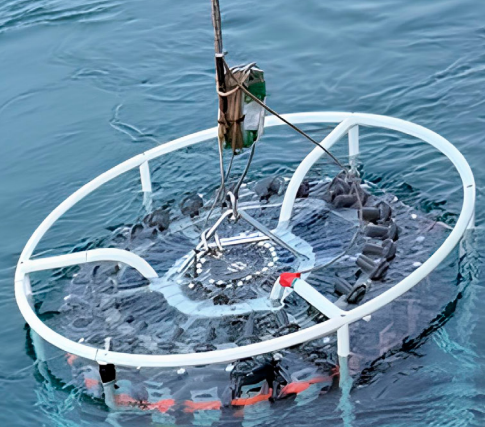




SORBONNE
UNIVERSITY
ABU DHABI



Bachelor in **COASTAL AND OCEANOGRAPHIC APPLIED SCIENCES AND TECHNOLOGIES (COAST)**

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Overview

Shape the future of our oceans and coastlines.

The Bachelor in Coastal and Oceanographic Applied Sciences and Technologies (COAST) is designed for students passionate about environmental sustainability, marine systems, and technological innovation. With a strong emphasis on practical learning, fieldwork, and industry collaboration, the programme prepares you to tackle real-world environmental challenges and contribute to global sustainability goals.

The Bachelor in COAST offers a rigorous and forward-looking education for students driven to understand and protect marine and coastal environments. Blending scientific depth with advanced technology, the programme equips students to analyse environmental systems and develop sustainable solutions.

Key areas include:

- Climate change and coastal resilience
- Marine ecosystems and environmental dynamics
- Coastal planning and sustainable development
- GIS, remote sensing, and spatial technologies
- Marine resources and the blue economy



What makes this programme unique?

An interdisciplinary approach beyond traditional programmes

A pioneering degree in the UAE. Unlike traditional programmes that focus on a single discipline (e.g., biology or engineering), COAST offers a holistic, interdisciplinary approach combining environmental science, technology, and spatial analysis.

Hands-on learning and technical skill development

Advanced training in GIS, remote sensing, and data analytics. Students will engage in hands-on laboratory work, GIS mapping, remote sensing, and data analysis, along with field-based projects and a professional internship.

Future-focused academic and career pathways

Pathway to global careers and postgraduate study. It directly supports national priorities such as sustainability, climate resilience, and blue economy development, preparing graduates for key roles in the region.

Global exposure and research opportunities

International internships and collaborations. Students may access international internships and research exposure, particularly through partnerships with leading marine science institutions.

Real-world integration and employability

Strong industry and government partnerships. The programme collaborates with government entities, environmental agencies, and industry leaders, ensuring real-world relevance and strong employability outcomes.



Programme *highlights*

- One of the first specialised marine and coastal science programmes in the UAE
- Integration of AI, data science, and advanced technologies in marine applications
- Access to international internships, including opportunities in leading marine research institutes in Europe
- Pathway to postgraduate studies and international research careers
- Strong focus on climate change, sustainability, and blue economy sectors
- Strategic partnerships with key UAE entities for real-world projects and internships
- Interdisciplinary curriculum combining geography, oceanography, geomatics, and environmental sciences
- Preparation for high-demand careers in marine renewable energy, coastal planning, and environmental management
- Hands-on learning through GIS, remote sensing, modelling, and laboratory work



Programme structure

Computer Laboratory Sessions

Students develop hands-on expertise in fully equipped IT laboratories, using industry-standard tools such as ArcGIS Pro, ENVI, Adobe Illustrator and Stata. Through applied sessions in GIS, remote sensing, cartography, geomatics and statistical analysis, they build strong technical skills for geospatial analysis, environmental modelling and real-world problem solving.

Field Trips

One-day field trips are embedded across the curriculum to connect theory with practice. By exploring issues such as coastal management, climate change, marine resources and urban development, students gain first-hand experience, strengthen their analytical thinking and develop a deeper understanding of today's socio-environmental challenges.

