

Study Handbook**Syllabus****Curriculum****Courses, by****Department****TMS Courses****Abbreviations**[Previous academic year \(00/01\)](#)[Next academic year \(02/03\)](#)

Biotechnology

Biotechnology BIO1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1501 <u>Introduction to Biotechnology</u>	4	B	36	12	-	-	1	2			including visits for study purpose
3A1502 <u>Cellbiology with immunology</u>	4	B	40	-	-	-				4	
3B1700 <u>Introductory Chemistry</u>	4	B	18	24	-	22	1				
3B1711 <u>Chemical Equilibria</u>	4	B	12	22	-	25			3		
3B1750 <u>Organic Chemistry I</u>	5	B	18	16	-	42		2			
5B1104 <u>Calculus I, part 1</u>	5	B	60	-	-	-		2			Workshop 21 h
5B1105 <u>Calculus I, part 2</u>	5	B	60	-	-	-			3		Workshop 21 h
5B1108 <u>Linear Algebra I</u>	4	B	48	-	-	-	1				Workshop 21 h
5C1102 <u>Mechanics, Smaller Course</u>	4	B	30	15	-	-				4	
Elective Courses											
3B1705 <u>Introductory Course in Chemistry</u>	1	A	-	-	-	-					

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Biotechnology BIO2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1311 <u>Programming Technique with PBL</u>	4	B	19	12	-	42			3	4	
3A1109 <u>Biochemistry</u>	8	C	32	-	-	-				4	
3A1307 <u>Microbiology</u>	6	B	30	24	-	48	1	2	3		
3B1725 <u>Chemical Thermodynamics</u>	4	C	28	30	-	-	1				
3B1730 <u>Molecular Structure</u>	5	C	36	22	-	20		2	3		
3B1740 <u>Chemical Dynamics</u>	4	C	20	20	-	15			3		
3B1760 <u>Organic Chemistry 2</u>	5	C	12	22	-	54				4	
5A1225 <u>Electromagnetism and Waves</u>	5	B	38	18	-	20		2			
5B1200 <u>Differential Equations and Transforms I</u>	4	C	48	-	-	-	1				

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Biotechnology BIO3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2D1210 Numerical Methods, Basic Course I	4	B	24	24	-	24	1	2				
3A1109 Biochemistry	8	C	32	-	-	96	1	2				
3A1509 Bioinformatics	4	C	32	16	-	-		2				
3B1770 Chemical measuring techniques	5	C	20	4	-	12	1					
Elective Courses												
3A1504 Structural biology	4	D	32	-	-	20				4		
3A1504 Structural biology	4	D	32	-	-	20				4		

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Biomolecular chemistry BIO3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1503 Molekular Biotechnology	5	D	36	-	-	15			3		
3A1504 Structural biology	4	D	32	-	-	20				4	
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-				4	
4D1023 Industrial Economy and Management, Basic Course	4	B	26	20	-	-			3		4 h Seminars

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Environmental biotechnology BIO3

3C1345 or 3C1347

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1308 <u>Technical microbiology I</u>	4	D	38	8	-	-			3		8 Study visit
3A1309 <u>Technical microbiology II</u>	4	D	18	4	-	-				4	20 h Seminars
3A1503 <u>Molekular Biotechnology</u>	5	D	36	-	-	15			3		
3C1345 <u>Environmental Technology and Environmental Impact Studies</u>	4	D	32	4	-	8			3	4	
4D1023 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-			3		4 h Seminars
Recommended Courses											
3C1347 <u>Environmental Technology and Environmental Impact Studies, Larger Course</u>	8	D	32	16	-	24			3	4	
3C1355 <u>Ecology, Advanced Course</u>	4	C	21	4	-	-			3	4	

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Molecular biophysics BIO3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1503 <u>Molekular Biotechnology</u>	5	D	36	-	-	15			3		
3A1504 <u>Structural biology</u>	4	D	32	-	-	20				4	
4D1023 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-			3		4 h Seminars
Recommended Courses											
3A1112 <u>Separation and analysis of biomolecules</u>	5	D	32	30	-	-				4	

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Molecular biotechnology BIO3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3A1112 <u>Separation and analysis of biomolecules</u>	5	D	32	30	-	-				4		
3A1503 <u>Molekular Biotechnology</u>	5	D	36	-	-	15			3			
4D1023 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-			3		4 h Seminars	
Recommended Courses												
3A1504 <u>Structural biology</u>	4	D	32	-	-	20				4		

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Process biotechnology BIO3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1308 Technical microbiology I	4	D	38	8	-	-			3		8 Study visit
3A1309 Technical microbiology II	4	D	18	4	-	-				4	20 h Seminars
3A1503 Molekular Biotechnology	5	D	36	-	-	15			3		
4D1023 Industrial Economy and Management, Basic Course	4	B	26	20	-	-			3		4 h Seminars
Recommended Courses											
3A1112 Separation and analysis of biomolecules	5	D	32	30	-	-				4	

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Computer Science

Computer Science D1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1340 Introduction to Computer Science	8	B	60	36	-	36	1	2	3		
2D1347 Communication	4	B	8	-	-	6		2	3		30 h Seminars
2D1351 Programming Style	4	B	32	-	-	14				4	
2H1340 Electrical Circuits D	6	B	36	24	-	16			3	4	
5B1104 Calculus I, part 1	5	B	55	-	-	-	1	2			
5B1105 Calculus I, part 2	5	B	55	-	-	-		2	3		
5B1109 Linear Algebra II	5	B	60	-	-	-	1				
5B1928 Logics	4	D	48	-	-	-				4	
Elective Courses											
5B1111 Complementary Course in Calculus	2	B	-	-	-	-					

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Computer Science

Computer Science D2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1240 Numerical Methods, Basic Course II	4	B	28	14	-	18	1	2			
2D1352 Algorithms, Data Structures and Complexity	6	C	44	24	-	18			3	4	
2D1359 Object Oriented Modeling, Programming and Analysis	6	C	36	14	-	38	1	2			
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-				4	Workshop 21 h
5B1204 Discrete Mathematics	8	C	72	-	-	-			3		
5B1506 Mathematical Statistics, basic course	6	C	36	48	-	-	1	2			
5C1105 Insights in Mechanics - Modeling and Simulation	4	B	24	10	-	-				4	
Elective with											
5A1232 Optical Communication and Imaging	4	B	24	18	-	10		2			
5A1242 Physics of Microcosmos	4	B	24	18	-	-		2			

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Computer Science D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1954 <u>Program Development Project</u>	4	C	12	-	-	-			3	4	
2G1119 <u>Computer Hardware Basics</u>	4	C	18	18	-	20	1	2			
2I1100 <u>Information Systems and Database Technology</u>	6	C	12	12	-	80	1	2			
4D1091 <u>Work Environment, Computers and Business Administration</u>	4	C	36	4	-	-	1				
Elective with											
3C1315 <u>Ecology and Environmental Technology</u>	4	C	24	3	-	-		2			Field exercise 8 h
3C1320 <u>Environment and Technology</u>	4	B	24	3	-	-			3		

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Computer Science D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
1N1101 Computer- and Information Ethics <i>The course will be given from 01/02</i> <i>Under bearbetning</i>	6	C	24	12	-	-			3		
1N1102 The Philosophy of Information <i>The course will be given from 01/02</i> <i>Under bearbetning</i>	6	C	24	12	-	-				4	
2A1170 Chaos and self-organization	4	D	24	12	-	-	1				
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2			
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4	
2D1255 Numerical Solutions of Differential Equations <i>Not given during 01-02.</i>	5	D	36	-	-	20					
2D1257 Visualization	4	C	20	-	-	10			3		
2D1258 Introduction to High Performance Computing <i>Please note that the course starts in august.</i>	5	C	40	-	-	40	1				
2D1260 The Finite Element Method	4	D	18	14	-	12		2			
2D1263 Program Construction for Scientific Computing	4	D	24	-	-	12			3	4	
2D1266 Mathematical Models, Analysis and Simulation Part I	5	C	48	-	-	26	1	2			
2D1269 Mathematical Models, Analysis and Simulation, part II	5	D	48	-	-	28			3	4	
2D1272 Computational Physics <i>The course will not be on the central schedule.</i>	5	D	24	-	-	-				4	
2D1276 Computational Chemistry <i>Given every 2nd year. Given in 01-02.</i> <i>The course will not be on the central schedule.</i>	5	C	28	-	-	-					
2D1285 Numerical Algorithms for Parallel Computers <i>Not given 01-02.</i> <i>The course will not be on the central schedule.</i>	4	D	24	-	-	-					
2D1290 Advanced Numerical Analysis <i>The course will not be on the central schedule.</i>	4	D	28	-	-	14				4	

2D1365 Overview of Human-Computer Interaction	4	C	16	2	-	5	2			
2D1370 Functional Programming	4	C	28	-	-	26			4	
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3	
2D1375 Implementation of Programming Languages	4	D	2	-	-	-	1	2		
2D1378 Text and Image Processing <i>Will not be given academic year 01/02</i>	4	B	28	28	-	-				
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2		
2D1387 Program System Construction Using C++	4	C	24	6	-	24	1			
2D1390 Internet Programming	4	C	28	-	-	26		2		
2D1392 Protocols and Principles of the Internet*	5	C	35	21	-	32		2		
2D1406 Fundamentals of Human-Computer Interaction	4	D	18	5	2	-		2		
2D1408 Evaluation Methods in Human-Computer Interaction*	4	D	8	16	-	-			3	4
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4
2D1413 Advanced Graphics and Interaction	6	D	50	-	-	12		2		
2D1416 Computer Supported Cooperative Work	6	D	60	-	-	15			3	4
2D1418 Language Engineering	4	D	42	-	-	12	1			
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3	
2D1424 Geometric Computing in Image Analysis and Visualization	4	D	28	-	-	8				4
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3	
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4
2D1440 Advanced Algorithms	4	D	30	-	-	-		2		
2D1441 Seminars on Theoretical Computer Science <i>Not given 01/ 02.</i>	4	D	30	-	-	-				
2D1446 Complexity Theory	4	D	30	-	-	-			3	
2D1449 Foundations of Cryptography <i>The course is given every second year. Will be given in 01/02.</i>	4	D	30	-	-	-				4
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4
2D1464 Bigger Advanced, Individual Course in Computer Science	6	D	-	-	-	-				
2D1465 Advanced, Individual Course in Computer Science	4	D	-	-	-	-				
2D1469 Database Theory	4	D	24	24	-	-	1			
2D1470 Object Oriented Database Systems	5	D	24	24	-	-				4
2D1482 Programming of Web Server Applications*	4	D	12	-	-	26				4

2D1490 IP Routing in Simple Computer Networks*	5	D	32	8	-	32			3		
2D1491 IP-routing in Internet and Other Complex Networks*	5	D	32	8	-	32				4	
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3		
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1				
2D1953 Graphics and Interaction Programming	4	C	30	6	-	28			3		
2E1340 Digital Signal Processing	5	C	26	24	-	3		2			
2E1421 Signal Theory	4	C	24	30	-	4				4	
2F1111 Speech Technology	4	D	36	14	-	6			3		
2F1212 Music Acoustics	4	D	36	12	-	8				4	
2F1400 Electroacoustics	4	D	34	12	-	8	1				
2G1113 Operating Systems	4	C	24	18	-	-				4	
2G1114 Parallel Computer Systems	5	D	48	-	-	-		2			
2G1117 Semantics for Programming Languages	4	D	18	18	-	-	1				
2G1118 Network Programming with Java	4	D	20	10	-	16		2			
2G1120 Computer Architecture Fundamentals, Intermediate Course	4	D	18	14	-	16	1				
2G1121 Logic Programming	4	D	12	6	-	-	1				
2G1126 Distributed Computer Systems <i>Replaces 2G1116.</i>	10	D	48	24	-	-				4	
2G1301 Theory of Distributed Systems	4	C	4	146	-	146		2			8 h Seminars8 h Seminars
2G1305 Internetworking	4	D	20	20	-	-			3		
2G1316 Computer communication and computer networks	4	C	24	18	-	4			3		
2G1318 Queuing Theory and Teletraffic Systems	4	D	24	24	-	-		2			
2G1319 Communication System Design <i>Replaces 2G1303.</i> <i>Under bearbetning</i>	10	D	-	-	-	-			3	4	400 h Projektuppgift
2G1503 System Modeling and Simulation	6	B	24	18	-	-				4	12 h Projektuppgift12 h Projektuppgift
2G1511 Computer Architecture	6	D	-	-	42	12			3	4	Home study time including individual project guidance 185 h
2G1915 Concurrent Programming	5	C	36	-	-	24			3		
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
2I1140 Artificial Intelligence	6	C	36	16	-	80			3		
2I1150 Theory of Knowledge and Philosophy of Science	4	B	30	12	-	80	1				
2I1224 Data Warehousing* <i>Max 40 students</i>	4	D	15	10	-	30				4	
2I1227 Models and Languages for Object and Relational Databases	4	D	14	12	-	60	1				80 h
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60			3		80 h
2I1229 Knowledge Management	4	D	28	-	-	18			3		70 h
2I1234 Machine Learning	4	D	36	-	-	-				4	
2I1235 Agent Programming	4	D	18	-	-	80				4	60 h

2I1236 Intelligent Interfaces	4	D	36	-	-	-			4	
2I1251 Theory of Software Metrics <i>Not given 01/ 02.</i>	4	D	21	-	-	60				80 h
2I1255 Quality Models and Standards	4	D	21	-	-	140			3 4	
2I1256 Current Problems in Software Engineering <i>Not given 01/ 02.</i>	4	D	-	-	-	-				160 h
2I1258 Large-Scale Software Engineering	5	D	21	-	-	120			3 4	60 h
2I1263 Internet Application Protocols and Standards	4	B	24	-	-	20			4	120 h
2I1264 Internet Programming I	4	D	2	-	-	160	1 2			
2I1265 Internet Programming II	4	D	2	-	-	160		2		
2I1266 Internet Programming III	4	D	-	-	-	160			4	
2I1272 Security Architecture for Open Distributed Systems*	4	D	24	-	-	36			4	100 h
2I1273 Principles of Computer Security*	4	D	24	-	-	36			3	100 h
2I1274 Security Protocols and Applications in Computer Network*	4	D	24	-	-	36			4	100 h
2I1276 Security for Java Environment and Electronic Commerce*	4	D	12	8	8	-		2		130 h
2I1278 Overview of Computer Security* <i>Max 30 students</i>	4	D	36	-	-	6	1			Other 20h
5A1210 Thermodynamics	4	B	30	16	-	10	1			
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20			3 4	
5B1201 Complex Analysis	4	C	48	-	-	-	1			
5B1202 Differential Equations and Transforms II	6	C	72	-	-	-			3 4	
5B1303 Analysis, Basic Course	6	D	-	-	66	-			3 4	
5B1305 Applied Combinatorics	4	D	-	-	42	-			4	
5B1306 Introductory Financial Mathematics	5	C	-	-	54	-			4	
5B1458 Seminar Course in Mathematics III <i>Given 01/ 02.</i>	5	D	36	-	-	-	1 2			
5B1459 Seminar Course in Mathematics IV <i>Given 01/ 02.</i>	5	D	36	-	-	-			3 4	
5B1466 Fourier Analysis <i>Given 01/ 02.</i>	5	D	36	-	-	-			3 4	
5B1467 Algebra, Advanced Course <i>Given 01/ 02.</i>	5	D	36	-	-	-			3 4	
5B1472 Functional Analysis <i>Given 01/ 02.</i>	5	D	36	-	-	-			3 4	
5B1479 Integration Theory <i>Given 01/ 02.</i>	5	D	36	-	-	-	1 2			
5B1750 Optimization for E and D	4	C	28	14	-	9			4	
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3	
5C1213 Applied Computational Fluid Dynamics	2	D	-	-	10	14			4	
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1			
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-			4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-			4	

7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6				4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-				4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-				4	30 + 10 h (field work with oral and written report)
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				

*The course has limited participation

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Computer Science D5

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2D1020 Master Project in Numerical Analysis	20	D	-	-	-	-						
2D1021 Master Project in Computer Science	20	D	-	-	-	-						
2D1024 Master Project in Human - Computer Interaction	20	D	-	-	-	-						
2D1025 Master Project in Biomedical Engineering	20	D	-	-	-	-						

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Computer Science

Autonomous Systems D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3			
2E1200 Automatic Control, General Course	4	C	24	26	-	12			3			
2E1350 Adaptive Signal Processing	4	D	24	14	-	-			3			
2E1421 Signal Theory	4	C	24	30	-	4				4		
2I1140 Artificial Intelligence	6	C	36	16	-	80			3			
5B1750 Optimization for E and D	4	C	28	14	-	9				4		

Autonomous Systems D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1365 Overview of Human-Computer Interaction	4	C	16	2	-	5		2			
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2			
2D1424 Geometric Computing in Image Analysis and Visualization	4	D	28	-	-	8				4	
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	
2E1200 Automatic Control, General Course	4	C	24	26	-	12			3		
2E1340 Digital Signal Processing	5	C	26	24	-	3		2			
2E1350 Adaptive Signal Processing	4	D	24	14	-	-			3		
2G1915 Concurrent Programming	5	C	36	-	-	24			3		
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1				

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Biomedical Engineering D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1200 Cellular and Molecular Biology*_	10	C	80	-	-	8			3	4	
7E1201 Neuroscience*_	5	C	60	-	-	30				4	

*The course has limited participation

Biomedical Engineering D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1202 Systems Biology*_	5	C	32	-	25	-		2			
Elective Courses											
2D1263 Program Construction for Scientific Computing	4	D	24	-	-	12			3	4	
2D1266 Mathematical Models, Analysis and Simulation Part I	5	C	48	-	-	26	1	2			
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2			
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3		
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4	
2E1200 Automatic Control, General Course	4	C	24	26	-	12			3		
2E1340 Digital Signal Processing	5	C	26	24	-	3		2			
2E1350 Adaptive Signal Processing	4	D	24	14	-	-			3		
2E1421 Signal Theory	4	C	24	30	-	4				4	
2G1114 Parallel Computer Systems	5	D	48	-	-	-		2			
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20			3	4	

7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-				4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-				4	
7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6				4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-				4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-				4	30 + 10 h (field work with oral and written report)

*The course has limited participation

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Computer Security D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2I1273 Principles of Computer Security*_	4	D	24	-	-	36			3		100 h	
Recommended Courses												
2D1440 Advanced Algorithms	4	D	30	-	-	-		2				
2G1301 Theory of Distributed Systems	4	C	4	146	-	146		2			8 h Seminars8 h Seminars	
2I1263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h	

*The course has limited participation

Computer Security D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1272 Security Architecture for Open Distributed Systems* _	4	D	24	-	-	36				4	100 h
2I1274 Security Protocols and Applications in Computer Network* _	4	D	24	-	-	36				4	100 h
Recommended Courses											
2D1440 Advanced Algorithms	4	D	30	-	-	-		2			
2G1301 Theory of Distributed Systems	4	C	4	146	-	146		2			8 h Seminars8 h Seminars
2I1263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h
2I1276 Security for Java Environment and Electronic Commerce* _	4	D	12	8	8	-		2			130 h

*The course has limited participation

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Computer Science

Computer Systems D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3			
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4		
2G1113 Operating Systems	4	C	24	18	-	-				4		
2G1316 Computer communication and computer networks	4	C	24	18	-	4			3			
2G1503 System Modeling and Simulation	6	B	24	18	-	-				4	12 h Projektuppgift12 h Projektuppgift	

Computer Systems D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1126 Distributed Computer Systems <i>Replaces 2G1116.</i>	10	D	48	24	-	-				4	
Elective Courses											
2D1263 Program Construction for Scientific Computing	4	D	24	-	-	12			3	4	
2D1375 Implementation of Programming Languages	4	D	2	-	-	-	1	2			
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2G1114 Parallel Computer Systems	5	D	48	-	-	-		2			
2G1117 Semantics for Programming Languages	4	D	18	18	-	-	1				
2G1118 Network Programming with Java	4	D	20	10	-	16		2			
2G1120 Computer Architecture Fundamentals, Intermediate Course	4	D	18	14	-	16	1				
2G1121 Logic Programming	4	D	12	6	-	-	1				
2G1301 Theory of Distributed Systems	4	C	4	146	-	146		2			8 h Seminars8 h Seminars
2G1318 Queuing Theory and Teletraffic Systems	4	D	24	24	-	-		2			

2G1511 Computer Architecture	6	D	-	-	42	12			3	4	Home study time including individual project guidance 185 h
2G1915 Concurrent Programming	5	C	36	-	-	24			3		

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Information Systems and Computer Base Technology D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
211224 Data Warehousing* <i>Max 40 students</i>	4	D	15	10	-	30				4	
211228 Enterprise Computing and ERP Systems	5	D	14	12	-	60			3		80 h
211229 Knowledge Management	4	D	28	-	-	18			3		70 h
Elective Courses											
211140 Artificial Intelligence	6	C	36	16	-	80			3		
211236 Intelligent Interfaces	4	D	36	-	-	-				4	
211251 Theory of Software Metrics <i>Not given 01/ 02.</i>	4	D	21	-	-	60					80 h
211258 Large-Scale Software Engineering	5	D	21	-	-	120			3	4	60 h
211263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h
211272 Security Architecture for Open Distributed Systems*	4	D	24	-	-	36				4	100 h
211273 Principles of Computer Security*	4	D	24	-	-	36			3		100 h
211274 Security Protocols and Applications in Computer Network*	4	D	24	-	-	36				4	100 h

*The course has limited participation

Information Systems and Computer Base Technology D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
211227 Models and Languages for Object and Relational Databases	4	D	14	12	-	60	1				80 h	
211228 Enterprise Computing and ERP Systems	5	D	14	12	-	60			3		80 h	
211229 Knowledge Management	4	D	28	-	-	18			3		70 h	
Elective Courses												
211140 Artificial Intelligence	6	C	36	16	-	80			3			
211236 Intelligent Interfaces	4	D	36	-	-	-				4		

211251 Theory of Software Metrics <i>Not given 01/ 02.</i>	4	D	21	-	-	60					80 h
211256 Current Problems in Software Engineering <i>Not given 01/ 02.</i>	4	D	-	-	-	-					160 h
211258 Large-Scale Software Engineering	5	D	21	-	-	120			3	4	60 h
211263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h
211264 Internet Programming I	4	D	2	-	-	160	1	2			
211265 Internet Programming II	4	D	2	-	-	160		2			
211266 Internet Programming III	4	D	-	-	-	160				4	
211272 Security Architecture for Open Distributed Systems*	4	D	24	-	-	36				4	100 h
211273 Principles of Computer Security*	4	D	24	-	-	36			3		100 h
211274 Security Protocols and Applications in Computer Network*	4	D	24	-	-	36				4	100 h
211276 Security for Java Environment and Electronic Commerce*	4	D	12	8	8	-		2			130 h

*The course has limited participation

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Intelligent Interactive Systems D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1140 Artificial Intelligence	6	C	36	16	-	80			3		
2I1234 Machine Learning	4	D	36	-	-	-				4	
2I1235 Agent Programming	4	D	18	-	-	80				4	60 h
2I1236 Intelligent Interfaces	4	D	36	-	-	-				4	
Recommended Courses											
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2I1263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h

Intelligent Interactive Systems D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
2D1365 Overview of Human-Computer Interaction	4	C	16	2	-	5		2			
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
2I1150 Theory of Knowledge and Philosophy of Science	4	B	30	12	-	80	1				
2I1263 Internet Application Protocols and Standards	4	B	24	-	-	20				4	120 h
2I1264 Internet Programming I	4	D	2	-	-	160	1	2			
2I1265 Internet Programming II	4	D	2	-	-	160		2			

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Communication Systems D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1113 <u>Operating Systems</u>	4	C	24	18	-	-				4	
2G1305 <u>Internetworking</u>	4	D	20	20	-	-			3		
2G1316 <u>Computer communication and computer networks</u>	4	C	24	18	-	4			3		

Communication Systems D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2G1319 <u>Communication System Design</u> <i>Replaces 2G1303.</i> <i>Under bearbetning</i>	10	D	-	-	-	-			3	4	400 h Projektuppgift	
Elective Courses												
2G1120 <u>Computer Architecture Fundamentals, Intermediate Course</u>	4	D	18	14	-	16	1					
2G1301 <u>Theory of Distributed Systems</u>	4	C	4	146	-	146		2			8 h Seminars8 h Seminars	
2G1318 <u>Queuing Theory and Teletraffic Systems</u>	4	D	24	24	-	-		2				
2G1915 <u>Concurrent Programming</u>	5	C	36	-	-	24			3			

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Human-Computer Interaction D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2D1953 Graphics and Interaction Programming	4	C	30	6	-	28			3			
Elective Courses												
4K1401 History of Technology, a General Survey	4	B	12	-	-	-			3		12 h Seminars	

Human-Computer Interaction D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2D1406 Fundamentals of Human-Computer Interaction	4	D	18	5	2	-		2				
2D1408 Evaluation Methods in Human-Computer Interaction*	4	D	8	16	-	-			3	4	16 h Seminars	
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4		
2D1416 Computer Supported Cooperative Work	6	D	60	-	-	15			3	4		
2I1130 Cognitive Psychology	4	B	30	12	-	-	1					
Elective Courses												
2D1378 Text and Image Processing <i>Will not be given academic year 01/02</i>	4	B	28	28	-	-						
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2				
2D1413 Advanced Graphics and Interaction	6	D	50	-	-	12		2				
2D1418 Language Engineering	4	D	42	-	-	12	1					
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3			
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3			
2F1111 Speech Technology	4	D	36	14	-	6			3			
2I1150 Theory of Knowledge and Philosophy of Science	4	B	30	12	-	80	1					

4D1088 Technical Work Psychology	4	C	24	4	-	4	2			
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*The course has limited participation

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D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1370 Functional Programming	4	C	28	-	-	26				4	
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3		
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4	
2D1470 Object Oriented Database Systems	5	D	24	24	-	-				4	
2D1482 Programming of Web Server Applications*_	4	D	12	-	-	26				4	
2G1113 Operating Systems	4	C	24	18	-	-				4	
2I1140 Artificial Intelligence	6	C	36	16	-	80			3		
5B1305 Applied Combinatorics	4	D	-	-	42	-				4	

*The course has limited participation

D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1370 Functional Programming	4	C	28	-	-	26				4	
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3		
2D1375 Implementation of Programming Languages	4	D	2	-	-	-	1	2			
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2			
2D1387 Program System Construction Using C++	4	C	24	6	-	24	1				
2D1390 Internet Programming	4	C	28	-	-	26		2			
2D1392 Protocols and Principles of the Internet*	5	C	35	21	-	32		2			
2D1418 Language Engineering	4	D	42	-	-	12	1				
2D1440 Advanced Algorithms	4	D	30	-	-	-		2			
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4	

2D1469 Database Theory	4	D	24	24	-	-	1				
2D1470 Object Oriented Database Systems	5	D	24	24	-	-				4	
2D1482 Programming of Web Server Applications*	4	D	12	-	-	26				4	
2D1490 IP Routing in Simple Computer Networks*	5	D	32	8	-	32			3		
2D1491 IP-routing in Internet and Other Complex Networks*	5	D	32	8	-	32				4	
2G1113 Operating Systems	4	C	24	18	-	-				4	
2G1117 Semantics for Programming Languages	4	D	18	18	-	-	1				
2G1301 Theory of Distributed Systems	4	C	4	146	-	146	2				8 h Seminars8 h Seminars
2G1915 Concurrent Programming	5	C	36	-	-	24			3		
2I1140 Artificial Intelligence	6	C	36	16	-	80			3		
5B1305 Applied Combinatorics	4	D	-	-	42	-				4	

*The course has limited participation

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Soft Ware Technology D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1251 Theory of Software Metrics <i>Not given 01/ 02.</i>	4	D	21	-	-	60					80 h
2I1255 Quality Models and Standards	4	D	21	-	-	140			3	4	
Recommended Courses											
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4	
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60			3		80 h

*The course has limited participation

Soft Ware Technology D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1258 Large-Scale Software Engineering	5	D	21	-	-	120			3	4	60 h
Recommended Courses											
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4	
2I1228 Enterprise Computing and ERP Systems	5	D	14	12	-	60			3		80 h
2I1256 Current Problems in Software Engineering <i>Not given 01/ 02.</i>	4	D	-	-	-	-					160 h

*The course has limited participation

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Theoretical Computer Science D3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3			
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4		
2E1421 Signal Theory	4	C	24	30	-	4				4		
2I1140 Artificial Intelligence	6	C	36	16	-	80			3			
5B1305 Applied Combinatorics	4	D	-	-	42	-				4		
5B1750 Optimization for E and D	4	C	28	14	-	9				4		

