Bachelor of Science in Business Administration - Maritime and Supply Chain Management

Ling Li, Chair and Area Coordinator  
Weiyong Zhang, Assistant Chair  
Ricardo Ungo, Chief Discipline Advisor

The maritime and supply chain management program is designed to provide students with an integrated working knowledge of maritime operations and supply chain management. It is the only undergraduate major of its kind east of the Mississippi River and graduates will be able to meet the needs of regional, national and international shipping, transportation and distribution industries. Students may choose either the maritime management concentration or supply chain management concentration. A student who seeks a Bachelor of Science in Business Administration degree with a major in Maritime and Supply Chain Management from Old Dominion University must, in addition to meeting other requirements of the University, earn a minimum of 25 percent of the total number of credits required for the degree (for example, 30 credits in a 120-credit degree program) through on- or off-campus instruction. This must include a minimum of 12 credit hours of upper-level MSCM courses or upper-level business courses specifically listed as electives on the course lists below.

Maritime Management Concentration Coursework

MSCM 370  International Shipping  3
MSCM/BNAL 441  Supply Chain Management and Logistics  3
MSCM 471  Shipping Management  3
MSCM 472  Port Management  3
MSCM 473  Inland Waterway and Intermodal Transportation  3

Select three of the following Major Electives:  9

MSCM 368  Maritime and Supply Chain Internship  
MSCM 415  Maritime Security and Risk Analysis  
MSCM 430  Strategic Sourcing and Purchasing Management  
MSCM 439  Quality Management  
MSCM 468  Distribution Center and Material Handling Management  
MSCM 495  Topics in Maritime and Supply Chain Management  
MSCM 497  Independent Study  
ECON 402  Transportation Economics  
BNAL 406  Advanced Spreadsheet-Based Data Analytics  
BNAL 407  Prescriptive Analytics of Management Science  
BNAL 432  Predictive Analytics for Business  
BNAL 476  Simulation Modeling and Analysis for Business Systems  
BNAL 497  Independent Study  
ACCT 311  Managerial Accounting  
FIN 435  International Financial Management  
MGMT 360  Labor Management Relations  
MKTG 405  The Art of Influence and Persuasion  
MKTG 416  Professional Selling  
OPMT 367  Cooperative Education  
OPMT 368  Student Internship  
OPMT 369  Practicum  
OPMT 495  Selected Topics in Operations Management  

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPMT 497</td>
<td>Independent Study in Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>300-400 Level Business Elective *</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

* Can be any 300-400 level course offered by the Strome College of Business, providing that the student has the appropriate prerequisites.

Courses included in the calculation of the 2.00 overall grade point average for maritime management concentration coursework for graduation are:

- MSCM 370  International Shipping
- MSCM/BNAL 441  Supply Chain Management and Logistics
- MSCM 471  Shipping Management
- MSCM 472  Port Management
- MSCM 473  Inland Waterway and Intermodal Transportation

All 300-400 Level MSCM/BNAL/OPMT elective courses

Four-Year Plan - Maritime Management Concentration - BSBA (http://catalog.odu.edu/undergraduate/stromecollegeofbusiness/bsbamaritimesupplychainmgmt/maritimemgmt-bsb-fouryearplan/

This is a suggested curriculum plan to complete this degree program in four years. Please consult information in this Catalog, Degree Works, and your academic advisor for more specific information on course requirements for this degree.

Supply Chain Management Concentration Coursework

MSCM 370  International Shipping  3
MSCM/BNAL 441  Supply Chain Management and Logistics  3
MSCM 430  Strategic Sourcing and Purchasing Management  3
MSCM 439  Quality Management  3
MSCM 468  Distribution Center and Material Handling Management  3

Select three of the following Major Electives:  9

MSCM 471  Shipping Management  
MSCM 472  Port Management  
MSCM 473  Inland Waterway and Intermodal Transportation  
BNAL 406  Advanced Spreadsheet-Based Data Analytics  
BNAL 407  Prescriptive Analytics of Management Science  
BNAL 432  Predictive Analytics for Business  
BNAL 476  Simulation Modeling and Analysis for Business Systems  
BNAL 497  Independent Study  
ACCT 311  Managerial Accounting  
ECON 402  Transportation Economics  
MKTG 405  The Art of Influence and Persuasion  
MKTG 416  Professional Selling  
MSCM 368  Maritime and Supply Chain Internship  
MSCM 495  Topics in Maritime and Supply Chain Management  
MSCM 497  Independent Study  
OPMT 367  Cooperative Education
Minor requires completion of:

