

BSc (HONS) APPLIED MICROBIOLOGY

(N/421/6/0059) (01/2022) (MQA/FA 14527)

ILLUMINATE THE MICRO-WORLD

A microbiologist is a scientist who studies microscopic life forms and processes. Microbiology essentially overlaps with other areas of biology such as genetics, molecular biology and immunology. Expect careers in various fields, including research and the academia. As a University with a reputation of offering exceptional education, you are certainly in the right direction towards attaining a wholesome learning experience as global careers awaits!

COURSE MODE	Full Time
COURSE DURATION	3 years
COURSE LOCATION	Kuala Lumpur
INTAKES	January, May, September

COURSE SYLLABUS

<p>Year 1</p> <ul style="list-style-type: none"> • Hubungan Etnik/Pengajian Malaysia • TITAS/BM Komunikasi 3 • University Life • Chemistry For Applied Sciences • Biomolecular Structure and Function • Fundamental Techniques in Applied Sciences • Human Anatomy and Physiology • Microbiology • IP rights and Biosafety • Extra-curricular Learning Experience 1 • Co-Operative Placement 1 	<p>Year 2</p> <ul style="list-style-type: none"> • Immunology • Microbial Genetics • Analytical Chemistry • Bioeconomy and Commercialization • Research Methods and Data Analysis • Bioinformatics • Biocatalyst and Biosensors • Tools in Genetic Engineering • Responsible Conduct of Research / Business Law – Malaysian Perspective • Extra-curricular Learning Experience 2 • Co-Operative Placement 2 	<p>Year 3</p> <ul style="list-style-type: none"> • Food Microbiology • Agricultural Microbiology • Environmental Microbiology • Industrial Microbiology • Medical Microbiology • Pharmaceutical Microbiology • Current Topics in Microbiology • Extra-curricular Learning Experience 3 • Co-Operative Placement 3 • Applied Microbiology Research Project 1 • Applied Microbiology Research Project 2 • Applied Microbiology Research Project 3 	<p>Elective A (Choose one)</p> <ul style="list-style-type: none"> • Fundamentals of Marketing • Introduction to Public Speaking • Introduction to Programming <p>Elective B (Choose two)</p> <ul style="list-style-type: none"> • Environmental Monitoring and Assessment • Ecology and Sustainability • Introduction to Biomaterials • Food Safety and Quality System
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ENTRY REQUIREMENTS

ACADEMIC QUALIFICATIONS

- UCSI Foundation in Science or equivalent in Malaysia – Minimum CGPA of 2.0 and THREE credits in SPM inclusive of Maths and ONE Science subject
- Matriculation – Minimum CGPA of 2.0 and THREE credits in SPM/O-Level inclusive of Maths and ONE Science subject
- STPM – Minimum CGPA of 2.0 in any two subjects and THREE credits in SPM/O-Level inclusive of Maths and ONE Science subject
- UEC – Minimum grade B in FIVE subjects inclusive of Chemistry, Biology, Physics/Mathematics, and PASS SPM or equivalent
- A-Level – Minimum Grade C (GPA of 2.0) in any two subjects, and THREE credits in O-Level inclusive of Mathematics and ONE Science subject
- Australian High/Secondary School Diploma (Grade 12) – SAM/Ausmat/SACE/TEE/NTCE/WACE – Minimum ATAR of 60% or minimum average of 60% in FIVE subjects inclusive of Chemistry, Biology, Physics/Mathematics, and PASS SPM or equivalent
- Canadian Grade 12 – CPU/CIMP - Minimum average of 60% in SIX subjects inclusive of Chemistry, Biology, Physics/Mathematics, and PASS SPM or equivalent
- International Baccalaureate – Minimum score of 26/42 from SIX subjects inclusive of Chemistry, Biology, Physics/Mathematics, and PASS SPM or equivalent
- Diploma/Advanced Diploma – Minimum CGPA of 2.0 or equivalent
- Other qualifications will be accessed on case-by-case basis.

*Additional Requirement: FIVE Cs in SPM or equivalent; THREE Cs of which must be in Biology/Physics/Maths/Chemistry/English

ENGLISH LANGUAGE REQUIREMENTS:

For Local Students

English language competency requirements are as follows: Minimum grade of B+ in SPM English language; or minimum grade of C in SPM English language 1119/O-Level English/IGCSE; or minimum grade of A2 in UEC English language; or minimum Band 3 in MUET.

In the event that the English language requirements are not met, applicants will be required to take the Basic English and English Foundation for in-session academic enhancement concurrently with the programme.

For International Students

English language competency requirements are as follows: minimum Band 3 in MUET; or minimum score of 5.0 in IELTS; or minimum score of 42 in TOEFL iBT; or minimum score of 47 in Pearson Test of English; or minimum score of 154 in Cambridge English Qualifications and Tests; or minimum score of 154 in Cambridge Linguaskill.

International applicants who do not meet the respective academic programme's English Language Requirement will need to improve their proficiency by enrolling into the English for Tertiary Education programme (R/KJP/00920-00929). Placement into the various levels of the English for Tertiary Education programme depends on the English Language qualification students have at the point of admission and/or the outcome of the English Placement Test.

CAREER OPPORTUNITIES

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| • Science officer | • Academician/Environment Manager | • Water authorities |
| • Research officer | • R&D Scientist | • Environmental management |
| • Quality Control Officer | • Clinical trials coordinator | • Biomedical personnel |
| • Laboratory Executive/Quality Controller | • Biomedical product marketing | • Biotechnologist |
| • Food manufacturer | • Drug discovery and development | • Science journalist |
| • Healthcare Personnel | | • Process control specialist |

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