Module Title</b>	<b>Credit Weighting</b>	<b>Core/Option</b>	<b>Available by Distance Learning?</b>
4	BS4100	Professional Practice in Science (Mental Wealth)	20	Core	N
4	BS4101	Essential Chemistry	20	Core	N
4	BS4102	Cell Biology	20	Core	N
4	BS4105	Introduction to Biochemistry and Molecular Biology	20	Core	N
4	BS4106	Fundamentals in Human Anatomy and Physiology	20	Core	N
4	BS4107	Fundamentals in Microbiology	20	Core	N
4	BS4099	Level 4 Short Work Placement	0	O	N
5	BS5103	Human Disease and Clinical Practice	20	Core	N
5	BS5101	Molecular Biology and Genetics	20	Core	N
5	BS5100	Infection and Immunity	20	Core	N
5	BS5112	Cellular Biochemistry	20	Core	N

5	BS5111	Haematology and Transfusion Science	20	Core	N
5	BS5110	Research and Career Development (Mental Wealth)	20	Core	N
5	BS5012	Level 5 Short Work Placement	0	O	N
5	BS5013	Year Long Placement (Sandwich Year)		Option	N
6	BS6100	Clinical Biochemistry	20	Core	N
6	BS6101	Medical Microbiology	20	Core	N
6	BS6103	Cellular Pathology	20	Core	N
6	BS6115	Clinical Immunology	20	Core	N
6	BS6116	Clinical Genetics	20	Core	N
6	BS6113	Research Project and Career Enhancement Portfolio (Mental Wealth)	20	Core	N
6	BS6099	Level 6 Short Work Placement	0	O	N
<p><i>Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, in order to create the best learning experience.</i></p>					
<p>Additional detail about the course module structure:</p>					

A core module for a course is a module which a student must have passed (i.e. been awarded credit) in order to achieve the relevant named award. An optional module for a course is a module selected from a range of modules available on the course.

The overall credit-rating of this course is 360 credits. If for some reason you are unable to achieve this credit you may be entitled to an intermediate award, the level of the award will depend on the amount of credit you have accumulated. You can read the University Student Policies and Regulations on the UEL website.

## Course Specific Regulations

The UEL pass compensation rule is not applicable on the BSc (Hons) Biomedical Science course because of requirements by the accrediting professional body, the Institute of Biomedical Science.

For progression from the foundation year pathways into the accredited BSc Biomedical Science all modules must be passed with a minimum aggregated mark of 60% for foundation year.

## Typical Duration

It is possible to move from full-time to part-time study and vice-versa to accommodate any external factors such as financial constraints or domestic commitments. Many of our students make use of this flexibility and this may impact on the overall duration of their study period.

The expected duration of this course is 3 years full-time or 4 years full-time with Placement Year. If a student enters the course through the Foundation route then it would be 4 years full-time and 5 years full-time with Placement Year.

A student cannot normally continue study on a course after 4 years of study in full time mode unless exceptional circumstances apply and extenuation has been granted. The limit for completion of a course in part time mode is 7 years from first enrolment.

## Further Information

More information about this course is available from:

- The UEL web site ([www.uel.ac.uk](http://www.uel.ac.uk))
- The course handbook
- Module study guides
- UEL Manual of General Regulations (available on the UEL website)
- UEL Quality Manual (available on the UEL website)
- School web pages

All UEL courses are subject to thorough course approval procedures before we allow them to commence. We also constantly monitor, review and enhance our courses by listening to student and employer views and the views of external examiners and advisors.

Additional costs:

None.

### Alternative Locations of Delivery

This course is also taught by Metropolitan College in Greece and awarded by the University of East London

This course has professional body accreditation by the Institute of Biomedical Science.