Guided Research Project

The programme concludes with a supervised research project or internship, allowing students to apply their knowledge to a real academic or professional challenge. Through a written report and oral presentation, students demonstrate their ability to design, conduct and communicate research to a professional standard.

Internship

Professional development is embedded in the final year with a mandatory internship in the UAE or abroad. This placement provides valuable hands-on experience, enabling students to apply their learning in real-world settings while building professional networks and practical skills that support future career paths.





Course list by semester



Semester 1

Course name

Marine and Coastal Environmental Systems

- Coastal and Marine Ecosystems
- Coastal Landforms and Processes

Coastal Management

- Metropolisation of Coastal Zones
- Integrated Coastal Zone Management and Planning

Practical Skills

- Introduction to GIS and Remote Sensing

Language

- French Language

Semester 2

Course name

Marine and Coastal Environmental Parameters

- Marine Hydrology
- Coastal Biogeography

Infrastructures, Transportation, and Logistics

- Port Infrastructures and Management
- Marine Transportation and Logistics

Analytical Skills

- Statistical Applications in Marine Sciences

Language

- French Language

Semester 3

Course name

Marine and Coastal Environmental Dynamics

- Marine Geology
- Ocean and Climate Change

Sustainable Development

- Adaptation and Climate Change in Coastal Zones
- Blue Marine Economy

Geographic Information System

- Mapping the Coastal and Marine Environment Using GIS

Language

- French Language

Semester 4

Course name

Coastal Environmental Dynamics

- Coastal Dynamics and Sediment Transportation
- Watershed to Coastal Zone

Energy Transition and Resources Management

- Energy Transition and Water Management
- Marine Resources Management

Marine and Coastal Monitoring

- Monitoring the Coastal and Marine Environment

Language

- French Language

Semester 5

Course name

Ocean in Climate Change

- Climate and Sea Level Change
- Marine Biology and Biodiversity

Coastal Development

- Coastal Urban Planning
- Coastal and Marine Tourism

GIS and Ocean Monitoring

- Ocean Observatory and Early Warning System

Language

- French Language

Semester 6

Course name

Environmental Sustainability

- Coastal Risk Management
- Marine and Protected Areas Conservation

Maritime Governance

- Geopolitics and Maritime Security
- Environmental Politics and Policy

Professional Skills

- Coastal and Marine Project in Overseas Coastal Area
- Internship

Language

- French Language

Assessment & graduation requirements

Course sessions are primarily assessed through in-class individual and group assignments, including presentations, case study analyses and group exercises. Attendance at all classes is mandatory, and students are expected to be punctual and adhere to university regulations at all times.



Career prospects

- Career opportunities in marine and coastal sciences, environmental consultancy, GIS / remote sensing, renewable energy, sustainable tourism, coastal planning and public policy.
- Graduates can work as environmental consultants, marine resource managers, coastal risk analysts, ocean data scientists, GIS specialists, ecotourism managers or policy advisers.
- Employment prospects include government agencies, research institutions, NGOs and private-sector companies involved in sustainability, coastal development and environmental management.
- The programme benefits from strong academic and industry links, offering students access to research projects, fieldwork, internships and professional opportunities in the UAE and internationally.

Career Centre support

SUAD's Career Centre supports students throughout their programme offering one-on-one career advising, CV / cover letter clinics, internship placement assistance, and employer connections through the JobTeaser online platform.

What can I do with a major in Coastal and Oceanographic Applied Sciences and Technologies?

Graduates of the COAST programme are equipped for diverse and impactful careers. Opportunities exist across **government agencies, environmental organisations, research institutions, and private industry**, both regionally and internationally.

Example roles

- Marine Resource Manager
- Environmental Consultant
- Oceanographer
- Coastal Urban Planner
- GIS and Remote Sensing Analyst
- Marine Renewable Energy Specialist
- Ecotourism Manager
- Climate and Coastal Risk Analyst
- Policy Adviser in Environmental and Marine Sectors
- International Organisations Officer (UN, UNESCO, UNICEF, UNDP)

Further Study Options

Graduates from the COAST programme can pursue advanced degrees at both Sorbonne University Abu Dhabi and internationally.

