WORLD MARITIME UNIVERSITY

ENTRY 2026

MSc AND PhD IN MARITIME AFFAIRS

ACADEMIC HANDBOOK

CONTENTS

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WMU'S VISION IS TO INSPIRE LEADERSHIP AND INNOVATION FOR A SUSTAINABLE MARITIME AND OCEANS FUTURE.

WMU's Mission is to be the world centre of excellence in postgraduate maritime and oceans education, professional training and research, while building global capacity and promoting sustainable development.

The World Maritime University has adopted an equal opportunities policy and positively welcomes applications from women, who are currently under-represented in the field of maritime and ocean studies and employment.

The MSc in Maritime Affairs and the PhD in Maritime Affairs are accredited by the Government of Sweden, following assessment by the Swedish Higher Education Authority (UKÄ).

The University's official name in Swedish is Världssjöfartsuniversitetet. The degree certificates, diploma supplements and transcripts issued by WMU for the Malmö-based MSc (magisterexamen) and the PhD (doktorsexamen) must by law carry the name in Swedish of the University and the qualification awarded. The Swedish is followed by the English on each item of documentation.

The degrees are also accredited by ZEvA (Zentrale Evaluations- und Akkreditierungsagentur Hannover/ Central Evaluation and Accreditation Agency Hanover, Germany).

The World Maritime University is a member of:

- the European University Association (EUA)
- the International Association of Universities (IAU)
- the International Association of Maritime Universities (IAMU)

WMU has been recognized, with Yellow Ribbon status, by the US Department of Veterans' Affairs for study at both MSc and PhD level.

The World Maritime University is committed to a policy of quality in the management, control and delivery of its higher education, research and support systems.

The information in this publication is correct as at 31 July 2025, but developments may cause our study programmes and student amenities to change at any time without notice. The Academic Handbook forms no part of any contract between the University and any person.

WELCOME TO WMU

STUDYING AT WMU IS MORE THAN AN EDUCATIONAL ENDEAVOUR; IT IS A TRANSFORMATIVE JOURNEY.

The World Maritime University (WMU) is a small and selective academic institution in its fifth decade of service to the global community. Since its establishment in 1983 by the International Maritime Organization (IMO), the University has grown in size and impact at a phenomenal rate. I welcome you to browse through this Academic Handbook and encourage you to enrol in one of the degree programmes in our portfolio of postgraduate studies.

WMU serves as the IMO's centre of excellence for postgraduate and professional maritime and oceans education, training, and research. It supports the IMO's objective of facilitating the implementation of the highest practicable standards to promote safe, secure, and efficient shipping on clean oceans, while developing global capacity and promoting sustainable development.

Studying at WMU changes people. This is not just my opinion – every year, we ask the most recent graduates for their thoughts on their WMU experience. There are common threads that appear over the years – the forging of firm friendships, gaining access to a top-level network of maritime professionals, newfound respect, and recognition at work. All these experiences are repeated through the generations.

Being a WMU graduate myself, I understand what our alumni say about their experience. WMU offers our students a new way to think about the world and its interconnected nature, while living, studying, travelling, and researching in a community made up of students and staff from, on average, 60 to 70 different countries. This is in addition to the high academic quality of the programme, and the exposure to professional practitioners in the maritime and oceans fields. The academic knowledge and real-life skills you acquire will prepare you for extraordinarily significant roles that deliver far-reaching impact. You will learn how to communicate, how to negotiate and how to achieve common aims in an international community.

To quote just one of our alumni: "studying at WMU is more than an educational endeavour; it is a transformative journey that moulds future leaders of the maritime industry."

On behalf of my colleagues across the University, I extend a very warm welcome to the students who will join us in 2026. You will join the already close to 6,500 graduates, all connected by their WMU experience and values. By taking your place as a member of the WMU family, you will be making your own direct contribution leading to a real and important difference in the world.

I look forward to welcoming you to this unique and fantastic global community of maritime and oceans leaders!

Professor Maximo Q. Mejia Jr.,
President

WHAT IS WMU?

WMU IS A SMALL, SELECTIVE UNIVERSITY, OFFERING ONLY POSTGRADUATE QUALIFICATIONS TO TALENTED STUDENTS FROM AROUND THE WORLD. THE UNIVERSITY WAS FOUNDED IN 1983 BY THE INTERNATIONAL MARITIME ORGANIZATION (IMO), A SPECIALIZED AGENCY OF THE UNITED NATIONS, AS ITS PREMIER CENTRE OF EXCELLENCE FOR MARITIME AND OCEANS POSTGRADUATE EDUCATION, RESEARCH, AND CAPACITY BUILDING.

The University offers unique postgraduate educational programmes, undertakes wide-ranging research in maritime and ocean studies, and continues maritime capacity building in line with the UN Sustainable Development Goals.

WMU'S VISION

To inspire leadership and innovation for a sustainable maritime and oceans future.

WMU'S MISSION

WMU's mission is to be the world centre of excellence in postgraduate maritime and oceans education, professional training and research, while building global capacity and promoting sustainable development.

WMU'S STRATEGIC DIRECTIONS

The University is pursuing four strategic directions, designed to enable WMU to pursue its mission objectives in the years ahead:

1. Educating and Fostering Maritime and Ocean Leaders
2. Enhancing Maritime and Ocean Research
3. Enhancing Strategic Collaboration and Partnerships
4. Strengthening Financial and Institutional Sustainability

OUR PROGRAMMES OF STUDY

One of the reasons for the establishment of the University was to increase the number of highly qualified specialist maritime personnel in all countries across the world, and in particular in developing countries. With such specialists, international maritime Conventions can be implemented for the benefit of the whole global community. Maritime safety can be improved, the ocean environment better protected, and international shipping and ports made more efficient. Specialists in developing countries can make sure that economic growth in the maritime and oceans fields is sustainable, with integrated planning for the oceans allowing each sector to develop in a mutually reinforcing manner.

Beyond these immediate practical aims, the University is a forum for people of many nationalities in both the student body and the faculty to participate in teaching, learning and research. Our goals are to foster tolerance, to encourage international co-operation, to help solve international maritime and oceans challenges, and to co-ordinate action internationally.

WMU educates people to accelerate their own professional achievements, and also for the benefit of their countries. Our students benefit from the postgraduate maritime education we offer. As WMU graduates, they are able to transfer their newly gained expertise to colleagues, helping their countries to achieve the highest practicable standards in maritime and oceans development.

The University is active across a broad spectrum of postgraduate programmes:

Master of Science in Maritime Affairs

The programme offers nine specializations. In Malmö, we offer Maritime Education & Training; Maritime Energy Management; Maritime Law & Policy; Maritime Safety & Environmental Administration; Ocean Sustainability, Governance & Management; Port Management; and Shipping Management & Logistics. This programme is accredited by the Government of Sweden.

Two specializations are offered in China: International Transport & Logistics, delivered in Shanghai, and Maritime Safety & Environmental Management, taught in Dalian. These two specializations are not accredited by the Government of Sweden, as they are taught entirely in China.

The programme educates future maritime and ocean leaders and strengthens the capacity of national administrations in developing countries. It serves the maritime and oceans industries and their value chains, building on IMO's global reach. It is responsive to the real needs of the maritime and oceans sectors, offering an expert balance of academic study and practical experience, and providing a unique insight into the whole range of maritime and oceans endeavours.

Master of Philosophy in International Maritime Law and Ocean Policy

Designed in partnership by IMO's two sister institutions, WMU and the IMO International Maritime Law Institute (IMLI) in Malta, to play a part in ensuring the future sustainability of the world's oceans. The two-year programme is designed to train expert maritime lawyers, immersed in the UN system structure and goals.

Doctor of Philosophy in Maritime Affairs

The PhD programme has seven active areas of research and a growing school of doctoral students. WMU has a strong tradition of interdisciplinary research at the doctoral level, and has won a large number of externally funded projects, often working in collaboration with partners from industry and government. The structure of the PhD programme makes it flexible and responsive to the needs of both full-time students based in Malmö and candidates based mainly at their employing organization. This programme is accredited by the Government of Sweden.

Professional Education Programmes

There are currently four Postgraduate Diploma programmes, one of which may lead on to an LLM degree, which vary in length from 11 to 16 months. These programmes are professionally oriented and provide academic knowledge that can be applied immediately in the participants' professional lives.

Short Courses for Executive & Professional Development

Providing mid-career professional updating on a wide range of topics, and delivered in Malmö, or at a location chosen by the client, short courses offered by WMU (Executive & Professional Development Courses, Education for Professional Excellence, and the Summer Institute) offer participants the opportunity to meet the challenges of a fast-changing industry through deepening and updating their professional knowledge.

WMU'S CORE VALUES

WMU is committed to:

- Academic Excellence: achieving the highest possible standards in teaching, learning and research
- Innovation: developing innovative and interdisciplinary approaches to all areas of activity
- A Caring Community: the creation of a diverse, caring and supportive environment, where every student and member of staff can reach their full potential
- Sustainable Development: providing the research and teaching to give communities around the world the knowledge and skills necessary for sustainable economic development and growth
- Gender Equality: working towards gender equality in every aspect of our activities in support of women in the maritime and oceans sectors around the world
- Leadership: leading global research on the sustainable use of the oceans, seas and marine resources for sustainable development
- A Global Network: enhancing its global network of maritime and oceans expertise, in support of the United Nations' and the International Maritime Organization's mission and goals

WHY CHOOSE WMU?

STUDENTS WHO ENROL AT WMU ARE MAKING AN INFORMED CHOICE ABOUT THE PROGRAMME THAT WILL BEST ENHANCE THEIR CAREERS IN THE YEARS TO COME. THE UNIVERSITY HAS A LARGE NUMBER OF VERY EMINENT GRADUATES, INCLUDING:

- **Mr Kitack Lim, the immediate past Secretary-General of IMO (Class of 1991)**
- **H.E. Dwight C.R. Gardiner OBE, Ambassador Extraordinary and Plenipotentiary, Director/ Registrar General, Antigua and Barbuda Flag Administration (Class of 1990)**
- **Dr Ali Akbar Safaei, Vice-Minister of Roads and Urban Developments, and Managing Director of the Ports and Maritime Organization of Iran (Class of 2003)**
- **HE Dr Azfar Mohamad Mustafar, Ambassador of Malaysia to Singapore (Class of 2001, PhD in 2011)**
- **Dr Farhan Al-Fartoosi, Director General, General Company for Ports of Iraq (Class of 2013)**
- **Mr Manuel Gilberto Hinojosa López, President of the Board of Directors of the National Port Authority of Peru (Class of 1999)**
- **Ms Sonia B. Malaluan, Administrator, Maritime Industry Authority, the Philippines (Class of 1998)**
- **Dr Mohamed Briouig, Directeur de l'Institut Supérieur d'Etudes Maritimes, Morocco (Class of 1997)**
- **Mr Charles Gono, Deputy Commissioner, Liberia Maritime Authority (Class of 1999)**
- **Rear Admiral António Duarte Monteiro, Chief of Staff of the Armed Forces (CEMFA), Cabo Verde (Class of 2006)**
- **Professor Nalaka Jayakody, Vice-Chancellor and CEO of Northshore College of Business & Technology, Sri Lanka (Class of 2001)**
- **Mr Zhang Xiaojie, Director of the Conference Division, IMO (Class of 1999)**
- **Ms Angelica Meza, Head of the International Ship Registry at Direccion General de la Marina Mercante, Honduras (Class of 2019)**
- **Mr Silvester M. Kututa, Chairman of the Kenya Ships Agents Association (Class of 2000)**
- **Commodore Joel Y Abutal, Superintendent of the Philippine Merchant Marine Academy (Class of 2000)**
- **Mr Yusuke Mori, Deputy Executive Director, International Association of Maritime Universities (Class of 2014)**
- **Ms Tsepiso Taoana-Mashiloane, Chief Director: Implementation, M&E (Maritime Safety, Security & Environment), Department of Transport, South Africa (Class of 2014)**
- **Mr Mohamed Malick Salum, Director General, Tanzania Shipping Agencies Corporation (TASAC) (Class of 2019)**
- **Mr Unaite Cesar Paulino Mustafa, General Director of the National Maritime Authority (INAMAR), Mozambique (Class of 2017)**
- **Mr Antoni Arif Priadi, Director General of Sea Transportation, Government of Indonesia (Class of 2006)**
- **Mr Kansualism Berk Kansuah, Director General, Liberia Standards Authority (Class of 2020)**
- **Rear Admiral Y.R. Serasinghe, Director General of the Sri Lanka Coast Guard (Class of 2017)**
- **Atty Jean Pia, Head, Asia and Pacific Section, Subdivision for Maritime Development, of the Technical Cooperation and Implementation Division of IMO (Class of 2003)**
- **John Borland, Chief of Defence Staff, Belize (Class of 2007)**
- **Ms Issa Mwajita, Head, Subdivision for Maritime Development, of the Technical Cooperation and Implementation Division of IMO Africa and Middle East Section (Class of 2016)**
- **Mr Abdallah Hatimy, Managing Director, Kenya National Shipping Line (Class of 2014)**
- **Mr Li Yang, Vice-Minister of Transport of China (Class of 2002)**
- **Mr Mohamed Malick Salum, Director-General, Tanzania Shipping Agencies Corporation (Class of 2019)**
- **Professor Tumaini Gurumo, Rector, Dar-es-Salaam Maritime Institute (Class of 2007)**

In addition, WMU graduates are now serving as the Directors-General of many countries' national maritime administrations and heads of the national Coast Guards. The Philippines, Trinidad and Tobago, Cambodia, Jamaica and Vietnam, for example, are among those governments where WMU's education has played a significant role in the development of their countries' maritime policy.

HERE ARE JUST A FEW COMMENTS FROM ALUMNI IN THE MOST RECENT GRADUATING CLASS, THE CLASS OF 2024:

Adetayo Adesokan, Nigeria

I must say that my time at WMU was one of the most rewarding experiences of my life. The exposure, experiences and the network built was second to none. The value I brought back to the Navy has been incredibly evident to the amazement of superior colleagues. I'm also currently guiding some junior colleagues through the process of applying. I would surely recommend WMU to aspiring maritime professionals.

MSc in Maritime Affairs, specializing in Maritime Law & Policy

Jasmine Bellini, Belize

My experience at WMU exceeded all my expectations of what it means to be among true maritime professionals. The passion, drive, and deep sense of national pride I witnessed there are unlike anything I've seen elsewhere. I would wholeheartedly encourage anyone to take the opportunity to go, it's truly worth it.

MSc in Maritime Affairs, specializing in Maritime Education & Training

Aluwani Mudau, South Africa

The World Maritime University is a distinguished academic institution that offers a rich educational experience, characterized by high-quality instruction and a comprehensive international perspective on maritime affairs. The knowledge, professional networks, and practical skills I acquired have greatly enhanced my understanding of global maritime governance. I highly recommend this institution to anyone seeking to advance their career in the maritime and ocean sectors.

MSc in Maritime Affairs, specializing in Shipping Management & Logistics

Tiffany Skinner, Guyana

Studying at WMU from September 2023 to November 2024 was a truly rewarding experience. The knowledge and exposure I gained have significantly enhanced my professional perspective and effectiveness as a Port Engineer. I'd gladly recommend WMU to anyone aiming to advance their career in the maritime industry.

MSc in Maritime Affairs, specializing in Port Management

Hoang Thu Trang, Viet Nam

My time at WMU was one of the most meaningful chapters of my life. It wasn't just about gaining knowledge, but about growing alongside an extraordinary group of people from around the world. Some of my closest friends and colleagues became like family, and together we created memories I will cherish forever. The environment at WMU helped me broaden my horizons, personally and professionally, and opened doors I never imagined. I would wholeheartedly recommend WMU to anyone looking for a life-changing experience, both academically and personally.

MSc in Maritime Affairs, specializing in Shipping Management & Logistics

Sikini Falesiva, Tonga

Studying Maritime Law and Policy at WMU changed my life. I learned so much, met amazing people, and grew both personally and professionally. I highly recommend it to anyone in the maritime field.

MSc in Maritime Affairs, specializing in Maritime Law & Policy

Gonzalo Jiménez Briones, Chile

As a Chilean Navy Officer, it was an honour to be selected to complete my studies at WMU. The maritime network that I built with my colleagues of the Class of 2024 and the professors has no boundaries. It allows us to work for the sustainability and safety of the oceans everywhere.

