

Electrical Engineering

Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08 sp4
FMAA05	15	G1	-	S	Calculus in One Variable		KS KE U W	
ESS010	15	G1	-	S	Electronics		KS KE U W	
EDA017	9	G1	-	S	Programming, First Course		KS KE U W	
FMA420	6	G1	-	S	Linear Algebra		KS KE U W	
FMA430	6	G1	-	S	Calculus in Several Variables		KS KE U W	1
EAFA01	9	G1	-	S	Physics - Mechanics and Waves		KS KE U W	1

Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08 sp4
FMA037	6	G2	-	S	Complex Analysis	X	KS KE U W	
EIT020	9	G2	-	S	Design of Digital Circuits – A Systems Approach		KS KE U W	
EIT070	6	G2	-	S	Computer Organization		KS KE U W	
ESS020	6	G2	-	S	Analogue Circuits		KS KE U W	
FMA036	7.5	G2	-	S	Linear Analysis		KS KE U W	
ESS030	4.5	G2	-	S	Physics of Devices		KS KE U W	
FMS012	9	G2	-	S	Mathematical Statistics, Basic Course		KS KE U W	1
ESS040	6	G2	X	S	Systems and Signals		KS KE U W	1

[FMA037](#) Complex Analysis: Kurserna [FMA037](#) Komplex analys och [FMA280](#) Funktionsteori är alternativobligatoriska. Endast en av kurserna får ingå i examen.

Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	07/08 sp4
FRT010	7.5	G2	-	E2	Automatic Control, Basic Course		KS KE U W	
ESS060	4.5	G2	-	S	Electrical Engineering		KS KE U W	
ESS050	9	G2	-	S	Electromagnetic Fields		KS KE U W	
ETS052	4.5	G2	X	E2	Computer Communication		KS KE U W	
ESS070	4.5	G2	-	S	Electrical Measurements		KS KE U W	
ESS081	6	G2	-	S	Analysis: Engineering Aspects of an Application		KS KE U W	
FMN050	6	G2	X	E1	Numerical Analysis		KS KE U W	1

Specialisation bg - Images and Computer Graphics

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
FMA135	6	G1	V	3	2	X	E2	Geometry		KS KE U W	
EMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W	
FMA120	6	A	V	3	2	-	S	Matrix Theory		KS KE U W	1
ETI270	6	G2	V	3	2	X	E2	Digital Signal Processing in Audio/Video		KS KE U W	1
EDA075	7.5	A	V	4	2	X	S	Mobile Graphics		KS KE U W	
FMN100	6	A	V	4	2	X	E1	Numerical Methods in CAGD		KS KE U W	
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W	
ETT042	6	A	V	4	2	X	E2	Adaptive Signal Processing		KS KE U W	
EDA221	7.5	G2	V	4	2	X	E2	Computer Graphics		KS KE U W	
FAF141	6	G2	V	4	2	X	E	Multi-spectral Imaging		KS KE U W	
FMS150	7.5	A	V	4	2	X	E2	Statistical Image Analysis		KS KE U W	
FMA270	6	A	V	4	2	X	E2	Computer Vision		KS KE U W	
EDA046	7.5	A	V	4	2	X	E2	Game Engine Technology		KS KE U W	
EDA101	7.5	A	V	4	2	X	E2	Advanced Shading and Rendering		KS KE U W	1
EITF01	9	G2	V	4	2	X	E	Digital Pictures & Compression		KS KE U W	1

