

# Course of Study Naval Architecture (Study Cohort w23)

Legend:

Specialisation Compulsory	Focus Compulsory	Thesis Compulsory
Core Qualification Elective Compulsory	Specialisation Elective Compulsory	Focus Elective Compulsory
		Interdisciplinary complement

Sample course plan - Bachelor Naval Architecture (SBBS)

1	<b>Basics of Electrical Engineering</b>		<b>Fundamentals of Mechanical Engineering Design</b>		<b>Advanced Mechanical Engineering Design (part 1)</b>		<b>Advanced Mechanical Engineering Design (part 2)</b>		<b>Stochastics and Ship Dynamics (part 1)</b>		<b>Stochastics and Ship Dynamics (part 2)</b>
2	Basics of Electrical Engineering VL 3		Fundamentals of Mechanical Engineering Design VL 2		Advanced Mechanical Engineering Design I VL 2		Advanced Mechanical Engineering Design II VL 2		Statistics and Stochastic Processes in Naval VL 2		Ship Dynamics VL 2
3	Basics of Electrical Engineering GÜ 2		Fundamentals of Mechanical Engineering Design HÜ 2		Advanced Mechanical Engineering Design I HÜ 2		Advanced Mechanical Engineering Design II HÜ 2		Architecture and Ocean Engineering		Ship Dynamics GÜ 1
4											
5					<b>Mechanical Engineering: Design (part 1)</b>		<b>Mechanical Engineering: Design (part 2)</b>		<b>Computational Fluid Dynamics I</b>		
6					Embodiment Design and 3D-CAD Introduction and Practical Training VL 2		Team Project Design Methodology PBL 2		Computational Fluid Dynamics I VL 2		
7	<b>Mathematics I</b>		<b>Technical Thermodynamics I</b>		<b>Foundations of Management</b>		<b>Hydrostatics and Body Plan (part 2)</b>				<b>Structural Design and Construction of Ships (part 2)</b>
8	Mathematics I VL 4		Technical Thermodynamics I VL 2		Introduction to Management VL 3		Hydrostatics VL 2				Ship Structural Design VL 2
9	Mathematics I HÜ 2		Technical Thermodynamics I HÜ 1		Management Tutorial GÜ 2		Hydrostatics HÜ 2				Ship Structural Design GÜ 2
10	Mathematics I GÜ 2		Technical Thermodynamics I GÜ 1								
11											
12							<b>Fluid Dynamics</b>		<b>Fundamentals of Ship Structural Design and Analysis</b>		<b>Ship Design</b>
13							Fluid Mechanics VL 3		Fundamentals of Ship Structural Analysis VL 2		Ship Design VL 2
14							Fluid Mechanics HÜ 2		Fundamentals of Ship Structural Design VL 2		Ship Design HÜ 2
15			<b>Mathematics II</b>		<b>Mathematics III</b>				Fundamentals of Ship Structural Design GÜ 1		
16	<b>Fundamentals of Materials Science</b>		Mathematics II VL 4		Analysis III VL 2				Fundamentals of Ship Structural Analysis GÜ 1		
17	Fundamentals of Materials Science II VL 2		Mathematics II HÜ 2		Analysis III GÜ 1						
18	Fundamentals of Materials Science I VL 2		Mathematics II GÜ 2		Analysis III HÜ 1						
19	Physical and Chemical Basics of Materials Science VL 2				Differential Equations 1 VL 2		<b>Mathematics IV</b>				<b>Bachelor Thesis</b>
20					Differential Equations 1 GÜ 1		Complex Functions VL 2		<b>Structural Design and Construction of Ships (part 1)</b>		
21	<b>Computer Science for Engineers - Introduction and Overview</b>		<b>Engineering Mechanics II (Elastostatics)</b>		Differential Equations 1 HÜ 1		Complex Functions GÜ 1		Welding Technology VL 3		
22	Computer Science for Engineers - Introduction and Overview VL 3		Engineering Mechanics II VL 2				Complex Functions HÜ 1				
23	Computer Science for Engineers - Introduction and Overview GÜ 2		Engineering Mechanics II GÜ 2		<b>Hydrostatics and Body Plan (part 1)</b>		Differential Equations 2 VL 2		<b>Marine Propulsion</b>		
24			Engineering Mechanics II HÜ 2		Body Plan PS 2		Differential Equations 2 GÜ 1		Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines VL 1		
25							Differential Equations 2 HÜ 1		Fundamentals of Reciprocating Engines and Turbomachinery - Part Reciprocating Engines HÜ 1		
26					<b>Engineering Mechanics III (Dynamics)</b>				Fundamentals of Marine Engineering VL 2		
27	<b>Engineering Mechanics I (Stereostatics)</b>				Engineering Mechanics III VL 3		<b>Computational Mechanics</b>		Fundamentals of Marine Engineering HÜ 1		
28	Engineering Mechanics I VL 2				Engineering Mechanics III GÜ 2		Computational Multibody Dynamics IV 2				
29	Engineering Mechanics I GÜ 2				Engineering Mechanics III HÜ 1		Computational Mechanics GÜ 2				
30	Engineering Mechanics I HÜ 1						Computational Structural Mechanics IV 2				
31									<b>Resistance and Propulsion</b>		
32									Resistance and Propulsion VL 2		
									Resistance and Propulsion HÜ 2		
Non-technical Courses for Bachelors (from catalogue) - 6LP											

The choice of courses from the catalogue is flexible (depends on the semestral work load), provided the necessary number of required credits is reached.

