

Program outline

Master of Science in Maritime Operations Management

*Last updated
March 2026*

Overview:

Core courses	15 Cr. Hr.
Electives	9 Cr. Hr.
Practical experience & projects	6 Cr. Hr.
Total	30 Cr. Hr.



I. Core courses

Course	Credit Hours
Core Courses	15
Advanced Maritime Operations Management	3
Research Methods for Maritime Professionals	3
Maritime Economics and Commercial Management	3
Maritime Law, Regulation, and Compliance	3
Maritime Safety and Risk Management Systems	3

II. Elective course streams

Students select one elective stream and complete 3 courses (9 credit hours) from that stream	Credit Hours: 9 required
Port Management Stream	
Port and Terminal Management	3
Smart Ports and Digital Shipping	3
Advanced Port Operations and Planning	3
Port Asset and Project Management	3
Shipping Management Stream	
Shipping Operations and Fleet Management	3
Shipping Finance and Risk Management Global	3
Shipping Strategy and Policy	3
Logistics Management Stream	
Sustainable and Green Logistics	3
Maritime Supply Chain Analytics	3
Maritime Logistics and Supply Chains	3
Advanced Maritime Logistics	3
Maritime Security Management Stream	
Advanced Management and Assurance of Maritime Activities	3
Advanced Maritime Operations for Logistics and Security Personnel	3
Management of Maritime Security at Seaports	3



III. Practical experience & projects

Applied Experience & Projects	Credit Hours:
	6 required
Applied Practice in Maritime Operations Management	2
Applied Research I	1
Applied Research II	3

Program Goals

To develop graduates who possess the:

- Strategic leadership capabilities needed to drive growth and innovation in alignment with the UAE's national maritime and economic visions
- Mastery of integrated maritime operations spanning port, terminal, and logistics management with a focus on efficiency, safety, and quality standards
- Ability to champion the use of digital technologies and data-driven decision-making to advance smart port initiatives and strengthen maritime supply chain resilience
- Commitment to sustainable and responsible operational practices that balance economic performance with environmental stewardship and risk management
- Ability to translate academic knowledge into industry practice through experiential learning, enabling immediate and meaningful contribution to the UAE's global maritime cluster



Program Learning Outcomes

On successful completion of this program, graduates will be able to:

PLO1: Integrate advanced knowledge of shipping operations, port and terminal management, logistics systems and regulatory frameworks to formulate coherent strategies for maritime operations management

PLO2: Apply advanced theoretical and practical knowledge to plan, manage, and evaluate maritime and port operations, ensuring efficiency, safety, regulatory compliance, and sustainability in diverse operational contexts

PLO3: Analyze complex and unpredictable maritime operational problems using advanced analytical and system-based approaches to optimize operational performance

PLO4: Conduct applied research in maritime operations management using appropriate qualitative and quantitative methodologies synthesizing findings to support evidence-based decision-making

PLO5: Exercise leadership, autonomy, and accountability in managing people, projects, and resources within maritime and logistics organizations while adhering to ethical and professional standards

PLO6: Communicate complex maritime operational, technical, and strategic information effectively and professionally to specialist and non-specialist stakeholders using appropriate formats and technologies.

PLO7: Evaluate and critically interpret international maritime conventions, UAE maritime regulations, and sustainability frameworks to exercise independent judgement in ensuring compliant, ethical, and environmentally responsible operations