Specialisation dps - System on Chips and Processor Design

Course Code	Credits	Mand./ Elect.		Language			Links		Footnote	sp4
		Cycle	Year	From year	S.Ex. stud.	Course Name				
ETI130	6	A	V	3	2	X	E	Digital IC-design	KS KE U W	
EIT090	9	G2	V	3	2	X	E2	Computer Architecture	KS KE U W	
ETI220	6	A	V	3	2	X	E	Integrated A/D and D/A Converters	KS KE U W	
ETI290	6	A	V	3	2	X	E1	Advanced Analogue Design	KS KE U W	1
EIT025	7.5	G2	V	3	2	X	E	Computer Arithmetic	KS KE U W	1
EDA380	6	G2	V	3	2	X	E2	Design of Embedded Systems	KS KE U W	1
ETI200	4.5	A	V	3	2	X	E	System-on-Chip Design	KS KE U W	1
ETI063	6	A	V	4	2	X	E	Analogue IC-design	KS KE U W	
EIT120	7.5	G2	V	4	2	X	E	Introduction to Structured VLSI Design	KS KE U W	
FFF110	7.5	G2	V	4	2	X	E2	Processing and Device Technology	KS KE U W	
FFF021	7.5	A	V	4	2	X	E1	Semiconductor Physics	KS KE U W	
ETI180	6	A	V	4	2	X	E	DSP-design	KS KE U W	
EIT130	12	A	V	4	2	X	E	VLSI Architecture	KS KE U W	
ETIN01	12	A	V	4	2	X	E	IC-project & Verification	KS KE U W	1
ETI135	4.5	A	V	4	2	X	E	Advanced Digital IC Design	KS KE U W	

Course Code	Credits	Cycle		Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
ETI170	6	A	V	4	2	X	E	Integrated Radio Electronics			KS KE U W		
EDT081	7.5	A	V	4	2	X	E	Computer System Project			KS KE U W	1	
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X		KS KE U W	1	
EDA385	7.5	A	V	4	2	X	E2	Design of Embedded Systems, Advanced Course	X		KS KE U W	Course on hold	

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

[EDA385](#) Design of Embedded Systems, Advanced Course: *Kursen ges nästa gång hösten 2008.*

Specialisation em - Energy and Environment

Course Code	Credits	Cycle		Mand./ Elect.			Language		Course Name	Footnote	Links	sp4
		Year	From year	S.Ex.	stud.							
GEMF01	7.5	G2	V	3	2	-	S	Environmental Science		KS KE U W		
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W		
MVK061	6	A	V	4	2	-	E1	Energy Utilisation		KS KE U W		
TEK070	7.5	G2	V	4	2	-	S	Safety, Health and Environmental Law		KS KE U W		
FMI050	7.5	A	V	4	2	-	S	Energy Systems Analysis: Energy, Environment and Natural Resources		KS KE U W		
FMI055	7.5	A	V	4	2	-	S	Environmental Systems Studies: Life Cycle Analysis		KS KE U W		
EIE015	12	A	V	4	2	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W		
EIE061	7.5	A	V	4	2	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W		
EIE030	6	A	V	4	2	X	E1	Electric Power Systems		KS KE U W		
MVK071	6	A	V	4	2	-	E1	Energy Supply Systems		KS KE U W		
AEB020	7.5	G2	V	4	2	X	E1	Photovoltaic Systems, Basic Course		KS KE U W		
EIE050	6	A	V	4	2	X	E1	Design of Electrical Machines	X	KS KE U W	1	
FMI040	7.5	A	V	4	2	-	S	Energy Systems Analysis: Renewable Sources of Energy		KS KE U W	1	
FKF100	7.5	A	V	4	2	X	E1	Methods for Environmental Monitoring		KS KE U W	1	
EIE061	7.5	A	V	4	2	X	E1	Project in Industrial Electrical Engineering and Automation	X	KS KE U W	1	

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
KII010	7.5	G2	V	4	2	-	S	Industrial Environmental Management	X	KS KE U W	1

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: *EIE015 får inte ingå i examen tillsammans med någondera av [EIE023](#) Kraftelektronik eller [EIE042](#) Kraftelektronisk reglerteknik.*

[EIE061](#) Project in Industrial Electrical Engineering and Automation: *Kursen ges två gånger per år. Tentamen efter överenskommelse.*

[EIE050](#) Design of Electrical Machines: *Tentamen (för högre betyg) efter överenskommelse.*