MSc in Maritime Affairs, specializing in Ocean Sustainability, Governance & Management

Emin Sadirov, Azerbaijan

"I found WMU through its strong reputation as a UN-affiliated institution focused on maritime and ocean-related education. It has significantly deepened my expertise in maritime law & policy, and I highly recommend it to anyone seeking a globally relevant, impactful education and career in the maritime field."

MSc in Maritime Affairs, specializing in Maritime Law & Policy

Njoku Chiedozie Enyoka, Nigeria

My time at WMU was truly transformative both academically and personally. The international, interdisciplinary environment, guided by capable and erudite professors of high learning, broadened my perspective and sharpened my skills in maritime energy management, equipping me to contribute meaningfully to sustainable maritime development and the global energy transition; I wholeheartedly recommend WMU to anyone passionate about shaping the future of the maritime industry.

MSc in Maritime Affairs, specializing in Maritime Energy Management

Pamela Karbo, Ghana

"I got to know of WMU through recommendations from colleagues at my place of work, the Ghana Maritime Authority. Studying at WMU has significantly enriched my knowledge of the maritime industry, and I would strongly recommend it to anyone seeking specialized and high-quality education in maritime affairs."

MSc in Maritime Affairs, specializing in Maritime Law & Policy

INTERNATIONAL CONFERENCES

WMU regularly organizes and hosts successful international conferences, often co-hosted with international organizations, such as IMO, UN Environment and the EU, and attracting eminent keynote speakers and panellists.

Students enrolled in the Malmö programmes are able to attend the conferences that take place in Malmö as part of their studies, extending their network of contacts and taking part in high-level discussions with very senior maritime practitioners.

Recent and planned international conferences and events have included:

- IMLA Joint Conference with ICERS, IMEC and INSLC, 2021
- 44th Center for Oceans Law & Policy Conference, 2021
- Ocean Literacy Conference, 2022
- ICLEI Research Symposium, 2022
- Closing the Circle Regional Conference, Dominica, 2022
- Side Events for the 2022 UN Oceans Conference, 2022
- New Technologies for Greener Shipping, 2022
- IMO-WMU Joint Academic Conference on the London Convention and Stockholm Declaration, 2022
- WMU@40 Conference on Maritime and Ocean Sustainability, 2023
- MARPOL at 50 – Our commitment goes on: Maritime Decarbonization, 2023
- Nordic Maritime Transport and Energy Research Programme Final Seminar, 2023
- The Future of Shipping at the Biodiversity and Climate Nexus – Roundtable, 2024
- WMU Maritime Week – Beyond Horizons: Maritime Sustainability, 2024
- Advancing the Blue Economy through Gender Equality Conference, 2025
- Side Event for the 2025 UN Oceans Conference, 2025
- WMU Maritime Affairs Conference, 2025

MAGISTEREXAMEN I MARITIMA STUDIER

MSc IN MARITIME AFFAIRS

WMU's MSc programme emphasizes the practical application of expertise. It offers both an overview of the complex, inter-related maritime and oceans fields, as well as the opportunity to specialize. The programme is designed to respond directly to the real needs of the maritime industry, and to equip graduates with the skills needed today and in the future. It is academically challenging and professionally oriented, and is designed for ambitious, mid-career maritime professionals. It provides a particularly strong foundation for those intending to move into either a national or an international career.

WMU is active in research that is influencing the development of the maritime and oceans industries. From the effects of climate change to maritime safety and security, from illegal, unreported and unregulated fishing to port state control, from environmental to technological developments impacting the industry, as well as on ocean-related matters, WMU's faculty are involved in research that also adds significant value to the content of the MSc programme, keeping it up to date and relevant.

PROGRAMME AIMS

Swedish law defines the knowledge and skills that a graduate of the MSc programme will have, as well as the scope of the teaching.

Knowledge and understanding

The student shall:

- demonstrate knowledge and understanding in the main field of study, including both an overview of the field and specialised knowledge in certain areas of the field as well as insight into current research and development work, and
- demonstrate specialised methodological knowledge in the main field of study.

Competence and skills

The student shall:

- demonstrate the ability to integrate knowledge and analyse, assess and deal with complex phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues autonomously as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames
- demonstrate the ability in speech and writing to report clearly and discuss his or her conclusions and the knowledge and arguments on which they are based in dialogue with different audiences, and
- demonstrate the skills required for participation in research and development work or employment in some other qualified capacity.

Judgement and approach

The student shall:

- demonstrate the ability to make assessments in the main field of study informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work
- demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
- demonstrate the ability to identify the personal need for further knowledge and take responsibility for his or her ongoing learning.

INDEPENDENT PROJECT (DEGREE PROJECT)

A requirement is the completion by the student of an independent project.

In conformity with the law, WMU has developed specific learning outcomes for the MSc in Maritime Affairs. On successful completion of the programme the student should be able to:

Knowledge and understanding

- demonstrate an overview knowledge and understanding in Maritime Affairs, as well as specific knowledge in one of the following specialisations: Maritime Education & Training; Maritime Energy Management; Maritime Law & Policy; Maritime Safety & Environmental Administration; Ocean Sustainability, Governance & Management; Port Management; or Shipping Management & Logistics
- demonstrate insight into current research and development work as well as specialised methodological knowledge in subject areas of the chosen specialisation
- exhibit deep knowledge and understanding of International Maritime Organization (IMO) conventions and regulations, and the United Nations sustainable development goals (UN SDGs)

Competence and skills

- demonstrate the ability to integrate knowledge and analyse, assess and deal with complex maritime and ocean phenomena, issues and situations even with limited information
- demonstrate the ability to identify and formulate issues autonomously as well as to plan and, using appropriate methods, undertake advanced tasks within predetermined time frames
- communicate confidently and clearly in English in a professional context through speech and writing to report clearly and discuss conclusions and the knowledge and arguments on which they are based in dialogue with different audiences
- develop expert leadership, problem-solving and critical analysis skills, while operating and interacting in an international and multi-cultural environment
- apply skills required for participation in research and development work, to contribute to the sustainable development of the maritime industry
- exhibit the possession of interdisciplinary maritime knowledge necessary to contribute to national and international capacity building and to fulfil their national and international responsibilities for effective maritime development

Judgement and approach

- make assessments and evaluations in maritime and ocean affairs informed by relevant disciplinary, social and ethical issues and also to demonstrate awareness of ethical aspects of research and development work
- work effectively, both independently and in groups, to integrate complex knowledge from different aspects of the maritime and ocean fields
- use a maritime network that spans the globe and crosses all areas of maritime activity while gaining insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used
- develop the ability to identify the personal need for further knowledge and take responsibility for continuous learning

Research

- carry out an independent maritime or ocean research project
- communicate the results of this independent work by successfully completing an MSc dissertation

MSc GRADUATES

The graduates are the maritime and oceans leaders of the future. Worldwide, WMU graduates are government ministers, heads of national maritime administrations and presidents of maritime universities. The graduates take back to their home countries extensive maritime expertise. They also have an appreciation of the latest technology, an understanding of the direction of future global developments, a broad network of essential contacts in the industry and constructive plans for the future.

CAREERS AFTER GRADUATION

As IMO's university, the World Maritime University is in a unique position to deliver a world-class, research-informed professional MSc programme. The quality of our graduates has been recognized in countries around the world, where WMU graduates hold very senior positions in government, companies, universities, international organizations and diplomatic missions. WMU aims to educate the maritime leaders of tomorrow, and has a track record of success.

The WMU MSc programme provides an outstanding foundation for an exciting career in the maritime and oceans fields. Graduates whose studies were funded by their employer or an international donor are required to return home to spend a set period with their employer. Surveys have shown that 75% of WMU graduates are promoted to a significantly more senior position within a year or so of graduation, and many are promoted even more quickly.

Self-funded students are of course free to seek employment on the market-place. The University provides self-funded students with careers advice and may be able to offer internships.

All our graduates are extremely attractive to employers, as they offer a blend of interdisciplinary expertise, real-world experience and an unparalleled international network. A WMU degree offers you membership of a unique global elite of maritime and oceans experts.

FIELD STUDY PROGRAMME

The students following the MSc in Maritime Affairs benefit from a unique field study programme hosted by organizations such as shipping companies, port authorities, maritime administrations, and a range of other governmental and non-governmental organizations, all over the world. These field studies link the students' theoretical knowledge to practical experience, so that they can gain valuable insights into professional practices around the world – insights that are unique to WMU's students.

The field studies are part of the individual MSc specializations. The destinations are different each year. In the recent past, students attended field studies with their specialization in the following locations:

Maritime Education & Training

Norway, Sweden, Finland, Estonia, Lithuania, the Philippines, and the UK (including IMO)

Maritime Energy Management

Italy, Sweden, the UK (including IMO), Finland, Denmark and Belgium

Maritime Law & Policy

The Netherlands, Germany, Malaysia, Chile, Denmark and the UK (including IMO)

Maritime Safety & Environmental Administration

The UK, Republic of Korea, India, Sweden and Denmark

Ocean Sustainability, Governance & Management

Sweden, Denmark, the United Republic of Tanzania and the Netherlands

Port Management

Germany, Singapore, Poland, Sweden and major port cities elsewhere

Shipping Management & Logistics

Greece, Singapore, Denmark, Sweden and other major shipping destinations

International Transport & Logistics, delivered in Shanghai

Sweden, Denmark and China

Maritime Safety and Environmental Management, delivered in Dalian

Sweden, Denmark and China

The co-operation of an enormous range of global institutions makes it possible for WMU students to experience the application of the latest theories, practices and technologies in real-life maritime situations, and to join a global network of maritime professionals.

VISITING PROFESSORS

A further unique element of the WMU MSc in Maritime Affairs programme is the involvement of Visiting Professors. Each year, around one hundred internationally renowned senior maritime experts come to the University from a very diverse range of countries and institutions, including governments, multilateral organizations, universities, associations and companies. They are all internationally recognized experts, and play a key role in enabling WMU to deliver our comprehensive and wide-ranging programme.

WMU is the only maritime university in the world that offers its students direct access to such a network of senior people with real global impact.

ENGLISH AND STUDY SKILLS PROGRAMME

In Malmö, WMU offers a specialist Maritime English and Study Skills Programme (ESSP). The ESSP is designed to enhance English language competencies and provide the academic skills necessary to follow a postgraduate programme successfully, whether at WMU or elsewhere. The ESSP also welcomes external students, who come to Malmö for this unique programme that prepares them for both study and professional life in the maritime and ocean fields.

The ESSP runs each year from June to September, and its curriculum is designed to build the language and academic skills required for postgraduate studies and professional achievement. Core components are academic writing, speaking and presentation. These skills are developed through engagement with contemporary maritime and ocean-related topics, including maritime safety and security and the UN Sustainable Development Goals (SDGs) in a maritime context. The programme features academic lectures by WMU professors, offering insights into current research and policy developments in the maritime field.

Classes are small to support collaborative student-centred learning and provide a very high level of personalized feedback. In addition to enhancing language and academic competences, the programme fosters a range of 21st century skills, including problem solving, cross-cultural communication, information literacy and critical thinking, preparing students not just for academic success, but also for participation in the global maritime community. For more information about the programme, please go to **wmu.se/essp**. Applications must be made online.

LIBRARY & RESEARCH SERVICES

Information resources and services at WMU are world class. In addition to its unique maritime and oceans print collection, the University provides access to more than a quarter of a million ebooks that are available on campus and off, as well as access to several specialized legal and maritime databases, such as *HeinOnline, Clarkson's Shipping Intelligence Network,* and of course, IMO Docs. Likewise, the library provides access to over 56 thousand full-text online periodicals, including *Lloyd's List*. The library collection is particularly strong in maritime law, law of the sea, shipping economics, maritime safety, marine environment, coastal management, port management, shipping management, and intermodal transportation.

Research services offered by the University include loan of material from other libraries around the world, an ability to request documents on demand electronically, and in-depth literature searches. Library staff members offer year-round classes in search strategies and reference management, in addition to on-demand courses determined by frequent student surveys.

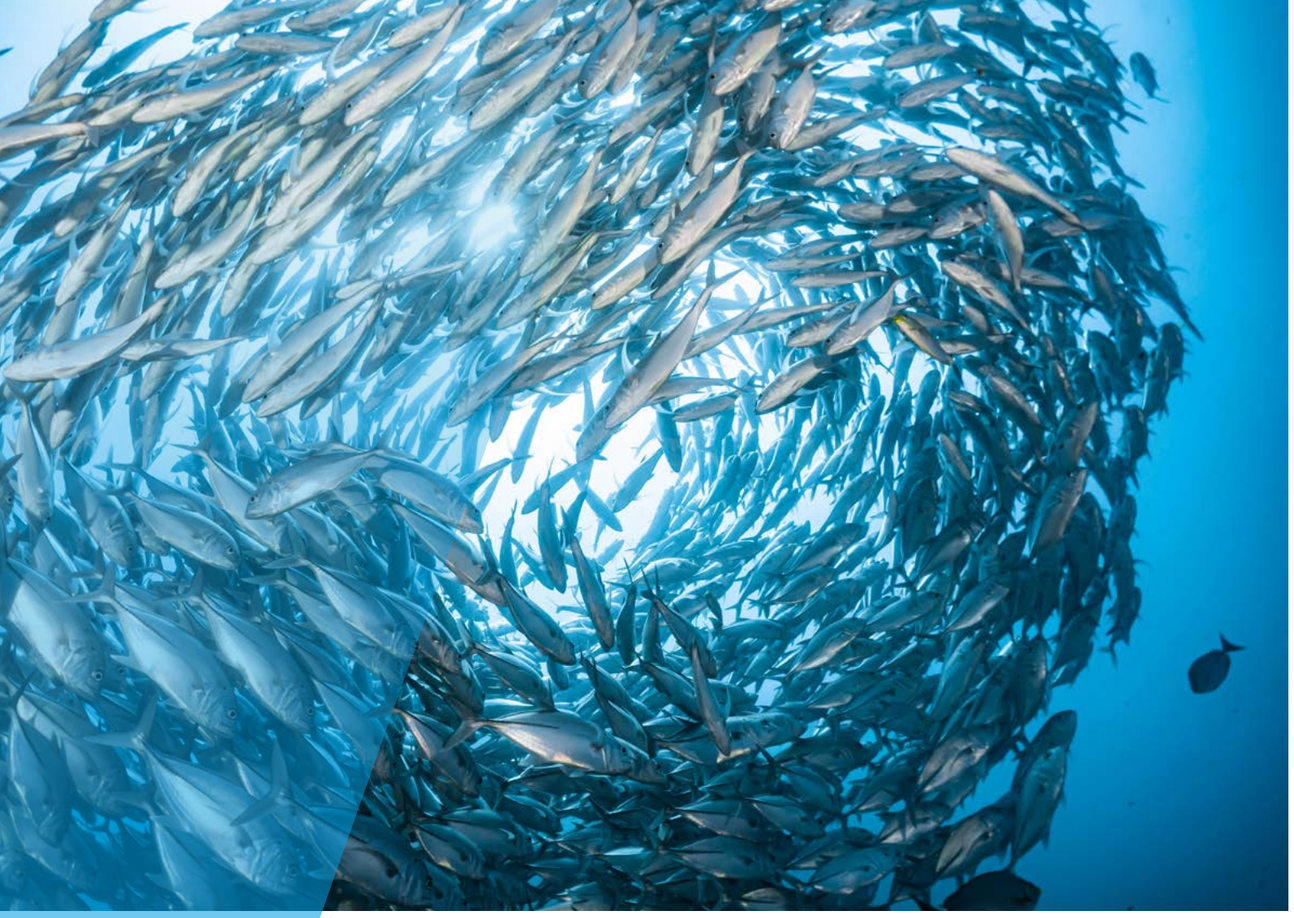
All residents in Sweden, including WMU students and researchers, have the right to use all state-funded libraries in Sweden. This includes the nearby University Libraries of Lund and Malmö and the city public library, Malmö Stadsbibliotek. As WMU has close ties with other maritime educational institutions and key organizations and commercial entities within the maritime sector, it is afforded access to cutting-edge information on a routine basis. Such a provision further enables the library and IT infrastructure to deliver high quality, timely and on-target information meeting students' needs.

