Northern Maritime University Course Offerings

northern maritime university

Undergraduate Modules

Bremen University of Applied Sciences

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BM 001

Principles of Maritime Economics — **6 credits**

This module provides students with more in-depth knowledge of the maritime-traffic economic, especially regarding the formation of prices on the shipping markets (tramping and liner trade). Furthermore, besides dealing with the basic principles of economic sciences (consumer needs, production planning, economic systems), the function and structure of maritime-traffic businesses and their competitive ability compared to alternative means of transportation is presented.

BM 002

Law of Carriage of Goods by Sea — **6 credits**

Students attending this module will be provided with knowledge about sea business law related to the duties of the captain and the shipping company regarding seaworthiness and cargo-worthiness; carrier liability; sea freight regulations in the bulk cargo contract (Hague-, Visby-, Hamburg-Rules etc.); position of the charterer in the bill of lading law (Identity of Carrier); legal situation of the captain according to the German HGB. After attending this module, students will be in the position to initiate the correct legal measures in emergency situations such as cargo damage, collisions etc.

BM 003

Emergency Management and Media Response — **6 credits**

The following topics are covered by this module: ISM-Code, ISPS-Code, Ship's safety regulations according to SOLAS; accident prevention regulations of the See-Berufsgenossenschaft; fire prevention and fire fighting; devices for the protection of persons etc. Additionally, students learn how to reliably handle authorities and media.

BM 004

Ship Finance and Ship Building Contracts — **6 credits**

Within this module, students will be given the opportunity to learn how to estimate and fend the related risks and consequences of ship's financing and ship building. Topics covered are: interest and currency risks; tax-saving models (tonnage tax etc.); ship purchase and ship building (contracts, building supervision, intermediate and final acceptance etc.); construction period financing etc.

BM 005

Ship Accounting — **6 credits**

The module teaches students to develop and interpret accounts in ship's operating and represent it to the shareholders; students will also learn to develop a ship's operating cost budget and to create freight offers and to deal with requests. Furthermore, students get profound knowledge about proposal handling, cash box handling and brokerage (cargo operating) etc.

Currently only in German.

BM 006

Chartering and Agency Law — **6 credits**

This module deals – among others – with agency contracts and substitute law, various types of charter contracts (trip, time-, slot-bareboat-charter) and the liability for cargo damages as well as the performance during the trip and off-hire clause. In the end of the module, the student will be in the position to interpret agency contracts independently and reword changes or amendments on their own.

Currently only in German.

BM 007

Dangerous Goods — **6 credits**

At the end of this module, students will have profound knowledge in the application of international rules, standards and codes for the shipping of dangerous goods and will be able to conduct arrangements for emergency preparations and emergencies.

BM 008

International Insurance Law and Practice — **6 credits**

This module covers topics such as international insurance types (direct insurance, counter insurance, insurances on reciprocity etc.), common insurance basics (rights and duties of the insurer and accordingly the insured etc.), third Parties Rights against Insurers Act 2001, P&I Club Rules and the settlement of disputes and conciliation between insurance contracts. In the end of the module, the students will be able to transfer the knowledge of the international insurance-legal relationships into the day-to-day business of a shipping company, carrier and accordingly a claim expert.

BM 009

Multimodal Transport Law — **6 credits**

At the end of this module, the students will be able to transfer the knowledge of the international multimodal legal relationships into the day-to-day business of a shipping company, carrier and accordingly a claim expert German transportation law. Topics covered by this module are for example: Special transports and their terms and conditions, German transportation law (HGB), ICC Termination Act of 1995 (USA), Montreal & Warsaw Convention, Interamerican Convention on Carriage of Goods by Road etc.

Currently only in German (application of German Commercial Law).

