

## International

### Academic Requirement:

- i) Completed 12 years of Primary and High School Education and
- ii) Obtained High School Certificate (eg. A-Level, HSC, SMU & Matayom Suksa 6 (Thailand), International Baccalaureate etc.) **OR**
- iii) Diploma in the related field

### English Requirement:

- I) IELTS minimum Band 5.0 **or**
- II) TOEFL IBT minimum score of 40 **or**
- III) TOEFL Essentials Online minimum score of 7.5 **or**
- IV) Cambridge English: Advanced (CAE) minimum score of 154 **or**
- v) Cambridge English: Proficiency (CPE) minimum score of 154 **or**
- vi) Cambridge English: Linguaskill Online minimum score of 154 **or**
- vii) PTE Academic / PTE Academic (Online) minimum score of 47 **or**
- viii) Malaysian University English Test minimum Band 3.5 **or**
- ix) ELS Certified Intensive English Programme Level (CIEP Level) minimum score of 107 **or**
- x) Candidates from countries where English is the official language **or**
- xi) Candidate from an Institution in which the medium instruction is English; **and**
- xii) Passed with Credit in Intensive Preparatory Bahasa Malaysia Programme (for candidates pursuing programmes conducted in the National Language)  
<http://www.ppblt.usm.my/index.php/program/language-courses/malay-language>  
You are recommended to enrol in USM Intensive English Programme as preparation course before IELTS examination. For more information, kindly visit :  
<https://ppblt.usm.my/index.php/program/intensive-english>

University Requirement:  
Passed the USM Interview

All applications can only be made through online via UPU online (STPM/and its equivalent) [upu.mohe.gov.my](http://upu.mohe.gov.my) or [pohon.usm.my](http://pohon.usm.my) (International/USM+1)

## CAREER PROSPECTS

- Graduates can expect to have careers as science or research officers at research institutes, institutions of higher education, and public/private medical diagnostic laboratories.
- Graduates may also work as production and administrative officers in related industries including quality control officers, sales personnel and advisors in the pharmaceutical, food and beverage industries, suppliers of medical products and instrumentations as well as environmental officers.
- The academically inclined students can also opt for post-graduate study or join the academic staff training programmes at any of the institutions of higher education.



## FOR MORE INFORMATION PLEASE CONTACT

✉ Academic Office  
School of Health Sciences, Health Campus  
Universiti Sains Malaysia  
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🌐 [health.usm.my](http://health.usm.my) | [upu.mohe.gov.my](http://upu.mohe.gov.my)  
admission.usm.my | [pohon.usm.my](http://pohon.usm.my)



SCHOOL OF HEALTH SCIENCES  
UNIVERSITI SAINS MALAYSIA

# BACHELOR IN BIOMEDICAL SCIENCE WITH HONOURS



## INTRODUCTION

### Biomedical Science Programme

Biomedical Science programme is a multidisciplinary programme which provides students the opportunity to gain experiences and explore areas related to laboratory diagnosis, disease prevention and other biomedical research. The curriculum emphasises on interactive teaching and provides workplace training and cutting-edge projects during the final year. The programme is designed to produce graduates of international standard to meet future needs of the country.



## THE AIMS OF THE PROGRAMME

In line with our School's mission, we aim to:

- Produce intellectual and professional biomedical graduates who possess theoretical knowledge and practical experience required in the field of biomedical science.
- Produce graduates who are responsible and possess high ethical standards.
- Apply biomedical science knowledge for sustainable developmental and social well-being.

## CURRICULUM COMPONENTS

Core courses	Elective Courses
114	7
University Courses	Total Credit Units
15	136

## CORE COURSES

- Structure and Function of Human I
- Fundamental of Health Informatics
- Structure and Function of Human II
- Psychology and Behavioral Science
- Biochemistry and Basic Genetics
- Human Biochemistry
- Laboratory Science
- Basic Microbiology
- Molecular Biology Techniques
- Immunology I
- Pharmacology I
- Basic Hematology
- Pathology
- Immunology II
- Epidemiology
- Cell Biology Techniques
- Ethics and Law for Healthcare Professionals
- Biostatistics
- Research Methodology
- Transfusion Science and Blood Banking
- Laboratory and Clinical Hematology
- Pharmacology II
- Toxicology
- Medical Virology and Mycology
- Medical Bacteriology
- Medical Parasitology
- Clinical Biochemistry
- Clinical Diagnostic Laboratory Management
- Biomedical Practicum
- Research Project
- Industrial Training

## ADMISSION

### Local

- a) KPM Matriculation/Foundation (UM, UKM, UITM)
- i) Passed SPM or its equivalence, **AND**
  - ii) Possessed a pass in Matriculation/Foundation with CGPA not less than 3.00 and
  - iii) Obtained a minimum grade of C+ (CGPA 2.33) in any two subjects (Biology, Physics, Chemistry, Mathematics) **AND**
  - iv) Passed MUET with at least band 3
- b) STPM
- i) Passed SPM or its equivalence, and
  - ii) Possessed a pass in STPM with CGPA not less than 3.00, **AND**
  - iii) Obtained a minimum grade of C+ (CGPA 2.33) in any two subjects (Biology, Physics, Chemistry, Mathematics T), **AND**
  - iv) Passed MUET with at least band 3
- c) Diploma and its equivalent
- i) Diploma in a related field with at least a CGPA of 2.75 **OR**
  - ii) Passed A-Level with a minimum score of 10 and obtained at least Grade C in any two (2) of the following subjects: Biology/Chemistry/Physics/Mathematics **OR**
  - iii) Passed International Baccalaureate (IB) with a minimum score of 24 and at least a score of 4 at the High Level (HL) in any two (2) of the following subjects Biology/Chemistry/Physics/Mathematics **OR**
  - iv) Passed AUSMAT/SAM with a minimum aggregate of 45 and obtain at least Grade C in any two (2) of the following subjects: Biology/Chemistry/Physics/Mathematics **OR**
  - v) Other qualifications recognized as equivalent and certified by the USM Senate **AND**
  - vi) Obtained least Level 3 (Band 3) in MUET or equivalent.