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.

**Maritime Management Concentration Coursework**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCM 370</td>
<td>International Shipping</td>
<td>3</td>
</tr>
<tr>
<td>MSCM/BNAL 441</td>
<td>Supply Chain Management and Logistics</td>
<td>3</td>
</tr>
<tr>
<td>MSCM 471</td>
<td>Shipping Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCM 472</td>
<td>Port Management</td>
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</tr>
<tr>
<td>MSCM 473</td>
<td>Inland Waterway and Intermodal Transportation</td>
<td>3</td>
</tr>
</tbody>
</table>

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 Spreadsheet Modeling and Analysis for Business Decisions
- BNAL 407 Management Science
- BNAL 432 Forecasting
- 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
- OPMT 368 Student Internship
- OPMT 369 Practicum
- OPMT 495 Selected Topics in Operations Management
- OPMT 497 Independent Study in Operations Management

**Supply Chain Management Concentration Coursework**

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<tr>
<td>MSCM 430</td>
<td>Strategic Sourcing and Purchasing Management</td>
<td>3</td>
</tr>
<tr>
<td>MSCM 439</td>
<td>Quality Management</td>
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</tr>
<tr>
<td>MSCM 468</td>
<td>Distribution Center and Material Handling Management</td>
<td>3</td>
</tr>
</tbody>
</table>

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 Spreadsheet Modeling and Analysis for Business Decisions
- BNAL 407 Management Science
- BNAL 432 Forecasting
- 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
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- MSCM 368 Maritime and Supply Chain Internship
- MSCM 495 Topics in Maritime and Supply Chain Management
- MSCM 497 Independent Study
- OPMT 367 Cooperative Education
- OPMT 368 Student Internship
- OPMT 369 Practicum
- OPMT 495 Selected Topics in Operations Management
- OPMT 497 Independent Study in Operations Management

Free Electives 3

300-400 Level Business Electives * 6

Total Hours 33

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

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

- MSCM 370 International Shipping
- MSCM/BNAL 441 Supply Chain Management and Logistics

**Total Hours** 33

* Can be any 300-400 level course offered by the Strome College of Business, provided the student has the appropriate course prerequisites.
MSCM 430  Strategic Sourcing and Purchasing Management
MSCM 439  Quality Management
MSCM 468  Distribution Center and Material Handling Management

All 300-400 level MSCM/BNAL/OPMT elective courses.

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

Total Hours  12

Prerequisite Courses
*  BNAL 206 or STAT 130M or equivalent
**  BNAL 306 and OPMT 303
***  MSCM 370
****  ACCT 202, BNAL 206, OPMT 303
*****  OPMT 303
******  MSCM 441/BNAL 441

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, reinsurers 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.

Bachelor of Science in Business Administration - Maritime and Supply Chain Management 2
MSCM 472. Port Management. 3 Credits.
Examines the management of seaports in the movement of cargo throughput. It presents concepts related to design, organization, 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 entrepreneurships 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.