**BSc Biomedical Science: Summary of course structure**

**Year 1: Term 1 (11 weeks)**

**Cell and molecular biomedical science (CMBS)**

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| ***Week*** | ***Content*** |
| 1 | Introduction and welcome week |
| 2 | Chemistry and biochemistry of biomolecules  Biology of cells and tissues  Quantitative biomedical research techniques |
| 3 | Metabolism  Nucleic acids and gene expression |
| 4 | Metabolism  Nucleic acids and gene expression |
| 5 | Biology of cells and tissues  Nucleic acids and gene expression |
| 6 | Nucleic acids and gene expression |
| 7 | Quantitative biomedical research techniques  Chemistry and biochemistry of biomolecules |
| 8 | Biology of cells and tissues  Immunology & infection |
| 9 | Immunology & infection |
| 10 | Immunology & infection |
| 11 | Immunology & infection & CMBS examination (Part a) |

**Year 1: Term 2 (10 weeks)**

**Biology of integrative systems: Weeks 1-8**

**Biology of specific systems: Weeks 9-10**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| 1-2 | Nervous system |
| 3-4 | Musculo-skeletal |
| 5-6 | Endocrine |
| 7-8 | Haematology |
| 9-10 | Cardiopulmonary |

**Year 1: Term 3 (9 weeks)**

**Biology of specific systems (continued)**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| 1-3 | Reproduction, development & aging |
| 4-5 | Digestive and metabolic systems |
| 6-8 | Revision |
| 9 | Examinations |

**Cell and molecular biomedical sciences: 24 ECTS**

**Biology of integrative systems: 20 ECTS**

**Biology of specific systems: 16 ECTS**

**Year 2: Term 1 (11 weeks)**

**Pharmacology, Pathology, Psychology and Population (PPPP)**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| 1-2 | Epidemiology and Public Health |
| 3-4 | Principles of Human Behaviour & Psychology |
| 5-8 | Introduction to Pharmacology |
| 9-11 | Pathology of infectious diseases \* |

**Year 2: Term 2 (11 weeks)\*\***

**Advanced Cell and Molecular Science: Weeks 2 – 4; 9 – 11**

**Specialist options: Weeks 5 - 8**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| 1 | PPPP examination (Parts a and b) |
| 2-4 | Applied Molecular Biology |
| 5-6 | Specialist options-I |
| 7-8 | Specialist options-II |
| 9-11 | Cancer biology |

**Year 2: Term 3 (9 weeks)**

**Immunology: Weeks 1 - 4**

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| --- | --- |
| ***Week*** | ***Content*** |
| 1-4 | Immunology\*\*\* |
| 5 | Tutored dissertation completion and submission |
| 6-9 | Revision and exams |

\*: To include virology, bacteriology & parasitology

\*\*: There will be timetabled study periods throughout the term set aside for students to work on their tutored dissertations

\*\*\*: teaching and assessment provided by Faculty of Natural Sciences

**Pharmacology, Pathology, Psychology and Population: 23 ECTS**

**Advanced Cell and Molecular Science: 12 ECTS**

**Specialist Options: 8 ECTS**

**Immunology: 8.5 ECTS**

**Tutored Dissertation: 8.5 ECTS**

**Year 3**

In Year 3 students select an option from the Science Year courses offered by the Faculty of Medicine. Current options are Cardiovascular Sciences, Endocrinology, Gastroenterology and Hepatology, Global Health, Haematology, Immunity and Infection, Neuroscience and Mental Health, Pharmacology, Reproductive and Developmental Sciences, Respiratory Science and Surgery and Anaesthesia. All courses follow the same modular structure which is outlined below. All options commence with an introductory two weeks to ensure that students from different programme streams all have the same core knowledge and skills. Following completion of the taught modules, students select a research project or specialist options. Current options are Medical Humanities, History of Medicine and Death, Autopsy and the Law. All specialist options include a mini-project which requires submission of a dissertation.

**Year 3: Term 1 (12 weeks)**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| Weeks 1-2 | Introduction |
| Weeks 3-7 | Module 1 |
| Weeks 8-12 | Module 2 |

**Year 3: Term 2 (13 weeks)**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| Weeks 1-5 | Module 3 |
| Weeks 6-7 | Revision |
| Week 8 | Examinations |
| Weeks 9-13 | Project or Specialist Option |

**Year 3: Term 3 (9 weeks)**

|  |  |
| --- | --- |
| ***Week*** | ***Content*** |
| Weeks 1-7 | Project or Specialist Option continues |
| Week 9 | Submission of dissertation |

**Introduction: Does not contribute to final degree award**

**Taught modules 1 – 3: 36 ECTS**

**Project or specialist option: 24 ECTS**