



APPLIES TO ACADEMIC YEAR 2013/2014

## SHI 3591 Multimodal Transportation and Shipping

### Programme

Bachelor of Shipping Management (2. year), Exchange Program

### Responsible for the course

Stein Erik Grønland

### Department

Department of Strategy and Logistics

### Term

According to study plan

### ECTS Credits

7,5

### Language of instruction

English

### Introduction

The purpose of this course is to provide an understanding of the various transportation modes used in international transports, with an emphasis on multimodal transport operations. It provides a further framework around shipping management, and helps to relate sea transportation in relation to other transport modes.

### Learning outcome

#### Acquired knowledge

After the course students shall have learned:

- To understand the concept of multimodal transportation
- To understand the benefits and costs related to various transportation modes
- To understand the impact on supply chain efficiency of alternative transport choices

#### Acquired skills

After the course students shall be able to:

- Describe and explain alternative transport systems
- Describe and analyse cost efficiency of alternative shipping systems
- Discuss competition between modes

#### Reflection

Students should be able to evaluate the relationship between transport choice decisions and supply chain effectiveness.

### Prerequisites

Introductory course in Maritime Industry.

### Compulsory reading

#### Books:

Song, Dong-Wook and Photis M. Panayides. 2012. Maritime logistics : a complete guide to effective shipping and port management. Kogan Page. (326 pages)

Talley, Wayne Kenneth. 2009. Port economics. Routledge. (208 pages)

#### Other:

Hand outs (approx. 50 pages in total) and Powerpoint slides from the lectures. Published on It's Learning

### Recommended reading

#### Course outline

- Transportation and transportation industry – overview
- Demand for freight transportation
- Road transportation
- Railway transportation

- Pipelines
- Short sea transportation
- Deep sea transportation
- Cost structures for alternative transportation mode
- Cost structures for intermodal transfers
- Intermodal Transport Operations
- Ports
- Port operations and cost
- Future developments

### Computer-based tools

No specified computer-based tools are required.

### Learning process and workload

The course consists of 45 hours of lectures and group work.

Specific information regarding any aspect of student evaluation will be provided in class. It is the student's responsibility to obtain this information. Please note that whilst attendance is not compulsory, it is the student's responsibility to obtain any information provided in class that is not included on the course homepage/It's learning or mandatory literature. Homepages and/or It's learning are not designed for the purpose of students who choose not to attend class.

There will be 2-3 excursions, one per transport mode, which will be adapted to the course progress.

Recommended workload in hours

Activity	Hours
Participation in lectures, excursions and discussions	45
Preparation for lectures/reading literature	50
Preparation for the examination	40
Examination	65
<b>Total Recommended workload</b>	<b>200</b>

### Use of hours

45 hours - Lectures, contact hours including cases, excursions and discussions.

### Examination

A three hour individual written exam concludes the course.

### Examination code(s)

SHI 35911 - Written exam, counts 100% to obtain final grade in SHI 3591 Multimodal Transportation and Shipping, 7.5 credits.

### Examination support materials

No support materials allowed.

### Re-sit examination

This course will be lectured last time autumn 2013, and re-sit examinations will be offered for the last time in autumn 2014 and spring 2015.

### Additional information