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| Programme Aim and Title | BSc 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) | AKMI Metropolitan College, Greece |
| UEL Academic School | Health, Sport and Bioscience |
| UCAS Code | |
| Professional Body Accreditation | Institute of Biomedical Science |
| Relevant QAA Benchmark Statements | Biosciences / Biomedical Science |
| Additional Versions of this Programme | BSc (Hons) Biomedical Science with Placement Year; BSc (Hons) Biomedical Science with Foundation Year |
| Date Specification Last Updated | December 2017 |

Programme Aims and Learning Outcomes

This programme 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 of specialist areas of Biomedical Science are included in the programme, 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 you will acquire more detailed specialist knowledge in your chosen area
- The programme 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 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, Moodle and CAL
- Knowledge-based activities with feedback

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

Practical skills are developed through

- Library practical and / or fieldwork
- Computer simulations and use of IT

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

- Managing time
- Presenting ideas and arguments in structured manner – written and oral communication

- Problem solving
- Team work

Assessment

Knowledge and thinking skills are 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 programme material in the context of class tutorials, groups work, presentation 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 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 Programme Leader to ensure they are able to fully engage with all assessment within the programme.

Work or Study Placements

The third year of the programme might be spent in a sandwich placement. This is optional, but when available it is strongly recommended for students on this programme. Students undertaking sandwich placement will gain significant advantages in obtaining IBMS Registration and in job prospects.

Programme Structure

All programmes 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 programme.
- 4 Equivalent in standard to the first year of a full-time undergraduate degree programme.
- 5 Equivalent in standard to the second year of a full-time undergraduate degree programme.
- 6 Equivalent in standard to the third year of a full-time undergraduate degree programme.
- 7 Equivalent in standard to a Masters degree.

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

The module structure of this programme:

| Level | Module Code | Module Title | Credit Weighting | Core/Option | Available by Distance Learning? Y/N |
|-------|-------------|------------------------------|------------------|-------------|----------------------------------------|
| 4 | PP4003 | Essential Chemistry | 30 | Core | N |
| 4 | BS4002 | Cell Biology | 30 | Core | N |
| 4 | BS4001 | Biochemistry | 30 | Core | N |
| 4 | PP4004 | Human Anatomy and Physiology | 30 | Core | N |
| 5 | BS5001 | Biology of Disease | 30 | Core | N |
| 5 | BS5002 | Cellular Biochemistry | 30 | Core | N |

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|---|--------|--------------------------------------|----|--------|-----|
| 5 | BS5005 | Infection and Immunity | 30 | Core | N |
| 5 | PP5011 | Physiological Regulation | 15 | Core | N |
| 5 | BS5003 | Clinical Diagnosis | 15 | Core | N |
| | BS5013 | Work Placement Year | | Option | N/A |
| 6 | BS6003 | Clinical Biochemistry | 30 | Core | N |
| 6 | BS6002 | Cellular Pathology and Blood Science | 30 | Core | N |
| 6 | BS6005 | Clinical Infection and Immunity | 30 | Core | N |
| 6 | PP6009 | Research Project | 30 | Core | N |

Please note: Optional modules might not run every year, the programme 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 programme module structure:

A core module for a programme 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 programme is a module selected from a range of modules available on the programme.

The overall credit-rating of this programme 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.

Programme Specific Regulations

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

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 programme is 3 years full-time or 4 years part-time. If a student enters the programme 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 programme after 4 years of study in full time mode unless exceptional circumstances apply and extenuation has been granted. The limit for completion of a programme in part time mode is 8 years from first enrolment.

Further Information

More information about this programme is available from:

- The UEL web site (www.uel.ac.uk)
- The programme 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 programmes are subject to thorough programme approval procedures before we allow them to commence. We also constantly monitor, review and enhance our programmes by listening to student and employer views and the views of external examiners and advisors.

Additional costs:

None

Alternative Locations of Delivery

This programme is also taught by AKMI Metropolitan College, Greece and awarded by the University of East London.

This programme accredited by the Institute of Biomedical Science.