

# Course of Study Civil Engineering (Study Cohort w18)

Sample course plan A Master Civil Engineering (BAUMS)  
Specialisation Structural Engineering

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

LP	Semester 1	Form Hrs/wk	Semester 2	Form Hrs/wk	Semester 3	Form Hrs/wk	Semester 4	Form Hrs/wk			
1	<b>Finite Elements Methods</b>		<b>Design of Prestressed Structures and Concrete Bridges</b>		<b>Study Work Structural Engineering</b>		<b>Selected Topics in Civil Engineering (part 2)</b>				
2	Finite Element Methods	VL 2	Design of Prestressed Structures and Concrete Bridges	VL 3			Selection from a catalog				
3	Finite Element Methods	HÜ 2									
4	Finite Element Methods	HÜ 2									
5			Design of Prestressed Structures and Concrete Bridges	HÜ 2			<b>Master Thesis</b>				
6											
7	<b>Sustainability and Risk Management</b>		<b>Statics and Dynamics of Structures</b>		<b>Computational Analysis of Concrete Structures</b>						
8	Environment and Sustainability	VL 2	Fracture mechanics and fatigue in steel structures	VL 1	Computational Analysis of Concrete Structures	VL 2					
9	Safety, Reliability and Risk Assessment	SE 2									
10								Fracture Mechanics and Fatigue	HÜ 1	Computational Analysis of Concrete Structures	HÜ 1
11								Structural Dynamics	VL 2	Structures	
12			Structural Dynamics	HÜ 2	FE-Modeling of Concrete Structures	PBL 2					
13	<b>Advanced Foundation Engineering and Soil Laboratory Course</b>		<b>Steel Construction Project</b>		<b>Selected Topics in Civil Engineering (part 1)</b>						
14	Advanced Foundation Engineering	VL 2	Steel Construction Project	PS 4	Selection from a catalog						
15	Advanced Foundation Engineering	HÜ 1									
16	Soil Laboratory Course	PR 1									
17					<b>Structural Analysis - Selected Topics</b>						
18					Plates and Shells	VL 2					
19	<b>Concrete Structures</b>		<b>Marine Geotechnics and Numerics</b>		Nonlinear Analysis of Frame Structure	VL 2					
20	Structural Concrete Members	VL 2	Numerical Methods in Geotechnics	VL 3	Nonlinear Analysis of Frame Structure	HÜ 2					
21	Structural Concrete Members	HÜ 2									
22	Concrete Structures	SE 1					Marine Geotechnics	VL 1			
23			Marine Geotechnics	HÜ 1							
24											
25	<b>Steel and Composite Structures</b>										
26	Steel Bridges	VL 2									
27	Steel and Composite Structures	VL 2									
28	Steel and Composite Structures	HÜ 2									
29											
30											
31											
32											
33											
Business & Management (from catalogue) - 6LP											
Nontechnical Elective Complementary Courses for Master (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.

