

Engineering Mathematics

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10					
								sp4					
								F	O	L	H	S	
FMA420	6	G1	-	S	Linear Algebra		KS KE U W						
FMAA05	15	G1	-	S	Calculus in One Variable		KS KE U W						
FMA085	4.5	G1	-	S	Mathematical Communication		KS KE U W	8	8	0	14	48	
FMA045	4.5	G1	-	S	Mathematical Modelling		KS KE U W						
EDA011	7.5	G1	-	S	Programming, First Course		KS KE U W						
FMA435	7.5	G1	-	S	Calculus in Several Variables		KS KE U W	10	10	0	0	20	
FMEA15	7.5	G1	-	S	Mechanics - Statics and Dynamics		KS KE U W	24	16	0	0	27	
FAF220	7.5	G1	-	S	Physics		KS KE U W	40	24	20	0	115	

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10					
								sp4					
								F	O	L	H	S	
EXTA40	6	G1	-	S	Introduction to Microeconomic Theory		KS KE U W						
FMAF01	7	G2	-	S	Mathematics - Analytic Functions		KS KE U W						
EDAA01	7.5	G1	-	S	Programming - Second Course		KS KE U W						
FMAF05	7	G2	-	S	Mathematics - Systems and Transforms		KS KE U W						
FMS012	9	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W						
FRT010	7.5	G2	-	E2	Automatic Control, Basic Course		KS KE U W						
FMA021	7.5	A	-	S	Applied Mathematics		KS KE U W	24	12	6	0	60	
EMS045	6	G2	-	S	Stationary Stochastic Processes		KS KE U W	28	28	4	0	80	

Study Year 2 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4					
								F	O	L	H	S	
FMSN05	3	A	X	E	International Project Course-Mathematical Modelling	X	KS KE U W						
FRT130	3	G2	-	E2	Control Theory		KS KE U W						
FMA023	3	A	-	E1	Applied Mathematics, Project	X	KS KE U W	0	0	0	10	70	
FMSN05	3	A	X	E	International Project Course-Mathematical Modelling	X	KS KE U W	0	0	0	10	40	
FMS047	3	A	-	S	Stationary Stochastic Processes, Project Work		KS KE U W	0	0	4	6	70	

[FMSN05](#) International Project Course-Mathematical Modelling: *Begränsat deltagarantal. Spec. ansökningsförfarande. Kursen går inte i läsperioden utan i augusti.*

[FMA023](#) Applied Mathematics, Project: *Kursen fortsätter med ett redovisningstillfälle hösten 2010.*

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4					
								F	O	L	H	S	
ETEF01	7	G2	-	S	Electromagnetic Field Theory		KS KE U W						
EITF15	6	G2	-	S	Signal Processing - Theory and Applications		KS KE U W						
FMA120	6	A	-	S	Matrix Theory		KS KE U W						
FMNN10	8	A	X	E1	Numerical Methods for Differential Equations		KS KE U W						
FMIF10	6	G2	-	S	Environmental Systems Studies and Sustainable Development		KS KE U W						
TEK290	7.5	G2	X	E1	Biology, Introductory Course	X	KS KE U W						
FMA111	6	A	-	S	Mathematical Structures		KS KE U W						
FMNN15	4	A	X	E1	Multigrid Methods for Differential Equations		KS KE U						
EDAF15	5	G2	-	S	Algorithm Implementation		KS KE U W	24	12	12	0	85	
FRT095	4.5	A	-	S	Mathematical Modelling, Advanced Course		KS KE U W	4	0	0	6	100	

[TEK290](#) Biology, Introductory Course: *kursen startar under senare del av vårterminen*