BM 010

Chartering Practice, Commodity Practice and Logistics — **6 credits**

The contents of this module are for instance supply chain management, trip/voyage planning, distribution strategies in the tramp and liner trade business and the design of logistics-networks. Students attending this module get a broad overview of the international sea transportation ways and commodity flows and the most important commodity types. And at the end of this module, they will be able to apply the gained knowledge of logistics and transfer it into the worldwide affreightment business.

BM 011

Large Casualty Handling — **6 credits**

This module teaches students how to purposefully plan, conduct as well as control the complete coordination of all actions of the participating parties in the event of a large claim and also be able to adequately behave in public and in front of the press. Therefore, this module includes for example large claim handling strategies, arbitration and mediation, casualty analysis and practical dispute resolution.

BM 012

Charter Disputes — **6 credits**

Contents of teaching will be the practical discussion on a series of common charter party disputes such as agency disputes, unlawful deviation, non performance claims or laytime and demurrage disputes. At the end of this module, the students will be in the position to independently and correctly realize the most frequently legal cases from charter contracts and represent it in an adequate manner to the contract partner and if necessary enforce his right.

BM 013

Cargo Claims — **6 credits**

Within this module, a series of common cargo claims and related topics such as cargo contamination, arrest of ship for security, exoneration from liability, loss over board or delay in delivery will be discussed. At the end of this module, the students will be in the position to independently and correctly realize the most frequently legal cases in cargo damages and represent the circumstances in an adequate manner to the contract partner and if necessary enforce his right.

BM 014

Ship Administration and Environmental Law — **6 credits**

Students attending this module will be provided with in-depth knowledge about the international regulations and conventions such as the international freeboard convention, international conventions about the prevention of pollution through ships, accident analysis law and conventions of ship's measurements. Additionally, students learn how to plan and supervise the supply of a ship with provisions, drinking water, equipment and other supplies according to the relevant regulations etc.

BM 015

Quality Management in Shipping — **6 credits**

Within this module, students will acquire profound knowledge about management programmes such as ISO 9000, ISO 14000 and Award Systems ("Blauer Engel"), their

implementation and control. Focus is on providing an understanding for the fact that management systems are instruments for continuous quality improvement and how these instruments could be used.

BM 016

Organisation and Management of Shipping Companies **6 credits**

This module provides students with an understanding for shipping processes administration processes, tools, instruments and systems. They get an overview of all protagonists and their different roles and responsibilities in the shipping business and in addition to it, they will learn how shipping companies, brokers, agents, owners, bankers and issuing houses cooperate with each other.

BM 017

Tanker Operations **6 credits**

At the end of this module, students will be able to describe the different types of tankers and their cargoes as well as tanker specified emergency measures and principles of maintenance and repairs on tankers, safe cargo handling and the tank washing processes. A main discussion topic is the pollution prevention of the seas and air. Other topics tackled are constructions, design and equipment on oil, gas and chemical tankers.

BM 018

Project and Heavy Lift Cargo **6 credits**

A main focus of this module is on making students understanding the project and heavy lift shipping as a niche business with special operational needs. Therefore, this module deals with the markets itself (dry bulk, project and heavy lift cargo), the infrastructure and lifting capacities and methods, stowage planning and documentation.

Gothenburg University

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BM 019

IT and Logistics and Transportation **15 credits**

Logistics is the management of the flow of goods, information and other resources, including energy and people, between the point of origin and the point of consumption in order to meet the requirements of consumers. In order to accomplish this task successfully and economically, information technology is getting more and more important. This module deals with the application of business systems (ERP) and provides students with profound knowledge about IT in logistics.

BM 020

Transportation **15 credits**

This module provides students with an understanding for the connection between transportation-systems, economic growth and environmental performance. Therefore, this module deals with various transportation issues, transport policy, transport markets and shipper and carrier Strategies. A main focus is on transportation's impact on the environment.

