



BACHELOR OF SCIENCE IN MARINE BIOTECHNOLOGY (HONOURS)

KPT/JPS [N/545/6/0072] 03/21 [MQA/PA5672]

DURATION

4 years

INTAKE

February / April / September

MEDIUM OF INSTRUCTION

English

ABOUT THE PROGRAMME

Xiamen University (XMU) started marine studies almost 100 years ago and is recognized as the cradle of China's marine studies. Its Department of Oceanography, established in 1946, is the first of its kind in China, while its College of Ocean and Earth Sciences has developed into one of China's best marine research institutions with a state key discipline - marine science, and has a faculty that includes an academican of the Chinese Academy of Sciences and a number of experts involved in "Thousand Talents Plan", China's Recruitment Programme of Global Experts. The College boasts excellent research platforms, such as the State Key Laboratory of Marine Environmental Science, outstanding educational centers, such as National Experimental Center for Education, as well as an advanced general-purpose research vessel equipped with state-of-the-art scientific instruments, which is set to be at sea in 2016 and would serve the interdisciplinary oceanographic cruises conducted in international waters.

In addition to the strong support from XMU, the Marine Biotechnology programme at Xiamen University Malaysia (XMUM) will also benefit from the intensive research activities to be conducted at the China-ASEAN Institute of Marine Science and Technology, a research institute based at XMUM and supported by the China-ASEAN Maritime Cooperation Fund.

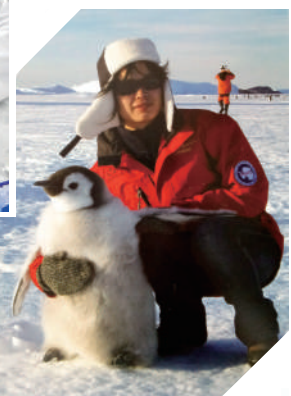
Our programme at XMUM equips graduates with the necessary knowledge and skills to manage the capitalization of aquatic resources through ecologically-friendly methods of aquaculture production, as well as to conduct research on marine biological resources, fisheries, and aquaculture techniques. Graduates are also trained to be conscious of current environmental issues and broadly-defined marine biotechnology problems. Those who would like to pursue further study in this area can apply for postgraduate programmes at XMU.

PROGRAMME HIGHLIGHTS

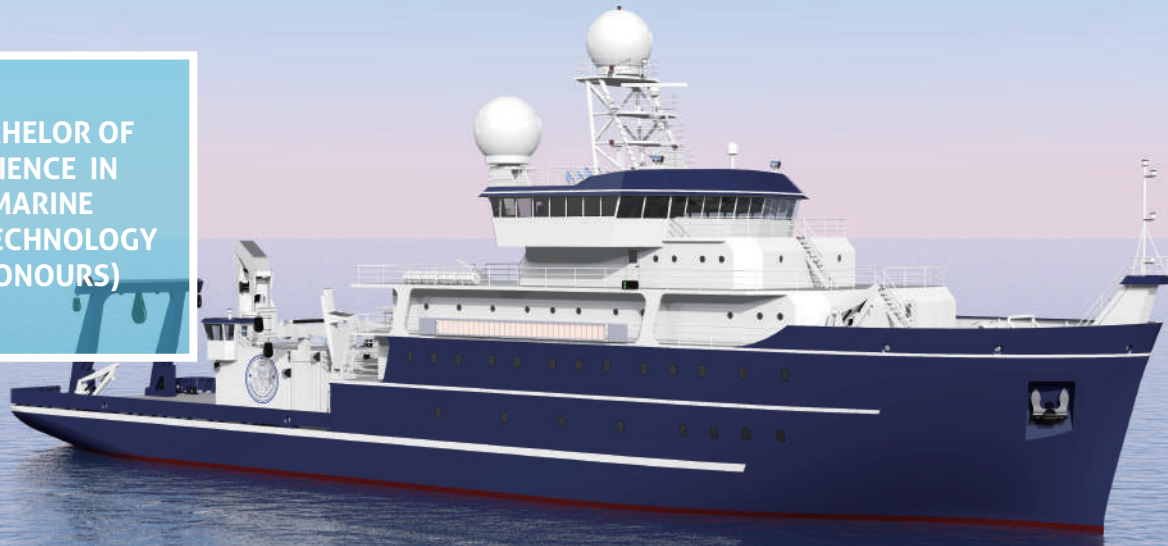
- Excellent educational resources from one of the most highly-respected and longest-established institutions in China for marine studies
- Opportunities to join the intensive research activities conducted by the campus-based China-ASEAN Institute of Marine Science and Technology
- An exciting environment with outstanding teaching and research facilities, integrating practical training with theoretical learning

CAREER OPPORTUNITIES

- Universities and other educational institutions
- Government agencies and NGOs at local, national, or international levels
- Companies in the areas of
 - Natural resources management
 - Environmental consulting
 - Marine biology science
 - Aquaculture
 - Bio-farming, etc.



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ENTRY REQUIREMENTS

**For other equivalent qualifications, please consult our programme counsellor.*

STPM	A pass in STPM with at least a Grade C (GP2.0) in any 2 subjects AND a pass in SPM with 3 credits including Mathematics, 1 science subject and 1 other subject, or its equivalent.
A-level	A pass in A-Level with at least a Grade C in any 2 subjects AND a pass in SPM with 3 credits including Mathematics, 1 science subject and 1 other subject, or its equivalent.
UEC	A pass in UEC with at least a Grade B in 5 subjects AND a pass in SPM with 3 credits including Mathematics, 1 science subject and 1 other subject, or its equivalent.
Foundation/Matriculation (Science/in a relevant field)	A pass in Foundation /Matriculation with at least CGPA 2.0 out of 4.0 AND a pass in SPM with 3 credits including Mathematics, 1 science subject and 1 other subject, or its equivalent.
Diploma (In a relevant field)	A pass in Diploma with at least CGPA 2.0 out of 4.0

Note: The credit requirement at SPM level can be waived should the grades obtained at the STPM/STAM/Diploma/Matriculation/Foundation level are equivalent/higher.

MAIN COURSES

Introduction to Marine Science

Marine Phycology

Descriptive Oceanography

Marine Ecology

Marine Ecology Laboratory

Mariculture Water Chemistry

Integrated Coastal Zone Management (ICZM)

Fish Resources and Fishery

Organic Chemistry

Organic Chemistry Laboratory

Capstone Experience in Marine Biotechnology

Senior Capstone Seminar

Marine Animal Physiology

Biochemistry and Molecular Biology

Biochemistry and Molecular Biology Laboratory

Genetics

Marine Microbiology

Marine Microbiology Laboratory

Field Experience in Marine Sciences (MBB)

Aquatic Food Processing

Marine Biological Resources and Utilization

Mariculture

Mariculture Laboratory

Aquatic Animal Nutrition and Formula Food

Basic Immunology of Aquatic Animals

Aquatic Animal Diseases and Prevention

Marine Natural Product and Drug

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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.

May 2019