Specialisation bm - Biological and Medical Modelling

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H
FMA051	6	A	V	3	3	X	E1	Optimization		KS KE U W					
FHL110	7.5	A	V	4	4	X	E	Biomechanics		KS KE U W					
EEM040	6	G2	V	4	3	-	S	Biomedical Measurements		KS KE U W					
FMA170	6	A	V	4	3	X	E2	Image Analysis		KS KE U W					
EMS091	7.5	A	V	4	3	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W					
FMA140	6	A	V	4	3	X	E2	Non-Linear Dynamical Systems		KS KE U W					
FAFF20	7.5	G2	V	4	4	X	E	Multi-spectral Imaging		KS KE U W					
TEK171	7.5	A	V	4	3	-	S	Quantitative Human Physiology		KS KE U W					
FMSN01	7.5	A	V	4	3	X	E1	Statistical Genetics		KS KE U W					
TEK292	7.5	A	V	4	3	-	S	Biological Systems		KS KE U W					
FMAN01	7.5	A	V	4	3	X	E2	Biomathematics		KS KE U W	14	0	2	0	86
GEMA55	6	G1	V	4	2	-	S	Medicine for Engineers		KS KE U W	36	0	0	0	40
ETI160	6	G2	V	4	3	X	E2	Biomedical Signal Processing		KS KE U W	14	14	0	24	80
EMS072	7.5	G2	V	4	3	X	E2	Design of Experiments		KS KE U W	14	14	0	14	150
FMS180	6	G2	V	4	3	-	S	Markov Processes		KS KE U W	28	14	6	0	100
FMS051	7.5	A	V	4	3	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	5	120
KFK090	7.5	G2	V	4	3	-	S	Molecular Interactions and Dynamics		KS KE U W	28	28	20	0	60

Specialisation bs - Computation and Simulation

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4				
			Year	From year	S.Ex. stud.	F	O				L	H	S		
FMA051	6	A	V	3	3	X	E1	Optimization		KS KE U W					
FHL105	4.5	G1	V	3	2	-	S	Solid Mechanics, Basic Course		KS KE U W					
FHL064	7.5	G2	O	4	3	X	E2	Finite Element Method	X	KS KE U W	32	28	0	0	140
FHLE01	6	G2	O	4	3	-	S	Finite Element Method	X	KS KE U W	32	28	0	0	140
FMN135	7.5	A	V	4	4	X	E1	Adaptive Methods for Differential Equations		KS KE U W					
ETEN05	7.5	A	V	4	4	X	E2	Electromagnetic Wave Propagation		KS KE U W					
FMS091	7.5	A	V	4	3	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W					
FMNN01	7.5	A	V	4	3	X	E	Numerical Linear Algebra		KS KE U W					
FMNN05	7.5	A	V	4	4	X	E1	Simulation Tools		KS KE U W					
FMA260	7.5	A	V	4	3	X	E2	Functional Analysis and Harmonic Analysis		KS KE U W					
KTE061	7.5	A	V	4	4	-	S	Chemical Reaction Engineering, Advanced Course	X	KS KE U W					
FMEN10	8	A	V	4	3	X	E2	Mechanical Vibrations		KS KE U W					
FMA250	7.5	A	V	4	3	X	E2	Partial Differential Equations with Distribution Theory		KS KE U W					
FFFF01	7.5	G2	V	4	4	-	S	Electronic Materials		KS KE U W					
MMV211	7.5	G2	V	4	3	X	S	Fluid Mechanics		KS KE U W					
FMN110	7.5	A	V	4	3	X	E1	Numerical Methods in Multibody Dynamics		KS KE U W					
VSM045	7.5	A	V	4	4	-	E2	Scientific and Technical Computing		KS KE U W					
KFK090	7.5	G2	V	4	3	-	S	Molecular Interactions and Dynamics		KS KE U W	28	28	20	0	60

[FHL064](#) Finite Element Method: *Bara en av kurserna [FHLE01](#) och [FHL064](#) kan räknas i examen*

[FHLE01](#) Finite Element Method: *Bara en av kurserna [FHLE01](#) och [FHL064](#) kan räknas i examen*