Jacobs University Bremen

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BM 021a

General Logistics I **5 credits**

The first part of the module "General Logistics" gives an introduction into the purpose / scope of logistics and future trends in the logistics industry, the following subjects will be covered, aligned to the logistics processes: Logistic market segments and customer base, modelling of logistic systems, overview of procurement, production, distribution logistics and strategies, transport systems overview, warehouse technology and engineering, packaging technology, parallel flow of material and information, introduction to accounting/finance and resource management for logistics, international and transport law, customer requirements and service level management.

BM 021b

General Logistics II **5 credits**

The second part of the module "General Logistics" provides the students with more in-depth knowledge about logistic concepts, theories, tools and processes and puts a focus on the economical, ecological, political, social, technological environment of logistics.

BM 022a

Natural Sciences Laboratory Logistics I **2.5 credits**

This module substantiates and amends the technical concepts taught in the "General Logistics" lecture by experiments and/or simulations: These include experiments to demonstrate the principles of statistical process control, simulation of a road transport network with warehouses, cross docking, optimization of layout and timing including the statistical distribution of transit times to minimize the loss function, simulation of inter modal transport including statistical optimization, simulation of warehouse layout and operation, including optimization of stock levels for a certain service level (using principles of statistical process control), exercise in using standard package technologies, a barcode system experiment, an RFID experimental system and a model data system for a logistics system.

BM 022b

Natural Sciences Laboratory Logistics II **2.5 credits**

Further substantial practical knowledge about logistics instruments, methods and concepts will be provided by the continuing second part of the module "NatSciLab".

BM 023

Intermodal Logistics **5 credits**

This module provides an understanding for the concept of intermodal logistics and the application of the different modes of transport in order to find the optimum utilisation in a logistics chain from an economical, environmental, operational as well as from a security and safety point of view. Therefore, in-depth analyses of the various transport modes will be made.

BM 024

Distribution Logistics **2.5 credits**

Students attending this module will gain knowledge about structural parameters of different types of distribution structures, the planning functions for distribution and procurement processes, routing, methods and key figures for an evaluation system for distribution and procurement processes. Furthermore, the functions of distribution logistics for production and also for the transportation are being tackled.

BM 025

Traffic, Transport and Storage Systems **5 credits**

At the end of this module, the students understand all relevant systems and their application within the supply chain as a pre-requisite to control and optimize the supply chain. Furthermore, they will be able to work on problems arising in these areas such as congestion.

BM 026

Geographic Information Systems (GIS) for Logistics **2.5 credits**

Geographic Information System (GIS) is emerging as an overall planning and management tool for logistics and transportation professionals. GIS allows to combine data visually and computationally for spatial correlation, analysis, modelling and calculation. In this context, GIS has become the universal tool to integrate, manage, visualize, and map large volumes of complex geographical data from multiple sources at a variety of scales. This module presents an introduction of GIS in general with definitions and concepts as well as an introduction to the standard software ArcGIS and to complementary open source software. Furthermore, the application of GIS concepts in the logistics will be demonstrated.

BM 027

Law of Transportation, Forwarding and Logistics **5 credits**

This course will deal with the legal aspects of transportation, forwarding and logistics. Several aspects of international and national trade law which includes the formation of contracts, incorporation of general conditions in general and the law of sales contract will be introduced.

The international conventions for the carriage of goods by sea, air and land including multimodal carriage as well as the handling of dangerous goods, which is subject to a legal frame that is shaped by international regulations, will be covered. The students of course should be aware that the legal entities acting in the logistics business have different legal structures. Therefore, an outlook to the company law and a labour law will be given. At last the course will cover the international private law (conflicts of law), jurisdiction, litigation and arbitration.

BM 028

Contract Logistics **2.5 credits**

This module deals with the concept of contract logistics and its importance, including all processes in the contract logistics and presenting the key players. In order to deepen the understanding, real life examples of companies offering contract logistics services are presented and worked on in case studies.