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

Specialisation ks - Communication Systems

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
ETS075	4.5	G2	V	3	3	X	S	Queuing System		KS KE U W	
EMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W	
ETS190	9	A	V	3	2	X	E	Advanced Telecommunication		KS KE U W	1
ETT051	7.5	G2	V	4	2	X	E2	Digital Communications		KS KE U W	
EDI042	7.5	A	V	4	2	X	S	Error Control Coding		KS KE U W	
ETI085	6	A	V	4	2	X	E	Channel Modelling for Wireless Communication		KS KE U W	
EDI051	7.5	G2	V	4	2	X	S	Cryptography		KS KE U W	
ETI051	6	A	V	4	2	X	E	Radio Systems		KS KE U W	
ETT055	9	A	V	4	2	X	E2	Digital Communications, Advanced Course		KS KE U W	
EIT010	7.5	A	V	4	2	X	E	Digital Transmission Engineering		KS KE U W	
EIT150	7.5	G2	V	4	2	-	S	Internet Inside		KS KE U W	
EMA240	6	G2	V	4	2	X	E2	Linear and Combinatorial Optimization		KS KE U W	
ETS110	7.5	A	V	4	2	X	E1	Internet Protocol		KS KE U W	1
ETT062	7.5	A	V	4	2	X	E2	Principles of Spread Spectrum Multiple Access Communications		KS KE U W	1
ETS061	7.5	A	V	4	2	X	E2	Simulation		KS KE U W	1

Specialisation mt - Biomedical Engineering

Course Code	Credits	Mand./ Elect.		Language			Links		Footnote	sp4	
		Cycle	Year	From year	S.Ex. stud.	Course Name	KS	KE			U
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W	
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W	
TEK290	7.5	G2	V	4	2	X	E1	Biology, Introductory Course		KS KE U W	
EEM040	6	G2	V	4	2	-	S	Biomedical Measurements	X	KS KE U W	
FMA170	6	A	V	4	2	X	E2	Image Analysis		KS KE U W	
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W	
TNX097	7.5	G2	V	4	2	-	S	Rehabilitation Engineering	X	KS KE U W	
EKFN05	7.5	A	V	4	2	-	E2	Experimental Tools for Subatomic Physics		KS KE U W	
TEK171	7.5	A	V	4	2	-	S	Quantitative Human Physiology		KS KE U W	
FMS150	7.5	A	V	4	2	X	E2	Statistical Image Analysis		KS KE U W	
EEM080	6	A	V	4	2	X	S	Ultrasound Physics and Technology	X	KS KE U W	
GEMA55	6	G1	V	4	2	-	S	Medicine for Engineers		KS KE U W	1
FHL110	7.5	A	V	4	2	X	E	Biomechanics		KS KE U W	1
ETI160	6	G2	V	4	2	X	E2	Biomedical Signal Processing		KS KE U W	1
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
FAF150	7.5	A	V	4	2	X	E	Medical Optics	X	KS KE U W	1

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EEM040](#) Biomedical Measurements: *Omtentamen enligt överenskommelse.*

[TNX097](#) Rehabilitation Engineering: *Nätburen kurs med träffar. Se www.certec.lth.se/ak/*

[EEM080](#) Ultrasound Physics and Technology: *Omtentamen efter överenskommelse.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