[KTE061](#) Chemical Reaction Engineering, Advanced Course: *Hemtentamen*

Specialisation fm - Financial Modelling

Course Code	Credits	Cycle	Mand./ Elect.		Language			Course Name	Footnote	Links	sp4	F O L H S						
			Year	From year	S.Ex. stud.													
FMA051	6	A	V	3	3	X	E1	Optimization		KS KE U W								
FMA240	6	G2	V	3	3	X	E2	Linear and Combinatorial Optimization		KS KE U W								
EXTF50	7.5	G2	O	4	3	-	S	Microeconomic Analysis	X	KS KE U W								
EXTF50									X									
TEK103	7.5	A	V	4	3	X	E	Financial Economics, Advanced Course		KS KE U W								
MTTF01	5	G2	V	4	3	-	S	Logistics		KS KE U								
MIO012	6	G1	V	4	3	-	S	Managerial Economics, Basic Course	X	KS KE U W								
EMF170	7.5	G2	V	4	3	X	E	Complex Economy		KS KE U W								
TEK090	7.5	A	V	4	4	X	E1	Economics, Information, Risk and Uncertainty		KS KE U W								
MIO012	6	G1	V	4	3	-	S	Managerial Economics, Basic Course	X	KS KE U W								
FMS155	7.5	A	V	4	3	X	E2	Statistical Modelling of Extreme Values		KS KE U W								
TEK180	7.5	A	V	4	3	X	E	Financial Valuation and Risk Management		KS KE U W								
MIO040	6	G2	V	4	3	-	S	Managerial Economics, Advanced Course	X	KS KE U W								
FMSF05	7.5	G2	V	4	3	-	E2	Probability Theory		KS KE U W								
FMS170	9	A	V	4	3	X	E1	Valuation of Derivative Assets		KS KE U W	14	14	4	1	60			
MIO040	6	G2	V	4	3	-	S	Managerial Economics, Advanced Course	X	KS KE U W	40	14	10	1	96			
FRTN20	7.5	A	V	4	3	-	E2	Market-driven Systems		KS KE U W	28	28	8	0	70			
FMS180	6	G2	V	4	3	-	S	Markov Processes		KS KE U W	28	14	6	0	100			
FMS051	7.5	A	V	4	3	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	5	120			

[EXTF50](#) Microeconomic Analysis: *Kursen ges två gånger 2009/2010.*

[MIO012](#) Managerial Economics, Basic Course: *Kursen ges två gånger per läsår. Endast en av kurserna [MIO012](#) och [MIOA01](#) får ingå i examen.*

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår.*

Specialisation mrk - Environment, Risk and Climate

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H	S
FMA051	6	A	V		3	3	X	E1	Optimization		KS KE U W					
FMS091	7.5	A	V		4	3	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W					
VVR140	7.5	A	V		4	3	X	E	Rural Waters		KS KE U W					
FMIN05	7.5	A	V		4	4	-	S	Environmental System Studies: Climate, Science and Politics	X	KS KE U W					
FMA140	6	A	V		4	3	X	E2	Non-Linear Dynamical Systems		KS KE U W					
VBR180	15	A	V		4	3	-	S	Risk Analysis Methods		KS KE U W					
FAFF20	7.5	G2	V		4	4	X	E	Multi-spectral Imaging		KS KE U W					
FMS150	7.5	A	V		4	3	X	E2	Statistical Image Analysis		KS KE U W					
FMS155	7.5	A	V		4	3	X	E2	Statistical Modelling of Extreme Values		KS KE U W					
TEK292	7.5	A	V		4	3	-	S	Biological Systems		KS KE U W					
FMIN05	7.5	A	V		4	4	-	S	Environmental System Studies: Climate, Science and Politics	X	KS KE U W	18	4	3	1	74
FMS051	7.5	A	V		4	3	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	5	120
EXTN15	7.5	A	V		4	3	-	E2	Remote Sensing, Digital Methods		KS KE U W	22	38	0	0	140

[FMIN05](#) Environmental System Studies: Climate, Science and Politics: *Kursen ges två ggr 2009/2010*