Theoretical Computer Science D4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1365 Overview of Human-Computer Interaction	4	C	16	2	-	5		2			
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3		
2D1440 Advanced Algorithms	4	D	30	-	-	-		2			
2D1441 Seminars on Theoretical Computer Science <i>Not given 01/ 02.</i>	4	D	30	-	-	-					
2D1446 Complexity Theory	4	D	30	-	-	-			3		
2D1449 Foundations of Cryptography <i>The course is given every second year. Will be given in 01/02.</i>	4	D	30	-	-	-				4	
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4	
2E1421 Signal Theory	4	C	24	30	-	4				4	
2G1117 Semantics for Programming Languages	4	D	18	18	-	-	1				
2G1121 Logic Programming	4	D	12	6	-	-	1				
2G1301 Theory of Distributed Systems	4	C	4	146	-	146		2			8 h Seminars8 h Seminars
2G1915 Concurrent Programming	5	C	36	-	-	24			3		
2I1140 Artificial Intelligence	6	C	36	16	-	80			3		

5B1305 Applied Combinatorics	4	D	-	-	42	-				4	
5B1467 Algebra, Advanced Course <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1475 Combinatorics, Advanced Course <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1750 Optimization for E and D	4	C	28	14	-	9				4	

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Electrical Engineering

Electrical Engineering E1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2A1800 Electrical Circuit Analysis	5	B	-	-	-	-			3		
2B1520 Electronics	8	C	-	-	-	-	1				
2D1343 Computer Science	8	B	40	26	-	26		2	3		
2U1700 Project Course in Electrical Engineering	5	B	-	-	-	-			3	4	
5B1115 Mathematics 1	6	B	72	-	-	-	1				
5B1116 Mathematics 2	6	B	72	-	-	-		2			
5B1117 Mathematics 3	6	B	72	-	-	-				4	
5C1102 Mechanics, Smaller Course	4	B	30	15	-	-		2			

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Electrical Engineering

Electrical Engineering E2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2A1810 Electromagnetic Theory EA	4	C	24	24	-	-	1				
2A1820 Electromagnetic Theory EB	4	C	24	24	-	-			3		
2B1100 Physics part 1, Thermodynamics and Wave Physics <i>Under bearbetning</i>	4	B	24	-	16	8			3		
2B1520 Electronics	8	C	-	-	-	-				4	
2D1240 Numerical Methods, Basic Course II	4	B	28	14	-	18	1	2			
2D1343 Computer Science	8	B	4	-	-	-	1				
2E1117 Measurement Technology <i>Part 1 is given for the first time the academic year 01-02.</i> <i>Part 2 is given for the first time the academic year 02/03.</i>	5	C	10	8	-	16			3		
2E1313 No translation	5	C	30	24	-	-				4	10 h Computer
5B1209 No translation	5	C	-	-	-	-		2			
5B1501 Probability Theory and Statistics	4	C	24	36	-	-		2			

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Electrical Engineering

Electrical Engineering E3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1202 Semiconductor Devices, Basic Course	4	C	24	16	-	10	1				
2B1502 Analog Electronics	4	C	30	18	-	12		2			
2E1112 Electrical Measurements, Basic Course	4	C	18	10	-	20	1	2			
2E1311 Signals and Systems	4	C	24	30	-	3	1				
5B1504 Mathematical Statistics, Basic Course	6	C	36	48	-	-	1	2			
Elective Courses											
2B1215 VLSI-technology Intermediate level	5	C	24	-	-	12			3		
2B1430 Design of Digital Integrated Circuits - LSI Intermediate level	5	C	20	8	-	32				4	
2B1515 Analog Electronics, Advanced Course Intermediate level	5	C	30	14	-	20			3		Project work
2C1146 Power Electronics Intermediate level	4	D	28	20	-	10		2			The course will be given in english during period 2 and in english during period 3.
2C1146 Power Electronics Intermediate level	4	D	28	20	-	10			3		The course will be given in english during period 2 and in english during period 3.
2D1385 Software Engineering Intermediate level	4	C	24	12	-	18			3		
2E1125 Measurement Systems Techniques <i>The course is cancelled 2002. More information under the heading Other.</i> <i>Intermediate level</i>	4	C	18	6	-	24					
2E1211 Automatic Control, General Course E	4	C	24	26	-	12			3		
2E1280 Modelling of Industrial Processes Intermediate level	4	C	24	24	-	12				4	
2E1421 Signal Theory Intermediate level	4	C	24	30	-	4				4	
2G1113 Operating Systems Intermediate level	4	C	24	18	-	-				4	
2G1129 Computer Hardware Basics Intermediate level	4	C	18	18	-	20			3	4	

2G1316 Computer communication and computer networks <i>Intermediate level</i>	4	C	24	18	-	4		3	
2I1130 Cognitive Psychology <i>Intermediate level</i>	4	B	30	12	-	-	1		
3C1315 Ecology and Environmental Technology	4	C	24	3	-	-		2	Field exercise 8 h
3C1320 Environment and Technology	4	B	24	3	-	-		3	
4D1024 Industrial Economy and Management, Basic Course <i>Intermediate level</i>	4	B	26	20	4	-		3	
5A1301 Mathematical Methods in Physics, Course I <i>Intermediate level</i>	4	C	-	54	-	-		3	
5A1320 Introduction to Quantum Mechanics <i>Intermediate level</i>	4	C	30	24	-	-		3	4
5A1340 Thermodynamics and Statistical Mechanics, Basic Course <i>Intermediate level</i>	4	C	30	24	-	-			4
5B1300 Algebra, E3 <i>Intermediate level</i>	4	C	-	-	42	-			4
5B1750 Optimization for E and D <i>Intermediate level</i>	4	C	28	14	-	9			4

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Electrical Engineering

Electrical Engineering E4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2A1131 Plasma Physics <i>Intermediate level</i>	4	C	48	-	-	-	1	2			
2A1132 Electron Physics <i>Intermediate level</i>	4	C	36	-	-	4		2			
2A1133 Plasma Physics, Enlarged Course <i>Intermediate level</i>	6	C	60	-	-	-	1	2	3		
2A1134 Electron Physics, Enlarged Course <i>Intermediate level</i>	6	C	60	-	-	4		2	3		
2A1136 Technical Plasma Physics	4	D	24	-	-	4				4	
2A1140 Accelerator and Radiation Technology	4	D	36	-	-	4			3		
2A1145 Electromagnetic Waves in Dispersive Media	4	D	24	-	-	-			3		
2A1151 Energy and fusion research	4	D	24	12	-	-				4	
2A1160 Space Physics	3	D	12	-	-	-	1				
2A1170 Chaos and self-organization	4	D	24	12	-	-	1				
2A1830 Applied Antenna Theory	5	D	-	-	54	12			3	4	
2B1211 Physics of Electronic Materials <i>Intermediate level</i>	5	C	40	24	-	8	1				
2B1215 VLSI-technology	5	C	24	-	-	12			3		
2B1230 Power Semiconductor Devices <i>Not given 01/02</i>	5	D	40	-	-	-					Project 40h
2B1240 VLSI-technology II	5	D	24	-	-	32				4	
2B1245 Advanced VLSI-Devices	5	D	20	-	-	32				4	
2B1310 Microwave Engineering <i>Intermediate level</i>	5	C	36	18	-	10		2			
2B1322 Fiberoptical Communication <i>Intermediate level</i>	5	D	28	14	-	8			3		
2B1325 Photonics	5	D	38	-	-	8				4	
2B1423 ASIC-design Methodology with High-level Languages	5	D	24	-	-	48				4	
2B1427 Design of Digital Integrated Circuits - VLSI	5	D	20	8	-	32			3		
2B1429 System modelling	5	D	20	8	-	32			3		
2B1445 Embedded Systems	5	D	20	10	-	12	1				

2B1511 Modern Digital Construction with VHDL <i>Intermediate level</i>	5	D	30	-	-	40	1	2			
2B1515 Analog Electronics, Advanced Course	5	C	30	14	-	20			3		Project work
2B1600 Radio Electronics	5	D	26	16	-	12				4	
2B1610 Low Power Analog and Mixed Signal IC's	5	D	42	14	-	-				4	
2B1700 Advanced Semiconductor Materials	5	D	34	-	-	16				4	
2C1050 High Power Electronics	4	C	30	24	-	16				4	
2C1111 System Planning	4	D	60	-	-	-			3		
2C1112 Power Systems, Basic Course <i>Intermediate level</i>	4	C	32	32	-	4		2			Given in English in period 1 and in Swedish in period 2.
2C1112 Power Systems, Basic Course	4	C	-	-	-	-	1				
2C1113 Power Systems, Advanced Course	6	D	72	-	-	-				4	
2C1114 Wind Power Systems	4	C	52	10	-	4			3	4	
2C1130 Electrotechnical Design, Basic Course <i>Intermediate level</i>	4	C	32	-	-	4		2			Projects 16 h
2C1131 Electrotechnical Design, Advanced Course	5	C	20	-	-	8			3		Projects 50 h
2C1132 High-voltage Engineering	5	C	20	-	-	8				4	Projects 50 h
2C1140 Electrical Machines and Drives, Basic Course <i>Intermediate level</i>	4	C	28	20	-	16	1				
2C1146 Power Electronics <i>Intermediate level</i>	4	D	28	20	-	10		2			The course will be given in english during period 2 and in english during period 3.
2C1146 Power Electronics <i>Intermediate level</i>	4	D	28	20	-	10			3		The course will be given in english during period 2 and in english during period 3.
2C1147 Power Converter Control	5	D	28	20	-	8				4	
2C1148 Analysis of Electrical Machines	5	D	28	20	-	4			3		
2C1149 Electric Traction	4	C	36	-	-	-				4	
2C1222 Management of Technology <i>The course is related to 2C1220 Industrial Control Systems, Introductory Course</i>	4	D	30	20	-	-	1				
2C1223 Industrial Information and Control Systems <i>Intermediate level</i>	4	C	36	10	-	8		2			
2C1228 Industrial Control Systems, Systems Engineering*	5	D	24	-	-	-					
2C1229 Industrial Information Systems, Case Studies*	5	D	-	-	-	-				4	
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1260 The Finite Element Method <i>Intermediate level</i>	4	D	18	14	-	12		2			
2D1274 Computational Electromagnetics <i>Not given 01/ 02.</i>	5	C	24	-	-	12					
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		

2D1360 Object Oriented Modeling, Programming and Analysis <i>Intermediate level</i>	6	C	40	14	-	38	1	2			
2D1365 Overview of Human-Computer Interaction <i>Intermediate level</i>	4	C	16	2	-	5		2			
2D1406 Fundamentals of Human-Computer Interaction	4	D	18	5	2	-		2			
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4	
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3		
2D1424 Geometric Computing in Image Analysis and Visualization	4	D	28	-	-	8				4	
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2E1135 Micro System Technology*	5	D	28	-	-	40				4	Industry Site Visit 4 h
2E1241 Automatic Control, Project Course*	5	D	4	-	-	50				4	
2E1252 Control Theory and Practice, Advanced Course	5	D	28	26	-	8			3		
2E1262 Nonlinear Control	5	D	28	28	-	8			2		
2E1333 Optimal Filtering	4	D	-	-	24	-	1				
2E1340 Digital Signal Processing <i>Intermediate level</i>	5	C	26	24	-	3			2		
2E1350 Adaptive Signal Processing	4	D	24	14	-	-				3	
2E1366 Project Course in Signal Processing/Digital Communication	6	D	12	-	-	50				4	
2E1380 Seminars in Signals, Sensors and Systems	2	D	-	-	-	-			3	4	12 h Seminars
2E1431 Communication Theory <i>Intermediate level</i>	6	C	40	36	-	8	1	2			
2E1435 Advanced Communication Theory	4	D	-	-	42	-				3	
2E1511 Radio Communication, Basic Course <i>Intermediate level</i>	4	D	24	24	-	8	1				
2E1512 Wireless Networks*	8	D	30	24	-	12				4	
2F1111 Speech Technology	4	D	36	14	-	6				3	
2F1212 Music Acoustics	4	D	36	12	-	8					4
2F1400 Electroacoustics	4	D	34	12	-	8	1				
2F1510 Pattern Recognition <i>Intermediate level</i>	4	D	24	24	-	-	1				
2F1520 Digital Speech Compression <i>Intermediate level</i>	4	D	24	24	-	-				3	
2F1531 Information Theory and Source Coding <i>Intermediate level</i>	5	C	24	24	-	-			2		
2G1114 Parallel Computer Systems	5	D	48	-	-	-			2		
2G1118 Network Programming with Java	4	D	20	10	-	16			2		
2G1120 Computer Architecture Fundamentals, Intermediate Course <i>Intermediate level</i>	4	D	18	14	-	16	1				
2G1121 Logic Programming	4	D	12	6	-	-	1				

2G1126 Distributed Computer Systems <i>Replaces 2G1116.</i>	10	D	48	24	-	-			4	
2G1301 Theory of Distributed Systems <i>Intermediate level</i>	4	C	4	146	-	146	2			8 h Seminars8 h Seminars
2G1305 Internetworking <i>Intermediate level</i>	4	D	20	20	-	-		3		
2G1316 Computer communication and computer networks	4	C	24	18	-	4		3		
2G1318 Queuing Theory and Teletraffic Systems <i>Intermediate level</i>	4	D	24	24	-	-	2			
2G1319 Communication System Design <i>Replaces 2G1303.</i> <i>Under bearbetning</i>	10	D	-	-	-	-		3	4	400 h Projektuppgift
2G1511 Computer Architecture	6	D	-	-	42	12		3	4	Home study time including individual project guidance 185 h
2G1915 Concurrent Programming <i>Intermediate level</i>	5	C	36	-	-	24		3		
2H1250 Electromagnetic Field Theory <i>Intermediate level</i>	5	C	66	-	-	-	1	2		
2H1255 Electromagnetic Wave Propagation	5	D	36	30	-	-		3	4	
2H1260 Antenna Theory	5	D	36	30	-	12		3	4	
3C1315 Ecology and Environmental Technology	4	C	24	3	-	-		2		Field exercise 8 h
3C1320 Environment and Technology	4	B	24	3	-	-		3		
4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2		7 h Projektuppgift
4D1024 Industrial Economy and Management, Basic Course <i>Intermediate level</i>	4	B	26	20	4	-		3		
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20		3	4	
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1			
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-			4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-			4	
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1			

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Electrical Engineering

Electrical Engineering E5

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
2D1020 Master Project in Numerical Analysis	20	D	-	-	-	-						
2D1021 Master Project in Computer Science	20	D	-	-	-	-						
2D1024 Master Project in Human - Computer Interaction	20	D	-	-	-	-						
2D1025 Master Project in Biomedical Engineering	20	D	-	-	-	-						

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Vehicle Engineering

Vehicle Engineering T1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1310 <u>Programming Technique</u>	4	B	26	16	-	36	1	2			
4B1051 <u>Perspective of Vehicle Engineering</u>	6	B	52	8	24	12	1	2	3		Project work Study visits in period 2, 8h Period 3 Lectures 4h Self studies Tutorials 24 h
5A1225 <u>Electromagnetism and Waves</u>	5	B	38	18	-	20			3		
5B1115 <u>Mathematics 1</u>	6	B	72	-	-	-	1				
5B1116 <u>Mathematics 2</u>	6	B	72	-	-	-		2			
5B1117 <u>Mathematics 3</u>	6	B	72	-	-	-				4	
5C1103 <u>Mechanics, Basic Course</u>	6	B	48	27	-	-			3	4	

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Vehicle Engineering

Vehicle Engineering T2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1240 Numerical Methods, Basic Course II	4	B	28	14	-	18			3	4	
4C1095 Strength of Materials and Solid Mechanics, Basic Course	8	B	52	52	-	2	1	2			
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
5B1201 Complex Analysis	4	C	48	-	-	-		2			
5B1202 Differential Equations and Transforms II	6	C	72	-	-	-			3	4	
5B1501 Probability Theory and Statistics	4	C	24	36	-	-				4	
5C1111 Mechanics, Continuation Course	4	C	30	15	-	-	1				
5C1201 Fluid Mechanics with Thermodynamics, for T	8	C	44	50	-	9	1	2	3		

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Vehicle Engineering

Vehicle Engineering T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
4B1111 Fundamentals of Noise and Vibration Control T	4	C	31	32	-	4		2			
4F1222 Electrical Engineering, Basic Course <i>Under bearbetning</i>	6	B	18	27	-	26		2	3		
4F1531 Machine Elements, basic course for I and T	4	B	24	40	-	-	1				
4H1057 Engineering Materials	4	B	24	-	-	15	1				
Elective with											
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-	1				Field exercise 8 h
3C1310 Environmental Technology and Work Science	6	C	33	9	-	8			3	4	8 h Field excursions
Elective Courses											
2C1111 System Planning	4	D	60	-	-	-			3		
2C1114 Wind Power Systems	4	C	52	10	-	4			3	4	
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4	
2D1263 Program Construction for Scientific Computing	4	D	24	-	-	12			3	4	
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
3C1103 Technical English, Lower Intermediate*	4	B	-	56	-	-			3	4	
3C1110 Technical English II, upper intermediate level*	6	B	-	56	-	-			3	4	
3C1115 German, Elementary Course*	4	B	-	56	-	-			3	4	
3C1116 German, Advanced Beginners*	4	B	-	56	-	-			3	4	
3C1124 Technical German I, upper intermediate elvel, e-learning	6	B	-	18	-	-			3	4	E-learning exercises
3C1130 French, Elementary Course*	4	B	-	56	-	-			3	4	
3C1131 French, Advanced Beginners*	4	B	-	56	-	-			3	4	

3C1138 Technical French I, upper intermediate level*	6	B	-	56	-	-		3	4	
3C1145 Spanish, Elementary Course*	4	B	-	56	-	-		3	4	
3C1146 Spanish, Advanced Beginners*	4	B	-	56	-	-		3	4	
3C1148 Technical Spanish I, upper intermediate level*	6	B	-	56	-	-		3	4	
3C1150 Italian, Elementary Course*	4	B	-	56	-	-		3	4	
3C1160 Communicative Swedish*	4	B	-	56	-	-		3	4	
3C1395 Sustainable Development	4	C	10	12	-	-		3	4	
3D1112 No translation	4	D	26	-	-	15			4	
3E1324 Polymer Materials - Properties and Applications <i>Under bearbetning</i>	4	C	30	12	-	10			4	
4A1601 Heat Transfer	4	C	24	24	-	20		3		
4A1603 Energy Technology	4	C	48	12	-	-			4	
4B1120 Signal Analysis with Applications	5	D	-	28	-	24			4	
4B1502 Basic Ship Theory	4	C	48	12	-	-		3	4	
4D1026 Industrial Economy and Management, Basic Course	4	B	26	20	-	-	2			4 h Seminars
4E1100 Lightweight Structures I	5	C	64	-	-	22		3	4	
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29			4	
4F1244 Motion Control	4	D	30	-	-	12			4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-		3	4	One day field trip.
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-			4	
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-		3		
4K1107 Production of Electronics I	4	C	36	-	-	8		3		
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24			4	Graded exercise
4K1401 History of Technology, a General Survey	4	B	12	-	-	-		3		12 h Seminars
5B1538 Reliability Theory	6	D	-	-	72	-		3	4	
5B1540 Probability Theory	5	D	24	30	-	-			4	
5B1722 Applied Optimization	4	C	28	14	-	9		3		
5C1121 Analytical Mechanics	4	C	48	-	-	-		3		
5C1203 Fluid Mechanics, General Course <i>Compulsory within competenceprogram Fluid Mechanics.</i>	4	C	-	24	24	3			4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6		3	4	
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-		3	4	

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Vehicle Engineering T4

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							1	2	3	4		
Elective with												
3C1310 Environmental Technology and Work Science	6	C	33	9	-	8			3	4	8 h Field excursions	
Elective Courses												
1C5049 FEM Modelling	5	D	33	-	-	-		2			44 h Workshop44 h Workshop	
2A1136 Technical Plasma Physics	4	D	24	-	-	4				4		
2A1140 Accelerator and Radiation Technology	4	D	36	-	-	4			3			
2A1151 Energy and fusion research	4	D	24	12	-	-				4		
2A1160 Space Physics	3	D	12	-	-	-	1					
2C1111 System Planning	4	D	60	-	-	-			3			
2C1114 Wind Power Systems	4	C	52	10	-	4			3	4		
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2				
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4		
2D1255 Numerical Solutions of Differential Equations <i>Not given during 01-02.</i>	5	D	36	-	-	20						
2D1257 Visualization	4	C	20	-	-	10			3			
2D1258 Introduction to High Performance Computing <i>Please note that the course starts in august.</i>	5	C	40	-	-	40	1					
2D1260 The Finite Element Method	4	D	18	14	-	12		2				
2D1263 Program Construction for Scientific Computing	4	D	24	-	-	12			3	4		
2D1266 Mathematical Models, Analysis and Simulation Part I	5	C	48	-	-	26	1	2				
2D1269 Mathematical Models, Analysis and Simulation, part II	5	D	48	-	-	28			3	4		
2D1297 Advanced Individual Course in Scientific Computing	4	D	-	-	-	-						
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4		
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1					
2D1334 Database Technology	4	C	24	20	-	12			3			
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2				

2D1385 Software Engineering	4	C	24	12	-	18			4	
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12		3		
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60			4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20		3		
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1			
2D1521 Communication and Information	5	C	21	-	-	-		3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20			4	
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2		
2E1241 Automatic Control, Project Course*	5	D	4	-	-	50			4	
2E1262 Nonlinear Control	5	D	28	28	-	8		2		
2E1280 Modelling of Industrial Processes	4	C	24	24	-	12			4	
2E1291 Chemical Process Control	4	C	20	28	-	8		3		
2F1400 Electroacoustics	4	D	34	12	-	8	1			
3C1103 Technical English, Lower Intermediate*	4	B	-	56	-	-	1	2		
3C1110 Technical English II, upper intermediate level*	6	B	-	56	-	-	1	2		
3C1113 Technical English III, advanced level*	6	C	-	56	-	-			3	4
3C1113 Technical English III, advanced level*	6	C	-	56	-	-	1	2		
3C1115 German, Elementary Course*	4	B	-	56	-	-	1	2		
3C1116 German, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1124 Technical German I, upper intermediate level, e-learning	6	B	-	18	-	-	1	2		E-learning exercises
3C1125 Technical German II, advanced course*	6	C	-	56	-	-			3	4
3C1125 Technical German II, advanced course*	6	C	-	56	-	-	1	2		
3C1130 French, Elementary Course*	4	B	-	56	-	-	1	2		
3C1131 French, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1138 Technical French I, upper intermediate level*	6	B	-	56	-	-	1	2		
3C1145 Spanish, Elementary Course*	4	B	-	56	-	-	1	2		
3C1146 Spanish, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1150 Italian, Elementary Course*	4	B	-	56	-	-	1	2		
3C1151 Italian, Advanced Beginners*	4	B	-	56	-	-			3	4
3C1160 Communicative Swedish*	4	B	-	56	-	-	1	2		
3C1180 Japanese Studies and Elementary Japanese*	4	B	-	56	-	-	1	2		
3C1190 International Engineering*	4	C	42	-	-	-	1	2		
3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-			3	9 h Seminars Study visit 2x4 h, Exercises 9 h Seminars

3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4	
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1				9 h Seminars
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2			
3C1380 Environmental Management	4	D	18	3	-	8			3	4	Project work 8 h
3C1385 Biology	4	C	30	6	-	6	1				Field exercise 8 h
3C1395 Sustainable Development	4	C	10	12	-	-			3	4	
3D1160 Pulp Mechanical Technology, Minor Course <i>Under bearbetning</i>	4	D	30	-	-	-	1	2			4 h seminars
3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
3E1361 Polymer Processing, Minor Course	4	C	24	8	-	18		2			
3E1366 Polymers in Engineering Design	4	C	18	24	-	8				4	
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1341 Introductory Airbreathing Propulsion	4	C	21	24	-	8		2			
4A1344 Airbreathing Propulsion, Intermediate Course I	4	D	40	-	-	-	1	2	3	4	Project work 6h
4A1346 Rocket Propulsion	4	D	36	10	-	-	1	2	3	4	Project work 6h
4A1347 Airbreathing Propulsion for High Speed Flight	4	D	27	10	-	6	1	2	3	4	
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1620 Combustion Theory	4	C	18	18	-	15	1	2	3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	
4A1629 Fluid Machinery	4	C	30	18	-	12	1				
4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	
4B1127 Vibroacoustics	5	D	-	56	-	8	1	2			
4B1131 Experimental Structure Dynamics	5	D	-	58	-	12		2	3		
4B1136 Flow Acoustics	4	D	-	36	-	8			3		
4B1141 Sound and Vibration, Projekt Course	5	D	-	48	-	12			3	4	Study tour to industry 40h

4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2		7 h Projektuppgift
4B1313 Rail Vehicle Dynamics	5	D	28	8	-	24			3	
4B1420 Ground Vehicle Engineering, Basic Course	6	C	36	36	-	-	1	2		
4B1425 Ground Vehicle Dynamics, Basic Course*	7	D	33	60	-	-			3	4
4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4
4B1511 Ship Hydrodynamics	5	D	48	24	-	-	1			
4C1110 Material Mechanics	4	D	52	-	-	3	1			
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4
4C1116 Dynamic Problems in Solid Mechanics	4	D	42	-	-	8			3	4
4C1118 Non-linear Theory of Elasticity	2	D	12	12	-	-				4
4C1119 Finite Element Method, Project Course	2	D	8	-	-	-			3	
4D1027 Industrial Economics and Management, Basic Course	4	B	26	20	-	-		2		4 h Seminars
4D1030 Industrial Production	4	C	40	20	-	-				4 Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-			3	
4D1065 Industrial Marketing	4	C	36	12	-	-			3	
4D1075 Work Organization and Leadership* <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3	
4D1080 Multinational Enterprising	4	C	36	12	-	-		2		
4D1088 Technical Work Psychology	4	C	24	4	-	4		2		
4D1089 Work Science, Advanced Course <i>Will not be given 2001/2002</i>	4	C	24	12	-	-				
4D1090 Work Science, General Course	4	B	-	-	-	-	1	2	3	4 Literature course
4D1092 Man - Machine System	4	C	32	8	-	8			3	
4E1122 Manufacturing of Polymer Composites	4	D	40	-	-	5	1			
4E1123 Mechanics of Composites and Sandwich Constructions	4	D	48	-	-	6		2		
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3	
4E1140 Flight Dynamics and Aeroelasticity	4	D	30	-	-	18			3	
4E1150 Biomechanics and Neurionics	4	D	36	-	-	6				4
4E1201 Elements of Aeronautics	5	C	72	-	-	4			3	4
4E1211 Aerodynamics	4	D	34	14	-	8	1	2		
4E1221 Advanced Aerodynamics	4	D	30	-	-	18			3	
4E1231 Flight Mechanics	4	D	30	-	-	18	1			
4F1131 Microcomputers in Embedded Systems* <i>Limited attendance: 25</i>	5	D	-	36	-	36			3	
4F1141 Project Work in Mechatronics* <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4 No scheduled hours
4F1244 Motion Control	4	D	30	-	-	12				4
4F1340 Introduction to Fluid Power	4	C	24	24	-	9	1			
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4
4F1430 Combustion Engines, general course*	4	C	48	-	-	12	1			

4F1540 Tribology	4	C	18	9	-	5	1				
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4F1631 Machine Design, intermediate course	7	D	4	84	-	-			3	4	
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2			
4F1643 Eco Design Project*	4	C	-	-	-	-	1	2	3	4	Limited attendance. The course is not timetabled.
4G1147 Quality	6	C	48	24	-	-	1				
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				
4G1231 Intermediate Welding Technology	4	D	24	24	-	12	1	2			
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1342 Space Systems and Technology	4	D	36	-	-	-		2			
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		
4G1540 Laser Metrology Methods and Non Destructive Testing <i>Under bearbetning</i>	4	C	28	22	-	4		2			
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8			3		
4G1634 Manufacturing Engineering, Basic Course	6	C	32	20	-	12	1	2			
4G1646 Simulation and Modelling	4	D	10	80	-	-			3		
4K1107 Production of Electronics I	4	C	36	-	-	8			3		
4K1109 Principles for Product Integrated Manufacturing Systems Design	4	C	12	12	-	4	1				
4K1131 Assembly Systems	4	C	24	20	-	12		2			
4K1202 Modelling and Interaction in CAD/CAM* <i>Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.</i>	5	D	-	36	-	24	1				3 Programming tasks, periods 1, 2
4K1409 History of Industry	4	B	12	-	-	-	1	2			12 h Seminars2 Study-visits 12 h Seminars
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32			3	4	
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1				
5A1362 Environmental Physics	4	B	40	-	-	20			3	4	
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20			3	4	
5A1416 Radiation Sources for Therapy	2	D	8	-	-	-				4	2 compulsory studyvisits
5A1590 Technical Photography	5	C	20	-	-	36			3	4	
5B1550 Applied Mathematical Statistics	5	D	-	-	60	-			3		
5B1555 Computer Intensive Methods in Mathematical Statistics	5	D	-	-	48	-				4	

