

# Environmental Engineering

## Study Year 1, Academic Year 2013/14 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	13/14	13/14	13/14	13/14
								sp1	sp2	sp3	sp4
<a href="#">FMAA05</a>	15	G1	-	S	Calculus in One Variable		<a href="#">KS KE U W T</a>	1	2		
<a href="#">VVR111</a>	15	G1	X	E	Hydrology and Aquatic Ecology		<a href="#">KS KE U W T</a>	1	2		
<a href="#">FAFA20</a>	10	G1	-	S	Energy and Environmental Physics	X	<a href="#">KS KE U W T</a>			3	
<a href="#">KOOA01</a>	5	G1	-	S	Introductory Chemistry		<a href="#">KS KE U W T</a>			3	
<a href="#">VTGA05</a>	5	G1	-	S	Engineering Geology		<a href="#">KS KE U W T</a>				4
<a href="#">EXTA01</a>	10	G1	X	E	Terrestrial Ecology		<a href="#">KS KE U W T</a>				4

[FAFA20](#) Energy and Environmental Physics: *Anmälan till laborationsgrupp vid introduktionsföreläsningen är obligatorisk.*

## **Study Year 2, Academic Year 2014/15 (Mandatory Courses)**

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	14/15	14/15	14/15	14/15
								sp1	sp2	sp3	sp4
<a href="#">EMA420</a>	6	G1	-	S	Linear Algebra		<a href="#">KS KE U W T</a>	1			
<a href="#">KFKA01</a>	10	G1	-	S	Thermodynamics and Surface Chemistry		<a href="#">KS KE U W T</a>	1			
<a href="#">FHL055</a>	7.5	G1	-	S	Engineering Mechanics		<a href="#">KS KE U W T</a>		2		
<a href="#">KOKA10</a>	7	G1	-	S	Organic Chemistry		<a href="#">KS KE U W T</a>		2		
<a href="#">KMBF01</a>	15	G2	X	E	Molecular Cell Biology		<a href="#">KS KE U W T</a>			3	
<a href="#">KOOF01</a>	5	G2	X	E	Applied Aquatic Chemistry		<a href="#">KS KE U W T</a>				4
<a href="#">EKFF01</a>	4	G2	X	E	Atmospheric Chemistry and Physics		<a href="#">KS KE U W T</a>				4

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links					
							14/15 sp1	14/15 sp2	14/15 sp3	14/15 sp4		
<a href="#">EMA430</a>	6	G1	-	S	Calculus in Several Variables		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4

**Study Year 3, Academic Year 2015/16 (Mandatory Courses)**

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	15/16	15/16	15/16	15/16
								sp1	sp2	sp3	sp4
<a href="#">VVR120</a>	7.5	G2	X	E	Fluid Mechanics		<a href="#">KS KE U W T</a>	1			
<a href="#">EMS140</a>	7.5	G2	-	S	Mathematical Statistics, Basic Course		<a href="#">KS KE U W T</a>	1			
<a href="#">MIO012</a>	6	G1	-	S	Managerial Economics, Basic Course	X	<a href="#">KS KE U W T</a>		2		
<a href="#">KTE170</a>	15	G2	X	E	Mass Transfer Processes in Environmental Engineering		<a href="#">KS KE U W T</a>		2	3	
<a href="#">EMIF05</a>	12	G2	-	S	Environmental Management		<a href="#">KS KE U W T</a>			3	4
<a href="#">ERT110</a>	6	G2	-	E	Systems Engineering		<a href="#">KS KE U W T</a>				4

[MIO012](#) Managerial Economics, Basic Course: *Only one of the courses [MIO012](#) and [MIOA01](#) may be included in a degree.*