- 12 hours of 300- and/or 400-level maritime and supply chain management

A minor in maritime and supply chain management requires the completion of 12 hours of 300- and/or 400-level maritime and supply chain management courses. All courses selected must be preceded by listed prerequisites. The minor requires completion of:

- OPMT 303 Operations Management * 3
- MSCM 370 International Shipping 3
- or
- MSCM 441 Supply Chain Management and Logistics **

Select two of the following 6

- MSCM 370 International Shipping
- MSCM 415 Maritime Security and Risk Analysis ***
- MSCM 430 Strategic Sourcing and Purchasing Management ****
- MSCM 439 Quality Management **
- MSCM 441 Supply Chain Management and Logistics **
- MSCM 468 Distribution Center and Material Handling Management **
- MSCM 471 Shipping Management ***
- MSCM 472 Port Management ***
- MSCM 473 Inland Waterway and Intermodal Transportation ***
- MSCM 495 Topics in Maritime and Supply Chain Management

Four-Year Plan - Supply Chain Management Concentration - BSBA (http://catalog.odu.edu/undergraduate/stromecollegeofbusiness/bsbamaritimesupplychainmgmt/supplychainmgmt-bsba-fouryearplan/)

This is a suggested curriculum plan to complete this degree program in four years. Please consult information in this Catalog, Degree Works, and your academic advisor for more specific information on course requirements for this degree.

Maritime and Supply Chain Management Minor

A minor in maritime and supply chain management requires the completion of 12 hours of 300- and/or 400-level maritime and supply chain management courses. All courses selected must be preceded by listed prerequisites. The minor requires completion of:

- OPMT 303 Operations Management * 3
- MSCM 370 International Shipping 3
- or
- MSCM 441 Supply Chain Management and Logistics **

Select two of the following 6

- MSCM 370 International Shipping
- MSCM 415 Maritime Security and Risk Analysis ***
- MSCM 430 Strategic Sourcing and Purchasing Management ****
- MSCM 439 Quality Management **
- MSCM 441 Supply Chain Management and Logistics **
- MSCM 468 Distribution Center and Material Handling Management **
- MSCM 471 Shipping Management ***
- MSCM 472 Port Management ***
- MSCM 473 Inland Waterway and Intermodal Transportation ***
- MSCM 495 Topics in Maritime and Supply Chain Management

MSCM 497 Independent Study 12

Prerequisite Courses

* BNAL 206 or STAT 130M or equivalent
** OPMT 303
*** MSCM 370
**** ACCT 202, BNAL 206, OPMT 303

For completion of a minor, a student must have a minimum overall cumulative grade point average of 2.00 in all courses required for the minor exclusive of prerequisite courses. A minimum of six hours in upper-level courses in the minor must be completed through courses offered by Old Dominion University.

MARITIME AND SUPPLY CHAIN MANAGEMENT Courses

MSCM 368. Maritime and Supply Chain Internship. 1-3 Credits.

Approval for enrollment and allowable credit is determined by the Business Analytics CAP advisor and the Career Development Services in the semester prior to enrollment. Prerequisites: MSCM 370 and MSCM 441, and a declared major in the University or permission of the Dean's Office.

MSCM 370. International Shipping. 3 Credits.

The course examines international freight transportation and terms for movement of international trade. It discusses processes and concepts involved in international ocean and intermodal transportation. It shows how shipping companies enter into foreign markets and participate in international trade. It also covers operational issues such as payment, commercial documents, insurance; customs and clearance; shipping organizations and societies, and shipping law. Prerequisite: junior standing or permission of the instructor.

MSCM 415. Maritime Security and Risk Analysis. 3 Credits.

An overview of international and U.S. initiatives to ensure the security of vessels, cargo, people, and infrastructure within the maritime domain. In addition to the impacts of regulatory requirements on maritime commerce, the course also addresses maritime threats to the international economy (including maritime piracy and maritime terrorism), maritime coalitions, and state-of-the-art techniques and tools for safeguarding ocean-borne commerce. Prerequisite: MSCM 370.

MSCM 430/530. Strategic Sourcing and Purchasing Management. 3 Credits.