5B1574 Portfolio Theory and Risk Management	4	D	30	12	-	-	1				
5B1742 Mathematical Systems Theory	4	D	28	14	-	6	1				
5B1814 Applied Mathematical Programming - Linear Problems	4	D	18	12	-	-		2			18 h Projektuppgift
5B1816 Applied Mathematical Programming - Nonlinear Problems	4	D	18	12	-	-			3		18 h Projektuppgift
5B1822 Mathematical Systems Theory, Advanced Course <i>Not given 01/ 02.</i>	4	D	24	24	-	6					
5B1852 Mathematical Economics	4	D	32	16	-	-		2			
5B1872 Optimal Control Theory	4	D	30	14	-	6			3		
5C1122 Continuum Mechanics	4	C	42	-	-	-	1				
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2			
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3		
5C1205 Compressible Flow, General Course	4	D	-	-	42	6	1				
5C1207 Boundary Layer Theory and Thermal Convection	5	D	-	-	38	9		2	3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1				
5C1210 Experimental Methods in Fluid Mechanics <i>Not given 01/ 02.</i>	4	D	-	-	28	9					
5C1211 No translation	4	C	-	-	-	-		2			
5C1213 Applied Computational Fluid Dynamics	2	D	-	-	10	14				4	
5C1400 Nonlinear Dynamics in Mechanics	5	C	24	-	-	-			3		
5C1902 Advanced Dynamics of Complex Systems	4	D	24	-	-	-	1				
5C1904 Advanced Modern Mechanics	4	D	24	-	-	-		2			
5C1980 Applied Mechanics, for (T) <i>The course runs the entire academic year. A few lectures during fall.</i>	4	C	24	-	-	37	1	2	3	4	
5C1992 Turbulence	4,5	D	-	-	36	3			3	4	
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1				
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-				4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-				4	
7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6				4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-				4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-				4	30 + 10 h (field work with oral and written report)
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1200 Cellular and Molecular Biology*_₋	10	C	80	-	-	8			3	4	
7E1202 Systems Biology*_₋	5	C	32	-	25	-		2			
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-			3	4	
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-	1	2			

*The course has limited participation

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TMS Courses

Abbreviations

Previous academic year (00/01)

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Vehicle Engineering

Business Development and Media Technology T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
3C1103 <u>Technical English, Lower Intermediate*_</u>	4	B	-	56	-	-			3	4	
3C1110 <u>Technical English II, upper intermediate level*_</u>	6	B	-	56	-	-			3	4	
3C1113 <u>Technical English III, advanced level*_</u>	6	C	-	56	-	-			3	4	
4D1026 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-		2			4 h Seminars
4D1030 <u>Industrial Production</u>	4	C	40	20	-	-				4	Study Visits 10h

*The course has limited participation

Business Development and Media Technology T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1521 Communication and Information*_	5	C	21	-	-	-	1				24 h Seminars
2D1552 Media Management	10	C	72	56	-	-	1	2	3	4	
2D1553 Media Production	10	C	40	28	-	24	1	2			
2D1555 Information Technology and Organisations	5	D	39	-	-	-				4	
2D1556 Marketing Communication and the Consumer	10	D	-	-	-	-			3		76 h Seminars
Elective Courses											
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1524 Image Processing and Reprographic Methods*_ Not given 01/ 02. Limited number of participants	6	C	50	16	-	24					

*The course has limited participation

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Vehicle Engineering

Advanced Materials T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4H1610 <u>Advanced Materials</u>	4	C	18	-	-	6			3		Study visit 18h Seminars	
4H1611 <u>Materials Optimisation and Design</u>	5	C	18	18	-	12				4	Study visits 10h	
Elective Courses												
4H1504 <u>Processing of Ceramic Materials</u>	4	C	12	-	-	18			3			

Advanced Materials T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1609 Functional Materials	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1612 High Temperature Materials	7	D	18	12	-	6	1				Study visit 8h Seminars 10h Project assignment 100h
Elective Courses											
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1				
4H1405 Corrosion and surface protection, advanced course	4	D	16	-	-	-			3		
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			

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Vehicle Engineering

Biomedical Engineering T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1200 Cellular and Molecular Biology*_	10	C	80	-	-	8			3	4	
7E1201 Neuroscience*_	5	C	60	-	-	30				4	

*The course has limited participation

Biomedical Engineering T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1202 Systems Biology*_	5	C	32	-	25	-		2			
Elective Courses											
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	

*The course has limited participation

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Vehicle Engineering

Computer Systems for Design and Manufacturing T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise

Computer Systems for Design and Manufacturing T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1202 Modelling and Interaction in CAD/CAM*_ Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.	5	D	-	36	-	24	1				3 Programming tasks, periods 1, 2
4K1203 Computer Systems for Design and Manufacturing, advanced course Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.	12	D	-	68	-	60		2	3	4	4 Programming Projects, periods 2, 3, 4
Elective Courses											
4F1131 Microcomputers in Embedded Systems*_ 	5	D	-	36	-	36		2			
4F1640 Industrial Design*_ Limited number of participants	4	C	24	36	-	-	1				
4K1103 Manufacturing Automation II	6	C	28	32	-	17	1	2			

*The course has limited participation

Kungl Tekniska Högskolan

Studentwebben

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Vehicle Engineering

Energy Technology T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4A1603 Energy Technology	4	C	48	12	-	-				4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	

Energy Technology T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
Elective Courses											
2A1151 Energy and fusion research	4	D	24	12	-	-				4	
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1620 Combustion Theory	4	C	18	18	-	15	1	2	3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1622 Thermal Comfort and Indoor Climate	4	D	24	24	-	12			3	4	
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1624 Numerical Methods in Energy Technology	4	D	48	-	-	24			3		
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	

4A1629 Fluid Machinery	4	C	30	18	-	12	1				
4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	

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Vehicle Engineering

Aeronautics and Astronautics T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1100 <u>Lightweight Structures I</u>	5	C	64	-	-	22			3	4	
4E1201 <u>Elements of Aeronautics</u>	5	C	72	-	-	4			3	4	

Aeronautics and Astronautics T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1131 Aircraft and Lightweight Design	6	D	8	60	-	12			3	4	
4E1140 Flight Dynamics and Aeroelasticity	4	D	30	-	-	18			3		
4E1211 Aerodynamics	4	D	34	14	-	8	1	2			
4E1231 Flight Mechanics	4	D	30	-	-	18	1				
Elective Courses											
4A1341 Introductory Airbreathing Propulsion	4	C	21	24	-	8		2			
4A1346 Rocket Propulsion	4	D	36	10	-	-	1	2	3	4	Project work 6h
4A1347 Airbreathing Propulsion for High Speed Flight	4	D	27	10	-	6	1	2	3	4	
4B1131 Experimental Structure Dynamics	5	D	-	58	-	12		2	3		
4E1123 Mechanics of Composites and Sandwich Constructions	4	D	48	-	-	6		2			
4E1221 Advanced Aerodynamics	4	D	30	-	-	18			3		

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Vehicle Engineering

Automotive Engineering T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 <u>Signal Analysis with Applications</u>	5	D	-	28	-	24				4	
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	
Elective Courses											
4E1100 <u>Lightweight Structures I</u>	5	C	64	-	-	22			3	4	

Automotive Engineering T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4B1425 <u>Ground Vehicle Dynamics, Basic Course</u> *	7	D	33	60	-	-			3	4	
4F1430 <u>Combustion Engines, general course</u> *	4	C	48	-	-	12	1				
Elective with											
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
Elective Courses											
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4F1131 <u>Microcomputers in Embedded Systems</u> *	5	D	-	36	-	36		2			
4F1131 <u>Microcomputers in Embedded Systems</u> *	5	D	-	36	-	36			3		
Limited attendance: 25											

Limited attendance: 25

*The course has limited participation

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Vehicle Engineering

Internal Combustion Engines T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.

Internal Combustion Engines T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4F1430 <u>Combustion Engines, general course*</u>	4	C	48	-	-	12	1				
4F1431 <u>Combustion Engines, Advanced Course*</u>	6	D	56	-	-	32		2	3		
4F1460 <u>Combustion Engines, Project Course</u>	6	D	-	18	-	-			3	4	
Elective Courses											
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4F1131 <u>Microcomputers in Embedded Systems*</u>	5	D	-	36	-	36		2			
4F1131 <u>Microcomputers in Embedded Systems*</u> <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 <u>Project Work in Mechatronics*</u> <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1540 <u>Tribology</u>	4	C	18	9	-	5	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			

*The course has limited participation

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Solid Mechanics T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1117 Design Applications of Solid Mechanics*_	4	D	16	6	-	-				4	
Elective Courses											
4C1112 Theory of Elasticity_	4	D	26	26	-	-			3		
4C1116 Dynamic Problems in Solid Mechanics_	4	D	42	-	-	8			3	4	

*The course has limited participation

Solid Mechanics T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1114 <u>Finite Element Method</u>	4	D	-	49	-	8		2			
Elective Courses											
3E1324 <u>Polymer Materials - Properties and Applications</u> <i>Under bearbetning</i>	4	C	30	12	-	10				4	
3E1360 <u>Mechanical Properties of Polymers, Minor Course</u>	4	C	24	16	-	12	1				
4B1313 <u>Rail Vehicle Dynamics</u>	5	D	28	8	-	24			3		
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4C1110 <u>Material Mechanics</u>	4	D	52	-	-	3	1				
4C1111 <u>Fracture Mechanics and Fatigue</u>	4	D	48	-	-	4				4	
4C1116 <u>Dynamic Problems in Solid Mechanics</u>	4	D	42	-	-	8			3	4	
4C1118 <u>Non-linear Theory of Elasticity</u>	2	D	12	12	-	-				4	
4C1119 <u>Finite Element Method, Project Course</u>	2	D	8	-	-	-			3		
4E1127 <u>Fatigue and Damage Tolerance</u>	4	D	36	-	-	14			3		
4F1540 <u>Tribology</u>	4	C	18	9	-	5	1				
4G1230 <u>Introductory Welding Technology</u>	4	C	24	18	-	12	1				
4H1202 <u>Mechanical Metallurgy I</u>	6	D	24	12	-	48			3	4	Home assignments

4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24			3	4	Home assignments
4H1205 Mechanical Properties of Materials	4	C	20	18	-	6		2			4 Study visitStudy visit 4h 4 Study visit
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			
5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2			
5C1122 Continuum Mechanics	4	C	42	-	-	-	1				
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2			
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1				
5C1902 Advanced Dynamics of Complex Systems	4	D	24	-	-	-	1				

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Vehicle Engineering

Industrial Economics and Management T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1026 Industrial Economy and Management, Basic Course	4	B	26	20	-	-		2			4 h Seminars
4D1028 Industrial Economy and Management, Advanced Course	4	C	26	20	-	-				4	4 h Seminars
Elective with											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-			3		
4D1075 Work Organization and Leadership* <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
4K1101 Control Systems	4	C	18	28	-	12				4	

*The course has limited participation

Industrial Economics and Management T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4D1035 Advanced Industrial Economics and Management	12	D	68	72	-	-		2	3	4	Other 16h	
Elective with												
4D1065 Industrial Marketing	4	C	36	12	-	-			3			
4D1070 Industrial Project Management	4	C	44	-	-	-	1					
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2				
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1					
Elective Courses												
4K1103 Manufacturing Automation II	6	C	28	32	-	17	1	2				

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Industrial Engineering T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
Elective Courses											
4G1320 Manufacturing Technology	4	C	-	-	-	20				4	
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	

Industrial Engineering T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1146 <u>Advanced Industrial Engineering</u>	12	D	67	22	-	-	1	2			120 h Projektuppgift
4G1147 <u>Quality</u>	6	C	48	24	-	-	1				
Elective with											
4G1634 <u>Manufacturing Engineering, Basic Course</u>	6	C	32	20	-	12	1	2			
Elective Courses											
3C1340 <u>Environmental Technology, Advanced Course</u>	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars
3C1360 <u>Environmental Consequences, Advanced Course</u>	4	C	18	9	-	8	1				9 h Seminars
4D1065 <u>Industrial Marketing</u>	4	C	36	12	-	-			3		
4D1088 <u>Technical Work Psychology</u>	4	C	24	4	-	4		2			

4G1053 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40		2	3	4	
4G1170 <u>Intelligent Machining</u>	4	D	36	20	-	-		2	3	4	
4G1243 <u>Advanced Welding Technology, Modulus 1</u>	4	D	20	20	-	20			3		
4G1244 <u>Advanced Welding Technology, Modulus 2</u>	4	D	20	20	-	20			3		
4G1245 <u>Advanced Welding Technology, Modulus 3</u>	4	D	20	20	-	20				4	
4G1246 <u>Enlarged Welding Technology for EWE</u> <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1540 <u>Laser Metrology Methods and Non Destructive Testing</u> <i>Under bearbetning</i>	4	C	28	22	-	4		2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				

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Integrated Product Development T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1075 <u>Work Organization and Leadership*</u> <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
Elective Courses											
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	

*The course has limited participation

Integrated Product Development T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1760 Integrated Product Development, Advanced Course	20	D	-	180	-	-	1	2	3	4	
Elective Courses											
4F1131 Microcomputers in Embedded Systems*	5	D	-	36	-	36		2			
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2			
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-			3		

*The course has limited participation

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Vehicle Engineering

Sound and Vibrations T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	

Sound and Vibrations T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1127 <u>Vibroacoustics</u>	5	D	-	56	-	8	1	2			
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4B1136 <u>Flow Acoustics</u>	4	D	-	36	-	8			3		
4B1141 <u>Sound and Vibration, Projekt Course</u>	5	D	-	48	-	12			3	4	Study tour to industry 40h
9E1131 <u>Information Searching for B, I, M, T</u>	1	B	-	-	-	-			3	4	

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Lightweight Structures T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4E1100 Lightweight Structures I	5	C	64	-	-	22			3	4		
Elective Courses												
4E1201 Elements of Aeronautics	5	C	72	-	-	4			3	4		

Lightweight Structures T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1122 Manufacturing of Polymer Composites	4	D	40	-	-	5	1				
4E1123 Mechanics of Composites and Sandwich Constructions	4	D	48	-	-	6		2			
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4E1131 Aircraft and Lightweight Design	6	D	8	60	-	12			3	4	
4E1150 Biomechanics and Neuronics	4	D	36	-	-	6				4	
Elective Courses											
3C1103 Technical English, Lower Intermediate*_-	4	B	-	56	-	-	1	2			
3C1110 Technical English II, upper intermediate level*_-	6	B	-	56	-	-	1	2			
3C1113 Technical English III, advanced level*_-	6	C	-	56	-	-	1	2			
3C1124 Technical German I, upper intermediate elvel, e-learning	6	B	-	18	-	-	1	2			E-learning exercises
3C1125 Technical German II, advanced course*_-	6	C	-	56	-	-	1	2			
3C1138 Technical French I, upper intermediate level*_-	6	B	-	56	-	-	1	2			
3C1148 Technical Spanish I, upper intermediate level*_-	6	B	-	56	-	-			3	4	
4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1420 Ground Vehicle Engineering, Basic Course	6	C	36	36	-	-	1	2			

4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
5B1722 Applied Optimization	4	C	28	14	-	9			3		

*The course has limited participation

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Vehicle Engineering

Machine Elements T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1530 <u>Function Analysis and Optimization in Mechanical Engineering</u>	5	C	-	60	-	-			3	4	One day field trip.

Machine Elements T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1540 Tribology	4	C	18	9	-	5	1				
4F1560 Advanced Machine Elements	12	D	-	120	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
Elective Courses											
4C1114 Finite Element Method	4	D	-	49	-	8		2			

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Vehicle Engineering

Machine Design T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1530 <u>Function Analysis and Optimization in Mechanical Engineering</u>	5	C	-	60	-	-			3	4	One day field trip.
Elective Courses											
4C1112 <u>Theory of Elasticity</u>	4	D	26	26	-	-			3		
4F1241 <u>Microcomputer, Sensors and Actuators</u>	6	C	18	26	-	29				4	
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	
4F1343 <u>Fluid Systems and Machines</u>	4	C	24	24	-	12				4	
4F1642 <u>Modelling and Computer Support in Mechanical Design</u>	4	C	24	36	-	-			3		
4K1201 <u>Computer Aided Design and Manufacturing, Introductory course</u>	5	C	48	-	-	24				4	Graded exercise
5C1121 <u>Analytical Mechanics</u>	4	C	48	-	-	-			3		

Machine Design T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4F1660 Advanced Machine Design	12	D	4	114	-	-			3	4	
Elective Courses											
3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
3E1361 Polymer Processing, Minor Course	4	C	24	8	-	18		2			
3E1366 Polymers in Engineering Design	4	C	18	24	-	8				4	
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4E1123 Mechanics of Composites and Sandwich Constructions	4	D	48	-	-	6		2			
4F1131 Microcomputers in Embedded Systems*_	5	D	-	36	-	36		2			

4F1131 <u>Microcomputers in Embedded Systems*</u> <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 <u>Project Work in Mechatronics*</u> <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1541 <u>CAD 3D-modelling and Visualization for Personal Computers</u>	4	C	8	36	-	-		2			
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4F1641 <u>Environmentally Adapted Product Design</u>	4	C	24	20	-	16		2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				

*The course has limited participation

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Vehicle Engineering

Materials Science T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1059 Engineering Materials, Advanced Course	6	C	10	15	-	15			3		
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48			3	4	Home assignments
4H1204 Experimental Methods in Materials Science	5	D	10	10	-	48			3	4	
4H1504 Processing of Ceramic Materials	4	C	12	-	-	18			3		
Elective with											
4H1801 Physics of Materials for information Technology	4	D	20	4	-	6			3		

Materials Science T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1104 <u>Diffusion and Phase Equilibria</u>	6	D	18	18	-	42	1	2			
4H1113 <u>Powder Metallurgy</u>	4	D	18	18	-	12		2			
4H1301 <u>Material Design</u>	4	D	-	2	-	10			3	4	
4H1404 <u>Corrosion and Surface Protection, General Course</u>	4	C	16	12	-	12	1				
Elective with											
4H1405 <u>Corrosion and surface protection, advanced course</u>	4	D	16	-	-	-			3		
4H1505 <u>Structure and Properties of Ceramic Materials</u>	4	D	12	12	-	18		2			
4H1609 <u>Functional Materials</u>	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1610 <u>Advanced Materials</u>	4	C	18	-	-	6			3		Study visit 18h Seminars
4H1702 <u>Current Research Topics in Materials Chemistry</u>	4	D	20	4	-	8				4	
4H1703 <u>Materials Chemistry</u>	4	D	20	4	-	8				4	
4H1704 <u>Physics and Chemistry of Modern Materials</u>	4	D	20	4	-	8		2			
4H1802 <u>Artificial Materials</u>	4	D	20	4	-	6	1				

5A1304 Mathematical Methods in Physics	6	C	-	78	-	-	1	2			
5A1370 Solid State Theory	4	D	36	-	-	-	1				
Elective Courses											
4H1803 Physics of Nanostructured Materials	4	D	20	4	-	6				4	

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Vehicle Engineering

Mechanics T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5C1121 Analytical Mechanics	4	C	48	-	-	-			3		
Elective Courses											
5C1203 Fluid Mechanics, General Course <i>Compulsory within competenceprogram Fluid Mechanics.</i>	4	C	-	24	24	3				4	

Mechanics T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
5C1122 Continuum Mechanics	4	C	42	-	-	-	1				
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2			
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3		
5C1205 Compressible Flow, General Course	4	D	-	-	42	6	1				
5C1207 Boundary Layer Theory and Thermal Convection	5	D	-	-	38	9		2	3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1				
5C1209 Compressible Flow, Intermediate Course	2	D	-	-	22	6		2			
5C1210 Experimental Methods in Fluid Mechanics <i>Not given 01/ 02.</i>	4	D	-	-	28	9					
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3		
5C1213 Applied Computational Fluid Dynamics	2	D	-	-	10	14				4	
5C1902 Advanced Dynamics of Complex Systems	4	D	24	-	-	-	1				
5C1904 Advanced Modern Mechanics	4	D	24	-	-	-		2			
5C1992 Turbulence	4,5	D	-	-	36	3			3	4	

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Mechatronics T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.
Elective Courses											
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	

Mechatronics T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1132 <u>Microcomputers in Embedded Systems</u>	5	D	-	36	-	36	1				
4F1142 <u>Motion control and real-time implementation*</u> <i>Under bearbetning</i>	5	D	22	10	-	30		2		4	
4F1162 <u>Mechatronics, Advanced Course II</u>	15	D	-	116	-	80		2	3	4	

*The course has limited participation

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Environmental Management T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3C1340 <u>Environmental Technology, Advanced Course</u>	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars	
4D1060 <u>Industrial Development</u>	4	C	40	8	-	-			3			

Environmental Management T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1				9 h Seminars
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2			
3C1390 Environmental Management, Larger Course	8	D	36	3	-	24			3	4	Project work, field exercise
Elective Courses											
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises

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Paper Technology T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3D1107 Paper Technology <i>Under bearbetning</i>	6	D	42	-	-	56			3	4	2 days studytrip
Elective Courses											
3D1112 No translation	4	D	26	-	-	15				4	

Paper Technology T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1				
3D1103 Advanced Paper Technology	12	D	30	-	-	-	1	2	3		
3D1159 Pulp Mechanical Technology <i>Under bearbetning</i>	6	D	30	-	-	52	1	2			Seminars 4 h

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Publiceringsteknik T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1515 Machinery and Materials in Graphic Arts Technology <i>Not given 01/ 02.</i>	6	C	72	-	-	24					
2D1521 Communication and Information	5	C	21	-	-	-			3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2D1524 Image Processing and Reprographic Methods* <i>Not given 01/ 02. Limited number of participants</i>	6	C	50	16	-	24					
2D1526 Publishing Technology, General Course	6	C	60	-	-	20			3		30 h; A one week study tour is made in period 4.

*The course has limited participation

Publiceringsteknik T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3		
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2			
2D1527 Publishing Technology, Advanced Course	10	D	120	-	-	26			3	4	50 h
Elective Courses											
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		

*The course has limited participation

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Naval Architecture T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4	
Elective Courses											
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
4E1100 Lightweight Structures I	5	C	64	-	-	22			3	4	
5C1121 Analytical Mechanics	4	C	48	-	-	-			3		
5C1203 Fluid Mechanics, General Course Compulsory within competenceprogram Fluid Mechanics.	4	C	-	24	24	3				4	

Naval Architecture T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1505 Ship Structural Design	6	D	60	40	-	-	1	2			
4B1511 Ship Hydrodynamics	5	D	48	24	-	-	1				
4B1517 Naval Architecture, Project	8	D	24	84	-	-		2	3	4	
Elective Courses											
4B1127 Vibroacoustics	5	D	-	56	-	8	1	2			
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4C1116 Dynamic Problems in Solid Mechanics	4	D	42	-	-	8			3	4	
4C1117 Design Applications of Solid Mechanics*	4	D	16	6	-	-				4	
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4F1430 Combustion Engines, general course*	4	C	48	-	-	12	1				
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				
5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2			
5B1832 Systems Engineering	8	D	56	28	-	12	1	2			

5C1208 <u>Fluid Mechanics, Intermediate Course</u>	2	D	-	-	20	-	1				
5C1212 <u>Computational Fluid Dynamics</u>	5	D	-	-	50	10			3		
5C1213 <u>Applied Computational Fluid Dynamics</u>	2	D	-	-	10	14				4	

*The course has limited participation

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Rail Vehicles and Railway Systems T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 <u>Signal Analysis with Applications</u>	5	D	-	28	-	24				4	
4D1026 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-		2			4 h Seminars
Elective with											
4F1244 <u>Motion Control</u>	4	D	30	-	-	12				4	
Elective Courses											
4E1100 <u>Lightweight Structures I</u>	5	C	64	-	-	22			3	4	
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	

Rail Vehicles and Railway Systems T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1304 <u>Railway Systems and Rail Vehicles</u>	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1313 <u>Rail Vehicle Dynamics</u>	5	D	28	8	-	24			3		
Elective with											
4B1127 <u>Vibroacoustics</u>	5	D	-	56	-	8	1	2			
Elective Courses											
1C1206 <u>Railway Track Engineering</u>	5	D	33	-	-	-			3		44 h Workshop
1H1206 <u>Planning of Railroad Traffic</u>	5	C	-	-	66	-	1				
2C1149 <u>Electric Traction</u>	4	C	36	-	-	-				4	
4C1116 <u>Dynamic Problems in Solid Mechanics</u>	4	D	42	-	-	8			3	4	
4F1540 <u>Tribology</u>	4	C	18	9	-	5	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
5B1722 <u>Applied Optimization</u>	4	C	28	14	-	9			3		

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Vehicle Engineering

Systems Engineering T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
4D1026 Industrial Economy and Management, Basic Course	4	B	26	20	-	-		2			4 h Seminars
5B1538 Reliability Theory	6	D	-	-	72	-			3	4	
5B1722 Applied Optimization	4	C	28	14	-	9			3		
Elective Courses											
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4	

Systems Engineering T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5B1832 Systems Engineering	8	D	56	28	-	12	1	2			
Elective Courses											
1H1204 Logistics	5	C	6	-	-	-	1	2			12 h SeminarsProject-course, 12 h Seminars
1H1206 Planning of Railroad Traffic	5	C	-	-	66	-	1				
1H1212 Logistics, Advanced Course	5	D	4	-	-	-			3		12 h SeminarsProject-course, 12 h Seminars
1H1401 Optimisation Models in Transport and Location Analysis	5	D	27	12	-	6			3		6 h Seminars6h Seminars 6 h Seminars
5B1550 Applied Mathematical Statistics	5	D	-	-	60	-			3		
5B1852 Mathematical Economics	4	D	32	16	-	-		2			

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Materials Processing T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1134 Effective Production			25	35	-	-			3	4	
Elective Courses											
4G1320 Manufacturing Technology			-	-	-	20				4	
4G1332 Materials Processing I			26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
4H1251 Metal Forming - Fundamentals	6	C	24	24	-	18			3	4	

Materials Processing T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1051 Project Assignment, Materials Processing	4	D	-	160	-	-		2	3	4	160 h Projektuppgift
4G1053 Materials Processing, Project Support	4	D	72	48	-	40		2	3	4	
Elective with											
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				
4G1570 Metrology & Quality for the Manufacturing Industry	4	D	36	24	-	-		2	3		
4G1634 Manufacturing Engineering, Basic Course	6	C	32	20	-	12	1	2			
4G1670 Materials Forming	4	D	18	12	-	18		2	3		
Elective Courses											
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4G1170 Intelligent Machining	4	D	36	20	-	-		2	3	4	
4G1243 Advanced Welding Technology, Modulus 1	4	D	20	20	-	20			3		

4G1244 Advanced Welding Technology, Modulus 2	4	D	20	20	-	20			3		
4G1245 Advanced Welding Technology, Modulus 3	4	D	20	20	-	20				4	
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1341 Foundry Processing	4	D	12	-	-	-	1				Seminarier 24 Other 28 h
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8			3		

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Vehicle Engineering

Assembly Systems T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1026 Industrial Economy and Management, Basic Course	4	B	26	20	-	-		2			4 h Seminars
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise

Assembly Systems T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1634 <u>Manufacturing Engineering, Basic Course</u>	6	C	32	20	-	12	1	2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				
4K1104 <u>Manufacturing Systems, advanced course</u>	12	D	50	48	-	28		2	3	4	
4K1109 <u>Principles for Product Integrated Manufacturing Systems Design</u>	4	C	12	12	-	4	1				

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Wood Technology T3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32			3	4		
Elective Courses												
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h	

Wood Technology T4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1070 Industrial Project Management	4	C	44	-	-	-	1				
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1				
4K1603 Wood Technology, Advanced Course	10	D	48	24	-	36		2	3	4	
Elective Courses											
4D1065 Industrial Marketing	4	C	36	12	-	-			3		
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				

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Industrial Engineering and Management

Industrial Engineering and Management I1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1310 Programming Technique	4	B	26	16	-	36			3	4	
4D1111 Engineering	5	B	42	-	-	-				4	5 Study-visits
4D1123 Industrial Economics and Management	6	B	46	26	-	-	1	2			8 h Seminars
5A1225 Electromagnetism and Waves	5	B	36	20	-	20			3		
5B1115 Mathematics 1	6	B	72	-	-	-	1				
5B1116 Mathematics 2	6	B	72	-	-	-		2			
5C1103 Mechanics, Basic Course	6	B	48	27	-	-			3	4	

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Industrial Engineering and Management

Industrial Engineering and Management I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1210 Numerical Methods, Basic Course I	4	B	24	24	-	24			3	4	
4D1122 Industrial Economics and Management <i>Part 1 has expired, part 2 will be given for the last time academic year 01/02</i>	10	B	42	-	-	-	1				6 h Seminars
4D1160 Economics With Focus on Microeconomic Theory	4	C	36	12	-	-		2			
5A1225 Electromagnetism and Waves	5	B	36	20	-	20	1				

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Industrial Engineering and Management I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1114 Knowledge Formation I	4	C	18	-	-	8			3		24 h Seminars
Elective with											
4D1136 Production	4	C	40	8	-	-			4		2 Study-visits
4D1162 Management Control: Strategic and Behavioral Perspectives	4	C	32	-	-	-		2			6 h Seminars
4D1164 Cost Management and Performance Measurement	4	D	32	-	-	-			4		6 h Seminars
4D1168 Industrial Dynamics	4	C	36	12	-	-	1				
4D1170 Advanced Production and Product Development	4	D	36	12	-	-		2			
4D1174 Management and Analysis of Industrial Innovations and Technology	4	D	36	12	-	-		2			
Elective Courses											
4D1172 Current Issues in Industrial Economics and Management <i>Will be give when appropriate teacher is available</i>	4	C	36	12	-	-					