## Study Year 3, Academic Year 2015/16 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	15/16	15/16	15/16	15/16
								sp1	sp2	sp3	sp4
<a href="#">EDA016</a>	7.5	G1	-	S	Programming, First Course		<a href="#">KS KE U W T</a>	1	2		
<a href="#">EDA501</a>	6	G1	-	S	Programming, First Course	X	<a href="#">KS KE U W T</a>		2	3	4
<a href="#">FMS072</a>	7.5	G2	X	E1	Design of Experiments		<a href="#">KS KE U W T</a>				4
<a href="#">ETE115</a>	7.5	G2	-	S	Electromagnetics and Electronics		<a href="#">KS KE U W T</a>				4
<a href="#">MVKN15</a>	7.5	A	-	S	Energy Supply Systems		<a href="#">KS KE U W T</a>				4

[EDA501](#) Programming, First Course: *The course begins with a few lectures at the end of period 2, but the majority of the course is given in period 3 and 4.*

### Specialisation es - Energy Systems

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links			
											sp1	sp2	sp3	sp4
<a href="#">MVKN40</a>	5	A	V		4 - 16/17	3	X	S	District Heating and Cooling	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">AEB010</a>	7.5	G2	V		4 - 16/17	4	X	E	Solar Heating Technology, Basic Course	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">EMI050</a>	7.5	A	V		4 - 16/17	4	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">EMI055</a>	7.5	A	V		4 - 16/17	4	-	S	Environmental Systems Studies: Life Cycle Analysis	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">MVKN35</a>	6	A	V		4 - 16/17	4	-	S	Energy Markets	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">MVKN65</a>	7.5	A	V		4 - 16/17	3	X	E1	Power Plant Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">MVKN20</a>	7.5	A	V		4 - 16/17	4	-	S	Energy Utilization	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
<a href="#">EMI040</a>	7.5	A	V	4 - 16/17	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">EMIN05</a>	7.5	A	V	4 - 16/17	4	X	E1	Environmental System Studies: Climate, Science and Politics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">MVKN15</a>	7.5	A	V	4 - 16/17	3	-	S	Energy Supply Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">EMI070</a>	7.5	A	V	4 - 16/17	4	X	E	Environmental Issues, Thematic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">FBR012</a>	7.5	G2	V	4 - 16/17	3	X	E	Fundamental Combustion		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">MVKN30</a>	7.5	A	V	5 - 17/18	5	-	S	Advanced Efficient Energy Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">EIEN10</a>	7.5	A	V	5 - 17/18	2	X	E1	Wind Power Systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		



## Specialisation ms - Environmental Systems

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
<a href="#">EMI050</a>	7.5	A	V	4 - 16/17	4	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2			
<a href="#">EMI110</a>	7.5	A	V	4 - 16/17	4	-	S	Environmental Management Systems	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2			
<a href="#">EMI055</a>	7.5	A	V	4 - 16/17	4	-	S	Environmental Systems Studies: Life Cycle Analysis	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2			
<a href="#">EMIF40</a>	15	G2	V	4 - 16/17	4	-	S	Solid Waste Management and Resource Management	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2			
<a href="#">EMIN05</a>	7.5	A	V	4 - 16/17	4	X	E1	Environmental System Studies: Climate, Science and Politics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4	
<a href="#">EMI085</a>	15	A	V	4 - 16/17	4	-	S	Environmental Systems Studies: Environmental Impact Assessment	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4	
<a href="#">FKF100</a>	7.5	A	V	4 - 16/17	3	X	E	Methods for Environmental Monitoring	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links					
										sp1	sp2	sp3	sp4		
<a href="#">EMI070</a>	7.5	A	V	4 - 16/17	4	X	E	Environmental Issues, Thematic Course		<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	4
<a href="#">EMAN01</a>	7.5	A	V	4 - 16/17	3	X	E1	Biomathematics	X	<a href="#">KS</a>	<a href="#">KE</a>	<a href="#">U</a>	<a href="#">W</a>	<a href="#">T</a>	Course on hold

[EMAN01](#) Biomathematics: *The course is offered every other academic year and will next be offered in 2017/18.*