INFORMATION TECHNOLOGY

Information Technology skills are vital at WMU. Appropriate software for your studies and research is made available, from basic programmes to the latest simulation software. Students are provided with an integrated suite of communication and collaboration tools and have unlimited file storage in the WMU Cloud.

The University and our donors have invested heavily in providing students with an excellent IT infrastructure. All students have access to the University's wireless local area network, cutting edge computer labs, document scanners and high-quality printers in the main building and at the residence.

In addition to providing a responsive help desk system for troubleshooting computer and networking problems, the IT staff offer classes and one-on-one sessions to ensure students get exposure to the best current IT practices as part of their capacity-building training.



THE STANDARD MSc PROGRAMME

The standard MSc programme is 14 months long, and divided into three terms:

Foundation Studies are taught in Term 1. They are completed by students following the standard MSc programme, and provide a thorough grounding in maritime policy and the IMO system for maritime governance, as well as an introduction to the environmental, economic, and managerial aspects of the ocean. Students also start the preparation for their dissertation in the research methodology subject.

Specialization Studies are taught in the second term. Students follow one of seven specializations: Maritime Education & Training; Maritime Energy Management; Maritime Law & Policy; Maritime Safety & Environmental Administration; Ocean Sustainability, Governance & Management; Port Management; or Shipping Management & Logistics. They also continue work on their dissertation preparation.

Dissertation: all students complete a dissertation, which may be based on a particular issue relating to their work in their home country or on a current or emerging maritime issue. The dissertation topic and proposal must be approved by the University, and may involve original research or be an analysis of a topic based on secondary sources. Students may complete the dissertation individually, in pairs or in trios.

The two specializations taught in China follow a different calendar to meet local demands.

THE ACCELERATED MSc PROGRAMME

Applicants who already have a relevant postgraduate qualification (a postgraduate diploma or a Master's degree) may apply for advanced standing on the basis of transferring credits from their previous studies; this exempts them from the need to complete the first, foundation term and allows the MSc degree to be completed in 10 months.

FLEXIBLE ENROLMENT

Every subject offered in the core MSc programme can also be followed by external participants, on a flexible, credit-by-credit basis. A fee of $315 per credit is charged, including assessment and/or examination; successful students are awarded a Certificate of Accomplishment, and a transcript of grades showing the subjects attended and assessed, which can be used to accumulate credits towards the full MSc degree or a Postgraduate Diploma. A student who elects only to audit a course, without any assessment, pays a reduced fee of $285 per credit, and is issued with a Certificate of Attendance.

Another mode of flexible enrolment is to study term-by-term, completing the three term programme over several years.

STUDENTS' PROGRESS AND AWARDS

Students' progress through the course is determined by his/her individual grades. Each grade awarded to a student is reviewed by the University's Curriculum and Assessment Committee, before it is issued to the student.

To be awarded the degree of Master of Science, a student must pass every subject in the degree programme. It should be noted that from the Class of 2024 (the intake of 2023), WMU has used the Swedish system of grading. Neither field studies nor the research methodology subject is grade-bearing; they are simply classified as pass/fail. No overall GPA score is on transcripts, and no degrees are awarded "with distinction".

THE CREDIT SYSTEM

The MSc programme is structured on the European Credit Transfer and Accumulation System (ECTS). ECTS is based on the principle that 60 credits measure the workload of a full-time student during one academic year, which is around 1600 hours per year. One credit therefore approximately equals 25 working hours. Student workload consists of all planned learning activities, such as attending lectures, field studies, seminars, independent and private study, preparation of projects, taking examinations, preparing and giving presentations and researching and writing the dissertation. Credits in ECTS can only be obtained after successful completion of the work required and appropriate assessment of the learning outcomes. Learning outcomes are sets of competences, expressing what the student will know, understand or be able to do after completing a process of learning.

Credits are allocated to subjects and dissertation work, reflecting the amount of work required to achieve specific objectives. This weighting relates to the total quantity of work necessary to complete the programme successfully.

PROGRESSION

To remain in good academic standing, students must pass every subject, after the permitted re-assessment.

ENTRANCE REQUIREMENTS

14-MONTH STANDARD PROGRAMME

The University admits only mature students who are already established in a career in the maritime field. The Admissions Board will consider only those applicants who meet the minimum general entrance requirements, which are:

- a Bachelor's degree in a relevant discipline, or an equivalent university qualification

  or

- the highest grade certificate of competency for unrestricted service as master mariner or chief engineer, or equivalent maritime qualifications

  and

- substantial, directly relevant professional experience
- competence in English language, demonstrated by an internationally recognised standard test (see the full English language requirements below)
- computer competence (at least the ability to use Microsoft Office)

Good IT skills are essential, as students are required to use computers from the beginning of the first term to write their examination answers, complete assignments and carry out research and other projects. **Applicants who lack computer and keyboard skills cannot be accepted.**

From the group of applicants who meet these general entrance requirements, the Admissions Board will select only the best-qualified candidates, taking into account all their qualifications and achievements.

ACCELERATED 10-MONTH PROGRAMME

In addition to meeting the requirements for the standard, 14-month programme, applicants for advanced standing must demonstrate that they have already covered the content of the first term of the standard programme. The additional qualifications required are:

- a postgraduate qualification in an area directly relevant to the specialization which the student intends to follow
- senior level, directly relevant professional experience
- proficiency in English without attending the English and Study Skills Programme, and with a good score in the writing skills section of the test (see the full English language requirements below)
- excellent IT skills

Applicants to the accelerated programme must supply detailed transcripts from their undergraduate and postgraduate study. If transcripts are not issued, then the detailed syllabus, the marks gained, and a full academic reference must be supplied.

TYPICAL 14-MONTH PROGRAMME STRUCTURE

Term 1	
Foundation Studies	20 EC
Research Methodology	4 non-degree EC
Term 2	
Specializations	40 EC
Field Studies	4 non-degree EC
Term 3	
Dissertation	20 EC
Total	**88 EC**
Grade-bearing EC	80 EC
Non-degree, Non-grade-bearing EC	8 EC

ENGLISH LANGUAGE REQUIREMENTS

All applicants to the University must offer an internationally recognised English language proficiency test. Acceptable tests include IELTS, TOEFL, Cambridge examinations, and GCE/SCE O-levels in English language. Other tests, such as Duolingo, may be accepted by the Admissions Board. Applicants should check with the University Registry in such cases.

Candidates are assessed in accordance with the following general guidelines:

Test of English as a Foreign Language (TOEFL)

ESSP participation required if the scores are:
IBT 61 to 79
PBT 500 to 549

No ESSP required if the scores are:
IBT 80+
PBT 550+

WMU's TOEFL institution code is 9198.

International English Language Testing System (IELTS)

Bands 5.0 and 5.5: ESSP participation required
Band 6.0 or above: no ESSP required

Please note: the academic, not the general training, version of the test is required.

Cambridge Examinations

First Certificate (FCE): ESSP participation required
Advanced (CAE): no ESSP required
Proficiency (CPE): no ESSP required

Students who have a pass in a GCE O-level or the equivalent (WAEC, SSC, CXC etc.) must enclose a copy of their examination results certificate.

Sometimes applicants' test results meet the University's general guidelines, but show weaknesses in a certain skills area. In such cases, the Admissions Board will vary the guidelines shown above.

Information on the accepted tests can be found at the following websites:

www.toefl.org
www.ielts.org
www.cambridgeesol.org

APPLICATION FOR ADMISSION

All candidates should apply online from the WMU website (**www.wmu.se**) where all the necessary information can be found. Applications can be submitted at any time; there are no cut-off dates.

Certified copies of certificates (including the results of an acceptable test of English language) and transcripts supporting the qualifications listed must be uploaded as electronic files.

Applicants who meet the minimum entrance requirements are reviewed by the Admissions Board. Only the best candidates each year will be approved and offered a place, pending the confirmation of funding.

If an applicant requests advanced standing to enter the accelerated MSc programme, the transcripts will be carefully assessed to ensure that the essential criteria are met. An applicant who is considered for the accelerated programme, but not accepted, is automatically then considered for the 14-month standard programme.

The University Registry will notify you of the result of your application as soon as possible. The process may take longer at certain times of the year.

When an academically cleared candidate has secured financing, enrolment can be finalised. At this point, the University will send each candidate a medical report form, which must be returned to the University, along with a formal declaration that the candidate accepts the conditions of his/her enrolment.

UNIVERSITY FEES

The University fee is made up of tuition, field study programme costs, study materials and the required medical and accident insurance. The programmes taught in China do not have the same fee levels as in Malmö, and applicants are not eligible for financial support from WMU's international donors. Applicants should contact the local offices for more information.

The University fees for entrants to the Malmö-based MSc in the Class of 2027 are as follows:

Standard MSc programme	**$30,000**
Tuition	$25,400
Field study programme	$4,600
Accelerated MSc programme	**$26,675**
Tuition	$21,950
Field study programme	$4,725
English & Study Skills Programme	**$6,150**

The fees and costs are revised biannually, and so will be higher for students in the Class of 2028.

The programmes taught in China do not have the same fee levels as in Malmö, and applicants are not eligible for support from WMU's international donors. Applicants should contact the local offices for more information.

LIVING COSTS

A student needs at least SEK12,000 per month for rent at the University residence and basic general living costs, plus air tickets. To rent a flat privately is considerably more expensive.

ALL-INCLUSIVE PAYMENT

Some sponsors prefer to make a single payment to the University to cover all the needs of their student during the programme. From this inclusive payment, WMU provides tuition, field studies, insurance, accommodation, a monthly living allowance and an air ticket home after graduation. The all-inclusive fees are as follows:

Standard MSc programme	**$62,675**
Accelerated MSc programme	**$53,125**
English & Study Skills Programme	**$12,175**

FINANCIAL SUPPORT FROM COMPANIES, GOVERNMENTS AND FOUNDATIONS

One third of our students are funded by their own companies, governments or national funding agencies. Sponsors can choose whether to make the all-inclusive payment, or to pay just the University fee to WMU, and then make payments directly to the student to cover living expenses. Payment must be made by bank transfer to the University's account before we can confirm enrolment. Details of how to do this can be found at the end of this Handbook.

Before applying for a fellowship from a WMU donor, you are strongly advised to explore all funding possibilities in your home country, such as from your own company or organization, national scholarship programmes for study abroad, international scholarship and fellowship programmes, maritime sector organizations and philanthropic foundations. Make sure you find out about the requirements for each of these options well in advance of the start of your programme. There is a list on our website of some of these organizations.

Your employer's commitment to your studies is vital; the donors expect your employer to buy your initial plane ticket to come to Sweden, and to employ you in a suitable position after graduation. The donors have established the criteria that they use when considering applicants: awards are usually restricted to government employees from the least developed countries who are aged under 40. Some donors give priority to certain regions, to certain specializations or to women. Detailed information about academic qualifications, including English language test scores, IT skills, professional track record and anticipated employment after graduation are taken into account by donors, along with your motivational statement.

If you hope to secure a donor fellowship, you must apply as early as possible to maximize your chances, and you are advised to submit all the motivational statements. Donors start to allocate fellowships very early each year, and the process goes on over a period of several months. We receive many more applications for these fellowships than the number of donor fellowships available, and you should not rely on WMU donors if there are other options in your home country; it is very important that you and your nominating authority make every effort to secure financing on your behalf.

FINANCIAL SUPPORT FROM WMU DONORS

If you cannot secure funding in your home country, you can be considered for one of the fellowships granted via WMU by international donors. These are primarily for applicants who work for their home Government. The majority of these fellowships cover the full costs of studying at the University: the University fee, accommodation at the residence, a monthly living allowance, and an air ticket home after graduation. Others cover only the University fee. There is very limited donor support for the ESSP.

The application for donor funding must be made by your employer, who completes the **Application for Financial Support form**, available on our website. To be considered for certain donor fellowships, applicants must complete additional **motivational statements**. The blank forms for each donor which is currently requesting such a statement can be found on our website. As at August 2025, these awards are the Sasakawa World Maritime University Fellowships, the ITF Seafarers' Trust Fellowships, and the TK Foundation Fellowships. Please note that only typed electronic forms can be accepted to apply for donor support, and should be submitted with your online application.

FINANCIAL SUPPORT FOR APPLICANTS FROM THE PRIVATE SECTOR

The full fellowships from international donors are overwhelmingly for applicants from developing countries and from Government service. If you do not meet these criteria, you may be able to access partial financial support from the University's Endowment Fund.

This support is limited in scope, and relates only to the tuition fee. If you can at least meet your own living costs – perhaps with the help of your employer – then you can apply for Endowment Fund support. You would be expected to write an explanation of your circumstances, what you are able to contribute yourself, and your motivation for joining WMU. You would then be expected to demonstrate that you were in possession of the necessary funds, before your enrolment could be confirmed.

MAGISTEREXAMEN I MARITIMA STUDIER
MSc IN MARITIME AFFAIRS

PROGRAMME CONTENT

FOUNDATION STUDIES

Foundation Studies are taught in the first term, and cover the introductory knowledge that is fundamental to all activities in the maritime field.

WMU 151 **International Law, Maritime Conventions and International Organizations** **4 EC**

To provide a foundation for the understanding of international law, the complex body of treaties, and major international maritime conventions. To provide an introduction to the United Nations and its agencies and other international institutions involved in shipping and maritime affairs, including relevant inter-governmental and non-governmental organizations and their interrelationship.

WMU 139 **The IMO System for Maritime Governance** **4 EC**

To provide an introduction to the system of maritime governance, including the role of the International Maritime Organization (IMO), and the development of standards and regulations leading to national implementation of IMO instruments. To discuss different theories of maritime policy and their practical implications for maritime governance.

WMU 142 **Maritime Economics** **4 EC**

To provide an economic explanation for four aspects of international maritime transport: the demand, the supply, the market and the strategy. To apply economic principles to the discussions of different aspects of maritime transport such as ship operation, finance, seafarers, safety, marine environment, port and other services. To analyse the impact of technology, especially digital technology including AI and automation, on the shipping sector.

WMU 152 **Introduction to Ocean Science for Sustainable Development** **4 EC**

To provide an evidence based, cross-disciplinary introduction to the ocean as a social-ecological system (past, present and future). To provide insights into ocean processes and an appreciation of life in the ocean and to evaluate the benefits that the ocean provides to societies. To examine how human activities such as overfishing, marine pollution, and human-induced climate change disrupt the function of the ocean ecosystems, and the implications for the Earth and its inhabitants. To discuss potential societal interventions needed to restore the health of the ocean and advance the UN's Sustainable Development Goals.

WMU 147 **Management and Organizational Behaviour** **4 EC**

To provide an appreciation of the evolution of management thought. To provide a foundational level understanding of the principles of management and the skills to interrogate and apply organizational behaviour theories to interactions between individuals and groups within organizations. To identify and discuss contemporary issues and trends influencing management and organizational behaviour and their application to the maritime industry.

WMU 149 **Research Methodology and Study Skills** **4 non-degree EC**

To provide study skills training at the postgraduate level, including critical thinking, academic writing, referencing, examination preparation and oral presentation skills. To provide advanced training in research methods across various science disciplines in maritime affairs to equip students with a thorough knowledge of research design, literature review, data collection, ethical issues and quantitative, qualitative and mixed methods alongside legal analyses.

SPECIALIZATION STUDIES

MARITIME EDUCATION & TRAINING

This specialization has been designed for professionals who are or will be engaged in the leadership and administration of maritime education and training, as well as organizational management in both academic and non-academic settings. It provides the knowledge essential for the optimization of maritime education systems under international law, the creation, acquisition and transfer of knowledge across maritime clusters and the leadership of contemporary organizations with emphasis on strategic planning and people management.

EDU 101 **The International Legal and Administrative Framework of Maritime Education & Training** **8 EC**

To interrogate the role of the International Maritime Organization (IMO) and national governments in policy formulation and the administration of maritime affairs. To define and examine "maritime governance" and "maritime administration" in terms of concepts and the States' practices. To discuss the evolution of international law in maritime education, in particular within the ambit of the IMO, and the human element issues (both extant and emerging) that underpin education for the maritime industry. To review the legal, administrative and training implications of contemporary developments in the maritime industry.

EDU 106 **Principles of Education and Curriculum Development** **8 EC**

To discuss the fundamental principles of education including theories of learning and their relevance to maritime education and training and for life-long learning. To explore perspectives of sustainability in higher education with particular reference to the UN Sustainable Development Goals. To examine social dynamics in the maritime industry, with an emphasis on diversity and cultural factors. To impart an understanding of curriculum design and the key influences shaping its development in the context of maritime education and training.