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

Specialisation pe - Production Management and Entrepreneurship

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
MIO012	6	G1	V	3	2	-	S	Managerial Economics, Basic Course	X	KS KE U W	
MIO012									X		
MIE080	7.5	G2	V	3	2	X	E1	Automation		KS KE U W	
GEMA40	7.5	G1	V	3	1	-	S	Entrepreneurship and Business Development		KS KE U W	
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W	
MIO022	6	G2	V	3	2	-	S	Management Organization		KS KE U W	1
FMS180	6	G2	V	3	2	-	S	Markov Processes		KS KE U W	1
FMS051	7.5	A	V	3	2	-	S	Mathematical Statistics, Time Series Analysis		KS KE U W	1
MIO040	6	G2	V	4	2	-	S	Managerial Economics, Advanced Course	X	KS KE U W	
FMA051	6	A	V	4	2	X	E1	Optimization		KS KE U W	
ETS032	7.5	G2	V	4	2	-	S	Software Development for Large Systems		KS KE U W	
MIO150	6	A	V	4	2	-	S	Business Marketing		KS KE U W	
MTTF01	5	G2	V	4	2	-	S	Logistics		KS KE U W	
MIO040	6	G2	V	4	2	-	S	Managerial Economics, Advanced Course	X	KS KE U W	
MIO051	6	A	V	4	2	-	S	Production Management		KS KE U W	
MIO090	6	A	V	4	2	-	S	Technology Strategy		KS KE U W	
MIE090	7.5	A	V	4	2	X	E2	Automation for Complex Systems		KS KE U W	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
MIO015	6	A	V	4	2	X	S	Industrial Management		KS KE U W	1
MTT115	7.5	A	V	4	2	-	S	Industrial Purchasing		KS KE U W	1
MIO030	4.5	G2	V	4	2	-	S	Production and Inventory Control		KS KE U W	1

[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. Kursomgången med start lp 3 för den som läser TM-avslutningen.*

Specialisation ps - Software in Systems

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
EDA061	4.5	G2	V	3	2	-	S	Object-oriented Modelling and Design		KS KE U W	
EDA040	6	G2	V	3	2	X	E2	Concurrent Programming		KS KE U W	
EDA145	7.5	A	V	3	2	X	S	Programming Language Theory		KS KE U W	1
EDA110	6	A	V	4	2	X	E	Algorithm Theory		KS KE U W	
EDA230	7.5	A	V	4	2	X	S	Optimising Compilers		KS KE U W	
FRTN01	10	A	V	4	2	X	E1	Real-Time Systems		KS KE U W	
EDA240	6	A	V	4	2	X	E2	Configuration Management		KS KE U W	
EDA216	7.5	G2	V	4	2	X	S	Database Technology		KS KE U W	
EDA260	6	G2	V	4	2	-	S	Software Development in Teams & Project		KS KE U W	
FMA240	6	G2	V	4	2	X	E2	Linear and Combinatorial Optimization		KS KE U W	
ETS170	7.5	A	V	4	2	X	S	Requirements Engineering		KS KE U W	
EDA031	7.5	G2	V	4	2	X	S	C++ Programming		KS KE U W	1
EDA180	7.5	G2	V	4	2	X	S	Compiler Construction		KS KE U W	1
ETS160	6	G2	V	4	2	-	S	Methodology for Software Development		KS KE U W	1
EDA050	4.5	G2	V	4	2	X	S	Operating Systems		KS KE U W	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EDAF01	3	G2	V	4	2	X	S	Operating Systems - Project		KS KE U W	1
ETS200	7.5	A	V	4	2	X	E1	Software Testing		KS KE U W	1

Specialisation ra - Control and Automation

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
EDA040	6	G2	V	3	2	X	E2	Concurrent Programming		KS KE U W	
MIE080	7.5	G2	V	3	2	X	E1	Automation		KS KE U W	
FRTN10	7.5	A	V	3	2	X	E1	Multivariable Control		KS KE U W	
FMA120	6	A	V	3	2	-	S	Matrix Theory		KS KE U W	1
EIE070	7.5	G2	V	3	2	X	E1	Mechatronics	X	KS KE U W	1
FMA051	6	A	V	4	2	X	E1	Optimization		KS KE U W	
EIE075	7.5	A	V	4	2	X	E1	Mechatronics, Advanced Course		KS KE U W	
EIE015	12	A	V	4	2	X	E1	Power Electronics - Devices, Converters, Control and Applications	X	KS KE U W	
FRTN15	7.5	A	V	4	2	X	E1	Predictive Control		KS KE U W	
FRTN01	10	A	V	4	2	X	E1	Real-Time Systems		KS KE U W	
EIE030	6	A	V	4	2	X	E1	Electric Power Systems		KS KE U W	
FRT041	7.5	A	V	4	2	X	E1	System Identification		KS KE U W	1
MIE090	7.5	A	V	4	2	X	E2	Automation for Complex Systems		KS KE U W	1
FRTN05	7.5	A	V	4	2	X	E1	Non-Linear Control and Servo Systems		KS KE U W	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
FRT090	7.5	A	V	4	2	X	E1	Project in Automatic Control		KS KE U W	1