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Industrial Engineering and Management

Industrial Engineering and Management I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1117 Knowledge Formation II	4	C	28	-	-	-	1				
Elective with											
4D1051 Commercial Law	4	C	21	10	-	-		2			
4D1056 Intellectual Property Law	4	D	32	-	-	-				4	8 h Seminars
4D1070 Industrial Project Management	4	C	44	-	-	-	1				
4D1136 Production	4	C	40	8	-	-				4	2 Study-visits
4D1141 Leadership	4	C	24	24	-	-	1				
4D1151 Marketing	4	D	36	12	-	-			3		
4D1162 Management Control: Strategic and Behavioral Perspectives	4	C	32	-	-	-		2			6 h Seminars
4D1164 Cost Management and Performance Measurement	4	D	32	-	-	-				4	6 h Seminars
4D1166 Finance	4	C	30	18	-	-		2			
4D1168 Industrial Dynamics	4	C	36	12	-	-	1				
4D1170 Advanced Production and Product Development	4	D	36	12	-	-		2			
4D1174 Management and Analysis of Industrial Innovations and Technology	4	D	36	12	-	-		2			
4D1176 Internet Economics	4	C	36	12	-	-				4	
4D1178 Work Science and Economics	4	C	36	12	-	-		2			
4D1500 Intrapreneurship <i>The course is given by The Stockholm School of Entrepreneurship.</i>	5	C	16	10	-	-				4	
4D1505 Create a Business Opportunity <i>The course is given by The Stockholm School of Entrepreneurship.</i>	5	C	34	-	-	-	1				
4G1147 Quality	6	C	48	24	-	-	1				
5B1306 Introductory Financial Mathematics	5	C	-	-	54	-				4	
Elective Courses											
4D1172 Current Issues in Industrial Economics and Management <i>Will be give when appropriate teacher is available</i>	4	C	36	12	-	-					

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Energy Systems and Industrial Engineering I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h
4A1112 Applied Thermodynamics	6	C	48	48	-	-	1	2			Math exercises
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4A1603 Energy Technology	4	C	48	12	-	-				4	
5B1501 Probability Theory and Statistics	4	C	24	36	-	-			3		

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Energy Technology and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4F1221 Electrical Engineering, Basic Course	4	B	12	18	-	14		2			

Energy Technology and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1144 Energytechnology - Business - Leadership	8	D	12	24	-	4			3	4	
4D1143 Technology - Business - Leadership	4	D	24	-	-	-		2			4 h Seminars

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Industrial Engineering and Management

Integrated Production and Industrial Engineering I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1035 <u>Strength of Materials and Solid Mechanics, Basic Course</u>	6	B	42	42	-	2		2	3		4 written assignments
4F1221 <u>Electrical Engineering, Basic Course</u>	4	B	12	18	-	14		2			
4F1531 <u>Machine Elements, basic course for I and T</u>	4	B	24	40	-	-				4	
4K1101 <u>Control Systems</u>	4	C	18	28	-	12				4	
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-			3		

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Chemical Technology and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1280 <u>Physical Chemistry</u>	7	C	52	60	-	-	1		3		
3C1616 <u>Reaction and Separation Engineering</u>	7	C	56	28	-	24		2	3		16 hour
3C1715 <u>Transport Phenomena and Engineering Thermodynamics</u>	7	C	56	28	-	40	1	2			

Chemical Technology and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1145 Technology - Business - Leadership	12	D	48	-	-	4		2	3	4	100 h Seminars
Elective with											
3C1422 Industrial Energy Processes	5	D	30	34	-	-	1				
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3		
3C1621 Process Chemistry	5	D	24	84	-	-			3		

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Communication Systems and Industrial Engineering I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2G1317 Computer communication and computer networks	5	C	34	18	-	26		2	3		
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h

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Mechanical and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1305 Ecology and Environmental Technology_	4	C	24	3	-	-		2			Field exercise 8 h
4F1430 Combustion Engines, general course*_	4	C	48	-	-	12	1				
5C1112 Mechanics, Continuation Course	4	C	30	15	-	-		2			

*The course has limited participation

Mechanical and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1421 <u>Ground Vehicle Engineering, Basic Course</u>	4	C	30	24	-	-	1	2			
4D1145 <u>Technology - Business - Leadership</u>	12	D	48	-	-	4		2	3	4	100 h Seminars
4F1431 <u>Combustion Engines, Advanced Course*</u>	6	D	56	-	-	32		2	3		

*The course has limited participation

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Industrial Engineering and Management

Mechatronics and Industrial Engineering I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1035 <u>Strength of Materials and Solid Mechanics, Basic Course</u>	6	B	42	42	-	2		2	3		4 written assignments
4F1222 <u>Electrical Engineering, Basic Course</u> <i>Under bearbetning</i>	6	B	18	27	-	26		2	3		
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	
4F1531 <u>Machine Elements, basic course for I and T</u>	4	B	24	40	-	-				4	
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-		2			

Mechatronics and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1200 Automatic Control, General Course	4	C	24	26	-	12	1				
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h
4F1132 Microcomputers in Embedded Systems	5	D	-	36	-	36			3		
4F1142 Motion control and real-time implementation* <i>Under bearbetning</i>	5	D	22	10	-	30				4	
5C1112 Mechanics, Continuation Course	4	C	30	15	-	-		2			

*The course has limited participation

Mechatronics and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1161 Mechatronics-Economics-Leadership	15	D	-	116	-	80		2	3	4	

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Industrial Engineering and Management

Production and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1221 Electrical Engineering, Basic Course	4	B	12	18	-	14		2			
4G1634 Manufacturing Engineering, Basic Course	6	C	32	20	-	12	1	2			
4H1057 Engineering Materials	4	B	24	-	-	15	1				
4K1101 Control Systems	4	C	18	28	-	12				4	

Production and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1143 Technology - Business - Leadership	4	D	24	-	-	-		2			4 h Seminars
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1108 Manufacturing Systems, Continuation Course I	5	D	30	30	-	17		2	3		
4K1110 Production - Business - Leadership	8	D	24	-	-	-			3	4	Project work

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Program Design and Industrial Engineering I2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20	1	2			
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1385 Software Engineering	4	C	24	12	-	18				4	
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-		2			Field exercise 8 h
5B1501 Probability Theory and Statistics	4	C	24	36	-	-			3		

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Program Development and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1360 Object Oriented Modeling, Programming and Analysis	6	C	40	14	-	38	1	2			
2D1390 Internet Programming	4	C	28	-	-	26		2			
2D1406 Fundamentals of Human-Computer Interaction	4	D	18	5	2	-		2			
2D1953 Graphics and Interaction Programming	4	C	30	6	-	28			3		
2D1954 Program Development Project	4	C	12	-	-	-			3	4	
2G1129 Computer Hardware Basics	4	C	18	18	-	20			3	4	
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				

Program Development and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1460 Software Design - Business - Leadership	8	D	12	-	-	-			3	4	12 h Seminars
4D1143 Technology - Business - Leadership	4	D	24	-	-	-		2			4 h Seminars

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Radio Communication Systems and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1431 Communication Theory	6	C	40	36	-	8	1	2			
2E1435 Advanced Communication Theory	4	D	-	-	42	-			3		
2E1511 Radio Communication, Basic Course	4	D	24	24	-	8	1				
2E1512 Wireless Networks*_	8	D	30	24	-	12				4	
2G1318 Queuing Theory and Teletraffic Systems	4	D	24	24	-	-		2			

*The course has limited participation

Radio Communication Systems and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1145 Technology - Business - Leadership	12	D	48	-	-	4	2	3	4	100 h Seminars	

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Telecommunication Systems and Industrial Engineering I3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2G1113 <u>Operating Systems</u>	4	C	24	18	-	-				4	
2G1119 <u>Computer Hardware Basics</u>	4	C	18	18	-	20	1	2			
2G1305 <u>Internetworking</u>	4	D	20	20	-	-			3		
2G1318 <u>Queuing Theory and Teletraffic Systems</u>	4	D	24	24	-	-		2			
3C1305 <u>Ecology and Environmental Technology</u>	4	C	24	3	-	-		2			Field exercise 8 h

Telecommunication Systems and Industrial Engineering I4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2G1320 Communication - Business - Leadership <i>Replaces 2G1303.</i> <i>Under bearbetning</i>	10	D	50	20	-	20			3	4	80 h Projektuppgift80 h Projektuppgift	
4D1143 Technology - Business - Leadership	4	D	24	-	-	-		2			4 h Seminars	

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Informationsteknik IT1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1550 Digital Electronics	6	B	36	24	-	20			3	4	
2G1501 Communication Systems	6	D	30	18	-	12			3	4	
2I1026 Introduction to Information Technology	5	B	32	-	-	36	1	2			
2I1027 Computer Science, Basic Course	6	B	32	-	21	26		2	3		
5B1115 Mathematics 1	6	B	72	-	-	-	1				
5B1116 Mathematics 2	6	B	72	-	-	-			3		
5B1118 Discrete Mathematics	5	B	60	-	-	-		2			

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Informationsteknik IT2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1350 Electromagnetism and waves	4	B	-	-	-	-				4	
2G1502 Computer Hardware Basics	4	B	18	18	-	20	1	2			
5A1220 Introductory Physics <i>Under bearbetning</i>	4		-	-	-	-		2			
5B1506 Mathematical Statistics, basic course	6	C	36	48	-	-	1				

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Chemical Engineering

Chemical Engineering K1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1700 <u>Introductory Chemistry</u>	4	B	18	24	-	22	1				
3B1711 <u>Chemical Equilibria</u>	4	B	12	22	-	25			3		
3B1750 <u>Organic Chemistry I</u>	5	B	18	16	-	42		2			
3C1451 <u>Introduction to Chemical Engineering</u>	7	B	36	26	-	-				4	Field Exercise 1 day, Plant Trip 1 day
5B1104 <u>Calculus I, part 1</u>	5	B	60	-	-	-		2			Workshop 21 h
5B1105 <u>Calculus I, part 2</u>	5	B	60	-	-	-			3		Workshop 21 h
5B1108 <u>Linear Algebra I</u>	4	B	48	-	-	-	1				Workshop 21 h
5C1102 <u>Mechanics, Smaller Course</u>	4	B	30	15	-	-				4	
Elective Courses											
3B1705 <u>Introductory Course in Chemistry</u>	1	A	-	-	-	-					
3C1921 <u>Oral and Written Presentation for Chemists</u>	4	B	-	-	-	-		2	3	4	

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Chemical Engineering

Chemical Engineering K2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1210 Numerical Methods, Basic Course I	4	B	24	24	-	24			3	4	
2D1310 Programming Technique	4	B	26	16	-	36		2	3		
3A1108 Biotechnology	4	B	36	-	-	-				4	
3B1720 Chemical Thermodynamics	5	C	28	30	-	20	1				
3B1730 Molecular Structure	5	C	36	22	-	20		2	3		
3B1740 Chemical Dynamics	4	C	20	20	-	15			3		
3B1760 Organic Chemistry 2	5	C	12	22	-	54				4	
5A1225 Electromagnetism and Waves	5	B	38	18	-	20		2			
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-	1				
Elective Courses											
3C1921 Oral and Written Presentation for Chemists	4	B	-	-	-	-		2	3	4	

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Chemical Engineering

Chemical Engineering K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1770 Chemical measuring techniques	5	C	20	4	-	12	1				
3C1616 Reaction and Separation Engineering	7	C	56	28	-	24		2	3		16 hour
3C1715 Transport Phenomena and Engineering Thermodynamics	7	C	56	28	-	40	1	2			
3E1200 Polymer technology with cellulose technology	5	C	34	25	-	-		2			
Elective Courses											
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
3B1510 Organic Chemistry, Intermediate Course I	10	D	12	6	-	48	1			4	
3B1511 Organic chemistry advanced course I	9	D	12	6	-	-				4	
3B1520 Organic Chemistry, Intermediate Course I, Theoretical Part	7	D	12	6	-	-				4	
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-				4	
3B1781 Inorganic Chemistry	4		20	6	-	16				4	
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4	
3C1626 Chemical Engineering, Laboratory Course	4	C	2	-	80	-			3		
3C1722 Transport Phenomena, Advanced Course	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise
3C1786 Pharmaceutical Bioscience	4	C	-	-	-	-	1		3		
3C1921 Oral and Written Presentation for Chemists	4	B	-	-	-	-		2	3	4	
3D1058 Wood Chemistry and wood biotechnology	4	D	26	-	-	15			3		
3D1112 No translation	4	D	26	-	-	15				4	
3E1120 Mechanical properties of materials	5	C	30	15	-	12				4	
3E1142 Polymer Physics	5	D	18	18	-	45			3		
3U1101 Oral and written presentation for chemists <i>Under bearbetning</i>	4	B	-	-	-	-					

Under bearbetning

5B1301 Mathematics, Advanced Course, Partial Differential Equatio	4	D	-	-	42	-				4	
9E1230 Information Searching	1	B	-	-	-	-	1	2	3	4	A total of 12 h (3x4h), a written examination and a written report. The course is scheduled several times per year

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Chemical Engineering

Chemical Engineering K4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
3B1211 Quantum Chemistry and Spectroscopy <i>Quantum mechanics is fun!</i>	6	D	48	8	-	8		2			
Elective Courses											
2B1700 Advanced Semiconductor Materials	5	D	34	-	-	16				4	
2D1276 Computational Chemistry <i>Given every 2nd year. Given in 01-02. The course will not be on the central schedule.</i>	5	C	28	-	-	-					
2D1320 Applied Computer Science	4	B	30	14	-	20	1	2			
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3		
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
2E1241 Automatic Control, Project Course*	5	D	4	-	-	50				4	
2E1252 Control Theory and Practice, Advanced Course	5	D	28	26	-	8			3		
3A1104 Environmental Toxicology	6	D	36	14	-	-	1	2			
3A1106 Biochemistry, Advanced Course	9	D	54	-	-	90	1	2			
3B1122 Analytical Separation Methods	4	D	28	20	-	-				4	Literature study
3B1211 Quantum Chemistry and Spectroscopy <i>Quantum mechanics is fun!</i>	6	D	48	8	-	8		2			
3B1223 Molecular Thermodynamics	4	D	24	4	-	12	1		3		
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
3B1301 Nuclear Chemistry	5	D	30	-	-	20		2			
3B1321 Radical Chemistry	5	D	30	-	-	-			3		

3B1451 Bio-inorganic Chemistry	5	D	20	6	-	15			4	
3B1456 Inorganic Materials Chemistry	5	D	20	6	-	15			4	
3B1510 Organic Chemistry, Intermediate Course I	10	D	12	6	-	48	1		4	
3B1511 Organic chemistry advanced course I	9	D	12	6	-	-			4	
3B1520 Organic Chemistry, Intermediate Course I, Theoretical Part	7	D	12	6	-	-			4	
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-			4	
3B1531 Organic chemistry, advanced course, practical work	4	D	-	-	-	48	1			
3B1542 Organic Chemistry, Intermediate Course II	5	D	24	10	-	36		2		
3B1650 Molecular Simulations Using a Computer	5	D	14	10	-	40			3	
3B1655 Optical Processes and Properties	5	D	10	10	-	-			4	
3C1345 Environmental Technology and Environmental Impact Studies	4	D	32	4	-	8			3	4
3C1347 Environmental Technology and Environmental Impact Studies, Larger Course	8	D	32	16	-	24			3	4
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6			4	Project work 20 h
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2		
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3	
3C1533 Chemical Engineering, Intermediate Course - Minor	4	D	16	16	-	14		2	3	
3C1651 Environmental Catalysis	4	D	30	-	-	-			3	Seminars 18 h
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	28	22	-	27	1			8 h industry visit
3D1054 Wood Chemistry	6	D	30	60	-	-	1	2		
3D1055 Wood Chemistry, Minor Course	4	D	30	-	-	-	1	2		
3D1106 Paper Technology	6	D	42	-	-	56			3	4
3D1109 Paper Technology, Intermediate Course <i>Under bearbetning</i>	4	D	30	-	-	10	1	2		
3D1157 Pulp Technology	6	D	42	-	-	56	1	2		4 h seminars
3D1158 Pulp Technology, Minor Course	4	D	42	-	-	-	1	2		4 h seminars
4K1105 Manufacturing Systems and Automation	4	C	14	24	-	12		2		
5A1490 Laser Chemistry	4	D	24	-	-	12		2		
5A1491 Femtochemistry	5	D	36	-	-	-			3	
5A1630 Surface Physics, Basic Course	4	D	36	-	-	-		2		
5A1650 Smart Electronic Materials	4	C	18	10	-	8	1			
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1			
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-			4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-			4	

7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6				4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-				4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-				4	30 + 10 h (field work with oral and written report)
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1200 Cellular and Molecular Biology*₋	10	C	80	-	-	8			3	4	
7E1202 Systems Biology*₋	5	C	32	-	25	-		2			
9E1230 Information Searching	1	B	-	-	-	-	1	2	3	4	A total of 12 h (3x4h), a written examination and a written report. The course is scheduled several times per year

*The course has limited participation

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Chemical Engineering

Biotechnology K4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1106 Biochemistry, Advanced Course	9	D	54	-	-	90	1	2			
3A1201 Biotechnology, General Course	8	D	54	-	-	75			3	4	
3A1305 Microbiology, General Course	6	D	36	16	-	54	1	2			
4C1072 Strength of Materials and Mechanical Design	4	B	26	26	-	2	1				
Recommended Courses											
3A1304 Microbiology, Advanced Course	4	D	18	-	-	12				4	
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
Elective Courses											
3A1304 Microbiology, Advanced Course	4	D	18	-	-	12				4	
3B1111 Industrial Analytical Chemistry	5	D	25	10	-	50		2			
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
3B1122 Analytical Separation Methods	4	D	28	20	-	-				4	Literature study
3B1231 NMR-spectroscopy	4	D	30	-	-	12			3		
3B1510 Organic Chemistry, Intermediate Course I	10	D	12	6	-	48	1			4	
3B1520 Organic Chemistry, Intermediate Course I, Theoretical Part	7	D	12	6	-	-				4	
3C1385 Biology	4	C	30	6	-	6	1				Field exercise 8 h
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3		
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	28	22	-	27	1				8 h industry visit

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Chemical Engineering

Cellulosic Materials, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3D1058 <u>Wood Chemistry and wood biotechnology</u>	4	D	26	-	-	15			3		
3D1112 <u>No translation</u>	4	D	26	-	-	15				4	
Recommended Courses											
3B1102 <u>Analytical Chemistry</u>	4	C	16	-	-	16			3		
3B1242 <u>Technical Surface Colloid Chemistry</u>	4	D	32	6	-	12			3		
3B1521 <u>Organic chemistry, advanced course I, theory</u>	5	D	12	6	-	-				4	
3B1781 <u>Inorganic Chemistry</u>	4		20	6	-	16				4	
3E1120 <u>Mechanical properties of materials</u>	5	C	30	15	-	12				4	

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Chemical Engineering

Industriell ekologi K1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1700 <u>Introductory Chemistry</u>	4	B	18	24	-	22	1				
3B1711 <u>Chemical Equilibria</u>	4	B	12	22	-	25			3		
3B1750 <u>Organic Chemistry I</u>	5	B	18	16	-	42		2			
3C1457 <u>Introd. to Chemical Engineering and Industrial Ecology</u>	9	B	44	36	-	-	1			4	
5B1104 <u>Calculus I, part 1</u>	5	B	60	-	-	-		2			Workshop 21 h
5B1105 <u>Calculus I, part 2</u>	5	B	60	-	-	-			3		Workshop 21 h
5B1108 <u>Linear Algebra I</u>	4	B	48	-	-	-	1				Workshop 21 h
5C1102 <u>Mechanics, Smaller Course</u>	4	B	30	15	-	-				4	

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Chemical Engineering

Chemistry, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1781 Inorganic Chemistry	4		20	6	-	16				4	
Elective with											
3A1115 Biochemistry	4	C	32	-	-	-				4	
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
Recommended Courses											
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-				4	

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Chemical Engineering

Chemistry K4

At least two of the following courses must be selected: 3A1106, 3B1111, 3B1121, 3B1301, 3B1321, 3B1432 and 3B1510

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1072 Strength of Materials and Mechanical Design	4	B	26	26	-	2	1				
Recommended Courses											
3B1111 Industrial Analytical Chemistry	5	D	25	10	-	50		2			
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
3B1122 Analytical Separation Methods	4	D	28	20	-	-				4	Literature study
Elective Courses											
3B1231 NMR-spectroscopy	4	D	30	-	-	12			3		
3B1312 Nuclear Fuel Cycle	4	D	16	-	-	6			3		Project
3B1441 Water Chemistry	5	D	12	10	-	24				4	
3B1443 Atmospheric, aquatic and terrestrial chemistry	5	D	12	10	-	24				4	
3E1141 Polymer Chemistry	5	D	18	18	-	45	1				
3E1142 Polymer Physics	5	D	18	18	-	45			3		
5B1301 Mathematics, Advanced Course, Partial Differential Equatio	4	D	-	-	42	-				4	

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Computational chemical engineering, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
5B1301 Mathematics, Advanced Course, Partial Differential Equatio	4	D	-	-	42	-				4	
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4	
Elective with											
3B1223 Molecular Thermodynamics	4	D	24	4	-	12	1		3		
5A1340 Thermodynamics and Statistical Mechanics, Basic Course	4	C	30	24	-	-				4	
Recommended Courses											
2E1291 Chemical Process Control	4	C	20	28	-	8			3		
3A1115 Biochemistry	4	C	32	-	-	-				4	
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-				4	
3B1781 Inorganic Chemistry	4		20	6	-	16				4	
3C1722 Transport Phenomena, Advanced Course	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise

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Chemical Engineering

Chemical engineering, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective with											
2E1291 <u>Chemical Process Control</u>	4	C	20	28	-	8			3		
3C1621 <u>Process Chemistry</u>	5	D	36	72	-	-			3		
3C1626 <u>Chemical Engineering, Laboratory Course</u>	4	C	2	-	80	-			3		
3C1722 <u>Transport Phenomena, Advanced Course</u>	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise
Recommended Courses											
3B1102 <u>Analytical Chemistry</u>	4	C	16	-	-	16			3		
3B1242 <u>Technical Surface Colloid Chemistry</u>	4	D	32	6	-	12			3		
3B1521 <u>Organic chemistry, advanced course I, theory</u>	5	D	12	6	-	-				4	
3B1781 <u>Inorganic Chemistry</u>	4		20	6	-	16				4	
3E1120 <u>Mechanical properties of materials</u>	5	C	30	15	-	12				4	

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Chemical Engineering and Technology K4

At least two of the following courses must be selected: 3C1422, 3C1523, 3C1621, 3C1632, 3C1722, 3C1781 and 3C1823, and the design course 3C1941.

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1422 Industrial Energy Processes	5	D	30	34	-	-	1				
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3		
3C1621 Process Chemistry	5	D	36	72	-	-			3		
3C1632 Chemical Reaction Engineering	5	D	16	24	-	34	1	2			Including seminars and demonstration of computerprogramms
3C1781 Chemical Engineering in Fine and Specialty Chemicals	5	D	28	22	-	27	1				8 h industry visit
3C1823 Applied Electrochemistry	5	D	36	18	-	20			3		
3C1941 Chemical Engineering, Design Course	10	D	40	120	-	-				4	
4C1072 Strength of Materials and Mechanical Design	4	B	26	26	-	2	1				
Elective Courses											
3B1111 Industrial Analytical Chemistry	5	D	25	10	-	50		2			
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
3C1833 Corrosion of Metals	4	D	16	-	-	-			3		8 h Seminars
3D1157 Pulp Technology	6	D	42	-	-	56	1	2			4 h seminars

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Pharmaceuticals and Fine Chemicals Technology, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1242 <u>Technical Surface Colloid Chemistry</u>	4	D	32	6	-	12			3		
3B1521 <u>Organic chemistry, advanced course I, theory</u>	5	D	12	6	-	-				4	
3C1786 <u>Pharmaceutical Bioscience</u>	4	C	-	-	-	-	1		3		
Recommended Courses											
3A1115 <u>Biochemistry</u>	4	C	32	-	-	-				4	
3C1626 <u>Chemical Engineering, Laboratory Course</u>	4	C	2	-	80	-			3		

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Pharmaceutical and Fine Chemical Technology K4

For information about the courses 3FG150 Advanced drug formulation and pharmaceutical technology and 3FK070 Transport phenomena and polymer systems, please contact the Department of Chemical Engineering and Technology.

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1781 <u>Chemical Engineering in Fine and Specialty Chemicals</u>	5	D	28	22	-	27	1				8 h industry visit
3C1784 <u>Pharmaceutical Technology</u> <i>Lectures are given in Stockholm (KTH) and laboratory work in Uppsala (Biomedical centre).</i>	5	D	32	10	-	25			3		
3C1786 <u>Pharmaceutical Bioscience</u>	4	C	-	-	-	-	1		3		
4C1072 <u>Strength of Materials and Mechanical Design</u>	4	B	26	26	-	2	1				
4K1105 <u>Manufacturing Systems and Automation</u>	4	C	14	24	-	12		2			
Recommended Courses											
3A1202 <u>Environmental Biotechnology</u>	4	D	30	12	-	-			3	4	
Elective Courses											
3A1106 <u>Biochemistry, Advanced Course</u>	9	D	54	-	-	90	1	2			
3A1107 <u>Biochemistry, Advanced Course</u>	5	D	54	-	-	-	1	2			
3A1201 <u>Biotechnology, General Course</u>	8	D	54	-	-	75			3	4	
3A1202 <u>Environmental Biotechnology</u>	4	D	30	12	-	-			3	4	
3A1305 <u>Microbiology, General Course</u>	6	D	36	16	-	54	1	2			
3B1113 <u>Production and Utilization of Chemical Data</u>	4	D	20	10	-	42		2			
3B1242 <u>Technical Surface Colloid Chemistry</u>	4	D	32	6	-	12			3		
3B1520 <u>Organic Chemistry, Intermediate Course I, Theoretical Part</u>	7	D	12	6	-	-				4	
3C1632 <u>Chemical Reaction Engineering</u>	5	D	16	24	-	34	1	2			Including seminars and demonstration of computerprogramms
3C1722 <u>Transport Phenomena, Advanced Course</u>	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise
3E1141 <u>Polymer Chemistry</u>	5	D	18	18	-	45	1				
3E1142 <u>Polymer Physics</u>	5	D	18	18	-	45			3		

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Environmental Management, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3B1781 Inorganic Chemistry	4		20	6	-	16				4	
3C1347 Environmental Technology and Environmental Impact Studies, Larger Course	8	D	32	16	-	24			3	4	

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Environmental Technology K4

Compulsory courses Environment Technology: 3C1346, 3C1350, 3C1360, 3C1370 Compulsory courses Environment Chemistry: 3A1104, 3C1346, 3C1370 Compulsory courses Environment Management: 3C1346, 3C1370, 3C1380 (or 3C1390) and 4D1087.