Kiel University of Applied Sciences

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BM 029

Maritime Business Management **5 credits**

Besides acquiring some general knowledge of maritime business management, the students will be provided with a deeper understanding for the economical, ecological, political, social and technological environment of merchant shipping. Furthermore, basics of the regulatory framework of merchant shipping, strategic options relating to the way that a carrier may decide to offer its global services and the cooperation and concentration in the container shipping industry are dealt with in this module.

BM 030

Port Management **5 credits**

The following topics are covered by this module: European seaport policy; port infrastructure and port management; competitive structures within and between the ports; supply of cargo-related and ship-related services as well as seaports and their economic effects etc. The students will learn about economical, technological and political requirements and framework conditions which have an influence on port development strategies. Additionally, they will get some knowledge of the competitive structures within and between the ports as well as knowledge of the passenger handling and cargo handling procedures.

BM 031

Transport Management **5 credits**

This module deals with the fundamentals of transport economics, the legal framework of transportation as well as with the transport markets (overview of the markets and its participants, segments, specifics etc.) and with the transport service industry. In addition to these topics, the different transport modes with its specific characteristics, advantages and disadvantages are being presented.

BM 032

Special Topics of Maritime Transport **5 credits**

Customer orientation as a factor of success for maritime transport service providers as well as social responsibility is gaining more and more importance. This module accommodates this endeavour and additionally provides students with profound knowledge about the production and management of maritime transport services, the role of e-business in maritime service management and presents various management systems (environment management systems, quality management systems, integrated management systems).

BM 033

Environmentally Friendly Maritime Transport **5 credits**

This module deals – among others – with the consequences of transport in general on the society, the economy and especially on the environment (air pollution, climate change etc.) as well as with the negative effects of maritime transport on the environment (ballast water, emissions, toxic coatings etc.). Possibilities to minimise the negative effects of maritime transport (low sulphur fuel, slow steaming etc.), legal requirements for maritime transport and environmental management systems are tackled also.

Molde University College

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BM 034

International Transport and Supply Chains I **7.5 credits**

Students attending this module will be provided with profound knowledge of all means of transportation in international logistics chains and some principles of transport economics. Furthermore, they will get some knowledge of the social, economical, ecological and technological framework conditions of modern international supply chains. Also, they have to use basic business administration techniques and concepts to solve problems concerned with transport management etc. A main focus is on the international flow of goods and all important sales and payment terms. Documentation and insurance in international transport, international air freight and liability for damage and loss of goods in seaborne transport will be dealt with as well.

BM 035

Green Logistics I **7.5 credits**

This module includes the following topics: Principles of environmental economics, sustainable development perspectives, environment friendly transport chains, international environment policies and waste management strategies. Students will get profound knowledge of analysing environmental issues related to logistics from an economics perspective. Additionally, they will have to use principles from welfare economics to assess the efficiency of different green logistics initiatives.

BM 036

Transport for Tourism **7.5 credits**

After an introduction to the tourist transport system and its concepts and methods of analysis, the demand for tourist transport products and services will be discussed. Students attending this module learn how to manage the tourist transport system and how to use business strategies relating to the management of tourist transport, future challenges and opportunities for tourist transport. Furthermore, students learn how to organise the tourist transport system while bearing in mind the macro-environmental factors affecting tourist transport.

University of Southern Denmark

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BM 037

International Human Resource Management **5 credits**

This module deals with – among others – the following topics: National and international HRM practices in key transport nations in land-based versus ship-based positions and Industrial Relations (national variations in key maritime nations, ISF, ITF International Bargaining Forum, ILO). Additionally, wage and benefit issues, with comparative focus on key maritime labour supplying nations and maritime occupational safety and health workplace environment issues (including roles of employers, unions, welfare organisations, flag and port states) are discussed during the semester. Students attending this module acquire profound knowledge about national and international HRM practices in the transport (esp. maritime transport) industry and will get the ability to analyse and judge real-life HRM problems in the transport and maritime sectors of many world regions, including situation analysis and analysis of the necessary background knowledge and information. At the end of this module, students will be able to make solution proposals and to analyse their possible consequences, advantages and disadvantages in relation to (a) one's own organisation and (b) the issue of responsibility toward a broader range of stakeholders.