[EIE070](#) Mechatronics: *Tentamen (för högre betyg) efter överenskommelse.*

[EIE015](#) Power Electronics - Devices, Converters, Control and Applications: *[EIE015](#) får inte ingå i examen tillsammans med någondera av [EIE023](#) Kraftelektronik eller [EIE042](#) Kraftelektronisk reglerteknik.*

Specialisation rn - Radio and Nanoelectronics

Course Code	Credits	Mand./ Elect.		Language			Links				
		Cycle	Year	From year	S.Ex. stud.	Course Name	Footnote	sp4			
FAF240	7.5	G1	V	2	2	-	S	Quantum Phenomena and Nanotechnology	KS KE U W		
ETI015	6	G2	V	3	2	-	S	Electromagnetic Fields, Advanced Course	KS KE U W		
ETE100	6	A	V	3	2	X	E2	Antenna Technology	X	KS KE U W	1
ETI063	6	A	V	4	2	X	E	Analogue IC-design		KS KE U W	
ETE071	6	A	V	4	2	-	S	Electromagnetic Wave Propagation		KS KE U W	
FAFF01	7.5	G2	V	4	2	X	E	Optics and Optical Design		KS KE U W	
FFF110	7.5	G2	V	4	2	X	E2	Processing and Device Technology		KS KE U W	
ETI031	6	G2	V	4	2	-	E2	Radio		KS KE U W	
FFF021	7.5	A	V	4	2	X	E1	Semiconductor Physics		KS KE U W	
FFF115	7.5	A	V	4	2	X	E2	High Speed Devices		KS KE U W	
ETE091	6	A	V	4	2	X	E1	Microwave Theory	X	KS KE U W	
ETI051	6	A	V	4	2	X	E	Radio Systems		KS KE U W	
ETI032	9	A	V	4	2	-	E2	Radio Electronics		KS KE U W	
ETI170	6	A	V	4	2	X	E	Integrated Radio Electronics		KS KE U W	
FAF095	7.5	A	V	4	2	X	E	Photonics and Optical Communication		KS KE U W	
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	1
FFF160	7.5	A	V	4	2	X	E2	Nanoelectronics		KS KE U W	1
ETI041	6	A	V	4	2	-	E2	Radio Project		KS KE U W	1

[ETE100](#) Antenna Technology: *Omtentamen efter överenskommelse.*

[ETE091](#) Microwave Theory: *Kursen ges vartannat år.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

Specialisation ss - Signals and Sensors

Course Code	Credits	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Cycle									
FMS045	6	G2	V	3	2	-	S	Stationary Stochastic Processes		KS KE U W	
EEM031	7.5	G2	V	3	2	-	S	Transducer Technology	X	KS KE U W	
ETI270	6	G2	V	3	2	X	E2	Digital Signal Processing in Audio/Video		KS KE U W	1
FMS051	7.5	A	V	3	2	-	S	Mathematical Statistics, Time Series Analysis		KS KE U W	1
EEM050	6	A	V	3	2	-	E2	Micro Sensors	X	KS KE U W	1
EEM070	6	A	V	4	2	X	S	Computerised Measurement Systems	X	KS KE U W	
FAFF01	7.5	G2	V	4	2	X	E	Optics and Optical Design		KS KE U W	
ETT074	6	A	V	4	2	X	S	Optimum Signal Processing		KS KE U W	
ETT042	6	A	V	4	2	X	E2	Adaptive Signal Processing		KS KE U W	
ETI180	6	A	V	4	2	X	E	DSP-design		KS KE U W	
FAFN01	7.5	A	V	4	2	X	E	Lasers		KS KE U W	
EEM080	6	A	V	4	2	X	S	Ultrasound Physics and Technology	X	KS KE U W	
ETI121	6	A	V	4	2	X	E2	Algorithms in Signal Processors & Project Course		KS KE U W	
FKF100	7.5	A	V	4	2	X	E1	Methods for Environmental Monitoring		KS KE U W	1
FRT041	7.5	A	V	4	2	X	E1	System Identification		KS KE U W	1