## Specialisation p - Process Design

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
<a href="#">KETN20</a>	15	A	O	4 - 16/17	4	X	E1	Sustainable Process Design		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">KTE071</a>	7.5	A	V	4 - 16/17	4	X	E	Biochemical Reaction Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">KBT115</a>	7.5	G2	V	4 - 16/17	3	X	E1	Bioprocess Technology	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">KETF20</a>	7.5	G2	V	4 - 16/17	4	X	E1	Chemical Engineering Processes		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">EMI055</a>	7.5	A	V	4 - 16/17	4	-	S	Environmental Systems Studies: Life Cycle Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">KETN10</a>	7.5	A	V	4 - 16/17	4	X	E	Applied Transport Phenomena		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>		2		
<a href="#">KBT080</a>	7.5	G2	V	4 - 16/17	3	X	E	Environmental Biotechnology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
<a href="#">KTE131</a>	7.5	G2	V	4 - 16/17	3	-	S	Loss Prevention		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">KETN01</a>	7.5	A	V	4 - 16/17	3	X	E1	Process Simulation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">EMI040</a>	7.5	A	V	4 - 16/17	4	-	S	Energy Systems Analysis: Renewable Sources of Energy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">KET050</a>	15	A	V	4 - 16/17	4	X	E1	Feasibility Studies on Industrial Plants		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">KBTN05</a>	7.5	A	V	5 - 17/18	4	X	E	Downstream Processing in Biotechnology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>		2		

[KBT115](#) Bioprocess Technology: *The course is given in English in study period 1 for the W programme*

## Specialisation vr - Water Resources Engineering

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
			V								Footnote	sp1	sp2	sp3
<a href="#">VVR01</a>	7.5	G2	V	4 - 16/17	3	X	E	Integrated Water Resources Management: International Aspects		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">VVA030</a>	15	A	V	4 - 16/17	4	X	E	Urban Waters		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">VTGN10</a>	7.5	A	V	4 - 16/17	4	X	E	Groundwater Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">VTGN05</a>	7.5	A	V	4 - 16/17	4	X	E	Groundwater Modelling and Contaminant Transport		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">VVAN01</a>	7.5	A	V	4 - 16/17	4	X	E	Decentralized Water and Wastewater Treatment		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">VVR090</a>	7.5	A	V	4 - 16/17	3	X	E	Hydromechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">EXTF01</a>	7.5	G2	V	4 - 16/17	4	X	E1	Geographical Information Systems for Landscape Studies	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
											sp1	sp2	sp3	sp4
<a href="#">VVRN20</a>	7.5	A	V	4 - 16/17	4	X	E	Water, Society and Climate Change		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">VVRN40</a>	7.5	A	V	5 - 17/18	4	X	E	Environmental Hydraulics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">VVRN10</a>	7.5	A	V	5 - 17/18	4	X	E	Rainfall Runoff Modelling		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">VSMN25</a>	7.5	A	V	5 - 17/18	4	X	E1	The Finite Element Method - Flow Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">VVRN30</a>	7.5	A	V	5 - 17/18	4	X	E	Coastal Hydraulics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		
<a href="#">VVRN25</a>	7.5	A	V	5 - 17/18	4	X	E	Pipe System Engineering and Hydraulics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>		2		

[EXTF01](#) Geographical Information Systems for Landscape Studies: *The date and time of the exam is announced by the course lecturer.*