Masters Modules

Edinburgh Napier University

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MM 001

Maritime Economics **7.5 credits**

Students attending this module will be provided with knowledge about international trade theory, emergent patterns of world trade and how this might change under different circumstances. Additionally, the determinants of transport costs, the relationship between transport costs and the derived demand for shipping are being tackled.

MM 002

Maritime Business **7.5 credits**

This module provides knowledge about port and shipping cost modelling techniques to assess operational and commercial feasibility of specific projects, strategic management analytical tools as well as frameworks and their application to maritime business. Furthermore, international business and globalisation theory and the impact on maritime business organisations, maritime policy at national and supra-national levels are dealt with.

MM 003

The Geography of Maritime Transport **7.5 credits**

Within this module, students will acquire knowledge about how to set the current developments within the maritime industry in a spatial context of economic and transport geography. This module also deals with the spatial impacts of maritime transport on global and regional trade relations, port and port hinterland development and the behaviour and strategies of shipping companies. In addition to this, the spatial and economic implications of shipping company strategies and port development and the network structures and the implications and strategies behind network development in the maritime industry as well as the role of ports, port devolution models and the implications for economic development are being discussed.

Gothenburg University

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MM 004

Environmental Aspects of Logistics Transport **7.5 credits**

This module mainly deals with sustainable mobility and Life Cycle Assessment of the transport sector -- A total analysis of energy use & emissions from the transport sector, from cradle to grave (Emissions from road traffic do not only occur in the combustion process in the motor, but also when the fuel is produced, when cars are constructed and when roads are build etc. To get a complete picture of emissions and environmental load due to road traffic, the whole system has to be analysed, from source to end use.). Additionally, students will learn about environmentally responsible logistics (Improvements can be made not only by implementing new techniques, e.g., vehicles and catalysts, but also by managing the logistics system in an environmentally responsible and resource effective way.).

MM 005

Maritime Transport Law **15 credits**

The focus of this module is on maritime law (main rules of affreightment and carriage of general cargo as well as insurance and salvage rules and rules on liability are emphasised – not only in the field of environmental liability, but also liability in other areas are dealt with) . Furthermore, this module gives an overview of rules regulating other means for transportation of cargo and passengers and this course covers also the coordination between different forms of combined transport, the role of the forwarding agent as well as the insurance protection for the various risks included in transport of goods and passengers.

MM 006

Risk Management Safety **7.5 credits**

Within this module, students will be provided with in-depth knowledge about major hazard accidents and basic concepts of risk as well as hazard identification procedures and techniques such as What-if, Hazop, FMEA, etc (consequence analysis and modelling). A special lecture will be given to the students with chemical engineering background in consequence analysis concerning release of chemical hazards including discharge models, dispersion and effect models. Other topics such as human factors in risk analysis, the calculation and presentation of risk (individual risk, societal risk), risk management in small enterprises (difficulties and support) as well as risk reduction and risk control in haulage, route planning control in transportation are being covered by this module.

MM 007

Transportation **7.5 credits**

This module presents economical, social and environmental effects of transportation in a historical and contemporary perspective and the trends for the future as well as important technological and economical characteristics of vehicles, vessels and load carriers of different modes of transport. Furthermore, issues such as the roles and behaviour of actors in the transport system (carriers, forwarders and other logistics service providers) and transport information management and documentation are being tackled. Students will also learn about pricing and negotiation in transportation, shippers' transport strategies.

MM 008

Shipping: Production Systems and Logistics Management **7.5 credits**

This module focuses on the maritime transport production system in a wider logistics context. The design and operation of ships is treated acknowledging the preconditions in different markets. Freight transport is emphasised and more specifically, the module deals with maritime transport terminology, ship design and operations related to different commodities and trade lanes, manning and operation of vessels, trade administration including trade organisations, customs clearance and information systems and external effects of ship operation.