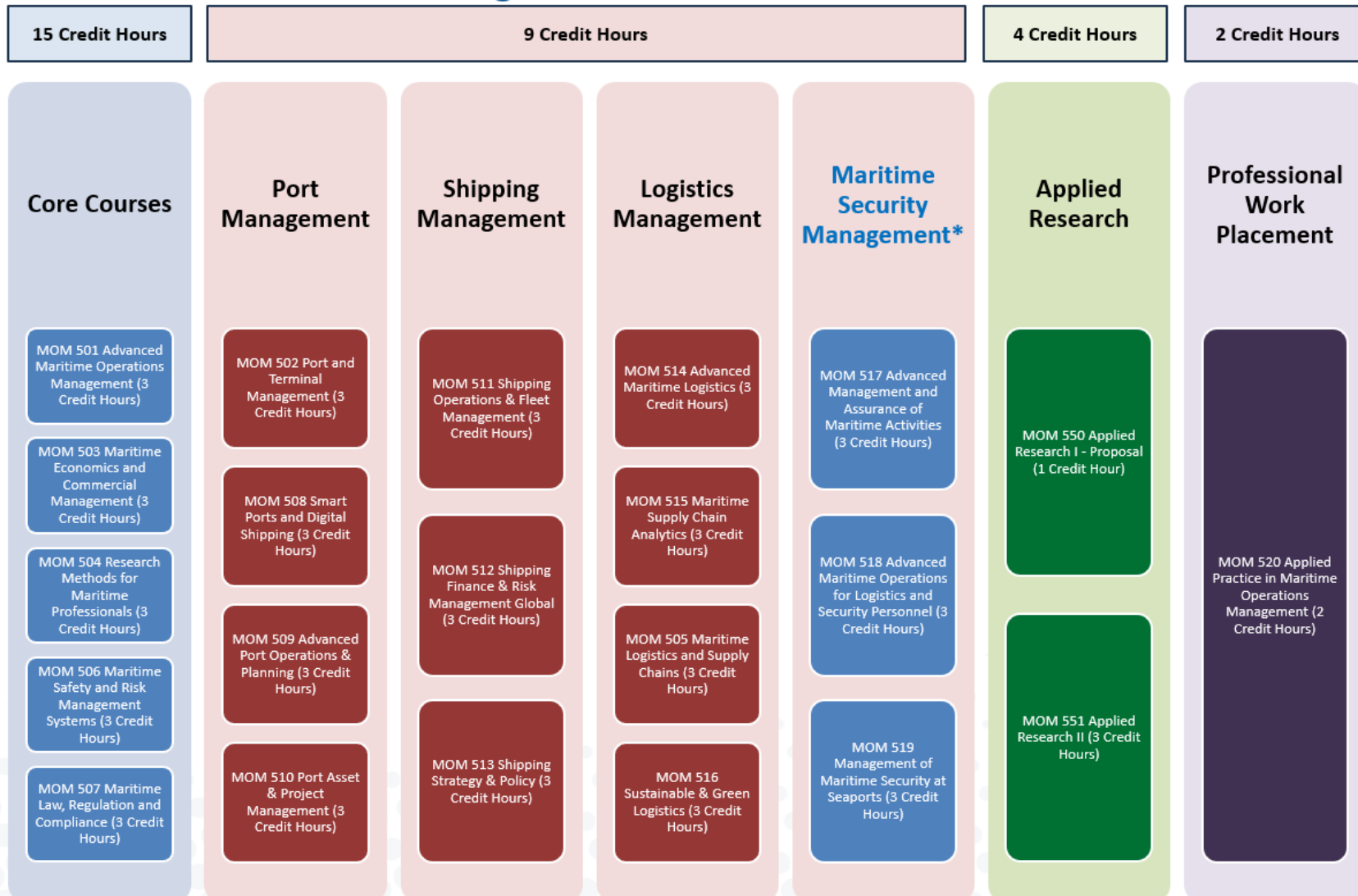
PLO8: Design innovative solutions to enhance operational resilience, efficiency, and competitiveness in the maritime sector leveraging applicable digital tools and technologies



Recommended Sequence of Study		
Year 1 / Term 1		
Course Code	Course Title	Credit
MOM 501	Advanced Maritime Operations Management	3
MOM 504	Research Methods for Maritime Professionals	3
Total Term Credits		6
Year 1/ Term 2		
Course Code	Course Title	Credit
MOM 503	Maritime Economics and Commercial Management	3
MOM 506	Maritime Safety and Risk Management Systems	3
Total Term Credits		6
Year 1/ Term 3		
Course Code	Course Title	Credit
MOM 507	Maritime Law, Regulation and Compliance	3
	Elective 1	3
Total Term Credits		6
Year 2/ Term 1		
Course Code	Course Title	Credit
	Elective 2	3
	Elective 3	3
Total Term Credits		6
Year 2/ Term 2		
Course Code	Course Title	Credit
MOM 520	Applied Practice in Maritime Operations Management	2
MOM 550	Applied Research I	1
Total Term Credits		3
Year 2/ Term 3		
Course Code	Course Title	Credit
MOM 551	Applied Research II	3
Total Term Credits		3



Program Structure



Total Credit Hours: 30

- Elective courses are grouped by specialization areas (streams)
- Students may select elective courses (total 9 credit hours) from one or more streams
- The 3 courses (units) from the Maritime Security Management stream constitute an independent 9-credit micro-credential: *“Advanced Certificate in Integrated Seaport Management and Maritime Security Operations”*