An overview of the strategic sourcing of materials and services in the organization and its role in the supply chain. Topics include sourcing decisions, price/cost analysis, quality issues, purchasing, supplier selection, legal and ethical issues, third party logistics, freight forwarding, and acquisition of services and capital assets. Prerequisites: ACCT 202, BNAL 206, OPMT 303, and a declared major in the University or permission of the Dean's Office.

MSCM 439. Quality Management. 3 Credits.

This course examines the application of quality principles to the management of manufacturing and service organizations. Topics include fundamentals of quality management, Six Sigma, statistical process control, process capability and reliability. Prerequisites: OPMT 303 and a declared major in the University or permission of the Strome College of Business Dean's Office.

MSCM 441. Supply Chain Management and Logistics. 3 Credits.

Supply chain management integrates all activities associated with the flow of materials and information from product start to customers. Examples include order processing, warehousing, inventory management, transportation and logistics, and the costs and information systems supporting these activities. Particular application is made to global logistics systems supporting port and maritime activities. Supply chain relationships can be improved through effective integration of management and via such technologies as the World Wide Web, electronic data exchange, and enterprise resource planning (ERP), (cross-listed with BNAL 441) Prerequisites: OPMT 303, and a declared major in the University or permission of the Dean's Office.
MSCM 445. Marine Insurance. 3 Credits.
An introduction to the fundamentals of cargo, hull, protection and indemnity insurance. Topics include insurance markets, agents, underwriters, forms of policies, valuation, Total Loss, Particular Average, General Average, insured perils, war risks, subrogation, reinsurance and insurers of pollution liabilities. Prerequisites: MSCM 370.

MSCM 468/568. Distribution Center and Material Handling Management. 3 Credits.
This course is designed to investigate the strategic role of distribution center and material management in the supply chain. Course content includes the analysis of distribution center operations through the study of design, system selection, and layout configuration as well as the evaluation of material handling and inventory management options. Prerequisites: OPMT 303.

MSCM 471. Shipping Management. 3 Credits.
Examines the management of freight shipping organizations involved in the transport of cargo by ship. Key topics are managing ships and ship space; shipping markets, operations, costs, investment, insurance, claims, and regulation; and ship types, cargoes, safety, flagging, pollution, and chartering and purchase. Prerequisites: For MSCM majors, the prerequisite is MSCM 370; for other business majors, the prerequisites are ECON 201S and ECON 202S; for nonbusiness majors, the prerequisites are ECON 201S and ECON 202S or permission of the instructor; all students must have a declared major or permission of the College of Business dean's office.

MSCM 472. Port Management. 3 Credits.
Examines the management of seaports in the movement of cargo throughput. It presents concepts related to design, optimization, administration, and operation of ports. It discusses issues involved in planning, investment, communication systems, congestion, pollution, safety, security; intermodal transportation; water and land accessibility; and port competition and cooperation to improve customer service. Prerequisites: For MSCM majors, the prerequisite is MSCM 370; for other business majors, the prerequisites are ECON 201S and ECON 202S; for nonbusiness majors, the prerequisites are ECON 201S and ECON 202S or permission of the instructor; all students must have a declared major or permission of the College of Business dean's office.

MSCM 473. Inland Waterway and Intermodal Transportation. 3 Credits.
This course is designed to explore and analyze the current condition of inland waterways both throughout the United States and around the globe with an emphasis on the creation of intermodal transportation networks. It will include an overview of existing infrastructure as well as financing mechanisms, national and international competitive strategies, risk management (public safety and emergency preparedness), and the environmental benefits as well as consider current legislation. Prerequisite: MSCM 370.

MSCM 494. Entrepreneurship in Maritime and Supply Chain Management. 3 Credits.
This course is designed to help students enhance their personal and professional development through innovation guided by faculty members and professionals. The course offers students an opportunity to integrate disciplinary theory and knowledge through developing a supply chain process, product, business, or other initiative. The real-world experiences that entrepreneurs provide will help students understand how academic knowledge leads to transformations, innovations, and solutions to different types of problems. Prerequisites: MSCM 370 and OPMT 303.

MSCM 495/595. Topics in Maritime and Supply Chain Management. 3 Credits.
A study of selected topics within Maritime and Supply Chain Management designed to provide an in-depth exploration of current issues. Prerequisites: permission of the instructor, and a declared major in the University or permission of the College of Business Dean's Office.

MSCM 497. Independent Study. 3 Credits.
Affords students the opportunity to undertake independent study under the direction of a faculty member. Prerequisites: permission of the department, and a declared major in the University or permission of the College of Business Dean's Office.