Specialisation sbs - Signals, Images and Systems

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4	F O L H S						
			Year	From year	S.Ex.	stud.	Course Name	Year	From year			S.Ex.	stud.	Year	From year	S.Ex.	stud.	
FMA051	6	A	V	3	3	X	E1	Optimization	KS KE U W									
EDAN05	7.5	A	V	4	3	X	E	Algorithm Theory	KS KE U W									
EDA221	7.5	G2	V	4	3	X	E2	Computer Graphics	KS KE U W									
ETT051	7.5	G2	V	4	3	X	E2	Digital Communications	KS KE U W									
FMA170	6	A	V	4	3	X	E2	Image Analysis	KS KE U W									
FMS091	7.5	A	V	4	3	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference	KS KE U W									
ETT074	6	A	V	4	3	X	S	Optimum Signal Processing	KS KE U W									
EIT020	9	G2	V	4	3	-	S	Design of Digital Circuits & A Systems Approach	KS KE U W									
FMA260	7.5	A	V	4	3	X	E2	Functional Analysis and Harmonic Analysis	KS KE U W									
FMA140	6	A	V	4	3	X	E2	Non-Linear Dynamical Systems	KS KE U W									
ETT042	6	A	V	4	3	X	E2	Adaptive Signal Processing	KS KE U W									
FMS150	7.5	A	V	4	3	X	E2	Statistical Image Analysis	KS KE U W									
FRTN10	7.5	A	V	4	3	X	E1	Multivariable Control	KS KE U W									
EIT080	7.5	G2	V	4	3	-	S	Information Theory	KS KE U W		28	28	0	0	56			
FMS180	6	G2	V	4	3	-	S	Markov Processes	KS KE U W		28	14	6	0	100			
FMS051	7.5	A	V	4	3	X	E2	Mathematical Statistics, Time Series Analysis	KS KE U W		32	6	12	5	120			
FRTN05	7.5	A	V	4	3	X	E1	Non-Linear Control and Servo Systems	KS KE U W		28	28	12	0	112			

Elective Courses - PI

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
FMA135	6	G1	1	1	X	E2	Geometry		KS KE U W					
FMA091	6	G1	1	1	-	S	Discrete Mathematics		KS KE U W	36	28	0	0	104
FMF061	4.5	G2	2	2	-	S	Theory of Relativity		KS KE U W					
FMA115	6	A	2	2	X	E2	Computer Algebra		KS KE U W	14	0	0	0	66
FMA125	3	A	3	3	-	E1	Matrix Theory, Project		KS KE U W					
FMA051	6	A	3	3	X	E1	Optimization		KS KE U W					
FHL105	4.5	G1	3	2	-	S	Solid Mechanics, Basic Course		KS KE U W					
FMA240	6	G2	3	3	X	E2	Linear and Combinatorial Optimization		KS KE U W					
FMA130	6	A	3	3	X	E2	Analytic Functions, Advanced Course		KS KE U W	14	0	0	0	66
FMN135	7.5	A	4	4	X	E1	Adaptive Methods for Differential Equations		KS KE U W					
EDAN05	7.5	A	4	3	X	E	Algorithm Theory		KS KE U W					
FHL110	7.5	A	4	4	X	E	Biomechanics		KS KE U W					
EEM040	6	G2	4	3	-	S	Biomedical Measurements		KS KE U W					
EDA150	3	G1	4	3	X	S	C Programming	X	KS KE U W					
FHLN05	7.5	A	4	4	-	E2	Computational Inelasticity		KS KE U W					
ETS052	4.5	G2	4	3	X	E2	Computer Communication		KS KE U W					
EDA221	7.5	G2	4	3	X	E2	Computer Graphics		KS KE U W					
FMEN20	8	A	4	3	X	E2	Continuum Mechanics	X	KS KE U W					
ETT051	7.5	G2	4	3	X	E2	Digital Communications		KS KE U W					
ETI130	6	A	4	3	X	E	Digital IC-design		KS KE U W					
ETEN05	7.5	A	4	4	X	E2	Electromagnetic Wave Propagation		KS KE U W					
EDI042	7.5	A	4	4	X	S	Error Control Coding		KS KE U W					
TEK103	7.5	A	4	3	X	E	Financial Economics, Advanced Course		KS KE U W					
FMA170	6	A	4	3	X	E2	Image Analysis		KS KE U W					
INN001	7.5	G1	4	3	X	E2	Introduction to Innovation Management		KS KE U W					
MTTF01	5	G2	4	3	-	S	Logistics		KS KE U					
MIO012	6	G1	4	3	-	S	Managerial Economics, Basic Course	X	KS KE U W					
EXTF50	7.5	G2	4	3	-	S	Microeconomic Analysis	X	KS KE U W					
FMS091	7.5	A	4	3	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W					
FMNN01	7.5	A	4	3	X	E	Numerical Linear Algebra		KS KE U W					
FMN100	6	A	4	3	X	E1	Numerical Methods in CAGD		KS KE U W					