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	
EEM060	6	A	V	4	2	X	E2	EMC, Noise and Noise Reduction	X	KS KE U W	1
FMS072	7.5	G2	V	4	2	X	E2	Design of Experiments	X	KS KE U W	Course on hold

[EEM031](#) Transducer Technology: *Omtentamen enligt överenskommelse.*

[EEM050](#) Micro Sensors: *Omtentamen efter överenskommelse.*

[EEM070](#) Computerised Measurement Systems: *Omtentamen efter överenskommelse.*

[EEM080](#) Ultrasound Physics and Technology: *Omtentamen efter överenskommelse.*

[EEM060](#) EMC, Noise and Noise Reduction: *Omtentamen efter överenskommelse.*

[FMS072](#) Design of Experiments: *Periodiserad. Ges nästa gång ht 2008.*

Elective Courses - E

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
EXTA10	3	G1	1	1	-	S	Introduction to Chinese Society, Culture and Language		KS KE U	
EDA027	7.5	G1	2	2	-	S	Algorithms and Data Structures		KS KE U W	
FMA280	7.5	G2	2	2	-	S	Analytic Functions	X	KS KE U W	
ETI125	4.5	G1	2	2	-	S	Consumer Electronics	X	KS KE U W	
GEMF05	7.5	G2	2	2	-	S	Gender in Science and Engineering		KS KE U W	
GEMA50	4.5	G1	2	1	-	S	History of Technology		KS KE U W	
FMF061	4.5	G2	2	2	-	S	Theory of Relativity		KS KE U W	
FMA021	7.5	A	2	2	-	S	Applied Mathematics	X	KS KE U W	1
GEMA45	3	G1	2	2	-	S	Teaching and Learning		KS KE U W	1
FMA022	4.5	G2	2	2	-	S	Applied Mathematics	X	KS KE U W	1
FMA091	6	G1	2	2	-	S	Discrete Mathematics		KS KE U W	1
EDA150	3	G1	3	1	X	S	C Programming	X	KS KE U W	
FMF090	6	G2	3	2	X	E1	Chaos for Science and Technology		KS KE U W	
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS KE U W	
FMF092	3	A	3	2	X	E1	Project Work in Chaos Theory		KS KE U W	
EDA150	3	G1	3	1	X	S	C Programming	X	KS KE U W	
TEK210	4.5	G1	3	2	-	S	Cognition		KS KE U W	
FRT130	3	G2	3	3	-	E2	Control Theory		KS KE U W	

Course Code	Credits	Cycle		Language			Course Name	Footnote	Links	sp4
		Year	From year	S.Ex. stud.						
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS KE U W	
MIOA01	9	G1	3	2	-	S	Managerial Economics, Basic Course		KS KE U W	
FMA111	6	A	3	2	-	S	Mathematical Structures		KS KE U W	
ETI022	7.5	A	3	2	X	E1	Analogue Project		KS KE U W	1
FMA130	6	A	3	2	X	E2	Analytic Functions, Advanced Course		KS KE U W	1
EDA132	7.5	G2	3	2	X	S	Applied Artificial Intelligence		KS KE U W	1
GEMA65	7.5	G1	3	1	-	S	Chinese for Engineers		KS KE U	1
FMA115	6	A	3	2	X	E2	Computer Algebra		KS KE U W	1
EIT060	7.5	G1	3	2	X	S	Computer Security		KS KE U W	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	
										sp4
EDI022	12	G2	3	2	X	S	Digital Systems, Project Laboratory, Extended Version		KS KE U W	1
MAM203	7.5	G1	3	2	-	S	Working Environment, Basic Course		KS KE U W	1
EDI021	7.5	G2	3	2	X	S	Digital Systems, Project Laboratory	X	KS KE U W	1
FHL055	7.5	G1	3	2	-	S	Engineering Mechanics		KS KE U W	1
EIT080	7.5	G2	3	2	-	S	Information Theory		KS KE U W	1
FMA125	3	A	3	2	-	E1	Matrix Theory, Project		KS KE U W	1
EDA095	7.5	G2	3	2	-	S	Network Programming		KS KE U W	1

