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入學章程 Admission Guideline

詳情請到研究生院網站了解:

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澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



科技學院
Faculdade de Ciências e Tecnologia
Faculty of Science and Technology



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澳門大學
UNIVERSIDADE DE MACAU
UNIVERSITY OF MACAU



科技學院
Faculdade de Ciências e Tecnologia
Faculty of Science and Technology

澳門大學科技學院 理學碩士學位 - 海岸帶環境與安全

Master of Science in
Coastal Environment and Safety



澳門首個海岸帶環境碩士

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課程目標 Programme Aims

課程旨在培養學生從事專門技術工作的能力，學習海岸帶環境保護的原理和技術，以及用於應對威脅海岸帶災害時使用的模擬和評估技術，並同時兼顧培養學生的科研能力，以實現學生的個性化發展。本課程的科目設置涵蓋了多個海洋研究方向，例如“海岸帶流體力學與風暴潮”為物理海洋研究方向、“海洋生態學”及“泥沙運動與侵蝕”為海岸工程研究方向、“沿海污染：污染物的來源、歸趨和影響”為海洋環境科學研究方向。本課程亦將透過項目或實習的學習模式，加強海岸帶環境保護及災害模擬與評估的知識和技能，以培養學生成為相關領域的人才。

The programme aims to cultivate students with skills to work in specialized technical fields, to learn the principles and techniques of coastal environmental protection, as well as simulation and assessment techniques for threatening coastal hazards. Simultaneously, the programme will also provide training for students on their research skills, so as to serve students with various development path. The curriculum of this programme is designed to cover a variety of marine research areas, which include the courses “Coastal Fluid Mechanics and Storm Surge” for the research area of Physical Ocean, “Marine Ecology” and “Sediment Transport and Erosion” for the research area of Coastal Engineering, “Coastal Pollution: Sources, Fate and Effects of Pollutants” for the research area of Coastal Environment Science. The aim of this programme is to strengthen students with the knowledge and skills of coastal zone environmental protection and disaster simulation and assessment through projects or internships, and to cultivate talents in related fields.

課程架構 Programme Curriculum

1. 開辦學年：2023/2024
2. 修讀學分：30學分
3. 修讀年期：2年
4. 教學語言：英語
5. 畢業要求：學生必須完成修讀所要求的學科

1. Programme to be offered in academic year: 2023/2024
2. Total Programme Credits: 30
3. Duration of Study: 2 years
4. Medium of Instruction: English
5. Graduation Requirements: Students must complete the required courses.

申請及學費 Application & Tuition Fee

申請人可透過澳門大學研究生院網站或掃描以下二維碼提交申請：
<https://grs.um.edu.mo/>

Prospective applicant can submit applications through the website of the Graduate School of the University of Macau or by scanning the QR code below:



碩士課程最新學費：
<https://grs.um.edu.mo/index.php/current-students/tuition-fee/>

The latest tuition fees for master programmes:
<https://grs.um.edu.mo/index.php/current-students/tuition-fee/>



入學資格 Admission Requirements

1. 須具有學士學位或澳大認可的同等學歷；
2. 申請人學士學位畢業總平均分達到相等於C+或以上成績；
*相等於4分制GPA之2.3分，20分制之14分或100分制之70分；
3. 申請人必需符合澳大之基本入學英語水平。

1. Applicants must possess a Bachelor's degree or academic background recognized as equivalent by the University of Macau;
2. Applicants should have achieved the equivalent* of an overall result of Grade C+ or better in the Bachelor's degree studies. * The equivalent means 2.3 on the 4.0 GPA scale, 14 on the 20-point scale or 70 out of 100;
3. Applicants must also meet the English proficiency requirement of the University.

必修及選修科目 Compulsory and Elective Courses

學生可透過以下任一方式完成修讀課程取得 30學分：

1. 表一的三門必修科目（佔9學分）、表二的五門選修科目（15學分），以及表三的“項目報告”（6學分）；
2. 表一的三門必修科目（佔9學分）、表二的六門選修科目（18學分），以及表三的“實習及報告”（3學分）

Student is required to obtain 30 credits by either of the following method:

1. 3 compulsory courses from Table 1 to obtain 9 credits, 5 required elective courses from Table 2 to obtain 15 credits, and “Project Report” from Table 3 to obtain 6 credits, or
2. 3 compulsory courses from Table 1 to obtain 9 credits, 6 required elective courses from Table 2 to obtain 18 credits, and “Internship and Report” from Table 3 to obtain 3 credits.

表一 Table 1

Courses 學科單元/科目	Type 種類	Credits 學分
Introduction to Oceanography 海洋學導論	Compulsory 必修科	3
Hydrodynamics and Floods 水動力學與洪水		3
Coastal Water and Wastewater Treatment Principles and Processes 沿海地區水處理原理與技術		3

表二 Table 2

Courses	Type	Credits
Marine Ecology 海洋生態學	Required Elective 選修科	3
Aquatic Chemistry 水化學		3
Atmospheric Chemistry 大氣化學		3
Coastal Pollution: Sources, Fate and Effects of Pollutants 沿海污染：污染物的來源、歸趨和影響		3
Special Topics in Hazard Alleviation 減災專題		3
Special Topics in Coastal Environment 海岸帶環境專題		3
Landslides Mechanisms, Mitigation and Risk Assessment 滑坡災害機理、防治與風險評價		3
Advanced Computational Methods: Principles and Applications 高級計算方法：原理與應用		3
Coastal Fluid Mechanics and Storm Surge 海岸帶流體力學與風暴潮		3
Sediment Transport and Erosion 泥沙運動與侵蝕		3

表三 Table 3

Courses	Type	Credits
Project Report 項目報告	Required Elective 選修科	6
Internship and Report 實習及報告		3