



## Course syllabus

Faculty of Technology  
Kalmar Maritime Academy

1ER52T Tillämpad matematik II, 3 högskolepoäng  
Applied Mathematics, 3 credits

**Main field of study**  
Mathematics

**Subject Group**  
Mathematics

**Level of classification**  
First Level

**Progression**  
G1F

**Date of Ratification**  
Approved by Faculty of Technology 2014-12-09  
The course syllabus is valid from autumn semester 2015

**Prerequisites**  
General entry requirements and Mathematics 2a / 2b / 2c, Physics 1b1 / 1a or Mathematics B, Physics A (Field-specific entry requirements 7/A7). and Applied Mathematics I, 6 credits, or equivalent

### Objectives

*Proficiency and comprehension*

By the end of this course, students will be able to:

- explain and use the mathematical concepts taught

*Skills and abilities*

By the end of this course, students will be able to:

- solve problems mathematically using models presented in the course and apply mathematics skills in a professional context and in relation to other elements of education

### Content

- Algebra
- Complex numbers
- Differential Equations
- Applications of complex numbers
- Applications of differential equations

## Type of Instruction

Teaching includes lectures

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

The expected objectives must be achieved in order to pass the course.

Knowledge assessment takes place as follows:

- Individual written exam

## Course Evaluation

Course evaluation is in accordance with the Kalmar Maritime Academy's quality manual.

## Required Reading and Additional Study Material

Matematik M1c, Liber, senaste upplagan

Matematik M2c, Liber, senaste upplagan

Matematik M3c, Liber, senaste upplagan

Matematik M4, Liber, senaste upplagan

*Teknisk formelsamling*, Sjöfartshögskolan