

BSc (Hon) MEDICAL PHYSIOLOGY COURSE SPECIFICATION

Final Award	BSc (Hons) Medical Physiology
Intermediate Awards Available	Cert HE, Dip HE, BSc
Teaching Institution(s)	University of East London
UEL Academic School	Health, Sport and Bioscience
UCAS Code	B121
Professional Body Accreditation	N/A
Relevant QAA Benchmark Statements	Biomedical Sciences 2015
Additional Versions of this Course	BSc (Hons) Physiology with Placement Year; BSc (Hons) Physiology with Foundation year; BSc (Hons) Physiology with Foundation year and Placement Year
Date Specification Last Updated	March 2019

Course Aims and Learning Outcomes

This course is designed to give you the opportunity to:

- To understand the anatomy and function of the human body in health and disease.
- To study techniques and instrumentation used to investigate/assess health and disease
- Critically evaluate the concepts, techniques and applications of Physiology
- To develop research skills
- To develop independent learning, life and employability skills
- Develop the practical and transferable skills necessary for careers in research, teaching, Medicine and professions allied to Medicine and industry

What you will learn:

Knowledge

- All students gain a broad overview of the biology field at level three. Thereafter you will acquire more detailed specialist knowledge in your chosen areas.
- 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 criticise 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 your 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 utilise appropriate computer software.
- The ability to carry out literature searches effectively to find information on a specific topic.

Skills for life and work (general skills)

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

Learning and Teaching

Knowledge is developed through

- Lectures
- Tutorials
- Workshops
- Lab Practicals
- Reading
- Internet, Moodle and CAL

Thinking skills are developed through

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

Practical skills are developed through

- Laboratory Practical and/or fieldwork
- Computer simulations and use of IT
- IT activities with feedback
- Research skills-based activities with feedback

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

- Project work
- Managing time
- Presenting ideas and arguments in a structured manner - written and oral communication
- Problem solving
- Team work
- First Aid Course

Assessment

A wide variety of assessment methods are used including:

- Written examinations
- Practical reports
- Essays
- Data analysis
- Poster presentations
- Oral presentations
- Portfolios
- Final year research project and dissertation
- MCQ tests
- Database searches
- Library exercises
- Anatomy vivas

Knowledge and Thinking skills are assessed by:

- Evidence of reading and comprehension of the topics covered in the module 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 module.
- 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 etc 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 utilise appropriate problem solving skills
- Demonstration of effective oral and written communication skills
- Evidence of interpersonal skills such as teamwork and /or team leadership
- Evidence of general numeracy skills

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 assessment within the course.

Work or Study Placements

The 4-year sandwich course offers you the possibility of one year's work in a hospital, research organisation or business enterprise in the UK or further afield. Both the 3-year and 4-year courses allow the opportunity to register on non-credit bearing short placement modules at every level of study.

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:

Level	Module Code	Module Title	Credit Weighting	Core/Option	Available by Distance Learning?
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	Option	N

5	BS5100	Infection and Immunity	20	Core	N
5	BS5104	Physiological Regulation	20	Core	N
5	BS5105	Fundamental & Experimental Pharmacology	20	Core	N
5	BS5113	Functional Anatomy	20	Core	N
5	BS5112	Cellular Biochemistry	20	Core	N
5	BS5110	Research and Career Development (Mental Wealth)	20	Core	N
5	BS5013	Year Long Placement (Sandwich Year)		Option	N
5	BS5012	Level 5 Short Work Placement	0	Option	N
6	BS6103	Cellular Pathology	20	Core	N
6	BS6105	Clinical Physiology	20	Core	N
6	BS6119	Applied Physiology	20	Core	N
6	BS6113	Research Project and Career Enhancement Portfolio (Mental Wealth)	20	Core	N
6	BS6106	Neuropsychopharmacology & Emerging Therapeutics	20	Option	N

6	BS6120	Cardiovascular & Pulmonary Pharmacology	20	Option	N
6	BS6121	Toxicology	20	Option	N
6	SE6001	Exercise Physiology Techniques	20	Option	N
6	BS6099	Level 6 Short Work Placement	0	Option	N

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.

Additional detail about the course module structure:

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

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 5 years part-time.

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)
- 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.