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links	sp4	F	O	L	H	S
			Year	From year	S.Ex. stud.										
ETT074	6	A	4	3	X	S	Optimum Signal Processing		KS KE U W						
VVR140	7.5	A	4	3	X	E	Rural Waters		KS KE U W						
FMNN05	7.5	A	4	4	X	E1	Simulation Tools		KS KE U W						
ETS032	7.5	G2	4	4	-	S	Software Development for Large Systems		KS KE U W						
GEMA30	4.5	G1	4	2	-	S	Swedish for Engineers		KS KE U W						
KFK080	7.5	G1	4	3	-	S	Thermodynamics		KS KE U W						
EIT020	9	G2	4	3	-	S	Design of Digital Circuits & A Systems Approach		KS KE U W						
FMI050	7.5	A	4	1	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources		KS KE U W						
GEMA20	7.5	G1	4	2	-	E	English for Engineers	X	KS KE U W						
GEMF01	7.5	G2	4	2	-	S	Environmental Science		KS KE U W						
GEMA05	7.5	G1	4	2	-	S	French for Engineers: Language, Culture and Society, Second Course		KS KE U W						
FMA260	7.5	A	4	3	X	E2	Functional Analysis and Harmonic Analysis		KS KE U W						
GEMF05	7.5	G2	4	2	X	E	Gender in Science and Engineering		KS KE U						
GEMA25	7.5	G1	4	2	-	S	German for Engineers		KS KE U						
GEMA50	4.5	G1	4	2	-	S	History of Technology		KS KE U W						
EDA171	7.5	A	4	3	X	E2	Language Processing and Computational Linguistics		KS KE U W						
GEMA60	7.5	G1	4	2	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W						
FMA140	6	A	4	3	X	E2	Non-Linear Dynamical Systems		KS KE U W						
FMS110	7.5	A	4	3	X	E1	Non-Linear Time Series Analysis		KS KE U W						
FRTN15	7.5	A	4	3	X	E1	Predictive Control		KS KE U W						
FRTN01	10	A	4	4	X	E1	Real-Time Systems		KS KE U W						
VBR180	15	A	4	3	-	S	Risk Analysis Methods		KS KE U W						
MMT150	7.5	G2	4	4	X	E1	Robot Technology		KS KE U W						
GEMA10	7.5	G1	4	2	-	S	Spanish for Engineers: Language, Culture and Society, First Course		KS KE U W						
ETT042	6	A	4	3	X	E2	Adaptive Signal Processing		KS KE U W						
ETE100	6	A	4	3	X	E	Antenna Technology		KS KE U W						
KTE061	7.5	A	4	4	-	S	Chemical Reaction Engineering, Advanced Course	X	KS KE U W						