Course Code	Credits	Cycle	Language			S.Ex. stud.	Course Name	Footnote	Links	sp4
			Year	From year						
ETSA01	5	G1	3	3	-	S	Software Engineering Process - Methodology	KS KE U W	1	
ETSA05	4	G1	3	3	-	S	Software Engineering Process - Soft Issues	KS KE U W	1	
FMN135	7.5	A	4	2	X	E1	Adaptive Methods for Differential Equations	KS KE U W		
FFFN01	7.5	A	4	2	X	E2	Advanced Processing of Nanostructures	KS KE U W		
EDA120	6	G2	4	2	X	E2	Functional Programming	KS KE U W		
MAM061	7.5	G1	4	2	-	S	Human - Computer Interaction	KS KE U W		
EEM055	7.5	A	4	2	X	E2	Microfluidics	KS KE U W		
FMS091	7.5	A	4	2	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference	KS KE U W		
FMNN01	7.5	A	4	4	X	E	Numerical Linear Algebra	KS KE U W		
EIT015	7.5	G2	4	2	X	E2	Secure Systems and Applications	KS KE U W		
FMN145	4.5	A	4	4	X	E1	Simulation Tools	KS KE U W		
GEMA30	4.5	G1	4	1	-	S	Swedish for Engineers	X KS KE U W		
FRT100	4.5	A	4	2	-	E	Automatic Control, International Project Course	KS KE U W		
GEMA20	7.5	G1	4	1	-	E	English for Engineers	X KS KE U W		
GEMA05	7.5	G1	4	1	-		French for Engineers: Language, Culture and Society, Second Course	KS KE U W		
FMA260	7.5	A	4	2	X	E2	Functional Analysis and Harmonic Analysis	KS KE U W		
GEMA25	7.5	G1	4	1	-	S	German for Engineers	KS KE U		
EDA171	7.5	A	4	2	X	E2	Language Processing and Computational Linguistics	KS KE U W		
GEMA60	7.5	G1	4	1	-	S	Law for Engineers, Introductory Course in Business Law	X KS KE U W		
FMA140	6	A	4	2	X	E2	Non-Linear Dynamical Systems	KS KE U W		
FMS110	7.5	A	4	2	X	E1	Non-Linear Time Series Analysis	KS KE U W		
GEMA10	7.5	G1	4	1	-		Spanish for Engineers: Language, Culture and Society, First Course	KS KE U W		

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language		Course Name	Footnote	Links	
											sp4
MAM032	7.5	A	4	2	-	S		Working Environment, Project		KS KE U W	
VTA030	4.5	A	4	2	-	S		Engineering Acoustics, Introductory Course		KS KE U	
FMA175	3	A	4	2	X	E1		Image Analysis, Project		KS KE U W	
FMA145	3	A	4	2	X	E1		Non-linear Dynamical Systems, Project		KS KE U W	
FFF165	7.5	A	4	2	X	E		Quantum Mechanics for Applications in Nanoelectronics		KS KE U W	
FMA250	7.5	A	4	2	X	E2		Partial Differential Equations with Distribution Theory		KS KE U W	
EDA340	6	A	4	2	X	E2		Constraint Programming		KS KE U W	
GEMA35	4.5	G1	4	1	-	S		Economics for Engineers		KS KE U W	
ETI280	6	G1	4	2	X	S		Intellectual Property Right Management (IPR)		KS KE U W	
EDI075	6	A	4	2	X	E1		Mathematical Cryptology		KS KE U W	
GEMA30	4.5	G1	4	1	-	S		Swedish for Engineers	X	KS KE U W	
FFF042	7.5	A	4	2	X	E2		The Physics of Low-dimensional Structures and Quantum Devices	X	KS KE U W	
MAM026	4.5	G1	4	2	-	S		Work Organization		KS KE U W	
EDA190	7.5	G2	4	2	-	S		Computer Mechatronics		KS KE U W	1
GEMA20	7.5	G1	4	1	-	E		English for Engineers	X	KS KE U W	1
AAM010	7.5	G2	4	2	X	E2		Environmental Psychology		KS KE U W	1
GEMA01	7.5	G1	4	1	-			French for Engineers: Language, Culture and Society, First Course		KS KE U W	1