EDU 104 **Curriculum Delivery and Assessment** **8 EC**

To examine principles and practices of effective curriculum delivery including those relevant to the maritime context. To evaluate how curriculum delivery can be optimized using contemporary digital tools including simulators, immersive and extended reality, information and communication systems, learning management systems and e-learning. To compare learner assessment and curriculum evaluation methods including the use of advanced statistical analysis. To propose teaching and learning activity and apply constructive alignment in curriculum delivery and assessment.

EDU 105 **Knowledge Management** **8 EC**

To appraise knowledge management and its importance to organizations and maritime clusters in improving operational efficiency. To understand the relevance of and need for socio-technical skills, and the use of modern technology and digitization in creating, acquiring and transferring knowledge. To discuss the role and influence of data and global access to information on society. To examine the development and impact of Artificial Intelligence (AI) and its applications. To examine how organizations learn and how this impacts growth, sustainability, social relevance and profitability.

LEA 101 **Strategic Management and Leadership** **8 EC**

To discuss strategic management and the tools for optimum scenario and strategic planning. To explore management theories as they relate to people and strategic management practices in the maritime industry. To examine approaches to leadership and the exercise of power and influence. To discuss change leadership, change management, capacity development and their application to contemporary global issues. To discuss sustainability and value-centred maritime operations, and their manifestation in corporate social responsibility, and environment, social and governance (ESG) issues and principles.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME ENERGY MANAGEMENT

This specialization is designed for the people who wish to make a contribution to sustainable energy and climate actions in the maritime and oceans sectors. Successful candidates are not limited to those having a technical profile (e.g. naval architects, ocean engineers, deck officers and marine engineers, designers, superintendents, surveyors, engineers with a maritime exposure etc.) but also management backgrounds, including maritime economists, ship operators, administrators, IT professionals, port and shipyard managers and professionals from the energy and environmental sectors. It provides a comprehensive understanding of different aspects of maritime energy management across the field from shipping (international and domestic) to oceans, and from ports to shipyards with a vision of a sustainable, energy efficient and net zero/low carbon maritime industry, in particular decarbonised long-distance shipping.

EGY 114 **Energy for Sustainable Maritime Industry** **8 EC**

To apply system thinking to find solutions for complex maritime energy challenges. To examine the evolution of energy use in societies over history. To discuss the sources and impacts of air pollutants and greenhouse gases. To evaluate the international regulatory and institutional framework for air emissions. To discuss policy instruments to address air emissions externalities. To discuss the role of climate finance and associated financial mechanisms, with a particular focus on greenhouse gas (GHG) emissions pricing in the maritime sector. To appraise Sustainable Development Goals in terms of the social and human aspects of maritime energy management. To examine technological innovation and the impacts and implications of digital and green transitions on people and societies.

EGY 102 **Energy-Efficient Ship Design and Operation** **8 EC**

To illustrate MARPOL Annex VI including Chapter 4 (EEDI, EEXI, SEEMP, CII, DCS and technology transfer) along with IMO's Net-Zero Framework 2023 GHG strategy and EU perspectives; to examine technological innovation related to energy management in the maritime industry; to define the basic process of onboard power generation and describe principal energy consumers and converters; to identify energy-saving measures in both ship design and operation; to analyse ship design and energy efficiency through ship resistance (viscous, wave-making, air and appendage) reduction means, and propulsion efficiency improvement technologies; to discuss ship operation and energy efficiency through operational measures both at ship and fleet levels along with the integration of port/ship duo; to examine the impact of technical and operational measures on fuel consumption of ships; to discuss machinery technologies including hull and propeller maintenance along with relevant ISO standards.

EGY 108 **Energy Management in Maritime Onshore Facilities** **8 EC**

To discuss energy management in terms of its vision, planning and strategy in the context of ports/shipyards; to analyse the role of port governance and port-cities in global networks as part of the supply chain; to provide an overview of the ISO 50001 energy management system certification process and other relevant certification systems; to explain energy auditing through real applications from ports; to discuss the socio-economic benefits of abatement technologies resulting from international, European and regional port emissions regulations; to examine the port supply chain management, digital innovation, green and smart ports concept; to examine the green port charges and environmental incentive schemes; to apply the Circular Economy and industrial symbiosis approach within ports and cities.

EGY 116 **Alternative Fuels, Future Technologies and Marine Renewable Energy** **8 EC**

To discuss existing and anticipated future pollutant emission limits such as those outlined in Chapter 3 of MARPOL Annex VI, and to identify compliant technological options globally, and within Emission Control Areas (ECAs); to apply the concept of life-cycle impact of maritime energy technologies in the context of the IMO Guidelines on environmental life cycle GHG intensity of marine fuels (LCA Guidelines) and Social Life-Cycle Assessment (S-LCA). To examine technological innovations, such as future propulsion technologies including those using alternative fuels (LNG, LPG, ethane, methanol, ethanol, dimethyl ether, biofuels, synthetic renewable fuels and electro-fuels, hydrogen, and ammonia), fuel cell and battery-powered electric systems and nuclear energy; to evaluate risks and safety of alternative fuels. To evaluate and discuss the potential for shipboard renewable energy capture including wind and solar-assisted propulsion; to compare ocean energy technologies (wave, ocean and tidal currents and tidal range, ocean thermal energy conversion and salinity gradient), and offshore wind energy; to understand the environmental impacts of air pollution, underwater noise and marine renewable energy; to understand the need for maritime spatial planning related to offshore renewable energy generation.

EGY 115 **Maritime Energy Management and Operational Research** **8 EC**

To describe operational research techniques such as Forecasting, Simulation, Optimization and Decision-making; to discuss operational research through mathematical modelling, and to apply relevant techniques such as Multi-Criteria Decision Making, Monte Carlo simulation, and single objective optimization in ship design and ship/port operations; to apply problem-solving skills and theoretical knowledge to the development of open source script-based programming and to use a variety of software tools; to employ financial risk simulation to analyse the value of strategic investments, including cost, financing and economic evaluation; to discuss the fundamental concepts, methods and criteria technique with investment assessment; to identify drivers of demand and supply in the maritime energy markets and sustainable investment for ships, ports and shipyards; to apply cash flow budgeting and investment appraisal for ships, ports and shipyard projects; to discuss Life-Cycle Cost Analysis (LCCA) and Levelized Cost of Energy (LCOE) within maritime energy management context.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME LAW & POLICY

This specialization has been designed for people working in policy formulation or an advisory capacity at an executive level, whether in the public or private sector. It provides the essential knowledge and understanding of maritime administration issues required by such senior maritime personnel, and gives in-depth appreciation and advanced understanding of the law and policy related to international maritime transport.

ADM 501 **Introduction to Roles and Obligations of Maritime Administrations** **8 EC**

To provide a broad overview and appreciation of the role of government in the administration of maritime affairs. To define and examine maritime administration conceptually, and in terms of maritime governance, such as implementation of maritime conventions, particularly under the IMO III Code, and flag, port, and coastal State obligations through maritime administrations and/or other responsible agencies. To provide an overview of the IMO Mandatory Member State Audit Scheme as a tool to assess member state performance.

POL 103 **Maritime Policy Design, Implementation, and Analysis** **8 EC**

To introduce the concepts and basic principles of public policy as they relate to the maritime milieu. To provide a broad overview of the maritime policy cycle including agenda setting, formulation, implementation, and evaluation, applied within the context of the development of measures to promote safety, security, environmental protection, and efficiency in the maritime industry. To present fundamental concepts and issues related to analysing maritime policies and determining whether resultant activities and services have been or remain relevant, effective, and cost-efficient.

LAW 509 **The Law of the Sea and the Protection of the Marine Environment** **8 EC**

To provide a clear understanding of the nature, constituent parts and dynamics of the international law of the sea and to appreciate its implications and influence on maritime administrations and their specific interests. To offer a deep appreciation of the international legal framework applicable to various maritime zones under the UN Convention of the Law of the Sea (UNCLOS) and to apply law of the sea concepts and principles in the context of a hypothetical case to be tried in a Moot Court Competition. Special emphasis is given to various public, regulatory and private law conventions of marine pollution including MARPOL, BWM, AFS, Hong Kong Convention, OPRC, CLC, FUND, HNS, and BUNKER among others.

LLP 102 **Law and Policy in Maritime Safety, Security, and Labour** **8 EC**

To provide a clear understanding of the international legal framework for safety management and security in the context of maritime transport under different initiatives embodied in IMO instruments. To provide the basic principles of IMO´s approach to the human element in the maritime field, including the STCW Convention and other international instruments, as well their role in enhancing Occupational Safety and Health (OSH) on board. To examine the development of international maritime labour standards under the aegis of the International Labour Organization (ILO), with a focus on the Maritime Labour Convention, 2006 (MLC, 2006), the Seafarers' Identity Documents (Revised) Convention, 2003 (No. 185), and the Work in Fishing Convention and Recommendation, 2007 (No. 188 and No. 199). To discuss challenges related to the future of work in the maritime sector.

LAW 150 **Maritime Commercial Law** **8 EC**

To impart a clear understanding of transport-related commercial law, in particular in relation to international trade, related contracts of carriage of goods by sea and the relevant transport documents. To gain substantive knowledge about carriage of goods by sea under charter parties and bills of lading, including liability of the carrier for loss of or damages to cargo, as well as delays. To understand the relevance of marine insurance and general average in maritime commercial law, including standardized contractual approaches to salvage and wreck removal. To provide an understanding of the law relating to maritime claims and their enforcement, arrest of ships, and basic knowledge about ship sale and purchase as well as maritime liens and mortgages.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

MARITIME SAFETY & ENVIRONMENTAL ADMINISTRATION

This specialization has been designed for experts who serve or will serve at a senior level in public or private maritime organizations, in the fields of advice and policy implementation on IMO standards related to maritime safety and security, occupational health and safety as well as marine environmental issues. It provides comprehensive understanding of maritime administration activities in the context of IMO, and the essential management tools required by senior maritime personnel to implement safety, security and environmental protection standards.

IMO 102 **IMO Member State Obligations** **8 EC**

To investigate strategic approaches to maritime administration and policy development. To critically assess IMO member State obligations and introduce the IMO Instruments Implementation (III) Code as a Quality Management framework. To deconstruct the IMO member State Audit Scheme and Key Performance Indicators (KPIs) to evaluate member State and Recognized Organizations (ROs) performance. To appraise tools and strategies for effective implementation and enforcement of IMO instruments. To integrate cross-cutting safety precepts such as risk assessment, Formal Safety Assessment and resilience to maritime casualty investigation responsibilities. To distinguish and prioritize emerging obligations related to decarbonisation and the regulation of Maritime Autonomous Surface Ships (MASS), positioning Member States for future readiness.

MSS 601 **Maritime Safety and Security** **8 EC**

To analyze the application of risk management and safety principles in the maritime domain. To evaluate IMO instruments and foundational standards governing ship design, construction, equipment and operations. To explore SOLAS and its integration with maritime safety and security regimes with focused analysis on ISPS and ISM Codes. To apply and validate practical tools and standards such as Life Saving Appliances and Fire Safety Systems to enhance safety at sea. To illustrate technological transformation in the “era of digitalisation”, including IMO’s e-Navigation initiative, cyber-security challenges, and the increasing deployment of Maritime Autonomous Surface Ships (MASS).

SFS 101 **Seafarers in the Sociotechnical System** **8 EC**

To apply system thinking within the context of the maritime human element. To examine and interpret key human factors and their incorporation in the maritime domain with case studies encompassing fatigue, manning and expert decision-making. To appraise the current state of occupational safety and health in shipping and fishing sectors. To evaluate the application of IMO and ILO instruments related to seafarers including STCW Convention and the Maritime Labour Convention (MLC), 2006. To critique the influence of the ISM Code on promoting a safety culture and effective risk management. To analyze human factors in the context of emerging technologies and their impact on seafarer performance. To assess the regulatory responsibilities of maritime administrations regarding human factors and seafarers’ certification with an emphasis on oversight and quality assurance.

ENV 502 **International Reaction to Environmental Externalities** **8 EC**

To examine marine environment protection strategies and instruments, including MARPOL and its annexes. To analyse implementation and enforcement mechanisms essential for the effectiveness of marine environment instruments. To apply biosecurity concept to shipping and discuss related instruments such as the Ballast Water Management Convention, Anti-fouling Systems Convention, Biofouling Guidelines, and WHO International Health Regulations. To appraise the challenges associated with ship recycling, highlighting the role of the Hong Kong Convention. To discuss the measures to control transportation of dangerous goods.

CSO 101 **Coastal State Obligations** **8 EC**

To assess Coastal State obligations in ensuring safety of navigation, Search and Rescue, and preparedness and response to marine pollution incidents. To evaluate the latest applied methods, tools and technologies in vessel traffic services and navigation safety systems. To analyze the structure and management of Search and Rescue systems at global, regional and national levels. To examine risk assessment in the Coastal State context including waterway safety, maritime assistance services, and places of refuge. To apply IMO instruments concerning pollution response and to identify the legal frameworks for civil liability and compensation. To explain contingency planning as a foundational element of risk management and operational resilience.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

OCEAN SUSTAINABILITY, GOVERNANCE & MANAGEMENT

This specialization has been designed for those who work in the maritime and ocean sectors and offers an ecosystem-based approach to the governance and management of the interconnected global ocean and social-ecological systems. Students learn about ocean processes, ecosystem functions and marine resources, and how society depends on, interacts with and impacts the health and sustainability of the ocean and coasts. Students gain a sound understanding of ecosystem-based management, international law of the sea and ocean governance structures, including ocean-related UN institutions and systems. Key goals for sustainable ocean governance and responsible ocean business practice are explored. The specialization is designed to deliver the knowledge required to incorporate the United Nations 2030 Agenda for Sustainable Development into the domestic ocean governance policies of graduates' home countries, and seeks to develop the transdisciplinary skills necessary for the fulfilment of the responsibilities graduates will assume.

OCE 112 **Understanding the Ocean and Human Impacts** **8 EC**

To understand ocean processes, the range of environments and the patterns of biodiversity across the World's oceans and coasts. To evaluate marine ecosystem goods and services provided to societies. To assess the cumulative impacts of climate change and the growing human use and exploitation of the oceans and coasts. To review the range of evidence-based approaches, data sources and analytical tools used to understand, monitor and assess human impacts and the status of marine ecosystems. To evaluate methods and strategies designed to mitigate adverse human impacts and restore ecosystem function.

OCE 108 **Governing Human Activities that Affect the Ocean** **8 EC**

To consider human activities that affect the ocean and examine a range of governance tools to manage these activities and their impacts. To consider traditional regulatory tools, such as standard setting and command and control, and alternative tools, such as economic instruments, voluntary measures, education, environmental impact assessments, smart regulation and new governance approaches. To consider the role of government actors, proponents, stakeholders and members of the public in ocean governance. To explore participatory engagement and governance approaches and methods. To consider governance challenges in cross-cultural settings.

OCE 114 **Turning Theory into Practice** **8 EC**

To understand the scientific method, and how to integrate and apply social science and life science theory and tools through substantive research examples. Through in-depth research, analysis and interpretation, develop the knowledge and skills required for achieving scientifically based positive social and environmental outcomes. To provide knowledge and skills in quantitative and qualitative research instruments to assess ecosystem-based management of oceans and coasts.

OCE 110 **Global Ocean Governance, Multilateral Diplomacy & Negotiation** **8 EC**

To provide a sound understanding of the international legal framework for ocean governance under the United Nations Convention on the Law of the Sea (UNCLOS) including ocean-related commitments made by the global community, focusing on the 2030 Agenda for Sustainable Development. To understand and develop practical skills in multilateral diplomacy and negotiation in an ocean governance context.

OCE 111 **Area-Based Management of the Ocean and Coasts** **8 EC**

This subject builds on concepts and methods in preceding OSGM courses, focusing on their application within integrated ocean management frameworks and the concept of the Blue Economy. Students will explore area-based management tools such as marine spatial planning (MSP) and marine protected areas (MPAs) together with ecosystem-based and adaptive management, and strategies for managing cumulative impacts. Emphasis is placed on the practical application of these tools and approaches, particularly in the context of developing countries with a focus on inclusive, sustainable, and adaptive ocean management.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of theory taught in the specialization subjects. Students travel to major maritime and ocean destinations that offer valuable insights into coastal communities, sustainable development, organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

PORT MANAGEMENT

This specialization has been designed to provide the necessary knowledge and resources to build a successful career in port management, operations and logistics. It offers a comprehensive understanding of various aspects of port management, including commercial, operational and technical aspects, as well as the principles and practices of modern port management. This specialization is ideal for professionals at middle management level in port authorities, port/terminal operation (public and private) companies, and transport planning departments.