Course Code	Credits	Cycle	Language				Course Name	Footnote	Links	sp4
			Year	From year	S.Ex. stud.					
TEK210	4.5	G1	4	4	-	S	Cognition	KS KE U W		
EMF170	7.5	G2	4	3	X	E	Complex Economy	KS KE U W		
EDI051	7.5	G2	4	4	X	S	Cryptography	KS KE U W		
TEK110	7.5	A	4	4	X	E	Economics, Empirical Finance	KS KE U W		
TEK090	7.5	A	4	4	X	E1	Economics, Information, Risk and Uncertainty	KS KE U W		
VTA030	4.5	A	4	4	X	E1	Engineering Acoustics, Introductory Course	KS KE U		
FHL066	7.5	A	4	4	X	E2	Finite Element Method for Non-linear Systems	KS KE U W		
EDA120	6	G2	4	3	X	E2	Functional Programming	KS KE U W		
FMA175	3	A	4	3	X	E1	Image Analysis, Project	KS KE U W		
MIO012	6	G1	4	3	-	S	Managerial Economics, Basic Course	X KS KE U W		
FMEN10	8	A	4	3	X	E2	Mechanical Vibrations	KS KE U W		
TEK145	7.5	A	4	4	X	E	Microeconomics - Theory for Individual Choice and Game Theory	KS KE U W		
ETEN01	7.5	A	4	4	X	E2	Microwave Theory	KS KE U W		
EDA075	7.5	A	4	3	X	S	Mobile Graphics	KS KE U W		
FAFF20	7.5	G2	4	4	X	E	Multi-spectral Imaging	KS KE U W		
FMA145	3	A	4	3	X	E1	Non-linear Dynamical Systems, Project	KS KE U W		
TEK171	7.5	A	4	3	-	S	Quantitative Human Physiology	KS KE U W		
FMSN01	7.5	A	4	3	X	E1	Statistical Genetics	KS KE U W		
FMS150	7.5	A	4	3	X	E2	Statistical Image Analysis	KS KE U W		
FMS155	7.5	A	4	3	X	E2	Statistical Modelling of Extreme Values	KS KE U W		
TEK275	7.5	A	4	3	-	E1	Theoretical Evolutionary Biology	KS KE U W		
MVK140	7.5	A	4	4	X	E1	Turbulence & Theory and Modelling	KS KE U W		
FMA250	7.5	A	4	3	X	E2	Partial Differential Equations with Distribution Theory	KS KE U W		
EDA260	6	G2	4	4	-	S	Software Development in Teams & Project	KS KE U W		
ETI135	4.5	A	4	3	X	E	Advanced Digital IC Design	KS KE U W		
MIE080	7.5	G2	4	3	X	E1	Automation	KS KE U W		
TEK292	7.5	A	4	3	-	S	Biological Systems	KS KE U W		
EDA150	3	G1	4	3	X	S	C Programming	X KS KE U W		
FMS210	7.5	G2	4	3	-	S	Chemometrics	KS KE U		
EIT070	6	G2	4	3	-	S	Computer Organization	KS KE U W		
FMA270	6	A	4	3	X	E2	Computer Vision	KS KE U W		