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3A1104 Environmental Toxicology	6	D	36	14	-	-	1	2			
3C1347 Environmental Technology and Environmental Impact Studies, Larger Course	8	D	32	16	-	24			3	4	
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2			
3C1380 Environmental Management	4	D	18	3	-	8			3	4	Project work 8 h
3C1390 Environmental Management, Larger Course	8	D	36	3	-	24			3	4	Project work, field exercise
4C1072 Strength of Materials and Mechanical Design	4	B	26	26	-	2	1				
Recommended Courses											
3A1202 Environmental Biotechnology	4	D	30	12	-	-			3	4	
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
Elective Courses											
3A1104 Environmental Toxicology	6	D	36	14	-	-	1	2			
3A1106 Biochemistry, Advanced Course	9	D	54	-	-	90	1	2			
3A1107 Biochemistry, Advanced Course	5	D	54	-	-	-	1	2			
3A1202 Environmental Biotechnology	4	D	30	12	-	-			3	4	
3A1305 Microbiology, General Course	6	D	36	16	-	54	1	2			
3B1111 Industrial Analytical Chemistry	5	D	25	10	-	50		2			
3B1121 Organic and Biochemical Analytical Separations	5	D	28	20	-	36				4	
3B1441 Water Chemistry	5	D	12	10	-	24				4	
3B1443 Atmospheric, aquatic and terrestrial chemistry	5	D	12	10	-	24				4	
3B1520 Organic Chemistry, Intermediate Course I, Theoretical Part	7	D	12	6	-	-				4	
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h

3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises
3C1380 Environmental Management	4	D	18	3	-	8			3	4	Project work 8 h
3C1383 Risk Management	4	C	16	26	-	-		2			
3C1422 Industrial Energy Processes	5	D	30	34	-	-	1				
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3		
3C1632 Chemical Reaction Engineering	5	D	16	24	-	34	1	2			Including seminars and demonstration of computerprogramms
3C1722 Transport Phenomena, Advanced Course	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise

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Chemical Engineering

Cellulose and Paper Technology K4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3D1054 Wood Chemistry	6	D	30	60	-	-	1	2			
3D1106 Paper Technology	6	D	42	-	-	56			3	4	2 days studytrip
3D1157 Pulp Technology	6	D	42	-	-	56	1	2			4 h seminars
4C1072 Strength of Materials and Mechanical Design	4	B	26	26	-	2	1				
Recommended Courses											
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1				
Elective Courses											
3B1111 Industrial Analytical Chemistry	5	D	25	10	-	50		2			
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
3B1510 Organic Chemistry, Intermediate Course I	10	D	12	6	-	48	1			4	
3B1520 Organic Chemistry, Intermediate Course I, Theoretical Part	7	D	12	6	-	-				4	
3C1422 Industrial Energy Processes	5	D	30	34	-	-	1				
3C1523 Chemical Engineering, Intermediate Course - Major	8	D	22	38	-	26		2	3		
3C1722 Transport Phenomena, Advanced Course	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise

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Chemical Engineering

Polymer Technology, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1120 Mechanical properties of materials	5	C	30	15	-	12				4	
3E1142 Polymer Physics	5	D	18	18	-	45			3		
Recommended Courses											
3B1102 Analytical Chemistry	4	C	16	-	-	16			3		
3B1242 Technical Surface Colloid Chemistry	4	D	32	6	-	12			3		
3B1521 Organic chemistry, advanced course I, theory	5	D	12	6	-	-				4	

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Chemical Engineering

Polymer Technology K4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1140 <u>Polymer Technology, Intermediate Course</u>	15	D	54	54	-	130	1	2			
4C1072 <u>Strength of Materials and Mechanical Design</u>	4	B	26	26	-	2	1				
Elective Courses											
3B1510 <u>Organic Chemistry, Intermediate Course I</u>	10	D	12	6	-	48	1			4	
3B1520 <u>Organic Chemistry, Intermediate Course I, Theoretical Part</u>	7	D	12	6	-	-				4	
3E1143 <u>Surface Coatings Chemistry</u>	5	D	30	-	-	28				4	
3E1144 <u>Mechanical Properties and Testing of Polymers</u>	5	D	30	12	-	12			3		
3E1145 <u>Polymer Process Engineering I</u>	5	D	30	10	-	28				4	
3E1146 <u>Biopolymers</u>	5	D	20	6	-	25			3		

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Chemical Engineering

Process and Environmental Biotechnology, start vt 02 K3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3A1115 <u>Biochemistry</u>	4	C	32	-	-	-				4		
Recommended Courses												
2E1291 <u>Chemical Process Control</u>	4	C	20	28	-	8			3			
3B1102 <u>Analytical Chemistry</u>	4	C	16	-	-	16			3			
3B1521 <u>Organic chemistry, advanced course I, theory</u>	5	D	12	6	-	-				4		
3C1345 <u>Environmental Technology and Environmental Impact Studies</u>	4	D	32	4	-	8			3	4		
3C1722 <u>Transport Phenomena, Advanced Course</u>	4	D	24	12	-	-				4	Seminarium 18 h including 12 h computer exercise	

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Surveying

Surveying L1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1032 Ecology	4	B	24	20	-	-				4	8 h Field excursions, 3 h Workshop
1F1335 Economic Analysis	5	B	24	36	-	-			3		
1F1440 Civil and Public Law	5	B	24	40	-	-		2			
1F1453 Real Estate Planning, Basic Course	5	B	42	22	-	-	1				Field-exercise
2D1311 Programming Technique with PBL	4	B	19	12	-	42			3	4	
5B1104 Calculus I, part 1	5	B	60	-	-	-		2			Workshop 21 h
5B1105 Calculus I, part 2	5	B	60	-	-	-			3		Workshop 21 h
5B1108 Linear Algebra I	4	B	48	-	-	-	1				Workshop 21 h
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-				4	Workshop 21 h

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Surveying

Surveying L2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1034 <u>Land Engineering and Construction</u>	10	B	40	54	-	24	1	2			Field-exercises
1E1110 <u>Surveying, Remote Sensing and Mapping</u> <i>Field-exercises may be scheduled after the end of the term</i>	9	C	34	26	-	32			3	4	80 h Field excursions
1E1601 <u>GIS, Databases and Cartography</u>	8	C	38	16	-	40			3	4	
1F1386 <u>Microeconomics</u>	4	B	24	24	-	-		2			
2D1210 <u>Numerical Methods, Basic Course I</u>	4	B	24	24	-	24		2	3		
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-	1				
Recommended Courses											
2D1468 <u>Supplementary courses in database Technology</u>	1	D	-	4	-	-				4	
Elective Courses											
1U1001 <u>Sign Language, Introductory course*</u>	1	B	2	-	-	-	1				Seminars 8 h

*The course has limited participation

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Surveying

Surveying L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Recommended Courses												
1N1401 Applied Contract Law	5	B	-	-	-	-			3		60 h Seminars	
Elective Courses												
1B1336 Geological Processes - Field Course on Iceland	5	C	-	-	-	-					80 h ExkursionJuly-August, 5 weeks 80 h Exkursion	
1B1820 Risk in Technical Systems	5	D	-	-	-	-					Project-course	
1B1990 Developing Countries, Society and Technology	4	C	30	-	-	-	1	2				
1B1991 Management of Development Cooperation Projects	4	C	30	-	-	-			3	4		
1B1992 East- and Central Europe - Our Future Market	4	C	30	-	-	-	1	2				
1H1204 Logistics	5	C	6	-	-	-	1	2			12 h SeminarsProject-course, 12 h Seminars	
1H1212 Logistics, Advanced Course	5	D	4	-	-	-			3		12 h SeminarsProject-course, 12 h Seminars	
1H1601 Mathematics and Reality <i>The course will be given from academic year 01/02</i>	5	C	22	10	-	-			3			
1H1602 Good and Bad Science <i>The course will be given from academic year 01/02</i>	5	C	32	-	-	-			3	4		
1H1603 Technology and Etics <i>The course will be given from academic year 01/02</i>	5	C	24	-	-	-	1				6 h Seminars	
1H1604 Philosophy of Risk <i>The course will be given from academic year 01/02</i>	5	C	18	-	-	-		2			12 h Seminars	
1K14LV Architecture, Basic Course*	5	D	32	-	-	-				4	Seminars, Study-visits	
1N1402 Civil and Public Law, continuation course	5	B	24	24	-	-				4		
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4		
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2				
2D1320 Applied Computer Science	4	B	30	14	-	20	1	2				
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4		
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1					
2D1378 Text and Image Processing <i>Will not be given academic year 01/02</i>	4	B	28	28	-	-						



5B1306 <u>Introductory Financial Mathematics</u>	5	C	-	-	54	-				4	
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*The course has limited participation

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Surveying

Building and Real Estate Economics L3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1D1343 Operations, Maintenance and Modernisation Techniques	5	D	32	18	-	-				4	2 h Seminars, 4 Study visit
1D1841 Buildings and Building Services Engineering	10	C	67	54	-	16		2	3		8 Study visitStudy-visit 8 Study visit
1F1329 Business Cycles in Construction and Real Estate Market	5	D	30	30	-	-	1				
1F1332 Investment Analysis	5	C	30	30	-	-		2			
1F1394 Real Estate Economics	5	C	36	24	-	-			3		
1F1442 Law of Real Estate	5	C	30	30	-	-	1				
Recommended Courses											
1F1337 Environmental Economics	5	C	30	30	-	-				4	

Building and Real Estate Economics L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1F1327 Management	5	D	30	30	-	-			3	4	
1F1330 Financial Analysis	5	D	30	30	-	-			3		
1F1333 Real Estate Market Analysis and Development	5	D	30	30	-	-			3		
1F1336 Real Estate Brokerage	5	D	30	30	-	-		2			
1F1339 Real Estate Finance and Economics	5	D	30	30	-	-				4	
1F1395 Urban Land Economics	5	D	24	36	-	-	1				
1F1396 Management Control	5	D	30	30	-	-		2			
1F1398 Real Estate Management	5	D	30	30	-	-	1				
1F1399 Real Estate Valuation	5	D	30	30	-	-				4	
1F1444 Law of Leaseholds	5	D	30	30	-	-		2	3		
1F1540 Information Technology in Construction	5	D	-	-	66	-		2			
1F1560 Project Management	5	D	-	-	66	-		2			
1F1565 Facilities Management	5	D	-	-	66	-				4	

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Environmental Engineering and Sustainable Infrastructure L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1B1133 Applied Hydrology	5	D	29	29	-	-			3		
1B1233 Water and Waste Handling	5	C	-	-	77	-			3		
1B1291 Environmental Dynamics/Chemical Processes	5	D	30	8	-	16		2			8 h Exkursion
1B1292 Environmental Dynamics/Physical Processes	5	C	26	24	-	-		2			
1B1333 Environmental Geology and Geophysics	5	D	27	27	-	-				4	
1B1634 Environmental Impact Assessment	5	C	30	29	-	-	1				8 h Exkursion
1B1635 Quantitative Hydrogeology	5	D	20	14	-	21				4	20 h Field excursions
1B1640 Natural Resources Management	5	D	19	-	-	36				4	
1E1610 Environmental Data	5	D	18	2	-	38			3		
1F1462 Management of Land and Water	5	D	20	19	20	-				4	3 h Exkursion
1H1141 Urban Infrastructure	5	D	-	-	56	-				4	
1H1142 Political Economy for Environmental Planners	5	C	30	6	-	-	1				8 h Seminars
1H1143 Sustainable Urban and Rural Development	5	C	32	-	16	-		2			24 h Seminars, 8 h Exkursion
1H1146 Sustainable Project Management	5	C	35	-	-	30			3		15 h Field excursions
1H1501 Human Settlements and Housing	5	D	24	20	-	-		2			
1U1030 Theory of Science, Research Methodology and Excursions	5	D	29	-	-	-	1	2		4	40 h ExkursionSeminars 40 h Exkursion

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Land Development and Management L3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1442 <u>Law of Real Estate</u>	5	C	30	30	-	-	1				
1F1451 <u>Building and Environmental Law</u>	5	C	30	30	-	-	1				
1F1460 <u>Land Use and Land Use Policy</u>	5	C	40	28	-	-		2			
1F1461 <u>Land Use Planning</u>	10	D	40	80	-	-			3	4	16 h Field excursions
Recommended Courses											
1B1637 <u>Applied Geology and Hydrology</u> <i>The course begins in the 3rd academic year and continues in the 4th</i>	10	C	23	16	-	-			3	4	4 h Seminars, 32 h Field excursions, 2 h Computer
1B1639 <u>Applied Geology and Hydrology</u>	10	C	29	36	-	15			3	4	9 h Seminars, 32 h Field excursions, 2 h Computer
1F1332 <u>Investment Analysis</u>	5	C	30	30	-	-		2			
1F1390 <u>Basic Real Estate Valuation</u>	5	C	24	36	-	-				4	Field-exercises 8 h
1F1470 <u>Land Law</u> <i>Compulsory for students attending Land Development and Management during the 4th academic year</i>	5	D	30	30	-	-			3		

Land Development and Management L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1427 <u>Compulsory Purchase and Compensation</u>	5	D	32	32	-	-		2			
1F1430 <u>Land Development</u>	10	D	-	-	142	-	1	2			
Recommended Courses											
1B1637 <u>Applied Geology and Hydrology</u> <i>The course began in the 3rd academic year and continues in the 4th</i>	10	C	-	-	-	-	1				24 h Field excursions
1B1640 <u>Natural Resources Management</u>	5	D	19	-	-	36				4	
1F1336 <u>Real Estate Brokerage</u>	5	D	30	30	-	-		2			
1F1441 <u>Civil and Public Law II</u>	5	D	24	40	-	-			3		
1F1444 <u>Law of Leaseholds</u>	5	D	30	30	-	-		2	3		
1F1445 <u>Environmental Law</u>	5	D	24	40	-	-				4	

1F1452 Law of Real Estate Formation	5	D	30	30	-	-	1				
1F1471 Real Estate Planning	10	D	40	90	-	-			3	4	32 h Field excursions

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Environmental Resources Engineering L1

From the academic year 2001/2002

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1F1335 Economic Analysis	5	B	24	36	-	-			3		
1F1440 Civil and Public Law	5	B	24	40	-	-		2			
1F1453 Real Estate Planning, Basic Course	5	B	42	22	-	-	1				Field-exercise
1U1002 Sustainable Development <i>The course will be given from 01/02</i>	4	B	20	-	-	-				4	12 h Seminars12 h Seminars
2D1311 Programming Technique with PBL	4	B	19	12	-	42			3	4	
5B1104 Calculus I, part 1	5	B	60	-	-	-		2			Workshop 21 h
5B1105 Calculus I, part 2	5	B	60	-	-	-			3		Workshop 21 h
5B1108 Linear Algebra I	4	B	48	-	-	-	1				Workshop 21 h
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-				4	Workshop 21 h

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Urban Planning L3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1H1106 Planning for Housing, Workplaces and Services	5	C	-	-	66	-			3		
1H1151 Theory of Planning and Organization	5	D	-	-	33	-				4	
Recommended Courses											
1H1141 Urban Infrastructure	5	D	-	-	56	-				4	
1H1160 Urban Ecology and Strategic Environmental Assessment	5	D	-	-	66	-				4	
1H1163 Social Planning	5	C	-	-	66	-				4	
1H1243 Traffic and Land-use Planning	5	C	-	-	77	-			3		

Urban Planning L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1H1157 Urban and Regional Economics	5	D	-	-	66	-		2			
1H1160 Urban Ecology and Strategic Environmental Assessment	5	D	-	-	66	-				4	
1H1161 European Planning Systems <i>Given on demand</i>	5	D	-	-	-	-					Literature-studies, project
1H1162 Urban Center Planning	5	D	-	-	77	-			3		
1H1170 Sustainable Cities	10	D	-	-	120	-	1				
1H1171 Urban Governance	5	D	-	-	66	-			3		
1H1172 Future Studies and Forecasts	5	D	-	-	36	-		2			30 h Computer
1H1174 Planning for Regional Development	10	D	-	-	120	-				4	
1H1183 Spatial Planning with GIS	5	D	33	-	-	42			3		
1H1193 Project Work in Urban Planning <i>The course will not be given 2001/2002</i>	10	D	-	-	120	-					
1H1401 Optimisation Models in Transport and Location Analysis	5	D	27	12	-	6			3		6 h Seminars6h Seminars 6 h Seminars

1N1501 Territorial Strategies in a Networking Economy <i>The course will be given from 01/02 and will be taught in Västerås.</i>	10	D	35	-	-	-			3	4	15 h Seminars, 10 h Workshop6h Tutorials 15 h Seminars, 10 h Workshop

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Surveying and Mapping L3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1E1121 <u>Theory of Errors</u>	9	C	48	-	-	44	1	2			
1E1131 <u>Geodetic Surveying</u> <i>Field-exercises may be scheduled after the end of the term</i>	10	D	70	40	-	16			3	4	120 h Field excursions
1E1410 <u>Analytical Photogrammetry</u>	10	D	50	32	-	40			3	4	
5A1225 <u>Electromagnetism and Waves</u>	5	B	38	18	-	20	1				
5A1591 <u>Image Physics and Photography</u>	7	C	48	-	-	34		2	3		

Surveying and Mapping L4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1E1142 Advanced Geodesy	9	D	66	10	-	56	1	2			
1E1160 Satellite Geodesy	5	D	22	-	-	40			3		40 h Field excursions
1E1170 Engineering Surveying	5	D	20	20	-	20				4	Field-exercise
1E1430 Topographic Sensor Technology	5	D	24	16	-	32				4	
1E1440 Digital Photogrammetry	5	D	24	16	-	32		2			
1E1450 Integrated Project	5	D	-	-	-	-				4	Project
1E1630 Remote Sensing Technology	5	C	18	-	-	36	1				
1E1640 Geoinformatics	10	D	44	-	-	100		2	3		Study-visits
1E1650 Advanced Remote Sensing	5	D	20	-	-	48				4	

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Mechanical Engineering

Mechanical Engineering M1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1310 <u>Programming Technique</u>	4	B	26	16	-	26			3	4	
4D1026 <u>Industrial Economy and Management, Basic Course</u>	4	B	26	20	-	-		2			4 h Seminars
4F1511 <u>Technical Communication and Modeling</u>	4	B	8	36	-	18	1				
5A1225 <u>Electromagnetism and Waves</u>	5	B	38	18	-	20				4	
5B1115 <u>Mathematics 1</u>	6	B	72	-	-	-	1				
5B1116 <u>Mathematics 2</u>	6	B	72	-	-	-		2			
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-			3		
5C1103 <u>Mechanics, Basic Course</u>	6	B	48	27	-	-			3	4	

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[Next academic year \(02/03\)](#)

Mechanical Engineering

Mechanical Engineering M2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1210 Numerical Methods, Basic Course I	4	B	24	24	-	24	1	2			
3C1310 Environmental Technology and Work Science	6	C	33	9	-	8			3	4	8 h Field excursions
4C1095 Strength of Materials and Solid Mechanics, Basic Course	8	B	52	52	-	2	1	2			
4F1521 Machine Elements, Basic Course	8	B	10	80	-	6			3	4	Study trip 1 day
4H1056 Structural Materials	6	B	30	-	-	27			3	4	
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-	1				
5C1112 Mechanics, Continuation Course	4	C	30	15	-	-		2			

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Mechanical Engineering

Mechanical Engineering M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1112 <u>Applied Thermodynamics</u>	6	C	48	48	-	-	1	2			Math exercises
4B1112 <u>Fundamentals of Noise and Vibration control M</u>	4	C	31	30	-	4	1				
4F1219 <u>Basic Electrical Engineering for Mechanical Engineers</u>	8	B	24	36	-	28		2	3		
4G1634 <u>Manufacturing Engineering, Basic Course</u>	6	C	32	20	-	12	1	2			
Elective Courses											
2C1111 <u>System Planning</u>	4	D	60	-	-	-			3		
2D1320 <u>Applied Computer Science</u>	4	B	30	14	-	20			3	4	
2D1522 <u>Computer Technology and Communication*</u> <i>Limited number of participants</i>	4	C	30	-	-	20				4	
3C1103 <u>Technical English, Lower Intermediate*</u>	4	B	-	56	-	-			3	4	
3C1110 <u>Technical English II, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1115 <u>German, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1116 <u>German, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1124 <u>Technical German I, upper intermediate elvel, e-learning</u>	6	B	-	18	-	-			3	4	E-learning exercises
3C1130 <u>French, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1131 <u>French, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1138 <u>Technical French I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1145 <u>Spanish, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1146 <u>Spanish, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1148 <u>Technical Spanish I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1150 <u>Italian, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1160 <u>Communicative Swedish*</u>	4	B	-	56	-	-			3	4	
3C1340 <u>Environmental Technology, Advanced Course</u>	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars
3C1395 <u>Sustainable Development</u>	4	C	10	12	-	-			3	4	

3D1112 No translation	4	D	26	-	-	15			4	
3E1324 Polymer Materials - Properties and Applications	4	C	30	12	-	10			4	
<i>Under bearbetning</i>										
4A1601 Heat Transfer	4	C	24	24	-	20			3	
4A1603 Energy Technology	4	C	48	12	-	-			4	
4B1120 Signal Analysis with Applications	5	D	-	28	-	24			4	
4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4
4E1101 Lightweight Structures II	6,5	C	76	-	-	22			3	4
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29			4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14			4	
4F1244 Motion Control	4	D	30	-	-	12			4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4 One day field trip.
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-			4	
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-			3	
4K1101 Control Systems	4	C	18	28	-	12			4	
4K1107 Production of Electronics I	4	C	36	-	-	8			3	
4K1132 Modularisation of Products <i>Some parts of the course are outlined in 4K1131 Assembly Systems and 4K1104 Manufacturing Systems, advanced course.</i>	4	C	24	20	-	-			3	
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24			4	Graded exercise
4K1401 History of Technology, a General Survey	4	B	12	-	-	-			3	12 h Seminars
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4
5B1538 Reliability Theory	6	D	-	-	72	-			3	4
5B1722 Applied Optimization	4	C	28	14	-	9			3	
5C1121 Analytical Mechanics	4	C	48	-	-	-			3	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-			3	4

*The course has limited participation

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Previous academic year (00/01)

Next academic year (02/03)

Mechanical Engineering

Mechanical Engineering M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
1C5049 FEM Modelling	5	D	33	-	-	-		2			44 h Workshop44 h Workshop
2A1136 Technical Plasma Physics	4	D	24	-	-	4				4	
2A1140 Accelerator and Radiation Technology	4	D	36	-	-	4			3		
2A1151 Energy and fusion research	4	D	24	12	-	-				4	
2A1160 Space Physics	3	D	12	-	-	-	1				
2C1111 System Planning	4	D	60	-	-	-			3		
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2			
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3		
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1				
2D1521 Communication and Information	5	C	21	-	-	-			3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2			
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
2E1241 Automatic Control, Project Course*	5	D	4	-	-	50				4	
2E1252 Control Theory and Practice, Advanced Course	5	D	28	26	-	8			3		

2E1262 Nonlinear Control	5	D	28	28	-	8	2			
2E1280 Modelling of Industrial Processes	4	C	24	24	-	12			4	
2E1291 Chemical Process Control	4	C	20	28	-	8		3		
2F1111 Speech Technology	4	D	36	14	-	6		3		
2F1400 Electroacoustics	4	D	34	12	-	8	1			
3C1103 Technical English, Lower Intermediate*	4	B	-	56	-	-	1	2		
3C1110 Technical English II, upper intermediate level*	6	B	-	56	-	-	1	2		
3C1113 Technical English III, advanced level*	6	C	-	56	-	-			3	4
3C1113 Technical English III, advanced level*	6	C	-	56	-	-	1	2		
3C1115 German, Elementary Course*	4	B	-	56	-	-	1	2		
3C1116 German, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1124 Technical German I, upper intermediate level, e-learning	6	B	-	18	-	-	1	2		E-learning exercises
3C1125 Technical German II, advanced course*	6	C	-	56	-	-			3	4
3C1125 Technical German II, advanced course*	6	C	-	56	-	-	1	2		
3C1130 French, Elementary Course*	4	B	-	56	-	-	1	2		
3C1131 French, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1138 Technical French I, upper intermediate level*	6	B	-	56	-	-	1	2		
3C1145 Spanish, Elementary Course*	4	B	-	56	-	-	1	2		
3C1146 Spanish, Advanced Beginners*	4	B	-	56	-	-	1	2		
3C1150 Italian, Elementary Course*	4	B	-	56	-	-	1	2		
3C1151 Italian, Advanced Beginners*	4	B	-	56	-	-			3	4
3C1160 Communicative Swedish*	4	B	-	56	-	-	1	2		
3C1180 Japanese Studies and Elementary Japanese*	4	B	-	56	-	-	1	2		
3C1190 International Engineering*	4	C	42	-	-	-	1	2		
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6			4	Project work 20 h
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1			9 h Seminars
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2		Field exercises
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2		
3C1380 Environmental Management	4	D	18	3	-	8			3	4
3C1383 Risk Management	4	C	16	26	-	-		2		
3C1385 Biology	4	C	30	6	-	6	1			Field exercise 8 h
3C1395 Sustainable Development	4	C	10	12	-	-			3	4
3D1108 Paper Technology, Minor Course <i>Under bearbetning</i>	4	D	42	-	-	-			3	4
3D1160 Pulp Mechanical Technology, Minor Course <i>Under bearbetning</i>	4	D	30	-	-	-	1	2		4 h seminars

3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
3E1361 Polymer Processing, Minor Course	4	C	24	8	-	18		2			
3E1366 Polymers in Engineering Design	4	C	18	24	-	8				4	
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1341 Introductory Airbreathing Propulsion	4	C	21	24	-	8		2			
4A1344 Airbreathing Propulsion, Intermediate Course I	4	D	40	-	-	-	1	2	3	4	Project work 6h
4A1346 Rocket Propulsion	4	D	36	10	-	-	1	2	3	4	Project work 6h
4A1347 Airbreathing Propulsion for High Speed Flight	4	D	27	10	-	6	1	2	3	4	
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1620 Combustion Theory	4	C	18	18	-	15	1	2	3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1622 Thermal Comfort and Indoor Climate	4	D	24	24	-	12			3	4	
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	
4A1629 Fluid Machinery	4	C	30	18	-	12	1				
4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	
4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1313 Rail Vehicle Dynamics	5	D	28	8	-	24			3		
4B1420 Ground Vehicle Engineering, Basic Course	6	C	36	36	-	-	1	2			
4B1425 Ground Vehicle Dynamics, Basic Course*	7	D	33	60	-	-			3	4	
4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4	
4B1511 Ship Hydrodynamics	5	D	48	24	-	-	1				
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4C1116 Dynamic Problems in Solid Mechanics	4	D	42	-	-	8			3	4	
4C1118 Non-linear Theory of Elasticity	2	D	12	12	-	-				4	
4C1119 Finite Element Method, Project Course	2	D	8	-	-	-			3		

4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-			3		
4D1065 Industrial Marketing	4	C	36	12	-	-			3		
4D1075 Work Organization and Leadership* <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
4D1080 Multinational Enterprising	4	C	36	12	-	-		2			
4D1088 Technical Work Psychology	4	C	24	4	-	4		2			
4D1089 Work Science, Advanced Course <i>Will not be given 2001/2002</i>	4	C	24	12	-	-					
4D1090 Work Science, General Course	4	B	-	-	-	-	1	2	3	4	Literature course
4D1092 Man - Machine System	4	C	32	8	-	8			3		
4E1122 Manufacturing of Polymer Composites	4	D	40	-	-	5	1				
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4E1150 Biomechanics and Neurronics	4	D	36	-	-	6				4	
4F1131 Microcomputers in Embedded Systems*	5	D	-	36	-	36		2			
4F1131 Microcomputers in Embedded Systems* <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 Project Work in Mechatronics* <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1244 Motion Control	4	D	30	-	-	12				4	
4F1340 Introduction to Fluid Power	4	C	24	24	-	9	1				
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4	
4F1430 Combustion Engines, general course*	4	C	48	-	-	12	1				
4F1540 Tribology	4	C	18	9	-	5	1				
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4F1631 Machine Design, intermediate course	7	D	4	84	-	-			3	4	
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2			
4F1643 Eco Design Project*	4	C	-	-	-	-	1	2	3	4	Limited attendance. The course is not timetabled.
4G1147 Quality	6	C	48	24	-	-	1				
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				
4G1231 Intermediate Welding Technology	4	D	24	24	-	12	1	2			
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1342 Space Systems and Technology	4	D	36	-	-	-		2			
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		

4G1540 Laser Metrology Methods and Non Destructive Testing <i>Under bearbetning</i>	4	C	28	22	-	4	2			
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8		3		
4G1646 Simulation and Modelling	4	D	10	80	-	-		3		
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1			
4K1103 Manufacturing Automation II	6	C	28	32	-	17	1	2		
4K1107 Production of Electronics I	4	C	36	-	-	8		3		
4K1109 Principles for Product Integrated Manufacturing Systems Design	4	C	12	12	-	4	1			
4K1131 Assembly Systems	4	C	24	20	-	12		2		
4K1132 Modularisation of Products <i>Some parts of the course are outlined in 4K1131 Assembly Systems and 4K1104 Manufacturing Systems, advanced course.</i>	4	C	24	20	-	-		3		
4K1202 Modelling and Interaction in CAD/CAM* <i>Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.</i>	5	D	-	36	-	24	1			3 Programming tasks, periods 1, 2
4K1409 History of Industry	4	B	12	-	-	-	1	2		12 h Seminars 2 Study-visits 12 h Seminars
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32		3	4	
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1			
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20		3	4	
5A1416 Radiation Sources for Therapy	2	D	8	-	-	-			4	2 compulsory studyvisits
5A1590 Technical Photography	5	C	20	-	-	36		3	4	
5B1555 Computer Intensive Methods in Mathematical Statistics	5	D	-	-	48	-			4	
5B1574 Portfolio Theory and Risk Management	4	D	30	12	-	-	1			
5B1814 Applied Mathematical Programming - Linear Problems	4	D	18	12	-	-		2		18 h Projektuppgift
5B1816 Applied Mathematical Programming - Nonlinear Problems	4	D	18	12	-	-			3	18 h Projektuppgift
5B1852 Mathematical Economics	4	D	32	16	-	-		2		
5C1122 Continuum Mechanics	4	C	42	-	-	-	1			
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2		
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3	
5C1210 Experimental Methods in Fluid Mechanics <i>Not given 01/ 02.</i>	4	D	-	-	28	9				
5C1211 No translation	4	C	-	-	-	-		2		
5C1400 Nonlinear Dynamics in Mechanics	5	C	24	-	-	-			3	
5C1980 Applied Mechanics, for (T) <i>The course runs the entire academic year. A few lectures during fall.</i>	4	C	24	-	-	37	1	2	3	4
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1			
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-				4