SPM 505 **Introduction to Maritime Business and Management** **8 EC**

To provide an overview of global seaborne trade, trade patterns and development for liner and tramp (dry bulk and tanker) services. To provide a fundamental understanding of maritime business and management. To introduce modern shipping and port management from commercial, operational, technical and human perspectives in international maritime transport and logistics and their importance to (inter)national and/or regional economies. To exchange a series of views with industry professionals and discuss the latest challenges, key performance indicators, and implementations in practice. To introduce the basis of data-driven business management in a maritime context.

SPM 502 **Maritime Analytics** **8 EC**

To introduce economic models and market analytical tools in shipping, ports and logistics using advanced statistical concepts. To offer econometric modelling techniques, skills and experiences for conducting empirical research for shipping and port management. To apply quantitative models, with real market data and statistical software, in order to find a solution from complex transport and logistics problems, having an emphasis given to shipping and port industries. To develop optimization techniques for enhanced decision-making capabilities in the maritime business and management.

SPM 503 **Maritime Marketing and Logistics** **8 EC**

To discuss, in the context of global maritime transport, the concept and development of modern marketing, and logistics and supply chain management. To examine the evolving position of shipping and ports in the global logistics and supply chains. To introduce a series of conceptual models and analytical tools as well as decision-making processes of marketing and logistics management and their applications to the shipping and port sector. To conduct an industry-specific case study.

POR 104 **Port Management and Investment** **8 EC**

To discuss public interests in ports and the relationships between port and hinterland. To review port governance models and reform tools. To discuss port pricing concepts and their implementations in practice. To discuss the application of finance theory and techniques in port investment, to comprehensively evaluate the viability of an investment proposal including the inherent risks in a project and the actions to mitigate them. To conduct case studies in a way to enhance decision-making capability on port investment.

POR 105 **Port Operations and Technology** **8 EC**

To discuss the concept of port performance and related factors for measuring performance. To understand the challenges in terminal operations management. To provide quantitative models for analyzing terminal capacity and operational performance. To apply simulation methods for optimizing terminal capacity and operational planning. To examine the impacts of digitalization on port logistics through community collaboration. To discuss digital transformation of port-related business.

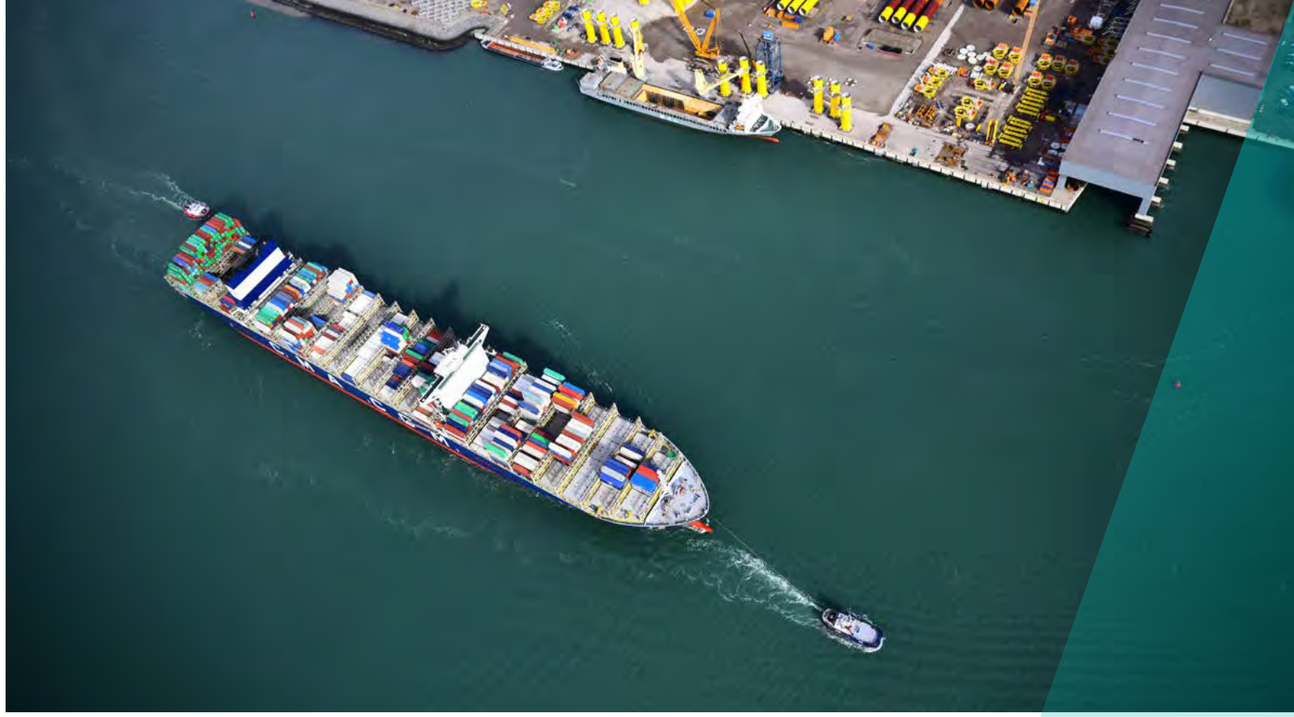
FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES

SHIPPING MANAGEMENT & LOGISTICS

This specialization has been designed to provide the necessary knowledge and resources to build a successful career in shipping management and maritime logistics. It provides a comprehensive understanding of shipping and logistics management by covering both the conceptual knowledge and contemporary business practices. This specialization is ideal for those aspiring to work as shipping and maritime logistics manager in both public and private organizations.



SPM 505 **Introduction to Maritime Business and Management** **8 EC**

To provide an overview of global seaborne trade, trade patterns and development for liner and tramp (dry bulk and tanker) services. To provide a fundamental understanding of maritime business and management. To introduce modern shipping and port management from commercial, operational, technical and human perspectives in international maritime transport and logistics and their importance to (inter)national and/or regional economies. To exchange a series of views with industry professionals and discuss the latest challenges, key performance indicators, and implementations in practice. To introduce the basis of data-driven business management in a maritime context.

SPM 502 **Maritime Analytics** **8 EC**

To introduce economic models and market analytical tools in shipping, ports and logistics using advanced statistical concepts. To offer econometric modelling techniques, skills and experiences for conducting empirical research for shipping and port management. To apply quantitative models, with real market data and statistical software, in order to find a solution from complex transport and logistics problems, having an emphasis given to shipping and port industries. To develop optimization techniques for enhanced decision-making capabilities in the maritime business and management.

SPM 503 **Maritime Marketing and Logistics** **8 EC**

To discuss, in the context of global maritime transport, the concept and development of modern marketing, and logistics and supply chain management. To examine the evolving position of shipping and ports in the global logistics and supply chains. To introduce a series of conceptual models and analytical tools as well as decision-making processes of marketing and logistics management and their applications to the shipping and port sector. To conduct an industry-specific case study.

SHM 104 **Shipping Management and Strategy** **8 EC**

To provide advanced knowledge of shipping management and strategy at a company level and discuss an aspect of inter-related management and strategy/policy dimensions in the shipping industry. To introduce management concepts, models and tools applicable to shipping companies. To examine the organizational and strategic dynamics of business units in the context of shipping companies for achieving business sustainability. To discuss managerial and strategic challenges facing the shipping sector with practitioners. To conduct case studies from the practical world.

SHM 105 **Shipping Finance and Risk Management** **8 EC**

To examine the characteristics of the shipping industry from an investment and finance perspective. To explore the availability of bank finance, credit analysis and the alternative sources of ship finance, private and public equity, high-yield bond markets, leasing and mezzanine ship finance. To provide advanced knowledge of shipping financial management and the impact of economic variables on shipping business. To discuss business and financial risks associated with shipping companies and offer optimal risk management solutions for economic sustainability. To conduct exercises and case studies from the real world.

FST 101 **Field Studies** **4 non-degree EC**

To provide a range of field study opportunities to demonstrate the application of the theory taught in the specialization subjects. Students travel to major maritime destinations that offer valuable insights into organizational practices and networking opportunities with professionals around the world.

SPECIALIZATION STUDIES IN SHANGHAI

INTERNATIONAL TRANSPORT AND LOGISTICS (SHIPPING & FINANCE)

This specialization is delivered in Shanghai, China, by WMU. It has been designed to extend WMU's professional education to a new and thriving clientele from the region and beyond, and to meet more of the maritime industry's demand for high-level specialized professionals. It has been created specifically for the maritime market in China. This specialization is not accredited by the Government of Sweden, as it is taught entirely in China.

The programme is taught entirely in English, and the entry requirements, grading system and quality assurance processes are those in force at WMU. The programme is intensive, and is taught over 14 months from May each year, and ending in July of the following year. The programme is made up of 80 degree credits. Each specialization subject carries 8 EC, aside from the Dissertation, which carries 20 EC.

Foundation Studies and the Dissertation are identical to those taught in Malmö. The Specialization Studies consist of the following subjects:

ITL 117 **Managerial Accounting and Decision Making** **8 EC**

To introduce the concepts and principles of financial accounting and management accounting for supporting business decision making. The roles of balance sheets and income statements are discussed, and the principles applied to financial transactions of monetary assets and revenue, cost of sales and inventory, fixed assets, debt and equity are explored. The statement of cash flow is presented. The use of accounting information for short-term managerial decisions is analysed and explored in the context of recent developments. Furthermore, decision-making techniques incl. quantitative methods and statistics are introduced. Through exercises of shipping related cases, students develop the capacity to define a problem and resolve it using the quantitative methods and techniques. The subject aims to develop skills and provide the tools necessary to conduct accurate accounting reporting and effective quantitative analysis for managerial decision making in the maritime industry.

ITL 118 **Shipping Finance and Risk Management** **8 EC**

To discuss the problems and alternative methods involved in ship finance and investment appraisal. Financial evaluation methods are addressed, and students are expected to analyse the general principles of maritime financial management and the impact of economic variables on the financial operations of maritime business organisations. To undertake tasks on risk analysis and management, traditional methods and modern financial instruments are presented with a focus on investment decisions of shipowners. The introduction of freight derivatives (FFAs amongst them) has made risk management for shipping companies more flexible and cheaper than traditional methods. Futures, forwards, options and swaps are analysed. Modern decision-making tools, such as Value at Risk (VaR), for whether financial and freight derivatives should be used to manage risks, are also explored.

Fees and Costs

The tuition fee for the next intake to the programme will be RMB 105,000. The fees for the programme are affected by currency fluctuations and may rise each year. In addition, a student needs a minimum of around RMB 80,000 to cover living costs in Shanghai for the whole study period (accommodation, food, books and study material and so on).

More Information

For more information about the programme, please see **https://www.wmu.se/programmes/msc-shanghai**

ITL 119 **Fleet Management and Decarbonization** **8 EC**

The core competencies a ship manager must have to operate competitively and effectively in an increasingly challenging marketplace are discussed, including some of the principal tools and techniques used. It reviews the challenges, works through the key competencies, and utilizes a case study where the students work in groups to prepare a 'newco' business plan. To understand the decarbonisat on challenges and opportunities for the shipping business, the subject also introduces the current standards and requirements concerning marine environment protection, then discusses the socio-technical transitions in shipping and related stakeholders, and concludes with an analysis of the business risks of decarbonization strategies under policy/market uncertainties.

ITL 116 **Maritime Logistics and Supply Chain Management** **8 EC**

The logistical challenges of maritime entities are discussed and aspects of successful ship ownership, operation, and management are examined. The stakeholder analysis will include ship owners and operators, port and terminal owners and operators, 3PLs, charterers, container and other marine equipment leasing companies, and a host of other auxiliary service providers. Furthermore, to discuss contemporary logistics and supply chain management in the broad context of global economies and businesses, this subject explores their critical role in the overall performance of companies, and examines the influence of various logistics and physical distribution elements, including freight transportation, on local, regional and international economies.

ITL 115 **Globalisation and Digital Transformation of Maritime Transport** **8 EC**

To introduce key concepts in international economics including exchange rate, the trade balance and the role of the WTO, while stressing the importance of navigating in an increasingly globalized business environment. It explores the international implications of economic policies and highlights the growing significance of international economics in today's interconnected world. In addition, the subject examines the driving forces behind the on-going maritime technological revolution. It covers the fundamentals of digital technologies and their applications in maritime operations, differentiating between digitization, digitalization and digital transformation through relevant case studies. Designed to equip students with essential skills and tools, the subject aims to foster the ability to contribute to value-driven maritime business development in a rapidly evolving global and digital landscape.

Field Studies and Seminars

As part of the programme, students are offered the chance to take part in field study visits; destinations include Port of Shanghai, the Shanghai Shipping Exchange, and a number of shipping and logistics companies (subject to change). Students also attend a number of seminars.

SPECIALIZATION STUDIES IN DALIAN

MARITIME SAFETY & ENVIRONMENTAL MANAGEMENT

This specialization is delivered in Dalian, China, by WMU. It has been designed to extend WMU's professional education to a new and thriving clientele from the region and beyond, and to meet more of the maritime industry's demand for high-level specialized professionals. It has been created specifically for the maritime market in China. This specialization is not accredited by the Government of Sweden, as it is taught entirely in China.

The programme is taught entirely in English, and the entry requirements, grading system and quality assurance processes are those in force at WMU. The programme is intensive, and is taught over 14 months from May each year, and ending in July of the following year. The programme is made up of 80 degree credits. Each specialization subject carries 8 EC, aside from the Dissertation, which carries 20 EC.

Foundation Studies and the Dissertation are identical to those taught in Malmö. The Specialization Studies consist of the following subjects:

MSEM 114 **Search & Rescue and Casualty Investigation** **8 EC**

Given the nature of maritime transport, some accidents may present large-scale threats to the safety of life, property and the environment, resulting in serious consequences. To minimise such impacts, a crisis management scheme, contingency plan and search and rescue (SAR) capability must be in place. This subject provides basic knowledge of crisis management with an emphasis on its application in the maritime sector and, in particular, on SAR. The fundamental precepts of safety and risk are introduced, including risk assessment, safety and Formal Safety Assessment (FSA) as the main tool in the IMO rule-making process. In addition, the relationship between risk assessment and maritime casualty investigation is explored. Students are expected to apply essential tools for considering all relevant factors involved in the development of maritime accidents, such as human and organisational factors.

MSEM 115 **Impact of Maritime Technology and Digitalisation** **8 EC**

To examine the evolution of innovations and technological development in the maritime transport sector including shipbuilding, marine engineering and information & communication technology. The nature, scope and possibilities of technological solutions to the development issues are discussed, and problems encountered by today's maritime organisations, particularly in the areas of maritime safety, security and environment protection are analysed. Students are expected to analyse how maritime organisations, public or private, can best be organised to provide an environment for continuous innovation. To that end, the previous maritime industry and technological revolutions are reviewed, the digital nature of maritime safety administration activities is analysed and key digital technologies are examined. Digital technologies are investigated to consider how they can be implemented to transform maritime administrations.

Fees and Costs

The tuition fee for the next intake to the programme is expected to be RMB110,000. The fees for the programme are affected by currency fluctuations and may rise each year. In addition, a student needs a minimum of around RMB 60,000 to cover living costs in Dalian for the whole study period (accommodation, food, books and study material and so on).

More Information

For more information about the programme, please see **https://www.wmu.se/programmes/msc-dalian**

MSEM 116 **Maritime Energy and Environment Protection** **8 EC**

To provide students a basic understanding of ship energy needs for propulsion and the environmental impacts. To examine the existing and anticipated future technological innovations, with a particular focus on the mitigation of GHG and pollutant emissions from energy use. To understand the decarbonisation challenges and opportunities for the shipping business. To discuss current standards and requirements concerning marine environment protection in the context of maritime transport. Various marine pollution sources will be analysed, such as pollution caused by oils, chemicals in bulk, harmful substances in packaged form, sewage, garbage, and other marine pollutants. The MARPOL Convention and its six Annexes will be explained.