- **Master's-level pathways:** Graduates will be well prepared to pursue Master's programmes in marine sciences, oceanography, coastal management, marine biodiversity, geomatics, remote sensing, climate studies, the blue economy, and sustainable development.
- **International opportunities:** The programme opens pathways to leading universities and research centres worldwide, including Sorbonne Université, the Ocean Institute, KAUST, Wageningen, UCL, Southampton, and specialised European Master's programmes.
- **Research and doctoral prospects:** Through research projects, internships, and academic partnerships, students will gain the academic foundations and practical experience needed to progress towards doctoral studies in marine sciences, climate change, coastal risk, conservation, and sustainable ecosystem management.





Admission prospects

Admission to the Bachelor in COAST is designed for each applicant to be assessed on academic merit and potential for success in the programme.

General application requirements

- Minimum average of 12 out of 20 for French General Baccalaureate or equivalent for the francophone curriculum.
- **UAE Ministry of Education curriculum:**
 - General stream: Minimum average of 80%
 - Advanced stream: Minimum average of 75%
- **British curriculum:** A minimum of five "O" levels combined with 1 "A" level and 1 "AS" or combined with 3 "AS" levels. A minimum grade of "C" is required in all subjects. Depending on the Bachelor, Mathematics is required in both "O" and "AS" levels.
- **International baccalaureate:** A minimum of 28 out of 42 points in six subjects, with a minimum score of 4 out of 7 in each subject. Three of those subjects must be higher-level courses (HL).
- **SABIS:** A minimum average of 70%.
- **American high-school diploma:** A minimum average of 80% or a minimum GPA of 2.8 out of 4.0
- **Other high school systems:** High school certificate equivalent to the UAE Ministry of Education high school, with a minimum average of 80% or equivalent.
- All students must have completed 12 years of school at the time of graduation.

Minimum proficiency requirements

- Successfully passing the COAST entry test
- or Successfully passing the Foundation Year in Sciences or in COAST
- Students enrolled in the Foundation Year in Sciences, Records Management, or FLE who have completed at least two semesters without validating the Foundation Year may be eligible for direct entry into L1, provided they have achieved an average between 8.00 and 9.99 and have passed the COAST entry test.
- Students enrolled in Foundation Year in COAST who did not validate the Foundation Year, are not eligible to take the COAST entry test.

English language proficiency:

- **Ministry of Education curriculum:** Minimum score of 80% in English subject in high school
- **For curricula studied in English Language:** No English requirement needed
- **For other curricula:** Valid academic IELTS certificate with minimum overall band of 5.5 with a validity of 2 years or TOEFL score of 530, IBT TOEFL certificate with minimum score of 71, CBT TOEFL of 197 with a validity of 2 years or equivalent.

Other education systems:

Conditions apply to other foreign curricula in accordance with the admission policy set by Sorbonne University Abu Dhabi. Contact Student Recruitment at: admissions@sorbonne.ae for more details.

Equal opportunity:

Sorbonne University Abu Dhabi welcomes applications from students of all nationalities and backgrounds, regardless of country of origin, income, gender, religion, or physical condition.

Tuition Fees

TBC

Up to 100% scholarship available for this programme!**

To learn more

Click:

<https://www.sorbonne.ae/fees-and-scholarships/scholarships/>

or Scan:



**Terms and Conditions apply

Why Sorbonne University Abu Dhabi?

In today's fast-paced and globalised world, education and communication play a pivotal role in shaping progressive and dynamic societies. The French education system is renowned for cultivating rigorous inquiry and, debate skills – essential qualities for developing future innovators and leaders.

Sorbonne University Abu Dhabi is a globally recognised institution that bridges civilisations, offering a multicultural environment that fosters tolerance, curiosity, harmony, and cultural awareness - vital qualities for success in the modern economy. Students benefit from internationally acclaimed faculty, state-of-the-art facilities, and globally recognised degrees, all of which equip them with the tools necessary for a successful and impactful career.

This degree is awarded by Sorbonne Université and accredited by the French Ministry of Higher Education, Research and Innovation. Furthermore, this programme is accredited by the Commission for Academic Accreditation (CAA).





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