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links		sp4
GEMA60	7.5	G1	4	1	-	S	Law for Engineers, Introductory Course in Business Law	X	KS KE U W		1
MAMF01	6	G2	4	4	-	S	Physical Ergonomics		KS KE U W		1
TNX153	7.5	G2	4	2	-	S	Rehabilitation Engineering and Design	X	KS KE U W		1
GEMA15	7.5	G1	4	1	-		Spanish for Engineers: Language, Culture and Society, Second Course		KS KE U		1
VTA060	9	G2	4	2	-	S	Structural Acoustics		KS KE U		1
FMA272	3	A	4	2	X	E1	Computer Vision, Project		KS KE U W		1
FHL064	7.5	G2	4	2	X	E2	Finite Element Method, Advanced Course		KS KE U W		1

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4
		Year								
EIT140	7.5	A	4	2	X	E	OFDM for Broadband Communication		KS KE U W	1
MAM120	7.5	G2	4	2	-	S	Usability Evaluation		KS KE U W	1

[FMA280](#) Analytic Functions: *Kurserna [FMA037](#) Komplex analys och [FMA280](#) Funktionsteori är alternativobligatoriska. Endast en av kurserna får ingå i examen.*

[ETI125](#) Consumer Electronics: *Får inte läsas av studenter som tillhör årskull 07/08.*

[FMA021](#) Applied Mathematics: *Endast en av kurserna [FMA021](#) Kontinuerliga system respektive [FMA022](#) Kontinuerliga system, allmän kurs får ingå i examen.*

[FMA022](#) Applied Mathematics: *Endast en av kurserna [FMA021](#) Kontinuerliga system respektive [FMA022](#) Kontinuerliga system, allmän kurs får ingå i examen.*

[EDA150](#) C Programming: *Kursen ges två gånger per år, tentamen i varje ordinare period.*

[EDI021](#) Digital Systems, Project Laboratory: *Kursen ges tre gånger per läsår.*

[GEMA30](#) Swedish for Engineers: *Kursen ges två gånger per läsår.*

[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.*

[FFF042](#) The Physics of Low-dimensional Structures and Quantum Devices: *Omtentamen enligt överenskommelse.*

[TNX153](#) Rehabilitation Engineering and Design: *Nätburen kurs. För information se <http://www.certec.lth.se/learning/fkl/>*

Degree Projects - E

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

Links

Course Code	Credits	Course Name	Links
FRT820	30	Degree Project in Automatic Control for Engineers	U
ETS921	30	Degree Project in Communication Systems for Engineers	U W
EDA920	30	Degree Project in Computer Sciences for Engineers	U W
EEM820	30	Degree Project in Electrical Measurements	U
ETI920	30	Degree Project in Electrosience	U
VTA820	30	Degree Project in Engineering Acoustics for Engineers	U
MAM920	30	Degree Project in Ergonomics for Engineers	U W
EIE920	30	Degree Project in Industrial Electrical Engineering and Automation	U
EIT820	30	Degree Project in 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 W
FAF820	30	Degree Project in Physics for Engineers	U
MIO920	30	Degree Project in Production Management	U W
TNS820	30	Degree Project in Rehabilitation Engineering	U W
ETS720	30	Degree Project in Software Engineering	U
FFF820	30	Degree Project in Solid State Physics for Engineers	U
TMA820	30	Degree Project in Technology Management	U