MSEM 117 **Maritime Safety and Human Factors** **8 EC**

To provide students with comprehensive theories and knowledge with respect to maritime safety standards. The framework of the international maritime safety administration is introduced briefly and the history of SOLAS is discussed. A general introduction to the STCW Convention is provided and Chapter VIII of the STCW Annex is specifically addressed. The subject provides theoretical and practical knowledge on the implementation of maritime standards. It aims to develop capacity for participation in activities involving decision making with respect to national and international regulations. The human element will be defined and described and the relationship between the human element and system-ship will be examined along with factors affecting human performance. Notions such as the socio-technical system, complexity and context will be addressed. Relationships with international instruments will be highlighted. Practical examples will assist the presentations.

MSEM 118 **Policy and Legal Issues in Maritime Administration** **8 EC**

To explore how international shipping is governed and its impact on industry performance in terms of efficiency, sustainability, safety and labour conditions. It introduces the governance theory and discusses the involvement of both public and private actors. It studies the main processes for shipping governance, incl. policy-making, implementation and enforcement as well as market- and network-based governance processes. It provides analytical tools to engage in and shape maritime policies. Selected legal issues and mandates which typically feature in the functions of a national Maritime Administration are analysed, with the applications of international maritime convention instruments and domestic laws as appropriate.

Field Studies and Seminars

As part of the programme, students are offered the chance to take part in field study visits; destinations include ships, ports and maritime administrations. Students also attend a number of seminars.

DISSERTATION

All students write a dissertation related to a global, regional or national issue relevant to their area of study. The dissertation topic and proposal must be approved by the University, and may involve original research, or be an analysis of a topic based on secondary sources. Students start the process in the first term; special arrangements will be made for students following the accelerated programme.

Students may write an individual dissertation, or may produce a longer piece of work in pairs or trios, with the University's approval. The dissertation provides an opportunity for originality in developing and/or applying ideas, and applying knowledge and understanding how to solve problems. It also develops skills in communicating conclusions, and the knowledge and rationale underpinning these, clearly and unambiguously.

RES 420	**Dissertation Research** To develop rigorous skills of theoretical and applied research, analysis and writing through in-depth study of a chosen subject or problem leading to the production of a dissertation at Master's level.	**20 EC**

MPHIL IN MALMÖ AND MALTA

INTERNATIONAL MARITIME LAW AND OCEAN POLICY

INTERNATIONAL MARITIME LEGISLATION AND OCEAN POLICY

The ocean is under threat from human activities, arising in part from the lack of proper governance of the waters within and beyond the limits of national jurisdiction. There is an urgent need to examine and reconsider the current regime to seek a secure, stable, safe and sustainable ocean governance for the 21st century.

The innovative MPhil programme has been designed in partnership by IMO's two sister institutions, WMU and the IMO International Maritime Law Institute (IMLI) in Malta, to play a part in ensuring the future sustainability of the world's oceans in accordance with the UN 2030 Agenda for Sustainable Development. The two-year programme is designed to train maritime experts, immersed in the UN system structure and goals, who can advocate for the policies and legislation to transform the world's oceans and support their sustainable development. The programme had its first intake in 2017.

PROGRAMME DETAILS

Students spend the first academic year in Malta from October to June/July, and follow one of IMLI's well-established programmes: either the LL.M. in International Maritime Law or the M.Hum. in International Maritime Legislation. The full details of both programmes can be found on IMLI's website (**www.imli.org**) and are organized under the following headings:

- Introductory Courses
- International Law of the Sea
- International Marine Environmental Law
- International Maritime Security Law
- Shipping Law
- Maritime Legislation
- Dissertation/Research Project (supervised jointly by IMLI and WMU) reflecting the needs of students' home countries or regions for adequate ocean governance

Students are expected to use the non-teaching period from June/July to September to gather dissertation material. The students then spend the next academic year in Malmö. The first, Foundation term provides the basics of maritime knowledge, and is followed by the Specialization Term in Ocean Sustainability, Governance and Management (see page 30 for details of the subjects).

The programme is taught entirely in English. The standard programme consists of 140 EC, 68 EC at WMU and 55 EC at IMLI, plus a further 17 EC for the dissertation/ research project. Students who already hold a relevant postgraduate qualification may apply to be exempted from the first term at WMU to allow them to join the accelerated programme, which carries 116 EC.

FIELD STUDIES AND SEMINARS

As part of the programme, students will take part in field study visits that link theoretical knowledge to practical experience. Typical destinations include Sweden, Denmark, the UK including IMO (London) and the Netherlands. Students also receive complimentary attendance at the international conferences organized annually at IMLI and WMU.

ENTRY REQUIREMENTS

Applicants must hold a first degree in law or in a discipline related to maritime law, and an internationally recognised test of English language proficiency. They are also expected to have professional experience.

FEES AND COSTS

The fee for the MPhil programme is Euro 40,000 (to be confirmed) in total; this covers tuition, field studies, and the required health insurance. Students also need to have funds for their living expenses. These will be around USD 1,500 per month.

APPLICATION PROCESS

The application form for the programme can be found on the IMLI website (**imli.org**). It must be submitted as a hard copy, along with evidence of payment of the €150 application processing fee to:

The Director
IMO International Maritime Law Institute
University of Malta Campus
Msida MSD 2080
Malta

DOKTORSEXAMEN I MARITIMA STUDIER

PHD IN MARITIME AFFAIRS

WMU's PhD programme offers students the opportunity to carry out research across the maritime and ocean fields, but with an emphasis on issues related to the International Maritime Organization's mission of maritime safety, security and marine environmental protection. Our PhD programme offers unrivalled access to international maritime and ocean experts both inside and outside academia, and to organizations working at the forefront of research and development.

PhD students have come to WMU from industry, academia and the government sector, and have completed their doctoral dissertations in a very wide range of subject areas, from the development of marine plastic debris monitoring programs to sustainable port supply chain integration; from policy innovation as the cornerstone of energy transition, to climate change aspects.

THE CREDIT SYSTEM

The PhD programme follows the standard Swedish PhD structure. It consists of 240 ECTS credits completed usually over a registration period of three to six years. Candidates may be based at the University or elsewhere, usually at their place of employment.

Within the time limits of three to six years, candidates may carry out doctoral research at their own pace, which can also vary during their period of enrolment. For example, candidates may choose to spend one year conducting research at WMU full time, and then return home to complete their research over a longer period, with short visits to the University for progression seminars, classes and meetings.

The PhD programme is made up of appropriate third-cycle taught subjects totalling 60 EC and a doctoral dissertation which carries 180 EC. Candidates earn mandatory credits from the subjects Research Methods (8 EC), PhD Portfolio (12 EC) and Teaching and learning in HE in the 21st century (4 EC) as well as an additional 16 EC for the progression seminars.

A further 20 EC of elective courses are selected by the candidate in coordination with the PhD supervisor(s). In addition to the PhD subjects delivered at WMU, credit may be awarded for PhD subjects taken at other Swedish and European universities, subject to the approval of the Director. The taught subjects, proposed time-table, planned conference participation, and status of dissertation research form part of the candidates' Individual Study Plan (ISP).

1 ECTS credit (EC) is approximately 25 study load hours. One academic year is at least 60 EC, or 1600 to 1800 study load hours per year. For someone who is studying part-time, the average study load will vary.

PROGRESSION

During the first phase of doctoral studies, candidates develop their research proposals. It is expected that these will change and develop from the original plan submitted at the moment of application. At the end of this initial period, the first progression seminar is held, at which candidates each present their research proposals.

Throughout the doctoral programme, further progression seminars are held where the candidates present their work to date and their research plans for the next period.

After every seminar, the Progression Board meets, and considers the candidate's progress. At this Board meeting, decisions are taken as to whether the candidate is to be permitted to progress to the next stage of the research.

Each PhD dissertation is assessed by a specially established Examination Board, consisting of two external examiners and one internal examiner. The oral examination itself is led by an opponent, a senior and well recognized external expert in the relevant field, from another university or established organization.

A candidate's enrolment can be terminated at any point if his/her progress is not considered to be satisfactory.

ADVANCED STANDING

A candidate who has completed part of a doctoral degree elsewhere may transfer into the WMU programme with advanced standing. Their period of enrolment at WMU will vary in line with the amount of research they have already completed, but the minimum permissible period of enrolment must include at least two progression seminars, 20 EC of electives and the dissertation. A candidate with advanced standing must therefore be registered for at least 12 months.

SUPERVISION

All doctoral students have a principal supervisor who is a member of the resident faculty. According to the topic of research, a student may also have a co-supervisor, who may be a member of the resident faculty, a member of the research staff, a Visiting Professor or a suitable person from outside the University.

APPLICATION FOR ADMISSION

All candidates must complete their applications online through the WMU website, attaching a detailed research proposal outlining the objectives and methodology of their research. In addition, they should arrange two letters of academic reference from people familiar with their suitability for doctoral research. Certified copies of transcripts and certificates (including the results of an internationally recognized test of English language) supporting the qualifications listed in the application, must be uploaded.

When an academically cleared candidate has paid the first fee instalment, enrolment can be finalized. At this point, each candidate will receive a medical report form, which must be returned to the University, along with a formal declaration that the candidate accepts the conditions of his/her enrolment.

ENTRANCE REQUIREMENTS

The Admissions Board will consider only those applicants who meet the minimum general entrance requirements, which are:

- a Master's degree, with a dissertation, in a relevant discipline, or an equivalent university qualification
- competence in English language, demonstrated by an internationally recognized standard test
- computer competence, at minimum in the use of the Microsoft Office package

The Admissions Board will select only the best-qualified candidates, taking into account all their qualifications and achievements as well as compatibility with WMU's research interests and the availability of suitable supervisors. The Admissions Board may require applicants to appear for an interview, either on-campus or through remote video, as part of the admissions process.

TESTS OF ENGLISH

Applicants must offer one of the following tests of English language:

Test of English as a Foreign Language (TOEFL)

96+ in the internet-based test.
590+ in the paper-based test.
WMU's TOEFL institution code is 9198.

International English Language Testing System (IELTS)

Band 7.0 or above.

Cambridge Examinations

Cambridge Proficiency Examination at grade A or B.

GCE O-level or the equivalent

A good pass grade.

More information on these examinations may be obtained through the following websites:
www.toefl.org
www.ielts.org
www.cambridgeesol.org

RESEARCH PRIORITY AREAS

Doctoral research at WMU falls mainly within one of the following research priority areas (RPAs), covering both maritime and ocean streams. Additionally, the WMU programme also offers excellent opportunities for interdisciplinary projects, allowing doctoral candidates to pursue their own, and their organization's, particular interests.

Environmental Impact of Maritime Activities

This RPA addresses the critical challenges posed by climate change and other anthropogenic stressors on the marine environment and biodiversity. The focus is on sustainable development, as well as understanding and mitigating the adverse effects of maritime activities, such as shipping, fishing, and resource extraction. Research in this area will be interdisciplinary, delving into the multifaceted impacts of maritime activities on the marine environment. Research projects are aligned with the United Nations Agenda 2030 and the Sustainable Development Goals.

Maritime and Marine Technology and Innovation

This RPA interrogates developments of technology in ship design and operations (including the evolution of automation and digitalization), education and training (including e-learning), ship safety, information and communication for ship business (e-documentation) and its effect on the social, legislative and administrative dimensions of shipping. The cross-cutting nature of technology and innovation establishes an almost universal link between this RPA and all the other RPAs.

Maritime Economics and Business

This RPA focuses on the optimization of shipping, ports and their sustainable management from economic and logistics/supply chain perspectives. It explores all areas of shipping and port management, and offers the chance of carrying out in-depth investigation within the fields of maritime economics and policy, shipping and/or port operations and management, and shipping finance and portfolio management, as well as in such related fields as global supply chains and maritime logistics, port governance and performance, and maritime analytics using big data.

Maritime Energy Management

This RPA seeks to advance the knowledge in the Maritime Energy Management field by conducting world-class fundamental and applied research in the thematic areas of energy efficiency, regulatory frameworks, renewable energy, social factors related to energy, the economics of energy and energy-related technology/innovation. The thematic areas will be addressed using a ship life-cycle perspective (design, production, operation and recycling) and in consideration of the impacts of shipping on oceans, through ports and to shipyards.

Maritime Law, Policy and Governance

This RPA focuses on maritime legislative and administrative requirements and the policies that are associated with them at the international, regional and national levels. Of particular interest is the inquiry into processes related to the design, formulation, and evaluation of maritime law and policy. This includes examining performance monitoring systems using such tools as benchmarking and auditing. Also of particular importance is the research into implementation mechanisms, e.g., under the legal enforcement regimes prescribed by the IMO, ILO and other UN bodies.

Maritime Safety

This RPA focuses on complex concepts and models of safety and their influence on operations at sea and ashore. It will examine digitalization, artificial intelligence and machine learning in a simulation context. It will also explore how safety and security can be improved through policy, legislation, social dynamics (human factors/ergonomics), accident aetiology, and simulation. The research area also covers the increasing disruption by technology of traditional approaches to maritime operations and the consequences of this on operational safety, security, human factors and labour supply.

Maritime Social and Labour Governance

This RPA focuses on organizational behaviour and decision-making processes by examining dynamics of corporate interaction, in particular in global networks and supply-chains, and with humans. It also seeks to interrogate issues related to individuals and organizations and their development through education, training and organizational learning. It aims to create a better understanding of the interactions between humans and organizations in order to optimize well-being and overall performance and in particular the role of education in this regard.

WMU-Sasakawa Global Ocean Institute

The WMU-Sasakawa Global Ocean Institute carries out and coordinates ocean research in line with its vision to act as an independent focal point for the ocean science-policy-law-industry-society interface where policy makers, the scientific community, regulators, industry actors, academics, and representatives of civil society meet to discuss how best to manage and use ocean spaces and their resources in accordance with the UN SDGs. Through evidence-based research, the Institute seeks to provide new perspectives on how to address the manifold threats facing the ocean.

All the RPAs are considered with reference to the UN SDGs and IMO's current strategic directions which are, in turn, informed by the Organization's global survey on trends, developments and challenges (TDC), as well as WMU's Strategic Plan and its associated Business Plans.

TUITION FEES

The full University fee is USD 39,500, and is charged in four approximately equal instalments. The first instalment is paid on enrolment, while subsequent instalments are paid prior to the second, third, and fourth progression seminars. The tuition fee includes supervision, library and laboratory access, IT support, and medical, life and accident insurance.

In addition, a student needs around SEK 17,000 per month for rent and general living costs in Malmö, plus air tickets. Other sources of financial support (for example, the US Department of Veterans Affairs) may be accessed by candidates.

LIFE IN MALMÖ

MALMÖ

Malmö is Sweden's third largest city, situated in the southern-most province of Skåne. The city offers good shopping facilities, theatres, bars, cafés and restaurants, as well as an outstanding symphony orchestra, art galleries and museums. Malmö has a big student population, and has been Sweden's Student City of the Year by the national Association of Student Unions, in recognition of the excellent lifestyle the city offers. The city is surrounded by rolling countryside and some of the best beaches in Sweden. Malmö's sports provision is excellent, whether you want to watch or take part. Its football team is one of Sweden's best.

Although Malmö may look typically Swedish, with its historic buildings and canals, it is also very cosmopolitan; many of its citizens were born outside Sweden, and over 180 different countries are represented in the city. It is a green city known for its parks and gardens and for its responsible attitude to sustainable development. The Western Harbour area of Malmö has been studied by many international teams looking at its innovative architecture and landscape design.

Malmö has strong historic bonds with the maritime industry; it was an important medieval sea-port and had a thriving ship-building industry for many years. It now has a knowledge-based economy that places a premium on learning and research, being home to its own University, several faculties of Lund University and to WMU. The city has developed high-technology industries to make the best use of its educated workforce. It is home, for instance, to a remarkable number of computer gaming companies.

The Öresund Bridge provides Malmö with a direct road and rail link to Copenhagen and its international airport, just 30 minutes away by train. Copenhagen's historic centre has all the attractions you would expect from any European capital, as well as some special features of its own, like the Tivoli Gardens.

The City of Malmö, as WMU's host, provides the University's building in the centre of the city, which offers outstanding facilities in a spectacular building.