7E1112 Implants and Biomaterials	4	D	25	-	-	-			4	
7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6			4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-			4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-			4	30 + 10 h (field work with oral and written report)
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1			
7E1200 Cellular and Molecular Biology*_ _	10	C	80	-	-	8			3	4
7E1202 Systems Biology*_ _	5	C	32	-	25	-		2		
9E1131 Information Searching for B, I, M, T_ T_	1	B	-	-	-	-			3	4
9E1131 Information Searching for B, I, M, T_ T_	1	B	-	-	-	-	1	2		

*The course has limited participation

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Business Development and Media Technology M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
3C1103 <u>Technical English, Lower Intermediate*_</u>	4	B	-	56	-	-			3	4		
3C1110 <u>Technical English II, upper intermediate level*_</u>	6	B	-	56	-	-			3	4		
3C1113 <u>Technical English III, advanced level*_</u>	6	C	-	56	-	-			3	4		
4D1030 <u>Industrial Production</u>	4	C	40	20	-	-				4	Study Visits 10h	

*The course has limited participation

Business Development and Media Technology M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1521 <u>Communication and Information*_</u>	5	C	21	-	-	-	1				24 h Seminars
2D1552 <u>Media Management</u>	10	C	72	56	-	-	1	2	3	4	
2D1553 <u>Media Production</u>	10	C	40	28	-	24	1	2			
2D1555 <u>Information Technology and Organisations</u>	5	D	39	-	-	-				4	
2D1556 <u>Marketing Communication and the Consumer</u>	10	D	-	-	-	-			3		76 h Seminars
4D1028 <u>Industrial Economy and Management, Advanced Course</u>	4	C	26	20	-	-				4	4 h Seminars
Elective Courses											
2D1334 <u>Database Technology</u>	4	C	24	20	-	12			3		
2D1524 <u>Image Processing and Reprographic Methods*_</u> <i>Not given 01/ 02. Limited number of participants</i>	6	C	50	16	-	24					

*The course has limited participation

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Advanced Materials M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1610 Advanced Materials	4	C	18	-	-	6			3		Study visit 18h Seminars
4H1611 Materials Optimisation and Design	5	C	18	18	-	12				4	Study visits 10h
Elective Courses											
4H1504 Processing of Ceramic Materials	4	C	12	-	-	18			3		

Advanced Materials M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1609 Functional Materials	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1612 High Temperature Materials	7	D	18	12	-	6	1				Study visit 8h Seminars 10h Project assignment 100h
Elective Courses											
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1				
4H1405 Corrosion and surface protection, advanced course	4	D	16	-	-	-			3		
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			

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Biomedical Engineering M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1200 Cellular and Molecular Biology*_	10	C	80	-	-	8			3	4	
7E1201 Neuroscience*_	5	C	60	-	-	30				4	

*The course has limited participation

Biomedical Engineering M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1202 Systems Biology*_	5	C	32	-	25	-		2			
Elective Courses											
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	

*The course has limited participation

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Computer Systems for Design and Manufacturing M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise

Computer Systems for Design and Manufacturing M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1202 Modelling and Interaction in CAD/CAM*_ <i>Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.</i>	5	D	-	36	-	24	1				3 Programming tasks, periods 1, 2
4K1203 Computer Systems for Design and Manufacturing, advanced course <i>Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.</i>	12	D	-	68	-	60		2	3	4	4 Programming Projects, periods 2, 3, 4
Elective Courses											
4F1131 Microcomputers in Embedded Systems*_	5	D	-	36	-	36		2			
4F1640 Industrial Design*_ <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4K1103 Manufacturing Automation II	6	C	28	32	-	17	1	2			

*The course has limited participation

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Energy Technology M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4A1603 Energy Technology	4	C	48	12	-	-				4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	

Energy Technology M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
Elective Courses											
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1620 Combustion Theory	4	C	18	18	-	15	1	2	3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1622 Thermal Comfort and Indoor Climate	4	D	24	24	-	12			3	4	
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1624 Numerical Methods in Energy Technology	4	D	48	-	-	24			3		
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	
4A1629 Fluid Machinery	4	C	30	18	-	12	1				

4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	
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Automotive Engineering M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 <u>Signal Analysis with Applications</u>	5	D	-	28	-	24				4	
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	
5B1304 <u>Mathematics, Extended Course</u>	5	D	-	-	54	-			3	4	
Elective Courses											
4E1101 <u>Lightweight Structures II</u>	6,5	C	76	-	-	22			3	4	

Automotive Engineering M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1420 Ground Vehicle Engineering, Basic Course	6	C	36	36	-	-	1	2			
4B1425 Ground Vehicle Dynamics, Basic Course *	7	D	33	60	-	-			3	4	
4F1430 Combustion Engines, general course *	4	C	48	-	-	12	1				
Elective Courses											
4B1131 Experimental Structure Dynamics	5	D	-	58	-	12		2	3		
4F1131 Microcomputers in Embedded Systems *	5	D	-	36	-	36		2			
4F1131 Microcomputers in Embedded Systems *	5	D	-	36	-	36			3		
Limited attendance: 25											

*The course has limited participation

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Mechanical Engineering

Internal Combustion Engines M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	
Elective Courses											
2E1200 Automatic Control, General Course	4	C	24	26	-	12			3		
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.

Internal Combustion Engines M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4F1430 <u>Combustion Engines, general course*</u>	4	C	48	-	-	12	1				
4F1431 <u>Combustion Engines, Advanced Course*</u>	6	D	56	-	-	32		2	3		
4F1460 <u>Combustion Engines, Project Course</u>	6	D	-	18	-	-			3	4	
Elective Courses											
2E1200 <u>Automatic Control, General Course</u>	4	C	24	26	-	12		2			
2E1200 <u>Automatic Control, General Course</u>	4	C	24	26	-	12	1				
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4F1131 <u>Microcomputers in Embedded Systems*</u>	5	D	-	36	-	36		2			

4F1131 Microcomputers in Embedded Systems* <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 Project Work in Mechatronics* <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1540 Tribology	4	C	18	9	-	5	1				
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			

*The course has limited participation

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Mechanical Engineering

Solid Mechanics M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
4C1117 Design Applications of Solid Mechanics*_	4	D	16	6	-	-				4	
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4	

*The course has limited participation

Solid Mechanics M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1114 Finite Element Method	4	D	-	49	-	8		2			
Elective Courses											
3E1324 Polymer Materials - Properties and Applications <i>Under bearbetning</i>	4	C	30	12	-	10				4	
3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
4B1313 Rail Vehicle Dynamics	5	D	28	8	-	24			3		
4B1420 Ground Vehicle Engineering, Basic Course	6	C	36	36	-	-	1	2			
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4C1116 Dynamic Problems in Solid Mechanics	4	D	42	-	-	8			3	4	
4C1118 Non-linear Theory of Elasticity	2	D	12	12	-	-				4	
4C1119 Finite Element Method, Project Course	2	D	8	-	-	-			3		
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4F1540 Tribology	4	C	18	9	-	5	1				
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48			3	4	Home assignments

4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24			3	4	Home assignments
4H1205 Mechanical Properties of Materials	4	C	20	18	-	6		2			4 Study visit 4h 4 Study visit
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			
5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2			
5C1122 Continuum Mechanics	4	C	42	-	-	-	1				
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2			
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3		
5C1902 Advanced Dynamics of Complex Systems	4	D	24	-	-	-	1				

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Industrial Economics and Management M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1028 Industrial Economy and Management, Advanced Course	4	C	26	20	-	-				4	4 h Seminars
Elective with											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-			3		
4D1075 Work Organization and Leadership*_ <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
4K1101 Control Systems	4	C	18	28	-	12				4	

*The course has limited participation

Industrial Economics and Management M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1035 <u>Advanced Industrial Economics and Management</u>	12	D	68	72	-	-		2	3	4	Other 16h
Elective with											
4D1065 <u>Industrial Marketing</u>	4	C	36	12	-	-			3		
4D1070 <u>Industrial Project Management</u>	4	C	44	-	-	-	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				
Elective Courses											
4K1103 <u>Manufacturing Automation II</u>	6	C	28	32	-	17	1	2			

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Industrial Engineering M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
Elective Courses											
3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars

Industrial Engineering M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1146 <u>Advanced Industrial Engineering</u>	12	D	67	22	-	-	1	2			120 h Projektuppgift
4G1147 <u>Quality</u>	6	C	48	24	-	-	1				
Elective Courses											
3C1360 <u>Environmental Consequences, Advanced Course</u>	4	C	18	9	-	8	1				9 h Seminars
4D1065 <u>Industrial Marketing</u>	4	C	36	12	-	-			3		
4D1088 <u>Technical Work Psychology</u>	4	C	24	4	-	4		2			
4G1053 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40		2	3	4	
4G1170 <u>Intelligent Machining</u>	4	D	36	20	-	-		2	3	4	
4G1243 <u>Advanced Welding Technology, Modulus 1</u>	4	D	20	20	-	20			3		
4G1244 <u>Advanced Welding Technology, Modulus 2</u>	4	D	20	20	-	20			3		
4G1245 <u>Advanced Welding Technology, Modulus 3</u>	4	D	20	20	-	20				4	

<u>4G1246 Enlarged Welding Technology for EWE</u> <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
<u>4G1540 Laser Metrology Methods and Non Destructive Testing</u> <i>Under bearbetning</i>	4	C	28	22	-	4		2			
<u>4K1102 Manufacturing Automation I</u>	4	C	20	24	-	12	1				

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Integrated Product Development M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1075 <u>Work Organization and Leadership*</u> <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
Elective Courses											
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	

*The course has limited participation

Integrated Product Development M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1760 Integrated Product Development, Advanced Course	20	D	-	180	-	-	1	2	3	4	
Elective Courses											
4F1131 Microcomputers in Embedded Systems*	5	D	-	36	-	36		2			
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2			
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-			3		

*The course has limited participation

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Sound and Vibrations M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	

Sound and Vibrations M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1127 <u>Vibroacoustics</u>	5	D	-	56	-	8	1	2			
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4B1136 <u>Flow Acoustics</u>	4	D	-	36	-	8			3		
4B1141 <u>Sound and Vibration, Projekt Course</u>	5	D	-	48	-	12			3	4	Study tour to industry 40h
9E1131 <u>Information Searching for B, I, M, T</u>	1	B	-	-	-	-			3	4	

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Lightweight Structures M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1101 <u>Lightweight Structures II</u>	6,5	C	76	-	-	22			3	4	
Elective Courses											
4E1201 <u>Elements of Aeronautics</u>	5	C	72	-	-	4			3	4	

Lightweight Structures M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1122 <u>Manufacturing of Polymer Composites</u>	4	D	40	-	-	5	1				
4E1123 <u>Mechanics of Composites and Sandwich Constructions</u>	4	D	48	-	-	6		2			
4E1127 <u>Fatigue and Damage Tolerance</u>	4	D	36	-	-	14			3		
4E1131 <u>Aircraft and Lightweight Design</u>	6	D	8	60	-	12			3	4	
4E1150 <u>Biomechanics and Neuronics</u>	4	D	36	-	-	6				4	
Elective Courses											
3C1103 <u>Technical English, Lower Intermediate*</u>	4	B	-	56	-	-	1	2			
3C1110 <u>Technical English II, upper intermediate level*</u>	6	B	-	56	-	-	1	2			
3C1113 <u>Technical English III, advanced level*</u>	6	C	-	56	-	-	1	2			
3C1124 <u>Technical German I, upper intermediate elvel, e-learning</u>	6	B	-	18	-	-	1	2			E-learning exercises
3C1125 <u>Technical German II, advanced course*</u>	6	C	-	56	-	-	1	2			
3C1138 <u>Technical French I, upper intermediate level*</u>	6	B	-	56	-	-	1	2			
3C1148 <u>Technical Spanish I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
4B1304 <u>Railway Systems and Rail Vehicles</u>	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			

4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
5B1722 Applied Optimization	4	C	28	14	-	9			3		

*The course has limited participation

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Machine Elements M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.

Machine Elements M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1540 Tribology	4	C	18	9	-	5	1				
4F1560 Advanced Machine Elements	12	D	-	120	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
Elective Courses											
4C1114 Finite Element Method	4	D	-	49	-	8		2			

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Mechanical Engineering

Machine Design M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.
Elective Courses											
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4	
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-			3		
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise
5C1121 Analytical Mechanics	4	C	48	-	-	-			3		

Machine Design M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
4F1660 <u>Advanced Machine Design</u>	12	D	4	114	-	-			3	4	
Elective Courses											
3E1360 <u>Mechanical Properties of Polymers, Minor Course</u>	4	C	24	16	-	12	1				
3E1361 <u>Polymer Processing, Minor Course</u>	4	C	24	8	-	18		2			
3E1366 <u>Polymers in Engineering Design</u>	4	C	18	24	-	8				4	
4C1114 <u>Finite Element Method</u>	4	D	-	49	-	8		2			
4E1123 <u>Mechanics of Composites and Sandwich Constructions</u>	4	D	48	-	-	6		2			
4F1131 <u>Microcomputers in Embedded Systems</u> *	5	D	-	36	-	36		2			

4F1131 <u>Microcomputers in Embedded Systems*</u> <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 <u>Project Work in Mechatronics*</u> <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1541 <u>CAD 3D-modelling and Visualization for Personal Computers</u>	4	C	8	36	-	-		2			
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4F1641 <u>Environmentally Adapted Product Design</u>	4	C	24	20	-	16		2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				

*The course has limited participation

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Materials Science M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1059 Engineering Materials, Advanced Course	6	C	10	15	-	15			3		
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48			3	4	Home assignments
4H1204 Experimental Methods in Materials Science	5	D	10	10	-	48			3	4	
4H1504 Processing of Ceramic Materials	4	C	12	-	-	18			3		
Elective with											
4H1801 Physics of Materials for information Technology	4	D	20	4	-	6			3		

Materials Science M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1104 <u>Diffusion and Phase Equilibria</u>	6	D	18	18	-	42	1	2			
4H1113 <u>Powder Metallurgy</u>	4	D	18	18	-	12		2			
4H1301 <u>Material Design</u>	4	D	-	2	-	10			3	4	
4H1404 <u>Corrosion and Surface Protection, General Course</u>	4	C	16	12	-	12	1				
Elective with											
4H1405 <u>Corrosion and surface protection, advanced course</u>	4	D	16	-	-	-			3		
4H1505 <u>Structure and Properties of Ceramic Materials</u>	4	D	12	12	-	18		2			
4H1609 <u>Functional Materials</u>	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1610 <u>Advanced Materials</u>	4	C	18	-	-	6			3		Study visit 18h Seminars
4H1702 <u>Current Research Topics in Materials Chemistry</u>	4	D	20	4	-	8				4	
4H1703 <u>Materials Chemistry</u>	4	D	20	4	-	8				4	
4H1704 <u>Physics and Chemistry of Modern Materials</u>	4	D	20	4	-	8		2			
4H1802 <u>Artificial Materials</u>	4	D	20	4	-	6	1				

5A1304 <u>Mathematical Methods in Physics</u>	6	C	-	78	-	-	1	2			
5A1370 <u>Solid State Theory</u>	4	D	36	-	-	-	1				
Elective Courses											
4H1803 <u>Physics of Nanostructured Materials</u>	4	D	20	4	-	6				4	

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Mechanics M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4	
5C1121 Analytical Mechanics	4	C	48	-	-	-			3		
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	
Elective Courses											
5C1203 Fluid Mechanics, General Course <i>Compulsory within competenceprogram Fluid Mechanics.</i>	4	C	-	24	24	3				4	

Mechanics M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2			
2D1255 Numerical Solutions of Differential Equations <i>Not given during 01-02.</i>	5	D	36	-	-	20					
5C1122 Continuum Mechanics	4	C	42	-	-	-	1				
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2			
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-			3		
5C1205 Compressible Flow, General Course	4	D	-	-	42	6	1				
5C1207 Boundary Layer Theory and Thermal Convection	5	D	-	-	38	9		2	3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1				
5C1209 Compressible Flow, Intermediate Course	2	D	-	-	22	6		2			
5C1210 Experimental Methods in Fluid Mechanics <i>Not given 01/ 02.</i>	4	D	-	-	28	9					
5C1400 Nonlinear Dynamics in Mechanics	5	C	24	-	-	-			3		

5C1902 <u>Advanced Dynamics of Complex Systems</u>	4	D	24	-	-	-	1				
5C1904 <u>Advanced Modern Mechanics</u>	4	D	24	-	-	-		2			
5C1992 <u>Turbulence</u>	4,5	D	-	-	36	3			3	4	

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Mechatronics M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.
Elective Courses											
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	

Mechatronics M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1132 <u>Microcomputers in Embedded Systems</u>	5	D	-	36	-	36	1				
4F1142 <u>Motion control and real-time implementation*</u> <i>Under bearbetning</i>	5	D	22	10	-	30		2		4	
4F1162 <u>Mechatronics, Advanced Course II</u>	15	D	-	116	-	80		2	3	4	

*The course has limited participation

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Environmental Management M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars
4D1060 Industrial Development	4	C	40	8	-	-			3		

Environmental Management M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1				9 h Seminars
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2			
3C1390 Environmental Management, Larger Course	8	D	36	3	-	24			3	4	Project work, field exercise
Elective Courses											
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises

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Paper Technology M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
<u>3D1107</u> Paper Technology <i>Under bearbetning</i>	6	D	42	-	-	56			3	4	2 days studytrip	
Elective Courses												
<u>3D1112</u> No translation	4	D	26	-	-	15				4		
<u>5C1921</u> Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4		

Paper Technology M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2D1520 <u>Graphic Arts Technology, Minor Course</u>	4	C	30	8	-	16	1					
3D1103 <u>Advanced Paper Technology</u>	12	D	30	-	-	-	1	2	3			
3D1159 <u>Pulp Mechanical Technology</u> <i>Under bearbetning</i>	6	D	30	-	-	52	1	2				Seminars 4 h

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Publiceringsteknik M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1515 Machinery and Materials in Graphic Arts Technology <i>Not given 01/ 02.</i>	6	C	72	-	-	24					
2D1521 Communication and Information	5	C	21	-	-	-			3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2D1524 Image Processing and Reprographic Methods* <i>Not given 01/ 02. Limited number of participants</i>	6	C	50	16	-	24					
2D1526 Publishing Technology, General Course	6	C	60	-	-	20			3		30 h; A one week study tour is made in period 4.

*The course has limited participation

Publiceringsteknik M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3		
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2			
2D1527 Publishing Technology, Advanced Course	10	D	120	-	-	26			3	4	50 h
Elective Courses											
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		

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Naval Architecture M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4B1502 <u>Basic Ship Theory</u>	4	C	48	12	-	-			3	4		
4C1096 <u>Strength of Materials and Solid Mechanics, Advanced Course</u>	4	C	36	14	-	4			3			
5B1304 <u>Mathematics, Extended Course</u>	5	D	-	-	54	-			3	4		
5C1921 <u>Fluid Mechanics for Engineers</u>	4,5	C	28	30	-	6			3	4		
Elective Courses												
4B1120 <u>Signal Analysis with Applications</u>	5	D	-	28	-	24				4		
4E1100 <u>Lightweight Structures I</u>	5	C	64	-	-	22			3	4		
5C1203 <u>Fluid Mechanics, General Course</u> <i>Compulsory within competenceprogram Fluid Mechanics.</i>	4	C	-	24	24	3				4		

Naval Architecture M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1505 Ship Structural Design	6	D	60	40	-	-	1	2			
4B1511 Ship Hydrodynamics	5	D	48	24	-	-	1				
4B1517 Naval Architecture, Project	8	D	24	84	-	-		2	3	4	
Elective Courses											
4B1127 Vibroacoustics	5	D	-	56	-	8	1	2			
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4C1116 Dynamic Problems in Solid Mechanics	4	D	42	-	-	8			3	4	
4C1117 Design Applications of Solid Mechanics*	4	D	16	6	-	-				4	
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4F1430 Combustion Engines, general course*	4	C	48	-	-	12	1				
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1				

5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2			
5B1832 Systems Engineering	8	D	56	28	-	12	1	2			
5C1121 Analytical Mechanics	4	C	48	-	-	-			3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1				
5C1212 Computational Fluid Dynamics	5	D	-	-	50	10			3		
5C1213 Applied Computational Fluid Dynamics	2	D	-	-	10	14				4	

*The course has limited participation

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Rail Vehicles and Railway Systems M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
Elective with											
4E1100 Lightweight Structures I	5	C	64	-	-	22			3	4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	
4F1244 Motion Control	4	D	30	-	-	12				4	

Rail Vehicles and Railway Systems M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1304 <u>Railway Systems and Rail Vehicles</u>	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1313 <u>Rail Vehicle Dynamics</u>	5	D	28	8	-	24			3		
Elective with											
1C1206 <u>Railway Track Engineering</u>	5	D	33	-	-	-			3		44 h Workshop
1H1206 <u>Planning of Railroad Traffic</u>	5	C	-	-	66	-	1				
2C1149 <u>Electric Traction</u>	4	C	36	-	-	-				4	
4B1127 <u>Vibroacoustics</u>	5	D	-	56	-	8	1	2			
4C1116 <u>Dynamic Problems in Solid Mechanics</u>	4	D	42	-	-	8			3	4	
4F1540 <u>Tribology</u>	4	C	18	9	-	5	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
5B1722 <u>Applied Optimization</u>	4	C	28	14	-	9			3		

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Systems Engineering M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
5B1538 Reliability Theory	6	D	-	-	72	-			3	4	
5B1722 Applied Optimization	4	C	28	14	-	9			3		
Elective Courses											
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4	

Systems Engineering M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5B1832 Systems Engineering	8	D	56	28	-	12	1	2			
Elective Courses											
1H1204 Logistics	5	C	6	-	-	-	1	2			12 h SeminarsProject-course, 12 h Seminars
1H1206 Planning of Railroad Traffic	5	C	-	-	66	-	1				
1H1212 Logistics, Advanced Course	5	D	4	-	-	-			3		12 h SeminarsProject-course, 12 h Seminars
1H1401 Optimisation Models in Transport and Location Analysis	5	D	27	12	-	6			3		6 h Seminars6h Seminars 6 h Seminars
2E1252 Control Theory and Practice, Advanced Course	5	D	28	26	-	8			3		
5B1550 Applied Mathematical Statistics	5	D	-	-	60	-			3		
5B1814 Applied Mathematical Programming - Linear Problems	4	D	18	12	-	-		2			18 h Projektuppgift
5B1816 Applied Mathematical Programming - Nonlinear Problems	4	D	18	12	-	-			3		18 h Projektuppgift
5B1852 Mathematical Economics	4	D	32	16	-	-		2			

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Mechanical Engineering

Materials Processing M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1134 Effective Production	6	D	25	35	-	-			3	4	
Elective Courses											
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
4H1251 Metal Forming - Fundamentals	6	C	24	24	-	18			3	4	

Materials Processing M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1051 Project Assignment, Materials Processing	4	D	-	160	-	-		2	3	4	160 h Projektuppgift
4G1053 Materials Processing, Project Support	4	D	72	48	-	40		2	3	4	
Elective with											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4D1070 Industrial Project Management	4	C	44	-	-	-	1				
4G1147 Quality	6	C	48	24	-	-	1				
4G1170 Intelligent Machining	4	D	36	20	-	-		2	3	4	
4G1334 Casting Processing	4	D	12	24	-	18				4	
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8			3		
4G1570 Metrology & Quality for the Manufacturing Industry	4	D	36	24	-	-		2	3		
4G1646 Simulation and Modelling	4	D	10	80	-	-			3		
4G1670 Materials Forming	4	D	18	12	-	18		2	3		
4H1251 Metal Forming - Fundamentals	6	C	24	24	-	18			3	4	
4H1255 Metal Forming Processes	6	C	18	18	-	-			3	4	60 h Projektuppgift

Elective Courses

4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4G1243 Advanced Welding Technology, Modulus 1	4	D	20	20	-	20			3		
4G1244 Advanced Welding Technology, Modulus 2	4	D	20	20	-	20			3		
4G1245 Advanced Welding Technology, Modulus 3	4	D	20	20	-	20				4	
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1341 Foundry Processing	4	D	12	-	-	-	1				Seminarier 24 Other 28 h
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		

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Mechanical Engineering

Assembly Systems M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h	
4K1101 Control Systems	4	C	18	28	-	12				4		
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise	

Assembly Systems M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1104 Manufacturing Systems, advanced course	12	D	50	48	-	28		2	3	4	
4K1109 Principles for Product Integrated Manufacturing Systems Design	4	C	12	12	-	4	1				

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Mechanical Engineering

Wood Technology M3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32			3	4	
Elective Courses											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4K1101 Control Systems	4	C	18	28	-	12				4	

Wood Technology M4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1				
4K1603 Wood Technology, Advanced Course	10	D	48	24	-	36		2	3	4	
Elective Courses											
4D1065 Industrial Marketing	4	C	36	12	-	-			3		
4D1070 Industrial Project Management	4	C	44	-	-	-	1				
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				

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Materials Technology

Materials Technology B1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1310 <u>Programming Technique</u>	4	B	26	16	-	36			3	4	
4D1027 <u>Industrial Economics and Management, Basic Course</u>	4	B	26	20	-	-		2			4 h Seminars
4H1613 <u>Materials Selection and Industrial Ecology</u>	4	C	28	-	-	-		2			Seminars 8h Computer exercises 6h
4H1701 <u>General Chemistry for Materials Students</u>	5	B	22	24	-	25	1	2			10 h Projektuppgift
4H1901 <u>Thermodynamics of Materials</u> <i>Is not given 01/02</i>	6	B	48	48	-	-			3	4	
5A1225 <u>Electromagnetism and Waves</u>	5	B	38	18	-	20				4	
5B1115 <u>Mathematics 1</u>	6	B	72	-	-	-	1				
5B1116 <u>Mathematics 2</u>	6	B	72	-	-	-			3		
5C1103 <u>Mechanics, Basic Course</u>	6	B	48	27	-	-			3	4	

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Materials Technology

Materials Technology B2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1210 Numerical Methods, Basic Course I	4	B	24	24	-	24			3	4	
2D1310 Programming Technique	4	B	26	16	-	36	1	2			
3C1305 Ecology and Environmental Technology	4	C	24	3	-	-	1				Field exercise 8 h
4C1035 Strength of Materials and Solid Mechanics, Basic Course	6	B	42	42	-	2		2	3		4 written assignments
4G1320 Manufacturing Technology	4	C	-	-	-	-				4	
4H1060 Foundations of Materials Science	6	C	36	-	-	27			3	4	
4H1902 Fundamentals of Process Metallurgy	4	C	24	24	-	-				4	Plant visits 20h
5A1225 Electromagnetism and Waves	5	B	38	18	-	20	1				
5A1250 Material Physics	5	C	50	28	-	25		2	3		

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Materials Technology B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1305 <u>Polymer Materials, General Course</u>	4	C	32	8	-	12	1				
4F1221 <u>Electrical Engineering, Basic Course</u>	4	B	12	18	-	14		2			
4G1320 <u>Manufacturing Technology</u>	4	C	22	20	-	-	1				
4H1105 <u>Phase Transformations in Materials</u>	4	C	12	12	-	15	1				
4H1205 <u>Mechanical Properties of Materials</u>	4	C	20	18	-	6		2			4 Study visitStudy visit 4h 4 Study visit
4H1903 <u>Transport Phenomena</u>	4	C	24	24	-	-		2			
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-			3		
Elective Courses											
2D1522 <u>Computer Technology and Communication*</u> <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2E1200 <u>Automatic Control, General Course</u>	4	C	24	26	-	12			3		
3C1103 <u>Technical English, Lower Intermediate*</u>	4	B	-	56	-	-			3	4	
3C1110 <u>Technical English II, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1115 <u>German, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1116 <u>German, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1124 <u>Technical German I, upper intermediate elvel, e-learning</u>	6	B	-	18	-	-			3	4	E-learning exercises
3C1130 <u>French, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1131 <u>French, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1138 <u>Technical French I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1145 <u>Spanish, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1146 <u>Spanish, Advanced Beginners*</u>	4	B	-	56	-	-			3	4	
3C1148 <u>Technical Spanish I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
3C1150 <u>Italian, Elementary Course*</u>	4	B	-	56	-	-			3	4	
3C1160 <u>Communicative Swedish*</u>	4	B	-	56	-	-			3	4	

3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-		3	9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars
3C1395 Sustainable Development	4	C	10	12	-	-		3 4	
3D1112 No translation	4	D	26	-	-	15		4	
3E1323 Polymer Physics, General Course	4	C	36	9	-	-		3	
3E1324 Polymer Materials - Properties and Applications <i>Under bearbetning</i>	4	C	30	12	-	10		4	
4A1603 Energy Technology	4	C	48	12	-	-		4	
4B1120 Signal Analysis with Applications	5	D	-	28	-	24		4	
4E1101 Lightweight Structures II	6,5	C	76	-	-	22		3 4	
4F1244 Motion Control	4	D	30	-	-	12		4	
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		4	
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-		3	
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48		3 4	Home assignments
4H1204 Experimental Methods in Materials Science	5	D	10	10	-	48		3 4	
4H1251 Metal Forming - Fundamentals	6	C	24	24	-	18		3 4	
4H1504 Processing of Ceramic Materials	4	C	12	-	-	18		3	
4H1610 Advanced Materials	4	C	18	-	-	6		3	Study visit 18h Seminars
4H1611 Materials Optimisation and Design	5	C	18	18	-	12		4	Study visits 10h
4H1803 Physics of Nanostructured Materials	4	D	20	4	-	6		4	
4H1921 Advanced Transport Phenomena	6	C	16	24	-	16		3 4	136 h Projektuppgift
4H1922 Chemical Equilibria in Metallurgical Processes	10	C	72	72	-	28		3 4	120 h Projektuppgift
4K1107 Production of Electronics I	4	C	36	-	-	8		3	
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24		4	Graded exercise
4K1401 History of Technology, a General Survey	4	B	12	-	-	-		3	12 h Seminars
5A1304 Mathematical Methods in Physics	6	C	-	78	-	-	1 2		
5A1324 Quantum Physics	8	C	60	48	-	-	2 3		
5B1304 Mathematics, Extended Course	5	D	-	-	54	-		3 4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6		3 4	
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-		3 4	

