

## BACHELOR OF BIOMEDICAL SCIENCE (HONS)

(R2/720/6/0122) | (A10078)

In a current world new strains of diseases emerge, causing a negative impact on the wellbeing of our communities, biomedical science will provide us an important ways to prevent and treat the wide range of diseases that affect our communities. This programme aims to produce graduates who have a good foundation and experience in the field of Biomedical Science allowing them to do scientific work and research in the field of human health and disease. In addition to proficiency in medical laboratory procedures and operation techniques, a Biomedical Science graduate can also manage diagnostic, business and industrial laboratories.

### DURATION OF STUDY

4 years

### MODE OF STUDY

Full Time

### CAREER PROSPECT

- Biomedical / Healthcare Scientist
- Academician
- Research scientist (medical)
- Health Policy Professional
- Marketing of medical equipment
- Medical science liaison
- Application specialist
- Medical underwriter & claim officer
- Quality Control Officer
- Bio-entrepreneur

### ENTRY REQUIREMENTS

- i). Obtained MUET Band 3 or IELTS 5.5/Equivalent **AND**
  - a). PASS Matriculation/Pre-University/STPM programme or equivalent qualification with minimum **GPA 2.33** in TWO of the following subjects:
    - Biology
    - Physics/Mathematics
    - Chemistry
  - OR**
  - b). A-Level programme or equivalent qualification with minimum **Grade D** in TWO of the following subjects:
    - Biology
    - Physics/Mathematics
    - Chemistry
  - OR**
  - c). Recognised Diploma with minimum CGPA of 2.75 in related field;
  - OR**
  - d). Recognised Diploma with CGPA less than 2.75 in related field and a minimum of 3 years (36 months) working experience in the related field

#### English proficiency for foreign student

Candidate should obtain IELTS (5.5)/TOEFL (550) paper-based or equivalent.



### PROGRAMME STRUCTURE

#### YEAR 1

- Laboratory Techniques and Instrumentation
- Laboratory and Solid Waste Management
- Basic Hematology
- Anatomy and Physiology I
- Organic Chemistry
- Basic Microbiology
- English for Academic Enrichment
- Histocytopathology
- Occupational Health and Safety
- Anatomy and Physiology II
- Basic Pathology
- Biochemistry and Basic Genetic
- Hubungan Etnik
- Tamadun Islam & Tamadun Asia (TITAS)

#### YEAR 2

- Ethics in Science
- Clinical Microbiology
- Immunology and Serology
- Blood Banking and Transfusion Science
- Health Informatics\*
- Malaysian Government and Public policy
- Molecular Biology
- Medical Biochemistry
- Medical Parasitology & Entomology
- Epidemiology
- Biostatistics
- Leadership and development

#### YEAR 3

- Clinical Pathology
- Research Methodology
- Critical Thinking
- Pharmacology & Toxicology
- AMUnited 2
- Complementary medicine/ Medical tourism\*
- Biomedical Diagnostic I
- Research Project I
- Healthcare Disaster Management
- Psychology and Behavioral Science
- Pathophysiology
- Career in Health Sciences /Strategic Planning and Marketing in Healthcare Services

#### YEAR 4

- Biomedical Diagnostic II
- Research Project II
- Health insurance/Entrepreneur marketing\*
- Industrial Training I
- Industrial Training II
- Industrial Training III

### Why Study Biomedical Science at AMU?



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