ACCOMMODATION

WMU is able to provide excellent student accommodation at the Henrik Smith Residence, run by on-site staff, at a rent of approximately SEK 5,850 (2025 figure) per month. All WMU students can be accommodated on one site, although during the First Term, students may to be required to share a room until the senior class has graduated and departed. The Henrik Smith Residence is less than three kilometres from the main University building, and only a short walk or bus-ride to the centre of Malmö.

The Residence has a range of facilities, including a lounge area for social meetings or group work, study rooms, facilities for playing pool and table-tennis, a sauna, laundry facilities and indoor storage space for bicycles.

PASSPORTS AND RESIDENCE PERMITS

A residence permit cannot be issued for a period longer than your passport validity. If you need to renew your passport and residence permit while in Sweden, you will not be allowed to leave the country during the processing. This may prohibit you from taking part in field studies abroad. We therefore recommend that you make sure that your passport is valid at least as long as your whole study period.

You should apply for a residence permit as soon as you get your enrolment documents, even if you do not need a visa to enter Sweden (note: if you are an EU national, different rules apply). The Swedish residence permit allows travel to Sweden via other Schengen countries without obtaining additional or transit visas.

You should be aware that airlines will refuse to carry passengers without a valid residence permit or entry visa for their country of destination. It is therefore very important that you should start to apply for your residence permit as soon as possible. The process can often take three months or more, and the University is not able to assist incoming students with this.

Students are assisted in obtaining the visas needed for field studies abroad.

WMU students' families follow the same procedures as any other visitor coming to Sweden and the process for obtaining a temporary residence permit can be very lengthy. Processing permits for whole families takes longer than for individual students. Your highest priority is to arrive on time for the start of your programme, which begins in full strength on the advertised date. Please see the section on **Should you bring your family to Malmö?** for full details.

HEALTH CARE

The University takes out medical insurance to cover treatment in Sweden, as well as emergency treatment during field studies abroad. This health insurance covers sudden illness and accidents; it does not cover pre-existing conditions not mentioned on your pre-enrolment medical report. The insurance will also refund students the cost of medicines available only by prescription.

The insurance does not cover treatment from an optician, and gives only limited dental cover. Incoming students must read carefully the Fees and Facilities booklet, which contains the latest information available.

Students have free access to a sports centre close to the University and WMU can facilitate membership at a gym very close to the student residence.

If you are planning to bring your family to join you in Malmö, it is compulsory to take out private medical insurance to cover them. The University insurance for you cannot be extended to your family. (See the section below on **Should you bring your family to Malmö?** for more information.)

STUDENT SUPPORT SERVICES

The WMU community is welcoming and supportive. Senior students and staff join in helping newcomers settle and find their way. An orientation programme is given to each group of new students to provide an introduction to the University and living in Sweden. This is supplemented by a comprehensive information and advice service.

When you arrive, the Student Council arranges for you to be met by a 'buddy' – another student who can help you with the practicalities of settling in, and who can make sure you find your feet immediately. Later, you will be invited to give similar help to new students.

The University provides students with travel insurance for University travel during their study period, in addition to the medical insurance described above. Students are assisted in obtaining the visas needed for field studies abroad.

STUDENT LIFE

As a member of the WMU community, you can benefit from a broader experience both as a professional and as an individual. The University offers you the chance to establish friendships with people from all over the world, and to become, temporarily, a member of Swedish society. Students are encouraged to take full advantage of all that their time at WMU has to offer.

Students at WMU have a voice in the affairs of the University through the Student Council, which has special officers responsible for all areas of student life, from sports activities to academic affairs. You can get involved in all the things that interest you.

You may wish to bring your national dress with you when you come to Malmö. While at WMU, you may be asked to represent your country on a number of occasions, and many students are proud to wear their national dress.

ALUMNI

When you graduate, we make sure you can keep in touch with the University through webinars and online discussion forums. Many countries have lively alumni associations, which are part of a global network.

Some graduates have returned as resident academic staff or visiting lecturers. Many meet again at conferences, seminars and IMO meetings. Social media provides another forum for continuing professional collaboration with WMU contacts, as well as for keeping up informally with friends made in Malmö. The networking opportunities offered by studies at WMU are invaluable and extend far into the future.

SHOULD YOU BRING YOUR FAMILY TO MALMÖ?

Many students wish to bring their families to Malmö, but in reality very few can afford to do so. It is costly and making arrangements for your family is time-consuming, especially in a foreign country. Students find their studies very demanding and difficult to balance with family life.

If you decide to bring your family you should in any case arrive here alone. This will allow you to make suitable arrangements for their accommodation, as children are not allowed to live at the Student Residence at any time. The cost of renting a basic apartment is currently around SEK14,000 per month, plus utilities. The rental market is very challenging, with strong demand and low supply.

The arrangements made by the University apply only to students, and not to dependants. If you bring your family, you must arrange financial support for them, quite apart from any fellowship that you may yourself hold. Your home government or employer is expected to continue to pay your salary while you are studying at the University, particularly to support your family, whether they remain in your home country or come to Malmö. Such arrangements are entirely a matter for students and their sponsoring government/organisations, and do not involve the University in any way.

If you intend to bring your family to Malmö, you must obtain the necessary immigration clearance for them to enter Sweden before they leave your home country. You must be able to demonstrate to the Swedish authorities that you can support your family financially, in line with Swedish regulations, and that you can afford the necessary health insurance for the whole period of their visit. Such insurance is quite expensive. The Migration Agency also needs to be satisfied that you and your family will leave Sweden at the end of your approved period of enrolment.

If you are joined in Malmö by your husband or wife only, he or she may share your accommodation in the Residence from the start of the second term in January. Please remember that the apartments were designed and are equipped to accommodate only one person comfortably. It is not possible for children to live at the Residence, even for short periods, and so families with children must arrange outside housing at their own expense.

Instead of bringing their families for the whole period of their studies, many WMU students arrange a shorter visit during the summer months or at graduation.

PROFESSIONAL EDUCATION BY DISTANCE LEARNING

The World Maritime University has a proven track record in offering programmes by distance learning, designed to offer flexibility to meet the educational needs of maritime professionals, organizations and administrations, and to build maritime capacity globally. Our distance-learning programmes are an indispensable investment for our students and a significant contribution to meeting the need for expertise across the international maritime community.

The distance learning programmes offer a blend of academic theory and business practice, and are delivered by the University directly, or in partnership with leading providers of maritime training and education: Lloyd's Maritime Academy (LMA) and DNV Maritime Academy. The knowledge gained can be transferred and immediately applied to the professional environment. The programmes are carefully designed and continuously revised to meet the changing educational needs in the maritime industry. The current programme portfolio includes a wide range of topics of current interest. Each programme carries European credits (under the ECTS) which may be accepted by other universities for transfer into their programmes.

Entrance Requirements

The basic entrance requirement is a Bachelor's degree. Non-graduates with approved professional qualifications or who have sufficient professional experience may also be considered. The normal definition of "sufficient professional experience" for all Postgraduate Diploma programmes is defined as responsible, managerial experience over a period of at least five years' duration. Competence in English is required, as evidenced by a standard, internationally acceptable examination of English.

Fees

Fees for the programmes cover, as appropriate, study materials, core textbooks, recorded lectures, seminars, scheduled examinations, tutorial support and feedback as well as WMU e-library access. The fees do not include the costs of personal travel and accommodation for the seminars, examination or graduation. Participants are responsible for the costs of any special arrangements they may request, such as an alternative examination location.

POSTGRADUATE DIPLOMA PROGRAMMES DELIVERED BY WMU

POSTGRADUATE DIPLOMA IN MARITIME ENERGY

Industry and governments around the world are engaged in the international effort to combat climate change, greenhouse gas (GHG) emissions and air pollutants while doing their best to achieve the targets of the UN Sustainable Development Goals. At the same time, there is a constant pressure towards cost-efficiency and market competitiveness. The Paris Agreement and stringent IMO regulations on air pollution along with the 2023 IMO GHG strategy mean that a vital reduction in GHG emissions is necessary over the coming decades. The programme responds to these drivers in a very timely manner and equips maritime professionals with technical and socio-economic-environmental knowledge relating to IMO's regulations on air pollution and potential mitigation measures to achieve a sustainable, (net)zero/low carbon and energy-efficient maritime future, in particular decarbonized long-distance shipping. For full details, including content, calendar, fees and payment system, and to apply for admission, please visit **https://www.wmu.se/programmes/maritime-energy**

The programme is endorsed by Wärtsilä, RINA and CETENA S.p.A

Programme Information	
Time frame	11 months
Credits	40 EC
Fees	USD 9,190 (USD 10,240 when paid in instalments)
WMU alumni are eligible for a 25% discount on this programme	

Programme Content

The programme consists of five modules each of which is a compulsory element of the programme, and which are assessed by five written assignments (each accounting for eight EC). During the programme you will have additional tutorial support from the programme coordinator and the five module leaders. Students are also invited to attend to IMO MEPC sessions.

Maritime Energy and Sustainable Development

Introduces the historical environmental discourse around the maritime industry and the development of legal frameworks on maritime energy. It discusses various rationales for maritime energy management as well as the concept of sustainability in shipping. From a goal-based management perspective, a human factors approach is visited to discuss science-oriented solutions. The module examines the role of technology and innovation to facilitate forward-thinking decision-making, science-policy interface and adaptation for a sustainable maritime transportation system.

Ships and Energy Efficiency

Discusses Chapter 4 of MARPOL Annex VI including EEDI, EEXI, SEEMP, CII, DCS along with IMO's Net-Zero Framework and the 2023 GHG strategy. It focuses on energy efficient operation of ships as well as energy efficient ship designs. Ship resistance components (viscous, wave-making, air and appendage) are discussed as well as methods for their reduction. Increasing propeller/propulsion efficiency and improvement of propeller-hull interaction are examined from an energy-efficiency perspective. Tutorials are provided to assess the impact of resistance and propulsion improvement methods on fuel consumption reduction.

Future Propulsion Technologies

Presents future alternatives to traditional ship propulsion, including renewable energy (wind- and solar-assisted propulsion and onboard power), alternative fuels (e.g. LNG, LPG, methanol, ethanol, dimethyl ether, biofuels, synthetic fuels and electro-fuels, ammonia and hydrogen) and electric power technologies, such as fuel cells and batteries, as a response to Chapters 3 & 4 of MARPOL Annex VI. Life-Cycle aspects are evaluated, innovations in the area of future propulsion technologies and the safety of alternative fuels are discussed, and an introduction to marine renewable energy sources such as ocean energy including tidal and wave power is provided.

Energy Conservation in Ports and Shipyards

Focuses on knowledge of energy management procedures and technologies in the framework of ports and shipyards. Port governance and its implications for the green development practice of ports. Theoretical and practical knowledge of the energy management framework is presented, including planning, strategy and leadership. Energy management systems are discussed, including certification processes such as ISO 50001, ISO 14001 and other relevant European certification systems. The quality management system (QMS) process and energy audit programmes. An overview of port finance and socio-economic investment techniques relevant for ports and shipyards are discussed. Circular Economy and industrial symbiosis approach within ports and cities context and latest trends.

Best Practices and Life-Cycle Perspectives

Best practices and case studies from the maritime industry are considered, from ports to shipping companies to engine manufacturers. The trade-off between the socioeconomic benefits and the reduction of air pollution is considered, and multiple criteria decision-making and its application in maritime energy context is discussed. Methodologies to support decision-makers in measuring environmental impact, for example of waste-to-energy processes, and mitigating climate change effects are considered, along with compliance with global regulations (e.g. IMO's Global Sulphur Cap). It provides an insight into the methods of Life-Cycle Assessment (LCA) and Life Cycle Costing Analysis (LCCA), in the context of the maritime field, to evaluate overall environmental and economic impacts. Tutorials are provided in areas such as a simplified methodology for evaluating the life-cycle CO_2 emissions of fuels or selecting the best alternative amongst the alternatives of compliance.

POSTGRADUATE DIPLOMA IN MARINE INSURANCE LAW & PRACTICE

This long-established programme is supported by IUMI (the International Union of Marine Insurance) and Hellenic Hull Management. The syllabus is updated on an annual basis, and reflects all the important aspects of the marine insurance sector which are relevant for the 21st century. The programme offers an outstanding academic foundation for professionals in the marine insurance industry to develop their expertise and their careers, as well as professionals planning to move into the field of marine insurance or the wider maritime sector. Practitioners are empowered to develop their insurance-related expertise and open up new career tracks. Maritime professionals planning to move into the field of marine insurance are offered a thorough understanding of this special sector of the maritime industry, including emerging trends driven by digitalization.

Chartered Insurance Institute
Recognised Prior Learning

This programme is also recognised by the Chartered Insurance Institute, and offers exemptions from some CII Diploma and CII Advanced Diploma professional examination.

Programme Information	
Time frame	11 months
Credits	40 EC
Fees	USD 6,150 (USD 7,200 when paid in instalments)

WMU alumni are eligible for a 25% discount on this programme

Programme Content

The programme consists of five modules each of which is a compulsory element of the programme, and which are assessed by five written assignments (each accounting for eight EC). During the programme you will have additional tutorial support from the programme coordinator and the five module leaders who are experienced marine insurance practitioners. Students are also invited to attend IMO LEG sessions.

General Principles of Marine Insurance Law

Offers essential fundamental knowledge of the founding principles of English marine insurance law. Marine insurance involves a specialized application of the law of contracts. However, substantive differences have emerged over time. The module examines the English Marine Insurance Act 1906 (as amended in 2015) as the main source of the applicable legislation. Where English law is applicable, this statute as applied to the contract (policy) between the parties will constitute the norms that govern the legal relationship between the parties. The foundation for marine insurance in other legal orders is also addressed.

Categories of Marine Insurance Cover

Provides an overview of the different categories of marine insurance. Emphasis is on the various standard marine insurance clauses in use in the English insurance market, with reference and comparison made to standard clauses used in other insurance markets. Additional focus is on marine property interests being exposed to risks (especially Hull & Machinery cover), and liabilities incurred by a vessel causing damage to cargo or crew on board the ship or to property outside the vessel. The module highlights the potential overlap of property insurance with third party liabilities, predominantly covered by ship owners' mutual insurance associations.

P&I Clubs and Mutual Insurance

Ship owners and ship managers have remained loyal to the Protection & Indemnity Club system for more than 150 years. Around 90% of the world's ship operators cover their potential liabilities to third parties in one of the Clubs of the International Group of P&I Clubs. P&I and liability insurance have a number of common features with other insurance covers as discussed in the first two modules. However, P&I insurance also has some unique elements, particularly in the way in which the Clubs are set up and operated within the concept of mutuality.

Marine Reinsurance and Modern Maritime Risk Management

Highlights the contractual arrangements for marine insurers to transfer accepted insurance risks to other insurance companies. First, it concentrates on the role of reinsurance – i.e. primary insurers entering into insurance agreements themselves to cover the risks of the underlying insurance. Second, it covers the wider aspects of maritime risk management, including the rising importance of digitalization, which materializes, for example, as maritime cyber risk, and ever-increasing automation processes in shipping.

Settlement of Claims and Understanding Related Maritime Liabilities

Building on the level of knowledge established by the first four modules, the final module focuses on practical and litigation issues related to maritime claims handling. It addresses, in particular, liability incidents that may result in claims procedures. To a large degree, the related claims procedures and rules have been developed by marine underwriters and P&I Clubs. But they are also influenced by legal and technical possibilities as well as related legal limitations. To deal with incidents that may result in claims procedures, the module focuses on the value and importance of close communication and information exchange between the assured and marine insurers.

PROGRAMMES DELIVERED IN ASSOCIATION WITH LLOYD'S MARITIME ACADEMY

LLOYD'S MARITIME ACADEMY IS PART OF KNECT365, A DIVISION OF INFORMA PLC, ONE OF THE WORLD'S LEADING BUSINESS INTELLIGENCE, ACADEMIC PUBLISHING, KNOWLEDGE AND EVENTS BUSINESSES.

For more information and to apply on-line, please see: **www.lloydsmaritimeacademy.com**.

Early-bird prices are available for both the programmes delivered in association with LMA:

LLM IN INTERNATIONAL MARITIME LAW

This LLM provides an advanced understanding of a specialist area of maritime law and enables practitioners in both the legal field and maritime industry to enhance their career prospects. It improves students' research and independent study skills as well as the ability to develop substantiated critical argument. It is open to students who have completed successfully the Postgraduate Diploma in International Maritime Law and who hold an LLB (or equivalent) degree.