MM 009

Shipping Industry: Maritime Policy, Freight Markets etc. **7.5 credits**

This module takes the perspective of the shipping industry, primarily the shipping companies, but it covers supporting business actors such as shipping agents, shipyards, ports, crew manning agencies and insurance companies. Public bodies and trade organisations influencing the shipping industry are also included. Freight transport is emphasised and more specifically, the course deals with the roles and interests of the private and public stakeholders, shipping financial performance (costs and revenue) and freight markets (shipping supply, demand and market cycles). Students attending this module will acquire knowledge about maritime forecasting and market research and company behaviour, particularly regarding sustainable development.

MM 010

Transport Policy and Management **7.5 credits**

At the end of this module, students will have profound knowledge about shipper/carrier network strategies and about the role and importance of transportation in society from an economic, environmental, social and political point of view. Furthermore, this module deals with transport regulation and policy and gives an overview of the different modes of transportation and their combinations focusing on market structure, competition, operating and service characteristics, and cost structure and rates. Carrier management in terms of costing and pricing in transportation, rate making in practice and carrier operations and terminals, information management and technology is also covered by this module.

MM 011

Transport Economics **7.5 credits**

Besides dealing with the basic principles of economic sciences (consumer needs, production planning, economic systems), this module provides students with knowledge about international trade theory, emergent patterns of world trade and how this might change under different circumstances. The main focus is on the transport market.

MM 012

International Trade and Logistics **7.5 credits**

In this module, international trade, markets and business possibilities as well as the role and importance of logistics in international trade and trade procedures will be discussed. The focus is on an operational/tactical level, covering activities and documents needed in trade and in an international border crossing logistics flow. The flow perspective (physical and informational) is used for dealing with all

preparations/activities before shipment. In addition, export customs practice, export documentation, tax issues, export finance, cargo insurance and credit insurance are being dealt with in this module.

MM 013

Strategic Logistics Supply Chain Management **7.5 credits**

This module presents the mission, business processes, and strategies needed to achieve integrated logistics management in supply chains for realizing competitive advantage. It provides state-of-the-art models, concepts, and methods that are important for the design, control, operation, and management of supply chain systems. Within this general context, it particularly focuses on the purchasing and supply function.

Lübeck University of Applied Sciences

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MM 014

International Distribution **6 credits**

This module deals with management aspects of supply chain management, the four different transportation methods and their carriers as well as the future of modern technology and the scientific frontiers in supply chain management and logistics systems. Furthermore, the topic of green logistics is covered.

Molde University College

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MM 015

International Shipping **15 credits**

Topics covered within this module are for example: The shipping markets (shipping registers, flag of convenience, classing, port policy, pricing and efficiency, efficiency and profitability of shipping markets); tramp trade or dry cargo spot market trading and liner conferences and economical, ecological, political, social regulatory, shipping law, international shipping policies, international procedures and contracts. This module's main focus is on deep sea bulk and container shipping, with some focus on European Short Sea Shipping initiatives. The different market requirements and technical and organizational solutions as well as the role of different players in international shipping and the technological environment of merchant shipping are also presented.

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MM 016

Supply Chain Management **4 credits**

This module provides students with an understanding of the structure and organisation of SCM and the ability to analyse the competitive advantages of SCM from a business perspective. It covers the following topics for instance: Basics of SCM; business processes; models for business partnerships; information systems; the measurements of performance and risk management.

MM 017

Intermodal Transport and Rules on Contractual Liability **4 credits**

Students attending this module will be provided with the ability to make legal supply chain risk management and to analyse the legal aspect of an intermodal transport solution. Covered topics are rules of basic responsibility within different modes (sea, road, air, rail); coverage under different regulations of responsibility; inter- and multimodal solutions and legal risk management as precondition for economic risk management.