*The course has limited participation

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Materials Technology B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2A1136 Technical Plasma Physics	4	D	24	-	-	4				4	
2A1140 Accelerator and Radiation Technology	4	D	36	-	-	4			3		
2A1151 Energy and fusion research	4	D	24	12	-	-				4	
2A1160 Space Physics	3	D	12	-	-	-	1				
2B1507 Semiconductor Electronics	6	C	36	22	-	8	1	2			
2B1700 Advanced Semiconductor Materials	5	D	34	-	-	16				4	
2C1111 System Planning	4	D	60	-	-	-			3		
2C1114 Wind Power Systems	4	C	52	10	-	4			3	4	
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2			
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2D1520 Graphic Arts Technology, Minor Course	4	C	30	8	-	16	1				
2D1521 Communication and Information	5	C	21	-	-	-			3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2			
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
2E1200 Automatic Control, General Course	4	C	24	26	-	12	1				
2E1241 Automatic Control, Project Course*	5	D	4	-	-	50				4	
2F1400 Electroacoustics	4	D	34	12	-	8	1				

3C1103 Technical English, Lower Intermediate*	4	B	-	56	-	-	1	2			
3C1110 Technical English II, upper intermediate level*	6	B	-	56	-	-	1	2			
3C1113 Technical English III, advanced level*	6	C	-	56	-	-			3	4	
3C1113 Technical English III, advanced level*	6	C	-	56	-	-	1	2			
3C1115 German, Elementary Course*	4	B	-	56	-	-	1	2			
3C1116 German, Advanced Beginners*	4	B	-	56	-	-	1	2			
3C1124 Technical German I, upper intermediate level, e-learning	6	B	-	18	-	-	1	2			E-learning exercises
3C1125 Technical German II, advanced course*	6	C	-	56	-	-			3	4	
3C1125 Technical German II, advanced course*	6	C	-	56	-	-	1	2			
3C1130 French, Elementary Course*	4	B	-	56	-	-	1	2			
3C1131 French, Advanced Beginners*	4	B	-	56	-	-	1	2			
3C1138 Technical French I, upper intermediate level*	6	B	-	56	-	-	1	2			
3C1145 Spanish, Elementary Course*	4	B	-	56	-	-	1	2			
3C1146 Spanish, Advanced Beginners*	4	B	-	56	-	-	1	2			
3C1150 Italian, Elementary Course*	4	B	-	56	-	-	1	2			
3C1151 Italian, Advanced Beginners*	4	B	-	56	-	-			3	4	
3C1160 Communicative Swedish*	4	B	-	56	-	-	1	2			
3C1180 Japanese Studies and Elementary Japanese*	4	B	-	56	-	-	1	2			
3C1190 International Engineering*	4	C	42	-	-	-	1	2			
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h
3C1355 Ecology, Advanced Course	4	C	21	4	-	-			3	4	
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1				9 h Seminars
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2			
3C1380 Environmental Management	4	D	18	3	-	8			3	4	Project work 8 h
3C1385 Biology	4	C	30	6	-	6	1				Field exercise 8 h
3C1395 Sustainable Development	4	C	10	12	-	-			3	4	
3D1160 Pulp Mechanical Technology, Minor Course <i>Under bearbetning</i>	4	D	30	-	-	-	1	2			4 h seminars
3E1354 Biopolymers	5	D	24	16	-	-			3		
3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
3E1361 Polymer Processing, Minor Course	4	C	24	8	-	18		2			
3E1366 Polymers in Engineering Design	4	C	18	24	-	8				4	
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			

4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	
4A1629 Fluid Machinery	4	C	30	18	-	12	1				
4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	
4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2			7 h Projektuppgift
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4C1118 Non-linear Theory of Elasticity	2	D	12	12	-	-				4	
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-			3		
4D1065 Industrial Marketing	4	C	36	12	-	-			3		
4D1075 Work Organization and Leadership* <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
4D1080 Multinational Enterprising	4	C	36	12	-	-		2			
4D1088 Technical Work Psychology	4	C	24	4	-	4		2			
4D1089 Work Science, Advanced Course <i>Will not be given 2001/2002</i>	4	C	24	12	-	-					
4D1090 Work Science, General Course	4	B	-	-	-	-	1	2	3	4	Literature course
4D1092 Man - Machine System	4	C	32	8	-	8			3		
4E1122 Manufacturing of Polymer Composites	4	D	40	-	-	5	1				
4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14			3		
4E1150 Biomechanics and Neuronics	4	D	36	-	-	6				4	
4F1131 Microcomputers in Embedded Systems*	5	D	-	36	-	36		2			
4F1131 Microcomputers in Embedded Systems* <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 Project Work in Mechatronics* <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1244 Motion Control	4	D	30	-	-	12				4	
4F1531 Machine Elements, basic course for I and T	4	B	24	40	-	-	1				
4F1540 Tribology	4	C	18	9	-	5	1				
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			

4F1631 Machine Design, intermediate course	7	D	4	84	-	-		3	4	
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-		3		
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-	1			
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2		
4F1643 Eco Design Project*	4	C	-	-	-	-	1	2	3	4
										Limited attendance. The course is not timetabled.
4G1147 Quality	6	C	48	24	-	-	1			
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1			
4G1231 Intermediate Welding Technology	4	D	24	24	-	12	1	2		
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4
4G1342 Space Systems and Technology	4	D	36	-	-	-		2		
4G1370 Solidification Processing	4	D	36	24	-	-		2	3	
4G1540 Laser Metrology Methods and Non Destructive Testing <i>Under bearbetning</i>	4	C	28	22	-	4		2		
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8			3	
4G1634 Manufacturing Engineering, Basic Course	6	C	32	20	-	12	1	2		
4G1646 Simulation and Modelling	4	D	10	80	-	-			3	
4H1104 Diffusion and Phase Equilibria	6	D	18	18	-	42	1	2		
4H1113 Powder Metallurgy	4	D	18	18	-	12		2		
4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24			3	4
4H1255 Metal Forming Processes	6	C	18	18	-	-			3	4
4H1301 Material Design	4	D	-	2	-	10			3	4
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1			
4H1405 Corrosion and surface protection, advanced course	4	D	16	-	-	-			3	
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2		
4H1609 Functional Materials	4	D	18	-	-	6		2		10 h Seminars Study visit 8h 10 h Seminars
4H1612 High Temperature Materials	7	D	18	12	-	6	1			Study visit 8h Seminars 10h Project assignment 100h
4H1704 Physics and Chemistry of Modern Materials	4	D	20	4	-	8		2		
4H1803 Physics of Nanostructured Materials	4	D	20	4	-	6				4
4H1941 Electrochemical Material and Energy Processes	4	D	18	18	-	12				4
4H1942 Experimental Methods in Metallurgical Engineering	4	D	2	-	-	-				4
4H1945 Economical Process Analysis and Strategy	4	C	12	12	-	-				4
4H1946 Combustion in Industrial Processes	6	D	24	24	-	12				4
										4 h Seminars

4H1947 Process Metallurgy II	4	C	24	24	-	12	2			
4K1107 Production of Electronics I	4	C	36	-	-	8		3		
4K1109 Principles for Product Integrated Manufacturing Systems Design	4	C	12	12	-	4	1			
4K1202 Modelling and Interaction in CAD/CAM* <i>Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.</i>	5	D	-	36	-	24	1			3 Programming tasks, periods 1, 2
4K1409 History of Industry	4	B	12	-	-	-	1	2		12 h Seminars 2 Study-visits 12 h Seminars
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32		3	4	
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1			
5A1362 Environmental Physics	4	B	40	-	-	20		3	4	
5A1414 Radiation Detectors and Medical Imaging Systems	5	D	24	6	-	20		3	4	
5A1416 Radiation Sources for Therapy	2	D	8	-	-	-			4	2 compulsory studyvisits
5A1590 Technical Photography	5	C	20	-	-	36		3	4	
5A1610 The Nature of Materials	4	C	32	-	-	-			4	
5A1650 Smart Electronic Materials	4	C	18	10	-	8	1			
5A1651 Physics of Electronic Devices	4	D	12	6	-	-			4	
5B1555 Computer Intensive Methods in Mathematical Statistics	5	D	-	-	48	-			4	
5C1122 Continuum Mechanics	4	C	42	-	-	-	1			
5C1211 No translation	4	C	-	-	-	-		2		
5C1980 Applied Mechanics, for (T) <i>The course runs the entire academic year. A few lectures during fall.</i>	4	C	24	-	-	37	1	2	3	4
7E1101 Medical Engineering, Basic Course	4	C	24	-	-	-	1			
7E1110 Quality and Regulatory Aspects on Medical Devices	2	D	20	-	-	-			4	
7E1112 Implants and Biomaterials	4	D	25	-	-	-			4	
7E1113 Medical Instrumentation and Signal Processing	4	D	30	-	-	6			4	
7E1114 Radiation Physics and Biology	4	D	40	-	-	-			4	
7E1115 Engineering in Intensive Care and Anesthesia	4	D	12	-	-	-			4	30 + 10 h (field work with oral and written report)
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1			
7E1200 Cellular and Molecular Biology*	10	C	80	-	-	8			3	4
7E1202 Systems Biology*	5	C	32	-	25	-		2		
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-			3	4
9E1131 Information Searching for B, I, M, T	1	B	-	-	-	-	1	2		

*The course has limited participation

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Materials Technology

Business Development and Media Technology B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Elective Courses												
3C1103 <u>Technical English, Lower Intermediate*</u>	4	B	-	56	-	-			3	4		
3C1110 <u>Technical English II, upper intermediate level*</u>	6	B	-	56	-	-			3	4		
3C1113 <u>Technical English III, advanced level*</u>	6	C	-	56	-	-			3	4		
4D1030 <u>Industrial Production</u>	4	C	40	20	-	-				4	Study Visits 10h	

*The course has limited participation

Business Development and Media Technology B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1521 <u>Communication and Information*</u>	5	C	21	-	-	-	1				24 h Seminars
2D1552 <u>Media Management</u>	10	C	72	56	-	-	1	2	3	4	
2D1553 <u>Media Production</u>	10	C	40	28	-	24	1	2			
2D1555 <u>Information Technology and Organisations</u>	5	D	39	-	-	-				4	
2D1556 <u>Marketing Communication and the Consumer</u>	10	D	-	-	-	-			3		76 h Seminars
Elective Courses											
2D1334 <u>Database Technology</u>	4	C	24	20	-	12			3		
2D1524 <u>Image Processing and Reprographic Methods*</u> <i>Not given 01/ 02. Limited number of participants</i>	6	C	50	16	-	24					

*The course has limited participation

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Advanced Materials B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4H1610 <u>Advanced Materials</u>	4	C	18	-	-	6			3		Study visit 18h Seminars	
4H1611 <u>Materials Optimisation and Design</u>	5	C	18	18	-	12				4	Study visits 10h	
Elective Courses												
4H1504 <u>Processing of Ceramic Materials</u>	4	C	12	-	-	18			3			

Advanced Materials B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1609 Functional Materials	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1612 High Temperature Materials	7	D	18	12	-	6	1				Study visit 8h Seminars 10h Project assignment 100h
Elective Courses											
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1				
4H1405 Corrosion and surface protection, advanced course	4	D	16	-	-	-			3		
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			

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Materials Technology

Biomedical Engineering B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1200 Cellular and Molecular Biology*_	10	C	80	-	-	8			3	4	
7E1201 Neuroscience*_	5	C	60	-	-	30				4	

*The course has limited participation

Biomedical Engineering B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
7E1120 Biomedical Engineering, Basic Course	5	C	30	-	-	-	1				
7E1202 Systems Biology*_	5	C	32	-	25	-		2			
Elective Courses											
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	

*The course has limited participation

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Computer Systems for Design and Manufacturing B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise

Computer Systems for Design and Manufacturing B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1202 Modelling and Interaction in CAD/CAM*_ Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.	5	D	-	36	-	24	1				3 Programming tasks, periods 1, 2
4K1203 Computer Systems for Design and Manufacturing, advanced course Maximum of 20 participants. Students of "Computer Systems for Design and Manufacturing" will have priority.	12	D	-	68	-	60		2	3	4	4 Programming Projects, periods 2, 3, 4
Elective Courses											
4F1131 Microcomputers in Embedded Systems*_ 	5	D	-	36	-	36		2			
4F1640 Industrial Design*_ Limited number of participants	4	C	24	36	-	-	1				
4K1103 Manufacturing Automation II	6	C	28	32	-	17	1	2			

*The course has limited participation

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Energy Technology B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4A1603 Energy Technology	4	C	48	12	-	-				4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	

Energy Technology B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4A1605 Sustainable Power Generation	6	D	30	48	-	18	1	2			
4A1607 Sustainable Energy Utilization	6	D	48	24	-	24	1	2			
4A1609 Applied Energy Technology - Project Course	6	D	12	54	-	-			3	4	Literature study 24h
Elective Courses											
2A1151 Energy and fusion research	4	D	24	12	-	-				4	
4A1140 Energy Systems and Models	4	D	-	-	-	-	1	2	3	4	
4A1610 Energy Management	4	D	50	-	-	-				4	
4A1611 Renewable Energy Technology	4	D	24	12	-	24		2			
4A1613 Energy and Environment	4	D	45	-	-	-			3	4	
4A1620 Combustion Theory	4	C	18	18	-	15	1	2	3	4	
4A1621 Modelling of Thermodynamic Systems	4	D	16	-	-	32	1	2	3	4	The course is given upon agreement
4A1622 Thermal Comfort and Indoor Climate	4	D	24	24	-	12			3	4	
4A1623 Applied Refrigeration and Heat Pump Technology	4	D	24	24	-	-			3	4	
4A1624 Numerical Methods in Energy Technology	4	D	48	-	-	24			3		
4A1625 Cooling of Electronics	4	D	48	-	-	12			3		
4A1626 Applied Heat and Power Technology	4	D	30	12	-	8			3	4	Project assignment 8h
4A1627 Applied Reactor Technology and Nuclear Power Safety	4	D	36	12	-	12			3	4	

4A1629 Fluid Machinery	4	C	30	18	-	12	1				
4A1630 Thermal Fluid Machinery	4	D	36	12	-	12	1	2	3	4	

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Internal Combustion Engines B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	
Elective with											
2E1200 Automatic Control, General Course	4	C	24	26	-	12		2			
Elective Courses											
4A1601 Heat Transfer	4	C	24	24	-	20			3		
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	
4F1343 Fluid Systems and Machines	4	C	24	24	-	12				4	
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.

Internal Combustion Engines B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4F1430 <u>Combustion Engines, general course*_</u>	4	C	48	-	-	12	1				
4F1431 <u>Combustion Engines, Advanced Course*_</u>	6	D	56	-	-	32		2	3		
4F1460 <u>Combustion Engines, Project Course</u>	6	D	-	18	-	-			3	4	
Elective Courses											
2E1200 <u>Automatic Control, General Course</u>	4	C	24	26	-	12		2			
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4F1131 <u>Microcomputers in Embedded Systems*_</u>	5	D	-	36	-	36		2			

4F1131 Microcomputers in Embedded Systems* <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 Project Work in Mechatronics* <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1540 Tribology	4	C	18	9	-	5	1				
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			

*The course has limited participation

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Solid Mechanics B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4				3		
4C1117 Design Applications of Solid Mechanics*	4	D	16	6	-	-					4	
4F1531 Machine Elements, basic course for I and T	4	B	24	40	-	-					4	
5B1304 Mathematics, Extended Course	5	D	-	-	54	-				3	4	

*The course has limited participation

Solid Mechanics B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1114 <u>Finite Element Method</u>	4	D	-	49	-	8		2			
Elective Courses											
3E1324 <u>Polymer Materials - Properties and Applications</u> <i>Under bearbetning</i>	4	C	30	12	-	10				4	
3E1360 <u>Mechanical Properties of Polymers, Minor Course</u>	4	C	24	16	-	12	1				
4B1111 <u>Fundamentals of Noise and Vibration Control T</u>	4	C	31	32	-	4		2			
4B1112 <u>Fundamentals of Noise and Vibration control M</u>	4	C	31	30	-	4	1				
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			
4C1110 <u>Material Mechanics</u>	4	D	52	-	-	3	1				
4C1111 <u>Fracture Mechanics and Fatigue</u>	4	D	48	-	-	4				4	
4C1112 <u>Theory of Elasticity</u>	4	D	26	26	-	-			3		
4C1116 <u>Dynamic Problems in Solid Mechanics</u>	4	D	42	-	-	8			3	4	
4C1118 <u>Non-linear Theory of Elasticity</u>	2	D	12	12	-	-				4	
4C1119 <u>Finite Element Method, Project Course</u>	2	D	8	-	-	-			3		

4E1127 Fatigue and Damage Tolerance	4	D	36	-	-	14		3		
4F1540 Tribology	4	C	18	9	-	5	1			
4G1230 Introductory Welding Technology	4	C	24	18	-	12	1			
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48		3	4	Home assignments
4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24		3	4	Home assignments
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18	2			
5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2		
5C1122 Continuum Mechanics	4	C	42	-	-	-	1			
5C1123 Mathematical Methods of Mechanics, General Course	4	D	36	-	-	-		2		
5C1125 Mathematical Methods of Mechanics, Intermediate Course	2	D	-	-	-	-		3		
5C1208 Fluid Mechanics, Intermediate Course	2	D	-	-	20	-	1			
5C1902 Advanced Dynamics of Complex Systems	4	D	24	-	-	-	1			

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Industrial Economics and Management B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4D1028 Industrial Economy and Management, Advanced Course	4	C	26	20	-	-					4	4 h Seminars
Elective with												
4D1030 Industrial Production	4	C	40	20	-	-					4	Study Visits 10h
4D1060 Industrial Development	4	C	40	8	-	-				3		
4D1075 Work Organization and Leadership*_ Limited attendance, selection will be made	4	C	24	24	-	-				3		

*The course has limited participation

Industrial Economics and Management B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1035 <u>Advanced Industrial Economics and Management</u>	12	D	68	72	-	-		2	3	4	Other 16h
Elective with											
4D1065 <u>Industrial Marketing</u>	4	C	36	12	-	-			3		
4D1070 <u>Industrial Project Management</u>	4	C	44	-	-	-	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
4K1101 <u>Control Systems</u>	4	C	18	28	-	12				4	
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				
Elective Courses											
4K1103 <u>Manufacturing Automation II</u>	6	C	28	32	-	17	1	2			

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Industrial Engineering B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
Elective Courses											
3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	

Industrial Engineering B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1146 <u>Advanced Industrial Engineering</u>	12	D	67	22	-	-	1	2			120 h Projektuppgift
4G1147 <u>Quality</u>	6	C	48	24	-	-	1				
Elective Courses											
3C1360 <u>Environmental Consequences, Advanced Course</u>	4	C	18	9	-	8	1				9 h Seminars
4D1065 <u>Industrial Marketing</u>	4	C	36	12	-	-			3		
4D1088 <u>Technical Work Psychology</u>	4	C	24	4	-	4		2			
4G1053 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40		2	3	4	
4G1170 <u>Intelligent Machining</u>	4	D	36	20	-	-		2	3	4	

4G1243 Advanced Welding Technology, Modulus 1	4	D	20	20	-	20			3		
4G1244 Advanced Welding Technology, Modulus 2	4	D	20	20	-	20			3		
4G1245 Advanced Welding Technology, Modulus 3	4	D	20	20	-	20				4	
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1540 Laser Metrology Methods and Non Destructive Testing <i>Under bearbetning</i>	4	C	28	22	-	4		2			
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				

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Integratd Product Development B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1075 <u>Work Organization and Leadership*</u> <i>Limited attendance, selection will be made</i>	4	C	24	24	-	-			3		
Elective Courses											
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	

*The course has limited participation

Integratd Product Development B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1541 CAD 3D-modelling and Visualization for Personal Computers	4	C	8	36	-	-		2			
4F1760 Integrated Product Development, Advanced Course	20	D	-	180	-	-	1	2	3	4	
Elective Courses											
4F1131 Microcomputers in Embedded Systems*	5	D	-	36	-	36		2			
4F1640 Industrial Design* <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1641 Environmentally Adapted Product Design	4	C	24	20	-	16		2			
4F1642 Modelling and Computer Support in Mechanical Design	4	C	24	36	-	-			3		

*The course has limited participation

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Sound and Vibrations B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1120 Signal Analysis with Applications	5	D	-	28	-	24				4	
5B1304 Mathematics, Extended Course	5	D	-	-	54	-			3	4	
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4	
Elective Courses											
4B1111 Fundamentals of Noise and Vibration Control T	4	C	31	32	-	4		2			
4B1112 Fundamentals of Noise and Vibration control M	4	C	31	30	-	4	1				

Sound and Vibrations B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4B1127 <u>Vibroacoustics</u>	5	D	-	56	-	8	1	2			
4B1131 <u>Experimental Structure Dynamics</u>	5	D	-	58	-	12		2	3		
4B1136 <u>Flow Acoustics</u>	4	D	-	36	-	8			3		
4B1141 <u>Sound and Vibration, Projekt Course</u>	5	D	-	48	-	12			3	4	Study tour to industry 40h
9E1131 <u>Information Searching for B, I, M, T</u>	1	B	-	-	-	-			3	4	

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Lightweight Structures B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4E1101 Lightweight Structures II	6,5	C	76	-	-	22			3	4		
Elective Courses												
4E1201 Elements of Aeronautics	5	C	72	-	-	4			3	4		

Lightweight Structures B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4E1122 <u>Manufacturing of Polymer Composites</u>	4	D	40	-	-	5	1				
4E1123 <u>Mechanics of Composites and Sandwich Constructions</u>	4	D	48	-	-	6		2			
4E1127 <u>Fatigue and Damage Tolerance</u>	4	D	36	-	-	14			3		
4E1131 <u>Aircraft and Lightweight Design</u>	6	D	8	60	-	12			3	4	
4E1150 <u>Biomechanics and Neuronics</u>	4	D	36	-	-	6				4	
Elective Courses											
3C1103 <u>Technical English, Lower Intermediate*</u>	4	B	-	56	-	-	1	2			
3C1110 <u>Technical English II, upper intermediate level*</u>	6	B	-	56	-	-	1	2			
3C1113 <u>Technical English III, advanced level*</u>	6	C	-	56	-	-	1	2			
3C1124 <u>Technical German I, upper intermediate elvel, e-learning</u>	6	B	-	18	-	-	1	2			E-learning exercises
3C1125 <u>Technical German II, advanced course*</u>	6	C	-	56	-	-	1	2			
3C1138 <u>Technical French I, upper intermediate level*</u>	6	B	-	56	-	-	1	2			
3C1148 <u>Technical Spanish I, upper intermediate level*</u>	6	B	-	56	-	-			3	4	
4B1304 <u>Railway Systems and Rail Vehicles</u>	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1420 <u>Ground Vehicle Engineering, Basic Course</u>	6	C	36	36	-	-	1	2			

4B1502 Basic Ship Theory	4	C	48	12	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
5B1722 Applied Optimization	4	C	28	14	-	9			3		

*The course has limited participation

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Machine Elements B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1096 Strength of Materials and Solid Mechanics, Advanced Course	4	C	36	14	-	4			3		
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.

Machine Elements B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1540 Tribology	4	C	18	9	-	5	1				
4F1560 Advanced Machine Elements	12	D	-	120	-	-			3	4	
4F1630 Introduction to Machine Design	5	C	24	36	-	-	1	2			
Elective Courses											
4C1114 Finite Element Method	4	D	-	49	-	8		2			

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Machine Design B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4C1096 <u>Strength of Materials and Solid Mechanics, Advanced Course</u>	4	C	36	14	-	4			3		
4F1530 <u>Function Analysis and Optimization in Mechanical Engineering</u>	5	C	-	60	-	-			3	4	One day field trip.
Elective Courses											
4F1241 <u>Microcomputer, Sensors and Actuators</u>	6	C	18	26	-	29				4	
4F1242 <u>Introduction to Microcomputer Systems</u>	4	C	12	22	-	14				4	
4F1343 <u>Fluid Systems and Machines</u>	4	C	24	24	-	12				4	
4F1642 <u>Modelling and Computer Support in Mechanical Design</u>	4	C	24	36	-	-			3		
4K1201 <u>Computer Aided Design and Manufacturing, Introductory course</u>	5	C	48	-	-	24				4	Graded exercise
5C1121 <u>Analytical Mechanics</u>	4	C	48	-	-	-			3		

Machine Design B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
4F1660 <u>Advanced Machine Design</u>	12	D	4	114	-	-			3	4	
Elective Courses											
3E1360 <u>Mechanical Properties of Polymers, Minor Course</u>	4	C	24	16	-	12	1				
3E1361 <u>Polymer Processing, Minor Course</u>	4	C	24	8	-	18		2			
3E1366 <u>Polymers in Engineering Design</u>	4	C	18	24	-	8				4	
4C1114 <u>Finite Element Method</u>	4	D	-	49	-	8		2			
4E1123 <u>Mechanics of Composites and Sandwich Constructions</u>	4	D	48	-	-	6		2			
4F1131 <u>Microcomputers in Embedded Systems*_</u>	5	D	-	36	-	36		2			

4F1131 <u>Microcomputers in Embedded Systems*</u> <i>Limited attendance: 25</i>	5	D	-	36	-	36			3		
4F1141 <u>Project Work in Mechatronics*</u> <i>Limited attendance due to limited number of available projects</i>	4	C	-	-	-	-	1	2	3	4	No scheduled hours
4F1541 <u>CAD 3D-modelling and Visualization for Personal Computers</u>	4	C	8	36	-	-		2			
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-			3		
4F1640 <u>Industrial Design*</u> <i>Limited number of participants</i>	4	C	24	36	-	-	1				
4F1641 <u>Environmentally Adapted Product Design</u>	4	C	24	20	-	16		2			
4K1102 <u>Manufacturing Automation I</u>	4	C	20	24	-	12	1				

*The course has limited participation

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Mateials Physics B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5A1304 <u>Mathematical Methods in Physics</u>	6	C	-	78	-	-	1	2			
5A1324 <u>Quantum Physics</u>	8	C	60	48	-	-		2	3		
5A1700 <u>Solid State Physics, General Course</u>	6	D	54	-	-	30			3	4	
Elective Courses											
5A1350 <u>Statistical Mechanics</u>	4	C	24	24	-	-				4	

Mateials Physics B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
5A1710 Experimental Methods in Material Physics	5	C	26	22	-	30		2	3		
Elective Courses											
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4C1111 Fracture Mechanics and Fatigue	4	D	48	-	-	4				4	
4C1112 Theory of Elasticity	4	D	26	26	-	-			3		
4C1114 Finite Element Method	4	D	-	49	-	8		2			
4G1342 Space Systems and Technology	4	D	36	-	-	-		2			
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		
4H1104 Diffusion and Phase Equilibria	6	D	18	18	-	42	1	2			
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48			3	4	Home assignments
4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24			3	4	Home assignments
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1				
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			
4H1609 Functional Materials	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1610 Advanced Materials	4	C	18	-	-	6			3		Study visit 18h Seminars
4H1611 Materials Optimisation and Design	5	C	18	18	-	12				4	Study visits 10h

4H1612 High Temperature Materials	7	D	18	12	-	6	1				Study visit 8h Seminars 10h Project assignment 100h
5A1332 Advanced Quantum Mechanics, Course I	5	D	36	-	-	-	1	2			
5A1354 Computational Physics	6	D	24	-	-	20		2			
5A1370 Solid State Theory	4	D	36	-	-	-	1				
5A1502 Quantum Electronics with Electro Optics	8	D	48	-	-	-		2			
5A1503 Electro Optics	4	D	24	-	-	-		2			
5A1505 Optics, General Course	4	D	26	14	-	25	1				
5A1600 Semiconductor Theory and Device Physics, General Course	5	D	30	-	-	10	1				Individual assignments 20 h
5A1605 Semiconductor Theory and Device Physics, Advanced Course	4	D	-	36	-	-			3		
5A1610 The Nature of Materials	4	C	32	-	-	-				4	
5A1630 Surface Physics, Basic Course	4	D	36	-	-	-		2			
5A1701 Superconductivity and its Applications	4	D	28	-	-	-		2			
5A1775 Nuclear Reactor Physics, Major Course	6	D	36	-	-	24		2			
5A1777 Reactor Physics, Minor Course	4	D	30	-	-	16		2			