F O L H S

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
EDAN01	7.5	A	4	4	X	E2	Constraint Programming		KS KE U W					
EDA216	7.5	G2	4	3	X	S	Database Technology		KS KE U W					
FFFF01	7.5	G2	4	4	-	S	Electronic Materials		KS KE U W					
TEK180	7.5	A	4	3	X	E	Financial Valuation and Risk Management		KS KE U W					
MMV211	7.5	G2	4	3	X	S	Fluid Mechanics		KS KE U W					
ETI280	6	G1	4	3	X	S	Intellectual Property Right Management (IPR)		KS KE U W					
MIO040	6	G2	4	3	-	S	Managerial Economics, Advanced Course	X	KS KE U W					
EDI075	6	A	4	3	X	E1	Mathematical Cryptology		KS KE U W					
EXTF50	7.5	G2	4	3	-	S	Microeconomic Analysis	X	KS KE U W					
TEK137	7.5	A	4	3	-	E1	Microeconomics - General Equilibrium Theory		KS KE U W					
FMEN01	8	A	4	3	X	E2	Multibody Dynamics		KS KE U W					
FRTN10	7.5	A	4	3	X	E1	Multivariable Control		KS KE U W					
FMN110	7.5	A	4	3	X	E1	Numerical Methods in Multibody Dynamics		KS KE U W					
FMSF05	7.5	G2	4	3	-	E2	Probability Theory		KS KE U W					
KETN01	7.5	A	4	3	X	E1	Process Simulation		KS KE U W					
VSM045	7.5	A	4	4	-	E2	Scientific and Technical Computing		KS KE U W					
FHLN01	7.5	A	4	4	X	E2	Structural Optimization		KS KE U W					
FMAN01	7.5	A	4	3	X	E2	Biomathematics		KS KE U W	14	0	2	0	86
EDA031	7.5	G2	4	3	X	S	C++ Programming		KS KE U W	0	0	0	0	60
GEMA65	7.5	G1	4	2	-	S	Chinese for Engineers		KS KE U	0	20	0	0	80
EDA180	7.5	G2	4	4	X	E2	Compiler Construction		KS KE U W	0	0	0	0	60
EMI040	7.5	A	4	1	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W	12	6	0	0	50
GEMA20	7.5	G1	4	2	-	E	English for Engineers	X	KS KE U W	20	0	0	0	30
GEMA40	7.5	G1	4	2	-	S	Entrepreneurship and Business Development		KS KE U W	23	0	0	5	75
GEMA01	7.5	G1	4	2	-	S	French for Engineers: Language, Culture and Society, First Course		KS KE U W	0	26	0	0	60
GEMA60	7.5	G1	4	2	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W	25	0	0	0	75
GEMA55	6	G1	4	2	-	S	Medicine for Engineers		KS KE U W	36	0	0	0	40
GEMA15	7.5	G1	4	2	-	S	Spanish for Engineers: Language, Culture and Society, Second Course		KS KE U	0	26	0	0	60
VTA060	9	G2	4	4	-	S	Structural Acoustics		KS KE U	14	14	14	0	88

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
FRT041	7.5	A	4	3	X	E1	System Identification		KS KE U W	0	0	14	0	70
GEMA45	3	G1	4	2	-	S	Teaching and Learning		KS KE U W	0	2	0	2	40
FMS170	9	A	4	3	X	E1	Valuation of Derivative Assets		KS KE U W	14	14	4	1	60
EDA101	7.5	A	4	3	X	E2	Advanced Shading and Rendering		KS KE U W	28	0	24	0	120
EDA116	3	A	4	3	-	S	Algorithm Implementation & Project Work on Multiprocessors		KS KE U W	4	0	0	6	70
EDAF05	5	G2	4	3	-	S	Algorithms, Data Structures and Complexity		KS KE U W	20	0	12	0	100
MVK150	6	A	4	4	X	E1	Applied Computational Fluid Mechanics (CFD), Basic Course		KS KE U W	28	34	0	0	75
MIE090	7.5	A	4	3	X	E1	Automation for Complex Systems		KS KE U W	42	0	60	20	70
ETI160	6	G2	4	3	X	E2	Biomedical Signal Processing		KS KE U W	14	14	0	24	80
FMA272	3	A	4	3	X	E1	Computer Vision, Project		KS KE U W	0	0	0	10	70
FMS072	7.5	G2	4	3	X	E2	Design of Experiments		KS KE U W	14	14	0	14	150
EITF01	9	G2	4	3	X	E	Digital Pictures & Compression		KS KE U W	28	14	0	10	188
FMI070	7.5	A	4	1	X	E2	Environmental Issues, Thematic Course		KS KE U W	4	4	10	4	178
FHL064	7.5	G2	4	3	X	E2	Finite Element Method	X	KS KE U W	32	28	0	0	140
FHLF01	6	G2	4	3	-	S	Finite Element Method	X	KS KE U W	32	28	0	0	140
FHL090	7.5	A	4	3	X	E2	Fracture Mechanics, Advanced Course		KS KE U W	28	28	0	0	144
KII010	7.5	G2	4	2	-	E2	Industrial Environmental Management	X	KS KE U W	28	0	0	32	80
EIT080	7.5	G2	4	3	-	S	Information Theory		KS KE U W	28	28	0	0	56
MIO040	6	G2	4	3	-	S	Managerial Economics, Advanced Course	X	KS KE U W	40	14	10	1	96
FRTN20	7.5	A	4	3	-	E2	Market-driven Systems		KS KE U W	28	28	8	0	70
FMS180	6	G2	4	3	-	S	Markov Processes		KS KE U W	28	14	6	0	100
FMS051	7.5	A	4	3	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	32	6	12	5	120
FAF150	7.5	A	4	3	X	E	Medical Optics	X	KS KE U W	24	15	10	70	80
KFK090	7.5	G2	4	3	-	S	Molecular Interactions and Dynamics		KS KE U W	28	28	20	0	60
FRTN05	7.5	A	4	3	X	E1	Non-Linear Control and Servo Systems		KS KE U W	28	28	12	0	112
EDA050	4.5	G2	4	3	X	S	Operating Systems		KS KE U W	24	8	8	0	90
EDAF01	3	G2	4	3	X	S	Operating Systems - Project		KS KE U W	4	0	0	0	75
FRT090	7.5	A	4	4	X	E1	Project in Automatic Control		KS KE U W	0	0	0	50	150
EXTN15	7.5	A	4	3	-	E2	Remote Sensing, Digital Methods		KS KE U W	22	38	0	0	140
ETIF01	6	G2	4	3	X	E2	Signal Processing - Design and Implementation		KS KE U W	24	24	8	0	100
ETS061	7.5	A	4	4	X	E2	Simulation		KS KE U W	14	8	0	78	40

