



PARTNERS ACADEMIC SUMMER SCHOOL 2024

Syllabus for Biomedical Sciences

Subject Area

This syllabus is for PARTNERS applicants seeking to progress to the degrees of:

• Medical Science (Deferred Choice) • Biochemistry • Biomedical Sciences • Biomedical Genetics • Physiological Sciences • Pharmacology • Biomedical Sciences with Industrial Placement Year • MSci Biomedical Sciences • MSci in Biomedical Genetics • MSci in Biochemistry • BSc Nutrition w/ Food Mktg w/ Placement • Master of Dietetics • BSc Food & Human Nutrition with Placement • BSc (Hons) Food and Human Nutrition

Aims

To allow students to demonstrate their potential to succeed in specified degree programmes by showing a grasp of entry-level subject-specific knowledge, understanding, cognitive and subject-specific skills.

Learning Outcomes

A good knowledge and understanding of ...

- The structure and biochemical activities of bacteria
- The microbiome
- The relationship between the microbiome and human disease
- How diet effects the balance of the microbiome
- Bacterial identification methods
- The impact of antibiotics on the microbiome

The ability to apply this knowledge and critical understanding to...

- Assimilate information from various sources and apply it to a specific case study
- Collate data from practical work and derive deeper understanding build on their prior study and apply to novel situations which enable them to explain how a healthy microbiome is needed for optimal health
- Evaluate how lifestyle can impact the health of the microbiome and so human pathology and physiology.

Competence in...

- Retrieving resources that support understanding of biomedical issues
 - Applying academic understanding to pertinent real-life case studies
 - Using greater academic understanding to interpret public-facing material
 - Working in a laboratory to develop an understanding
 - Working independently to develop an understanding of core information
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Summer School Syllabus

Please see subject timetable for more information

Activities for Personal Study

The students will be set activities during the teaching sessions and through Canvas which will enable them to better understand the concepts delivered. These will be shared through discussions both online and in-person

Online Teaching:

Monday 1st , Tuesday 2nd July

On-Campus Teaching:

Wednesday 3rd (PM), Thursday 4th & Friday 5th July

Formative Assessment Details

A Multiple choice test will be released at the end of the programme which will enable the students to demonstrate their engagement. Research and Referencing tasks throughout the week will enable the student to demonstrate research and study skills

Hand-in Method

Digital

Assessment deadline

Friday 12th July