



FOUNDATION IN SCIENCE

[R/010/3/0391] 12/25 [MQA/FA8153]

DURATION	INTAKE	MEDIUM OF INSTRUCTION
1 year (3 semesters)	April / August	English

Science and technology are at the forefront of driving the progress and development as well as the competitiveness of a country. Appropriately and adequately trained manpower in the fields of science and technology is required to implement nation-building and economic development projects in addition to spearheading research and development activities that may lead to technological innovation. To meet the growing demand for skilled workforce in the areas of science and technology, the young generation must take up the mantle of becoming the torchbearer for the acquisition of knowledge and skills in those fields.

At Xiamen University Malaysia Campus (XMUM), we are committed to attracting young people to science and technology by offering them an alternative route to undergraduate studies via a pre-university study programme in general science. The XMUM Foundation in Science programme is designed to cater to the special interests and academic inclinations of students particularly in the fields of marine science, traditional Chinese medicine, energy science, and information and communication technology. Upon the successful completion of the foundation programme, students will progress to the designated undergraduate programmes at XMUM.

HIGHLIGHTS OF THE XMUM FOUNDATION IN SCIENCE PROGRAMME

- Recognition as an entry qualification for undergraduate studies at XMUM
- Lessons conducted by well-qualified and experienced academic staff
- Opportunities to interact and network with students from diverse nationalities and cultural backgrounds
- Access to world-class learning and teaching facilities and infrastructure

ENTRY REQUIREMENTS

Academic track: Biological Science

A pass in SPM/SPMV with at least a credit or Grade C in 5 subjects including Mathematics and 2 science subjects, and a pass in Bahasa Melayu and English or other equivalent qualifications; or

A pass in O-Level with at least a credit or Grade C in 5 subjects including Mathematics and 2 science subjects, and a pass in English or other equivalent qualifications; or

A pass in UEC with at least a Grade B in Mathematics and 2 science subjects, and a pass in Bahasa Melayu and English or other equivalent qualifications.

Academic track: Physical Science

A pass in SPM/SPMV with at least a credit or Grade C in 5 subjects including Mathematics, Additional Mathematics and 1 physical science subject, and a pass in Bahasa Melayu and English or other equivalent qualifications; or

A pass in O-Level with at least a credit or Grade C in 5 subjects including Mathematics, Additional Mathematics and 1 physical science subject, and a pass in English or other equivalent qualifications; or

A pass in UEC with at least a Grade B in Mathematics, Advanced Mathematics and 1 physical science subject, and a pass in Bahasa Melayu and English or other equivalent qualifications.

Note: Physical science subjects are Chemistry and Physics

ACADEMIC PATHWAYS

SPM / SPMV / O-LEVEL / UEC

FOUNDATION IN SCIENCE AT XMUM (1 YEAR)

ACADEMIC TRACK:

Biological Science

ACADEMIC TRACK:

Physical Science

UNDERGRADUATE PROGRAMMES OFFERED BY XMUM

(4 years) Bachelor of Science in Marine Biotechnology
(4 years) Bachelor of Science in Marine Environmental Chemistry
(5 years) Bachelor of Medicine in Traditional Chinese Medicine

(4 years) Bachelor of Engineering in Computer Science and Technology
(4 years) Bachelor of Engineering in Software Engineering
(4 years) Bachelor of Engineering in Digital Media Technology

(4 years) Bachelor of Science in Physics
(4 years) Bachelor of Engineering in Artificial Intelligence
(4 years) Bachelor of Engineering in Data Science (Honours)
(4 years) Bachelor of Engineering in Cyber Security (Honours)

(4 years) Bachelor of Engineering in New Energy Science and Engineering
(4 years) Bachelor of Chemical Engineering with Honours
(4 years) Bachelor of Engineering in Electrical and Electronics Engineering
(3 years) Bachelor of Science in Mathematics and Applied Mathematics

PROGRAMME STRUCTURE

Biological Science

Compulsory Courses

English for Academic Purposes I

English for Academic Purposes II

Presentation Skills

Critical and Analytical Thinking Skills

Core Courses

Ethics and Science

Science Communication

Mathematics

Statistics

Biology I

Biology II

Chemistry I

Chemistry II

Physics I

Physics II

Physical Science

Compulsory Courses

English for Academic Purposes I

English for Academic Purposes II

Presentation Skills

Critical and Analytical Thinking Skills

Core Courses

Ethics and Science

Science Communication

Mathematics

Statistics

Chemistry I

Chemistry II

Physics I

Physics II

Computer Science

Advanced Mathematics

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The information in this brochure is correct at the time of publication. Xiamen University Malaysia (XMUM) reserves the right to change the information in line with updates from time to time. Please check the website (www.xmu.edu.my) for latest information.

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