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4										
		Year	From year	S.Ex. stud.																
VSM032	6	A	4	4	-	S	Software Development for Technical Applications		KS KE U W		F	O	L	H	S	8	28	0	0	130
FMF150	7.5	A	4	3	X	E1	Thermodynamics and Statistical Physics		KS KE U W		32	28	4	0	136					
EDA046	7.5	A	4	3	X	E2	Game Engine Technology	X	KS KE U W		Course on hold									

[EDA150](#) C Programming: *Kursen ges två gånger per år.*

[FMEN20](#) Continuum Mechanics: *Ersätter [FMF01](#).*

[MIO012](#) Managerial Economics, Basic Course: *Kursen ges två gånger per läsår. Endast en av kurserna [MIO012](#) och [MIOA01](#) får ingå i examen.*

[EXTF50](#) Microeconomic Analysis: *Kursen ges två gånger 2009/2010.*

[GEMA20](#) English for Engineers: *Kursen ges två gånger per läsår.*

[GEMA60](#) Law for Engineers, Introductory Course in Business Law: *Kursen ges två gånger per läsår.*

[KTE061](#) Chemical Reaction Engineering, Advanced Course: *Hemtentamen*

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår.*

[FHL064](#) Finite Element Method: *Bara en av kurserna [FHLF01](#) och [FHL064](#) kan räknas i examen*

[FHLF01](#) Finite Element Method: *Bara en av kurserna [FHLF01](#) och [FHL064](#) kan räknas i examen*

[KII010](#) Industrial Environmental Management: *Tentamen enligt överenskommelse.*

[FAF150](#) Medical Optics: *Tentamen (för högre betyg) enligt överenskommelse.*

[EDA046](#) Game Engine Technology: *Periodiserad. Ges nästa gång vt 2011.*

Degree Projects - PI

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

Links

Course Code	Credits	Course Name	
FRT820	30	Degree Project in Automatic Control for Engineers	U
EDA920	30	Degree Project in Computer Sciences for Engineers	U
EITM01	30	Degree Project in Electrical and Information Technology	U
FMS820	30	Degree Project in Mathematical Statistics for Engineers	U
FMA820	30	Degree Project in Mathematics for Engineers	U
FMN820	30	Degree Project in Numerical Analysis	U
FHL820	30	Degree Project in Solid Mechanics for Engineers	U
VSM920	30	Degree Project in Structural Mechanics for Engineers	U
TMA820	30	Degree Project in Technology Management	U