Programme Information	
Time frame	12 months
Credits	30 EC, plus 60 EC from the Postgraduate Diploma programme
Fees	USD 10,410

Programme Content

The programme consists of two parts, and students are supported by an e-learning platform, where the programme coordinator will provide tutorial support and generate forum discussion. They are also invited to attend a one-day seminar in London. Research in law requires an understanding of the interrelationship between theory, method and research design, practical skills and particular methods, the knowledge base of the subject and methodological foundations. The first module prepares students for the Dissertation component, the topic of which focuses on an area of interest to individual students. Students will receive full guidance and support from the academic programme coordinator and the appointed supervisor throughout the dissertation writing process.

Part I: Researching International Maritime Law

Made up of a Literature Review, comprised of 2,500 words, which counts for 40% of the module marks, and a Research Proposal comprising of 1,500 words, which counts for 60% of the module marks.

Part II: A research-based Dissertation

Independent study, supported by access to two comprehensive handbooks giving extensive guidance, and the supervision of the academic coordinator and the appointed supervisor.

POSTGRADUATE DIPLOMA IN INTERNATIONAL MARITIME LAW

The programme has been designed to develop knowledge of international trade and maritime law. Students will increase their understanding of how commercial trade ventures may give rise to legal issues. With English law recognised internationally as the dominant legal system providing the basis for maritime and trade contracts, and with London as the single most important forum for settling disputes both through court litigation and arbitration, this programme studies law in relation to how it is applied in practice. This distance learning programme brings together the intellectual rigour of academia and the experience of leading legal practitioners, delivering the best Maritime Law Postgraduate Diploma available.

Programme Information	
Time frame	18 months
Credits	60 EC
Fees	USD 8,580

Progression and Awards

Students who pass all assessments at the required standard may be awarded a Postgraduate Diploma in International Maritime Law. Alternatively, a student who holds a bachelor's degree in law may continue to follow the programme leading to the degree of LLM in International Maritime Law.

Programme Content

The programme consists of an Introductory Module, eight Core Modules and a choice from four Specialist Modules. It is assessed by five written assignments and a final written examination consisting of two distinct papers. During the programme you will be invited to attend three optional seminars in London that provide additional support offered by the Module authors and the programme coordinator. Two webinars will also be delivered, one in respect of the structure of the programme and one on the hallmark of English law, the doctrine of judicial precedent.

Introductory Module:

- An introduction to the English legal system

Core Modules:

- International Trade Law
- Bills of Lading Contracts
- Charterparty Contracts
- Marine Insurance Law
- Admiralty Law & General Average
- Payment & Finance for International Trade
- Litigation, Arbitration, Mediation
- Conflicts of Laws and Forum Shopping

Specialist Modules:

- Ship Finance Law
- Oil and Chemical Pollution
- European Union Competition Law in Shipping
- The Four Pillars of Maritime Regulation

PROGRAMME DELIVERED IN ASSOCIATION WITH DNV

DNV IS THE WORLD'S LARGEST SHIP AND OFFSHORE CLASSIFICATION SOCIETY. DNV'S MARITIME ACADEMY PROVIDES AN EXTENSIVE PORTFOLIO OF TRAINING COURSES FOR THE MARITIME INDUSTRY. WITH THEIR GLOBAL NETWORK THEY ARE ABLE TO EXPLOIT BEST PRACTICES AND OFFER COMPREHENSIVE TRAINING PROGRAMMES.

POSTGRADUATE DIPLOMA IN EXECUTIVE MARITIME MANAGEMENT

Managers in today's extremely competitive maritime industry need to cope with continuous technical, regulatory and commercial development. They must be able to anticipate future opportunities and act proactively, armed with up-to-date skills and comprehensive knowledge if they want to retain their competitive edge. This programme, first offered in 2015, has been designed to provide a "boot camp" for managers. It is continuously updated to address issues of critical importance in the maritime industry across its operational, technical and commercial aspects. A major revision and update of the programme were made in 2021.

It consists of five modules, each of which is a compulsory element of the programme. Approximately every eight weeks a module will be completed with a final assessment and a new module will start. The programmes offer pre-recorded videos on an e-learning platform, self-assessment exercises, collaboration tools, discussion forums and WMU e-library access.

Programme Information	
Time frame	11 months
Credits	40 EC
Fees	Euro 8,580

Fundamental Maritime Economics and Contemporary Maritime Law:

The principles and trends in maritime markets are discussed to gain an understanding of maritime corporate and economic driving forces. The module includes presentations on maritime conventions and the new regulatory development in the shipping sector.

Shipping Market and Financial Management:

An overview of the shipping markets and their unique characteristics is presented, and the challenges and issues in the current maritime sector are examined. Advanced knowledge of shipping financial management and the impact of economic variables on shipping business organizations' financial operations are analysed.

Management, Organizational Behaviour and Leadership:

The nature of organizations and the processes inherent in them as they relate to individuals and groups are examined, and learners' appreciation of the significance of management and leadership in organizations when organizational effectiveness, sustainability and productivity are in view is increased.

Safe Shipping – Safety and Technology:

Two fundamental aspects of the modern maritime domain: safety in shipping and the digital transformation are explored, along with various safety and security challenges, how to identify them and how to manage risk.

Sustainable Shipping – Environment and Technology:

On the environmental aspects of the shipping industry – from carbon footprint to ballast water management, from antifouling to oil spills, along with relevant technologies and challenges faced in the aim of achieving sustainable maritime development are examined.

FACULTY MEMBERS 2025/26 ACADEMIC YEAR

President

M. Q. Mejia BSc (US Naval Academy), MALD (Fletcher), MSc (WMU), Tekn Lic, PhD (Lund), Distinguished Service Medal (Philippines)

Vice-President, Provost

S-H Moon BEng, MSc (Korea Maritime University), PhD (Cardiff), Master Mariner

Vice-President, Strategic Initiatives

J-U. Schröder-Hinrichs Dipl-Ing für Verkehrsingenieurwesen (Rostock), Dr-Ing (Wuppertal), Master Mariner

Director of the Global Ocean Institute

R. Long BCL (National University of Ireland), PhD (Trinity Dublin)

Professors

C. Aporta PhD (University of Alberta), BA (Universidad Nacional de Cuyo). Canadian Chair in Marine Environmental Protection

M. Arias Schreiber BSc (National Agrarian University, Peru), MSc, PhD (Bremen) Nippon Foundation Chair in Maritime and Ocean Socioecology

R. Baumler MSc (Artois), PhD (Evry), Master Mariner

D. Cheng BSc, MSc, PhD (Dalian Maritime University). Chinese Chair in Shipping Technology and Maritime Management

D. Dalaklis BSc (Hellenic Naval Academy), MSc (US Naval Postgraduate School), PhD (Aegean), AFNI, Distinguished Service Medal (Greece)

H. Jessen First German State Examination in Law (Christian-Albrechts-University Kiel), LLM (Tulane), Dr. jur (Martin-Luther-University Halle-Wittenberg), Second German State Examination in Law Nippon Foundation Chair in Maritime Law and Digital Change

J. Hollander PhD (Gothenburg) Nippon Foundation Chair in Sustainable Marine Management & Ocean Governance, Director of the PhD Programme

M. Kitada BSc (Kobe), Dip (Cardiff), PhD (Cardiff) Nippon Foundation Chair in Gender and Innovation

M. E. Manuel MSc, PhD (WMU), Master Mariner Nippon Foundation Chair in Maritime Education and Training, Academic Dean

F. C. Neat BSc (Edinburgh), PhD (Glasgow) Nippon Foundation Chair in Sustainable Fisheries Management, Ocean Biodiversity and Marine Spatial Planning

A. I. Ölçer BSc, MSc, PhD (Istanbul Technical University) Nippon Foundation Chair in Marine Technology and Innovation, Director of Maritime Research

D-W Song BA (Hons) (Korea Maritime University), MSc, PhD (Plymouth), CMILT Republic of Korea Chair

G. Theocharidis LLB (Aristotle University), LLM (Cantab.), Dr.iur. (Aristotle University), Advocate, Member of the Piraeus Bar, L.M.A.A. (SuppMemb)

Associate Professors

F. Ballini BSc, MSc, PhD (Genova)

I. Bartuseviene BSc (Kaliningrad State Technical University), MSc (Vilnius), MSc (WMU), PhD (Klaipeda)

CJ. Chae BSc (Korea Maritime and Ocean University, KMOU), MEng (KMOU), MSc (WMU), PhD (KMOU), Master Mariner

G. Chen BSc (Dalian Maritime University), MSc, PhD (Southern Denmark)

A. Fakhry LLB, LLM (Montreal), MMM (Dalhousie), PhD (Southampton), Advocate, Member of the Quebec Bar

A. Hebbar BSc (Bombay University), MSc (WMU), PhD (Tata Institute of Social Sciences), Tatrakshak Medal for Meritorious Service (India)

T. M. Johansson LL.B, LL.M (Lund) PhD (WMU)

K. Lagdami LLM, MSc, PhD (Nantes) ITF Seafarers' Trust Post

M. C. Romero Lares LLB (Andrés Bello), LLM (Tulane), PhD (Leibniz University Hannover)

A. Schönborn MEng, PhD (University College, London)

A. Stöfen-O´Brien BSc (Maastricht), LL.M (Kiel), PhD (Trier)

Z. Sun LLB, LLM (CUPL), LLM (Edinburgh), PhD (Cambridge)

Assistant Professors

J. Bolmsten MSc (Blekinge Institute of Technology), MSc (Copenhagen), PhD (IT University of Copenhagen) and Information Manager

E. D'agostini BA (Trieste), MSc (WMU), PhD (Korea Maritime and Ocean University)

A. Pastra BSc (Panteion), MBA (Cardiff), MSc (WMU), PhD (Brunel)

S. R. Sahoo BEng (Jadavpur), MSc (WMU), PhD (Reading)

Lecturers

M. Carrera Arce MSc (Barcelona), MSc (Deusto), PhD (Cantabria)

M. Canepa BSc, MSc, PhD (Genoa)

A. Pazaver MA, CTESL (Carleton)

A. Blaisdell BSc, MSc (Old Dominion, USA) (Seconded from the United States Coast Guard)

Adjunct Professors

M. Clintworth BSc (Liverpool), MSc (Newcastle), PhD (Strathclyde)

P. Cariou MSc (Rennes), PhD (Nantes)

External Examiners

E. S. Kritzberg MSc (Uppsala/Lund), PhD (Lund)

A. Sonesson BSc, PhD (Lund)

As at 1 July 2025

MSc PROGRAMME: APPLICATION AND PAYMENT

Submitting your Application

Make your application online at our website. Attach your supporting certificates as electronic documents.

If you are applying for donor funding:

- submit your application as early as possible – by the end of December for students who wish to join the ESSP, and by the end of February for those who wish to join the standard or the accelerated programme
- ensure that the application for donor funding from your employer and motivational statements are submitted

There are no cut-off dates for submitting your application

Paper applications are not accepted.

Fees and Financing

When your completed application has been considered by our Admissions Board, we will let you know whether or not you have academic clearance. Advice of academic clearance indicates only that a candidate has been selected by the Admissions Board on academic grounds. It does not indicate that a candidate can enrol; this can only be confirmed when the necessary finance has been secured.

The costs of studying at WMU are summarised earlier in this Handbook, and fuller details of financial arrangements can be found in the **Fees & Facilities** leaflet, which will be available from spring 2026.

Major international donors usually provide full fellowships, although there is a small number of tuition-fee only fellowships. Applicants' employers must apply for this donor funding. Several donors require that the candidate should complete a motivational statement in order to be considered. The blank forms for employers and candidates to complete can be found on our website.

Payments to the University

Payments to the University should be sent to:

Account Name:	**The World Maritime University**
Account Number:	**3968-77-02567**
IBAN Number:	**SE66 3000 0000 0396 8770 2567**
BIC Code:	**NDEASESS**
Bank Name:	**Nordea**
Bank Address:	**PO Box 24, SE-201 24 Malmö, Sweden**

Details of the transfer of funds should be sent to the University Registry by email (MSc@wmu.se).

Payment for the 14-month programme can be made in two equal instalments. The first payment must be made by the following dates:

- students attending the English & Study Skills Programme in June: 1 April 2026
- students joining the standard 14-month Programme in September: 1 July 2026

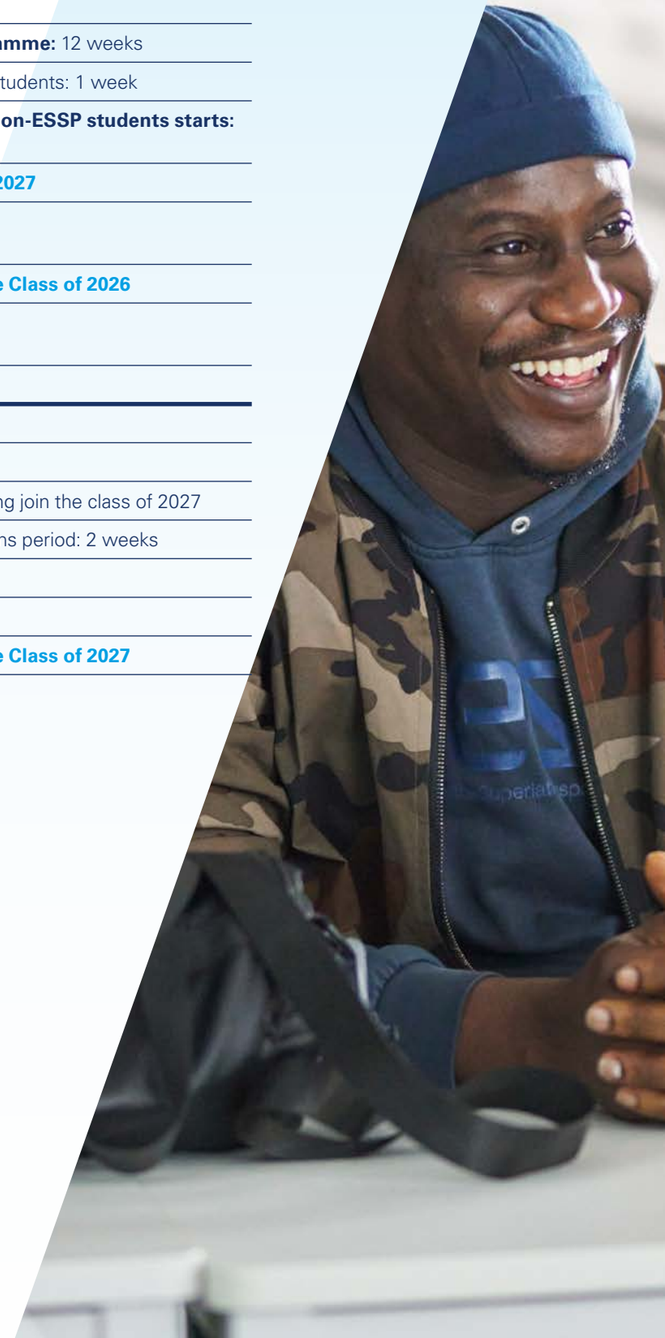
The second payment must be made by 1 April 2027 at the latest.

Students joining the accelerated programme must make their payment by 1 November before the January in which they enrol.

2026/27 KEY DATES FOR STUDENTS JOINING THE MSc IN MARITIME AFFAIRS

2026	
22 June – 11 September	**English & Study Skills Programme:** 12 weeks
14 – 18 September	Non-teaching period for ESSP students: 1 week
14 September	**Orientation programme for non-ESSP students starts:** 1 week
21 September	**Inauguration of the Class of 2027**
21 September – 18 December	**First term:** 13 weeks
31 October	**Graduation Ceremony for the Class of 2026**
21 December – 8 January	Non-teaching period: 3 weeks

2027	
11 January – 24 June	**Second term:** 24 weeks
11 January	Students with advanced standing join the class of 2027
10 – 21 May	Non-teaching, re-sit examinations period: 2 weeks
25 June – 2 July	Non-teaching period: 1 week
5 July – 29 October	**Third term:** 17 weeks
30 October	**Graduation Ceremony for the Class of 2027**




WORLD MARITIME UNIVERSITY

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The World Maritime University was established in 1983 under the auspices of the International Maritime Organization, a specialized agency of the United Nations.

INTERNATIONAL MARITIME ORGANIZATION