## Module Catalogue Life Sciences Postgraduate Study Abroad 2025/6 Semester 2

| **Module Code** | **Module Name** | **Level** | **Semester** | **UK Credit Value** |
| --- | --- | --- | --- | --- |
| **Life Sciences** | | | | |
| 7BIOM012W | [Clinical Endocrinology and Metabolism](#7BIOM012W) | 7 | Semester 2 | 20 |
| 7BIOM018W | [Immunohaematology & Haemostasis](#7BIOM018W) | 7 | Semester 2 | 20 |
| 7BIOM023W | [Infectious Diseases and Public Health](#7BIOM023W) | 7 | Semester 2 | 20 |
| 7BIOM037W | [Systems Biology](#7BIOM037W) | 7 | Semester 2 | 20 |
| 7BIOM039W | [Molecular Bioengineering](#7BIOM039W) | 7 | Semester 2 | 20 |
| 7BIOT004W | [Science, Technology and Commercialisation](#7BIOT004W) | 7 | Semester 2 | 20 |
| 7HMNT016W | [Global Challenges in Food and Health](#7HMNT016W) | 7 | Semester 2 | 20 |
| 7HMNT022W | [Global Approaches to Health and Well-Being](#7HMNT022W) | 7 | Semester 2 | 20 |
| 7HMNT025W | [Policy and Practice of Social Prescribing and Well-Being](#7HMNT025W) | 7 | Semester 2 | 20 |

## Life Sciences

### Clinical Endocrinology and Metabolism

[**Module Code: 7BIOM012W**](#7BIOM012W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

An in depth study of the aetiology, pathogenesis and laboratory investigation of selected metabolic and endocrine disorders. To include diabetes mellitus and hypoglycaemia, lipids and lipoproteins, bone disease, reproductive disorders, thyroid function and the adrenal disorders. The module will explore evidence-based guidelines, current practice and novel approaches to the assessment and monitoring of individuals.  
**Assessment:** Portfolio (100%)

### Immunohaematology & Haemostasis

[**Module Code: 7BIOM018W**](#7BIOM018W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This module will cover clinically important blood group systems and laboratory techniques used to identify blood group antigens and antibodies, and to ensure safety of blood components for transfusion and transplantation. In addition the various components of the haemostasis system will be discussed together with clinical disorders leading to increased risk of bleeding or thrombosis. Anticoagulant therapy and relevant laboratory techniques for investigation of haemostasis will also be covered.  
**Assessment:** Presentation (50%), Lab-Based Practical (50%)

### Infectious Diseases and Public Health

[**Module Code: 7BIOM023W**](#7BIOM023W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This module will provide insight into the study of the transmission and epidemiology of communicable diseases and the influence of mode of transmission by looking at outbreaks and epidemics, including emergence control and the role of vaccines, therapeutics and intervention strategies in controlling these diseases. The epidemiology, pathogenesis and laboratory diagnosis of selected infectious diseases with focus on those which are new or topical will also be explored, as will the use of new technologies for the characterisation of pathogens and their detection.    
**Assessment:** Coursework Practical (50%), Presentation Group- submissions only (50%)

### Systems Biology

[**Module Code: 7BIOM037W**](#7BIOM037W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This module will introduce the theoretical and practical underpinnings of systems biology. The emphasis is on studies of entire systems assisted by the use of bioinformatics and how the knowledge from these may be applied to medicine. The module will examine databases and other resources as well as discuss  key issues to the studies of entire systems.   
**Assessment:** Essay (50%), Coursework Practical (50%)

### Molecular Bioengineering

[**Module Code: 7BIOM039W**](#7BIOM039W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

Large databases yield information about DNA, RNA and protein variation between individuals and species and bioinformatics is a crucial component of molecular biology. Polymorphisms, epigenetics and microRNA have all greatly enhanced our knowledge about regulation of gene expression. This module will look at applications of a range of advanced molecular techniques such as next generation sequencing, microarrays, quantitative and multiplex PCR alongside our knowledge of OMICS databases.  
**Assessment:** Presentation (50%), In-Class Test/Assignment exam conditions (50%)

### Science, Technology and Commercialisation

[**Module Code: 7BIOT004W**](#7BIOT004W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

An depth study on the scope of commercial biotechnology and starting and financing an operational company. The role of intellectual property protection, preparing a business plan and communicating business ideas, assessing projects, managing a company, and managing finances are all included, as well as how to comply with industrial safety legislation and regulatory requirements.   
**Assessment:** Presentation (25%), Coursework (75%)

### Global Challenges in Food and Health

[**Module Code: 7HMNT016W**](#7HMNT016W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This modulewill explorethe many challenges to sustainable,safe and equitable food supplies. Different conceptual frameworks, such as food security and food regimes, will be compared with food providing a lens to examine the contributions of different academic disciplines in developing multi-sectoral actions. The role of the UN, government and private sectors actors in relation to food production, trade, access and consumption will be examined while current policies to establish safe and equitable food supplies will also be discussed.  
**Assessment:** Presentation Group (30%), Coursework (70%)

### Global Approaches to Health and Well-Being

[**Module Code: 7HMNT022W**](#7HMNT022W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This module will explore recent advances in evidence-based integrative medicine. A broad range of both Western and non-Western approaches to health and wellbeing will be evaluated which will be based around diet, exercise, therapies and activities. These approaches will focus particularly on chronic disease, long-term illness and aging. The module will include appraisal of the validity for the integration of these interventions and modalities.  
**Assessment:** Essay (70%), Flexible Individual Coursework (30%)

### Policy and Practice of Social Prescribing and Well-Being

[**Module Code: 7HMNT025W**](#7HMNT025W_return)

**Level 7**

**Semester 2**

**Location: Cavendish**

**UK Credit Value: 20**

This module focuses on the evidence-based research which has informed key UK policy development in health and wellbeing.?The evidence for the impact of Social Prescribing and Wellbeing on individuals and communities will be evaluated, also considering critics of this field. International applications of Social Prescribing across different health systems and the key roles of professionals delivering Social Prescribing will be discussed. The module will explore concurrent development and implementation of inclusivity legislation, and its effect on health and wellbeing.  
**Assessment:** Presentation (50%), Coursework (50%)