## Elective Courses - W



Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links				
			Year	From year						sp1	sp2	sp3	sp4
<a href="#">GEMA20</a>	7.5	G1	3 - 15/16	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">GEMA25</a>	7.5	G1	3 - 15/16	1	-	S	German for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">GEMA60</a>	7.5	G1	3 - 15/16	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">GEMA65</a>	7.5	G1	3 - 15/16	1	-	S	Chinese for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">T</a>			3	4
<a href="#">GEMA20</a>	7.5	G1	3 - 15/16	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">GEMA01</a>	7.5	G1	3 - 15/16	1	-	S	French for Engineers: Language, Culture and Society, First Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">EITA05</a>	4.5	G1	3 - 15/16	1	-	S	History of Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp1 sp2 sp3 sp4			
										sp1	sp2	sp3	sp4
<a href="#">GEMA60</a>	7.5	G1	3 - 15/16	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	4
<a href="#">VVRF05</a>	7.5	G2	3 - 15/16	3	-	E	International Summer Water Resources Research School	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>				4
<a href="#">MVKN50</a>	7.5	A	4 - 16/17	4	X	E1	Introduction to Combustion Engines		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">TEK035</a>	15	A	4 - 16/17	4	X	E1	Limnology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			
<a href="#">EDAA01</a>	7.5	G1	4 - 16/17	3	-	S	Programming - Second Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2		
<a href="#">TEK097</a>	15	A	4 - 16/17	4	-	S	Applied Ecotoxicology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">EMAE10</a>	5	G2	4 - 16/17	4	-	S	Applied Mathematics - Linear systems		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
<a href="#">ESSF15</a>	5	G2	4 - 16/17	4	-	S	Electrical Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">AEB020</a>	7.5	G2	4 - 16/17	4	X	E	Photovoltaic Systems, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">MVKN60</a>	7.5	A	4 - 16/17	4	X	E1	Theory of Turbo Machinery		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			3	
<a href="#">KII010</a>	7.5	G2	4 - 16/17	4	X	E1	Industrial Environmental Management		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			4	
<a href="#">EXTN25</a>	15	A	4 - 16/17	4	-	S	Water Management		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>			4	
<a href="#">VTGN01</a>	7.5	A	5 - 17/18	4	X	E	Field Investigation Methodology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1			

[GEMA20](#) English for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA25](#) German for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA60](#) Law for Engineers, Introductory Course in Business Law: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA65](#) Chinese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA01](#) French for Engineers: Language, Culture and Society, First Course: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[VVRF05](#) International Summer Water Resources Research School: *Most of the course is taught outside normal semester time.*

## Externally Elective Courses - W

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links				
										sp1	sp2	sp3	sp4
<a href="#">GEMA70</a>	15	G1	4 - 16/17	1	-	S	Japanese for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	1	2	3	
<a href="#">GEMA55</a>	6	G1	4 - 16/17	1	-	S	Medicine for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a> <a href="#">T</a>	Course on hold			

[GEMA70](#) Japanese for Engineers: *LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

[GEMA55](#) Medicine for Engineers: *The course is offered every other academic year and will be given in 2015/16, 2017/18 LTH common courses (courses where the course code begins with GEM) counts as external elective courses in the degree requirements for students admitted autumn 2011 and later.*

## Bachelor's Projects - W

The list contains the bachelor's projects that are included in the W programme. The list is not necessarily complete before the academic year 2016/17.

### Links

Course Code	Credits	Course Name	Links
MAML10	15	Bachelor Project in Aerosol Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
EXTL02	15	Bachelor Project in Ecology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
VTGL01	15	Bachelor Project in Engineering Geology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
FMIL01	15	Bachelor Project in Environmental Studies	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
VVRL01	15	Bachelor Project in Water Resources Engineering	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>

## Degree Projects - W

The list contains the degree project courses that are included in the W programme.

### Links

Course Code	Credits	Course Name	Links
MAMM05	30	Degree Project in Aerosol Technology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
KBTM05	30	Degree Project in Biotechnology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
KETM05	30	Degree Project in Chemical Engineering	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
EXTM20	30	Degree Project in Ecology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
AEBM05	30	Degree Project in Energy and Building Design	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
MVKM01	30	Degree Project in Energy Sciences	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
VTGM05	30	Degree Project in Engineering Geology	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>
FMIM01	30	Degree Project in Environmental Studies	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
MAMM10	30	Degree Project in Ergonomics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
PHYM01	30	Degree Project in Physics	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
VVAM05	30	Degree Project in Water and Environmental Engineering	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>
VVRM05	30	Degree Project in Water Resources Engineering	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>