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Materials Science B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1202 Mechanical Metallurgy I	6	D	24	12	-	48			3	4	Home assignments
4H1204 Experimental Methods in Materials Science	5	D	10	10	-	48			3	4	
4H1504 Processing of Ceramic Materials	4	C	12	-	-	18			3		
Elective with											
4H1801 Physics of Materials for information Technology	4	D	20	4	-	6			3		

Materials Science B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1104 Diffusion and Phase Equilibria	6	D	18	18	-	42	1	2			
4H1113 Powder Metallurgy	4	D	18	18	-	12		2			
4H1301 Material Design	4	D	-	2	-	10			3	4	
4H1404 Corrosion and Surface Protection, General Course	4	C	16	12	-	12	1				
Elective with											
4H1405 Corrosion and surface protection, advanced course	4	D	16	-	-	-			3		
4H1505 Structure and Properties of Ceramic Materials	4	D	12	12	-	18		2			
4H1609 Functional Materials	4	D	18	-	-	6		2			10 h SeminarsStudy visit 8h 10 h Seminars
4H1610 Advanced Materials	4	C	18	-	-	6			3		Study visit 18h Seminars
4H1702 Current Research Topics in Materials Chemistry	4	D	20	4	-	8				4	
4H1703 Materials Chemistry	4	D	20	4	-	8				4	
4H1704 Physics and Chemistry of Modern Materials	4	D	20	4	-	8		2			
4H1802 Artificial Materials	4	D	20	4	-	6	1				
5A1304 Mathematical Methods in Physics	6	C	-	78	-	-	1	2			

5A1370 Solid State Theory	4	D	36	-	-	-	1				
Elective Courses											
4H1803 Physics of Nanostructured Materials	4	D	20	4	-	6				4	

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Mechatronics B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	
2E1112 Electrical Measurements, Basic Course	4	C	18	10	-	20	1	2			
4F1530 Function Analysis and Optimization in Mechanical Engineering	5	C	-	60	-	-			3	4	One day field trip.
4F1531 Machine Elements, basic course for I and T	4	B	24	40	-	-				4	
Elective Courses											
4F1241 Microcomputer, Sensors and Actuators	6	C	18	26	-	29				4	
4F1242 Introduction to Microcomputer Systems	4	C	12	22	-	14				4	

Mechatronics B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1132 <u>Microcomputers in Embedded Systems</u>	5	D	-	36	-	36	1				
4F1142 <u>Motion control and real-time implementation*</u> <i>Under bearbetning</i>	5	D	22	10	-	30		2		4	
4F1162 <u>Mechatronics, Advanced Course II</u>	15	D	-	116	-	80		2	3	4	

*The course has limited participation

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Metallurgy and Processes of Manufacture B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4G1334 Casting Processing	4	D	12	24	-	18				4		
4H1921 Advanced Transport Phenomena	6	C	16	24	-	16			3	4	136 h Projektuppgift	
4H1922 Chemical Equilibria in Metallurgical Processes	10	C	72	72	-	28			3	4	120 h Projektuppgift	

Metallurgy and Processes of Manufacture B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4H1923 Theory of High Temperature Processes	6	D	24	24	-	8	1				
4H1924 Reactor and Process Technology	6	D	24	24	-	16	1	2			Study visits 40h
4H1925 International Seminar in Material Processes	4	D	2	-	-	-		2			120 h Projektuppgift
4H1926 Metallurgical Process Simulation	6	D	2	-	-	-			3	4	240 h Projektuppgift
Elective Courses											
2E1280 Modelling of Industrial Processes	4	C	24	24	-	12				4	
4G1341 Foundry Processing	4	D	12	-	-	-	1				Seminarier 24 Other 28 h
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		
4H1203 Mechanical Metallurgy II	4,5	C	24	12	-	24			3	4	Home assignments
4H1943 Thermochemical Modelling of Metallurgical Processes	4	D	2	-	-	-		2			120 h Projektuppgift
4H1944 Energy and Environmental Issues within the Process Industry	4	C	24	24	-	-			3	4	
4H1945 Economical Process Analysis and Strategy	4	C	12	12	-	-				4	60 h Projektuppgift

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Environmental Management B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3C1340 Environmental Technology, Advanced Course	4	D	36	6	-	-			3		9 h SeminarsStudy visit 2x4 h, Exercises 9 h Seminars	
4D1060 Industrial Development	4	C	40	8	-	-			3			

Environmental Management B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3C1360 Environmental Consequences, Advanced Course	4	C	18	9	-	8	1				9 h Seminars	
3C1370 Applied Environmental Legislation	3	C	27	6	-	-		2				
3C1390 Environmental Management, Larger Course	8	D	36	3	-	24			3	4	Project work, field exercise	
Elective Courses												
3C1350 Waste Management, Advanced Course <i>Study visit</i>	4	D	21	-	-	6				4	Project work 20 h	
3C1365 Environmental Consequences, Advanced Course II	4	D	15	15	-	40	1	2			Field exercises	

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Paper Technology B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
3D1107 Paper Technology <i>Under bearbetning</i>	6	D	42	-	-	56			3	4	2 days studytrip	
Elective Courses												
3D1112 No translation	4	D	26	-	-	15				4		
5C1921 Fluid Mechanics for Engineers	4,5	C	28	30	-	6			3	4		

Paper Technology B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
2D1520 <u>Graphic Arts Technology, Minor Course</u>	4	C	30	8	-	16	1					
3D1103 <u>Advanced Paper Technology</u>	12	D	30	-	-	-	1	2	3			
3D1159 <u>Pulp Mechanical Technology</u> <i>Under bearbetning</i>	6	D	30	-	-	52	1	2				Seminars 4 h

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Polymer Materials B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1320 <u>Polymer Chemistry, General Course</u>	5	C	24	18	-	30			3		
3E1323 <u>Polymer Physics, General Course</u>	4	C	36	9	-	-			3		
3E1324 <u>Polymer Materials - Properties and Applications</u> <i>Under bearbetning</i>	4	C	30	12	-	10				4	

Polymer Materials B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
3E1360 Mechanical Properties of Polymers, Minor Course	4	C	24	16	-	12	1				
3E1361 Polymer Processing, Minor Course	4	C	24	8	-	18		2			
4C1110 Material Mechanics	4	D	52	-	-	3	1				
4E1122 Manufacturing of Polymer Composites	4	D	40	-	-	5	1				
Elective with											
3E1354 Biopolymers	5	D	24	16	-	-			3		
3E1362 Polymer Physics, Intermediate Course	5	C	36	9	-	20			3		
3E1366 Polymers in Engineering Design	4	C	18	24	-	8				4	
3E1367 Mechanical Properties of Polymers, Intermediate Course	4	D	24	24	-	-			3		
3E1368 Polymer Processing, Intermediate Course	4	D	24	-	-	24				4	
Elective Courses											
3E1363 Coating Technology	4	C	30	-	-	24				4	

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Publiceringsteknik B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1515 Machinery and Materials in Graphic Arts Technology <i>Not given 01/ 02.</i>	6	C	72	-	-	24					
2D1521 Communication and Information	5	C	21	-	-	-			3		24 h Seminars
2D1522 Computer Technology and Communication* <i>Limited number of participants</i>	4	C	30	-	-	20				4	
2D1524 Image Processing and Reprographic Methods* <i>Not given 01/ 02. Limited number of participants</i>	6	C	50	16	-	24					
2D1526 Publishing Technology, General Course	6	C	60	-	-	20			3		30 h; A one week study tour is made in period 4.

*The course has limited participation

Publiceringsteknik B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1516 Audio, Video and Multimedia Production* <i>Limited number of participants</i>	6	C	36	-	-	56		2	3		
2D1525 Programming for Interactive Media* <i>Limited number of participants</i>	4	D	33	-	-	33	1	2			
2D1527 Publishing Technology, Advanced Course	10	D	120	-	-	26			3	4	50 h
Elective Courses											
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		

*The course has limited participation

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Materials Processing B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1134 Effective Production	6	D	25	35	-	-			3	4	
Elective Courses											
4G1332 Materials Processing I	4	C	26	32	-	7			3		
4G1335 Materials Processing I, Laboratory Course	5	D	26	32	-	47			3	4	
4G1632 Materials Processing II	4	C	29	30	-	13				4	
4G1635 Materials Processing II, Laboratory Course	5	D	29	30	-	37				4	
4H1251 Metal Forming - Fundamentals	6	C	24	24	-	18			3	4	

Materials Processing B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4G1051 <u>Project Assignment, Materials Processing</u>	4	D	-	160	-	-		2	3	4	160 h Projektuppgift
4G1053 <u>Materials Processing, Project Support</u>	4	D	72	48	-	40		2	3	4	
Elective with											
4G1230 <u>Introductory Welding Technology</u>	4	C	24	18	-	12	1				
4G1570 <u>Metrology & Quality for the Manufacturing Industry</u>	4	D	36	24	-	-		2	3		
4G1670 <u>Materials Forming</u>	4	D	18	12	-	18		2	3		
Elective Courses											
4C1110 <u>Material Mechanics</u>	4	D	52	-	-	3	1				
4F1630 <u>Introduction to Machine Design</u>	5	C	24	36	-	-	1	2			
4G1170 <u>Intelligent Machining</u>	4	D	36	20	-	-		2	3	4	
4G1243 <u>Advanced Welding Technology, Modulus 1</u>	4	D	20	20	-	20			3		
4G1244 <u>Advanced Welding Technology, Modulus 2</u>	4	D	20	20	-	20			3		

4G1245 Advanced Welding Technology, Modulus 3	4	D	20	20	-	20				4	
4G1246 Enlarged Welding Technology for EWE <i>Course is given upon agreement</i> <i>Under bearbetning</i>	4	D	25	25	-	10	1	2	3	4	
4G1341 Foundry Processing	4	D	12	-	-	-	1				Seminarier 24 Other 28 h
4G1370 Solidification Processing	4	D	36	24	-	-		2	3		
4G1541 Measurement Technology & Statistics f Manufact. Processes	4	D	30	-	-	8			3		

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Assembly Systems B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h	
4K1101 Control Systems	4	C	18	28	-	12				4		
4K1201 Computer Aided Design and Manufacturing, Introductory course	5	C	48	-	-	24				4	Graded exercise	

Assembly Systems B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4F1531 Machine Elements, basic course for I and T	4	B	24	40	-	-	1				
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				
4K1104 Manufacturing Systems, advanced course	12	D	50	48	-	28		2	3	4	
4K1109 Principles for Product Integrated Manufacturing Systems Design	4	C	12	12	-	4	1				

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Materials Technology

Wood Technology B3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4K1601 Wood Material Science, Basic Course	5	C	36	24	-	32			3	4	
Elective Courses											
4D1030 Industrial Production	4	C	40	20	-	-				4	Study Visits 10h
4K1101 Control Systems	4	C	18	28	-	12				4	

Wood Technology B4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
4D1070 Industrial Project Management	4	C	44	-	-	-	1				
4K1602 Industrial Wood Processing, Basic Course	4	C	26	16	-	16	1				
4K1603 Wood Technology, Advanced Course	10	D	48	24	-	36		2	3	4	
Elective Courses											
4D1065 Industrial Marketing	4	C	36	12	-	-			3		
4K1102 Manufacturing Automation I	4	C	20	24	-	12	1				

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Media Technology

Media Technology MEDIA1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1310 <u>Programming Technique</u>	4	B	26	16	-	36		2	3		
2D1348 <u>Communication and Information</u>	5	B	40	-	-	-		2	3		20 h Seminars
2D1571 <u>Introduction to Media Technology</u>	4	B	24	12	-	-	1				
2D1572 <u>Creation and Design</u>	4	C	20	20	-	8			3	4	
2D1575 <u>Media Technology Programme Summary Course</u>	4	B	16	-	-	-		2	3	4	Other 1h
2G1316 <u>Computer communication and computer networks</u>	4	C	24	18	-	4			3		
5A1230 <u>Wave Physics</u>	4	B	28	14	-	15				4	
5B1115 <u>Mathematics 1</u>	6	B	72	-	-	-	1				
5B1116 <u>Mathematics 2</u>	6	B	72	-	-	-		2			

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Media Technology

Media Technology MEDIA2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1A1996 <u>Communicative Spaces</u> <i>Under bearbetning</i>	4	C	-	-	-	-					
2D1320 <u>Applied Computer Science</u>	4	B	30	14	-	20	1	2			
2D1334 <u>Database Technology</u>	4	C	24	20	-	12			3		
2D1574 <u>Media Technology, Basic Course</u>	12	C	64	6	-	38	1	2			12 Study visit
4D1200 <u>Industrial Economics for Media Technology, Basic Course</u>	4	B	32	16	-	-				4	6 h Seminars
4F1224 <u>Electrical Engineering, Basic Course Media</u>	4	B	12	21	-	13				4	
4K1575 <u>Media Technology Programme Summary Course</u>	4	B	16	-	-	-	1	2	3	4	
5B1118 <u>Discrete Mathematics</u>	5	B	60	-	-	-		2			
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-			3		

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Media Technology

Media Technology MEDIA3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
3C1320 Environment and Technology	4	B	24	3	-	-			3		
4D1215 Media from Technology to Culture	4	C	12	-	-	-	1				12 h Seminars
4K1575 Media Technology Programme Summary Course	4	B	16	-	-	-	1	2	3	4	
Elective Courses											
2D1573 Telepresence Production <i>Under bearbetning</i>	4	C	20	-	-	-			3	4	

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Media Technology

Video and Film Production MEDIA3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1590 Media Perception	4	D	20	-	-	24			3		
2D1591 Production Technology for Moving Pictures	6	C	40	-	-	16				4	Project assignment 16h

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Engineering Physics

Engineering Physics F1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1339 Program Construction	5	B	30	24	-	34	1	2	3		
5A1205 Vector Analysis, Basic Course	4	B	24	24	-	-				4	
5A1210 Thermodynamics	4	B	26	14	-	10	1	2			
5A1230 Wave Physics	4	B	28	14	-	15		2	3		
5A1362 Environmental Physics	4	B	40	-	-	20			3	4	
5B1106 Calculus II, part 1	6	B	72	-	-	-	1	2			
5B1107 Calculus II, part 2	6	B	72	-	-	-			3		
5B1109 Linear Algebra II	5	B	60	-	-	-	1				
5C1103 Mechanics, Basic Course	6	B	48	27	-	-			3	4	

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Engineering Physics

Engineering Physics F2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2D1240 <u>Numerical Methods, Basic Course II</u>	4	B	28	14	-	18			3	4	
2H1308 <u>Electromagnetic Theory</u>	6	C	44	44	-	-	1	2			
4C1055 <u>Strength of Materials and Solid Mechanics, Basic Course</u>	6	B	42	40	-	2			3	4	
5A1245 <u>Modern Physics</u>	4	B	28	14	-	-		2	3		
5B1201 <u>Complex Analysis</u>	4	C	48	-	-	-	1				
5B1202 <u>Differential Equations and Transforms II</u>	6	C	72	-	-	-		2		4	
5B1506 <u>Mathematical Statistics, basic course</u>	6	C	36	48	-	-			3	4	
5C1113 <u>Mechanics, Continuation Course</u>	4	C	30	15	-	-	1				
Elective Courses											
5U1201 <u>Advanced Problems A</u>	4	C	-	48	-	-	1	2	3	4	

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Engineering Physics

Engineering Physics F3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
2B1507 Semiconductor Electronics	6	C	36	22	-	8	1	2			
2D1344 Fundamentals of Computer Science	4	B	24	24	-	24		2	3		
2E1200 Automatic Control, General Course	4	C	24	26	-	12	1				
5A1301 Mathematical Methods in Physics, Course I	4	C	-	54	-	-	1	2			
5A1450 Quantum Physics	11	C	60	48	-	40	1	2	3		
Elective with											
5A1326 Theory of Relativity	4	C	28	20	-	-			3		
5A1350 Statistical Mechanics	4	C	24	24	-	-				4	
5A1400 Subatomic Physics	4	C	36	-	-	-				4	
5B1712 Optimization	4	C	28	14	-	6			3		
5C1202 Fluid Mechanics, Introductory Course <i>Compulsory within competenceprogram Mechanics and Fluid mechanics.</i>	4	C	-	-	42	6			3		
Elective											
5U1201 Advanced Problems A	4	C	-	48	-	-	1	2	3	4	
5U1202 Advanced Problems B*_	4	D	-	36	-	-	1	2	3		

*The course has limited participation

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Engineering Physics

Mathematical Physics F4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
5A1310 Elementary Particle Physics	4	D	36	-	-	-				4	
5A1312 Astroparticle Physics	4	D	28	-	-	-		2			
5A1329 Quantum Mechanics, Intermediate Course	5	D	34	28	-	-	1	2			
5A1331 Classical Dynamical Systems <i>Not sure that the course is given 01/02.</i>	4	D	28	-	-	-			3		
5A1332 Advanced Quantum Mechanics, Course I	5	D	36	-	-	-	1	2			
5A1333 Advanced Quantum Mechanics, Course II	4	D	32	-	-	-			3		
5A1334 Differential Geometry in Physics	4	D	34	-	-	-			3		
5A1335 Symmetries in Physics	4	D	30	-	-	-	1	2			
5A1336 Quantum Dynamical Systems	4	D	30	-	-	-			3		
5A1337 Integrable Nonlinear Systems and Solitons <i>Not given 01/ 02.</i>	4	D	20	-	-	-			3		
5A1351 Non-equilibrium Statistical Mechanics	4	D	24	-	-	-				4	
5A1352 Complex Systems	4	D	24	-	-	-	1				
5A1354 Computational Physics	6	D	24	-	-	20		2			

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Engineering Physics

Physics F3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
5A1326 <u>Theory of Relativity</u>	4	C	28	20	-	-			3		
5A1350 <u>Statistical Mechanics</u>	4	C	24	24	-	-				4	
5A1400 <u>Subatomic Physics</u>	4	C	36	-	-	-				4	
5A1402 <u>Subatomic Physics, Extended Course</u> <i>The course can only be studied as a supplement to 5A1400.</i>	2	D	4	-	-	20				4	
5A1700 <u>Solid State Physics, General Course</u>	6	D	54	-	-	30			3	4	
5A1800 <u>Laser Physics I</u> <i>Given 01/02.</i>	4	D	24	12	-	-				4	

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Discrete Mathematics and Computer Science F4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1334 Database Technology	4	C	24	20	-	12			3		
2D1354 Algorithms and Complexity	4	C	30	18	-	-	1	2			
2D1365 Overview of Human-Computer Interaction	4	C	16	2	-	5		2			
2D1373 Artificial Languages and Syntax Analysis	4	D	24	-	-	16			3		
2D1375 Implementation of Programming Languages	4	D	2	-	-	-	1	2			
2D1378 Text and Image Processing <i>Will not be given academic year 01/02</i>	4	B	28	28	-	-					
2D1381 Industrial Applications of Artificial Intelligence <i>Not given the academic year 01/ 02.</i>	4	D	36	-	-	-	1	2			
2D1385 Software Engineering	4	C	24	12	-	18				4	
2D1406 Fundamentals of Human-Computer Interaction	4	D	18	5	2	-		2			
2D1410 User Centered Program Development*	6	D	40	-	-	14			3	4	
2D1420 Computer Vision, Basic Course	5	D	46	6	-	12			3		
2D1426 Robotics and Autonomous Systems	5	D	16	-	-	60				4	
2D1432 Artificial Neural Networks and Other Learning Systems	4	D	26	-	-	20			3		
2D1435 Mathematical Modelling of Biological Systems	6	D	26	-	-	20				4	
2D1440 Advanced Algorithms	4	D	30	-	-	-		2			
2D1446 Complexity Theory	4	D	30	-	-	-			3		
2D1449 Foundations of Cryptography <i>The course is given every second year. Will be given in 01/02.</i>	4	D	30	-	-	-				4	
2D1450 Algorithmic Bioinformatics	4	D	36	-	-	-				4	
2D1469 Database Theory	4	D	24	24	-	-	1				
2D1470 Object Oriented Database Systems	5	D	24	24	-	-				4	

2D1953 Graphics and Interaction Programming	4	C	30	6	-	28			3		
2D1954 Program Development Project	4	C	12	-	-	-			3	4	
2E1421 Signal Theory	4	C	24	30	-	4				4	
2G1119 Computer Hardware Basics	4	C	18	18	-	20	1	2			
2G1915 Concurrent Programming	5	C	36	-	-	24			3		
2I1130 Cognitive Psychology	4	B	30	12	-	-	1				
5B1455 Ordinary Differential Equations <i>Not given 01/ 02.</i>	4	D	36	-	-	-					
5B1456 Seminar Course in Mathematics I <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1457 Seminar Course in Mathematics II <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1458 Seminar Course in Mathematics III <i>Given 01/ 02.</i>	5	D	36	-	-	-	1	2			
5B1459 Seminar Course in Mathematics IV <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1464 Topology <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1466 Fourier Analysis <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1467 Algebra, Advanced Course <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1470 Analytic Functions <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1472 Functional Analysis <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1473 Elementary Differential Geometry <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1475 Combinatorics, Advanced Course <i>Given 01/ 02.</i>	5	D	36	-	-	-			3	4	
5B1479 Integration Theory <i>Given 01/ 02.</i>	5	D	36	-	-	-	1	2			
5B1490 Chaotic Dynamical Systems <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1491 Analytical and Numerical Methods for Partial Differential Equations <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1492 Linear Algebra, Advanced Course <i>Not given 01/ 02.</i>	5	D	36	-	-	-					
5B1814 Applied Mathematical Programming - Linear Problems	4	D	18	12	-	-		2			18 h Projektuppgift
5B1816 Applied Mathematical Programming - Nonlinear Problems	4	D	18	12	-	-			3		18 h Projektuppgift

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Mathematics and Computer Science F3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1250 Applied Numerical Methods II	6	C	-	-	60	24			3	4	
2D1385 Software Engineering	4	C	24	12	-	18				4	
5B1302 Algebra and Combinatorics, Basic Course	6	D	-	-	66	-			3	4	
5B1303 Analysis, Basic Course	6	D	-	-	66	-			3	4	
5B1306 Introductory Financial Mathematics	5	C	-	-	54	-				4	
5B1307 Linear Algebra, Basic Course	4	D	-	-	42	-			3		
5B1540 Probability Theory	5	D	24	30	-	-				4	
5B1712 Optimization	4	C	28	14	-	6			3		

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Mathematics F4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
5B1456 Seminar Course in Mathematics I Not given 01/ 02.	5	D	36	-	-	-					
5B1457 Seminar Course in Mathematics II Not given 01/ 02.	5	D	36	-	-	-					
5B1458 Seminar Course in Mathematics III Given 01/ 02.	5	D	36	-	-	-	1	2			
5B1459 Seminar Course in Mathematics IV Given 01/ 02.	5	D	36	-	-	-			3	4	
5B1464 Topology Not given 01/ 02.	5	D	36	-	-	-					
5B1466 Fourier Analysis Given 01/ 02.	5	D	36	-	-	-			3	4	
5B1467 Algebra, Advanced Course Given 01/ 02.	5	D	36	-	-	-			3	4	
5B1470 Analytic Functions Not given 01/ 02.	5	D	36	-	-	-					
5B1472 Functional Analysis Given 01/ 02.	5	D	36	-	-	-			3	4	
5B1473 Elementary Differential Geometry Not given 01/ 02.	5	D	36	-	-	-					
5B1475 Combinatorics, Advanced Course Given 01/ 02.	5	D	36	-	-	-			3	4	
5B1479 Integration Theory Given 01/ 02.	5	D	36	-	-	-	1	2			
5B1490 Chaotic Dynamical Systems Not given 01/ 02.	5	D	36	-	-	-					
5B1491 Analytical and Numerical Methods for Partial Differential Equations Not given 01/ 02.	5	D	36	-	-	-					
5B1492 Linear Algebra, Advanced Course Not given 01/ 02.	5	D	36	-	-	-					
5B1575 Financial Derivatives	5	D	-	-	48	-			3	4	
5B1712 Optimization	4	C	28	14	-	6			3		

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Engineering Physics

Optimization and Systems Theory F4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
1H1401 <u>Optimisation Models in Transport and Location Analysis</u>	5	D	27	12	-	6			3		6 h Seminars6h Seminars 6 h Seminars
2D1334 <u>Database Technology</u>	4	C	24	20	-	12			3		
2D1385 <u>Software Engineering</u>	4	C	24	12	-	18				4	
2E1252 <u>Control Theory and Practice, Advanced Course</u>	5	D	28	26	-	8			3		
5B1550 <u>Applied Mathematical Statistics</u>	5	D	-	-	60	-			3		
5B1575 <u>Financial Derivatives</u>	5	D	-	-	48	-			3	4	
5B1742 <u>Mathematical Systems Theory</u>	4	D	28	14	-	6	1				
5B1814 <u>Applied Mathematical Programming - Linear Problems</u>	4	D	18	12	-	-		2			18 h Projektuppgift
5B1816 <u>Applied Mathematical Programming - Nonlinear Problems</u>	4	D	18	12	-	-			3		18 h Projektuppgift
5B1822 <u>Mathematical Systems Theory, Advanced Course</u> <i>Not given 01/ 02.</i>	4	D	24	24	-	6					
5B1842 <u>Operations Research Methods</u>	4	D	32	16	-	-	1				
5B1846 <u>Applied Systems Engineering</u>	4	D	24	12	-	12		2			
5B1852 <u>Mathematical Economics</u>	4	D	32	16	-	-		2			
5B1872 <u>Optimal Control Theory</u>	4	D	30	14	-	6			3		

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Engineering Physics

Mechanics F3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Elective Courses											
2D1250 <u>Applied Numerical Methods II</u>	6	C	-	-	60	24			3	4	
2D1255 <u>Numerical Solutions of Differential Equations</u> <i>Not given during 01-02.</i>	5	D	36	-	-	20					
4B1111 <u>Fundamentals of Noise and Vibration Control T</u>	4	C	31	32	-	4		2			
4B1120 <u>Signal Analysis with Applications</u>	5	D	-	28	-	24				4	
4C1112 <u>Theory of Elasticity</u>	4	D	26	26	-	-			3		
4C1117 <u>Design Applications of Solid Mechanics*</u>	4	D	16	6	-	-				4	
4C1118 <u>Non-linear Theory of Elasticity</u>	2	D	12	12	-	-				4	
5C1203 <u>Fluid Mechanics, General Course</u> <i>Compulsory within competenceprogram Fluid Mechanics.</i>	4	C	-	24	24	3				4	

*The course has limited participation

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Studiehandboken

Utbildningsplaner

Kurser per program
(läro- och timplaner)Kurser per
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Beteckningar

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Nästa läsår (02/03)

Teknisk fysik

Teknisk fysik F4-

Kod Namn	Poäng	Nivå	F	Ö	Le	Lab	Perioder				Övrigt
							1	2	3	4	
Valfria kurser											
2A1132 Elektronfysik	4	C	36	-	-	4		2			
2A1133 Plasmafysik, utökad kurs	6	C	60	-	-	-	1	2	3		
2A1134 Elektronfysik, utökad kurs	6	C	60	-	-	4		2	3		8h studiebesök
2A1136 Teknisk plasmafysik	4	D	24	-	-	4				4	
2A1140 Accelerator- och strålningsteknik	4	D	36	-	-	4			3		
2A1145 Elektromagnetiska vågor i dispersiva media	4	D	24	-	-	-			3		
2A1151 Energi och fusionsforskning	4	D	24	12	-	-				4	
2A1160 Rymdfysik	3	D	12	-	-	-	1				
2A1170 Kaos och självorganisering	4	D	24	12	-	-	1				
2A1830 Tillämpad antennteknik	5	D	-	-	54	12			3	4	
2D1257 Visualisering	4	C	20	-	-	10			3		
2D1258 Introduktion till högprestandaberäkningar <i>Notera att kursen börjar i augusti.</i>	5	C	40	-	-	40	1				
2D1272 Fysikaliska beräkningar på högprestandadatorer <i>The course will not be on the central schedule.</i>	5	D	24	-	-	-				4	
2D1297 Avancerad individuell kurs i beräkningsteknik	4	D	-	-	-	-					
2D1360 Objektorienterad modellering, programmering och analys	6	C	40	14	-	38	1	2			
2D1385 Programutvecklingsteknik	4	C	24	12	-	18				4	
2D1387 Programsystemkonstruktion med C++	4	C	24	6	-	24	1				
2D1390 Internetprogrammering	4	C	28	-	-	26		2			
2D1392 Internets protokoll och principer*	5	C	35	21	-	32		2			
2D1413 Avancerad grafik och interaktion	6	D	50	-	-	12		2			
2D1418 Språkteknologi	4	D	42	-	-	12	1				
2D1441 Seminariekurs i teoretisk datalogi <i>Ges ej 01/ 02.</i>	4	D	30	-	-	-					
2D1464 Större avancerad individuell kurs i datalogi	6	D	-	-	-	-					

2D1465 Avancerad individuell kurs i datalogi	4	D	-	-	-	-					Ingen undervisning/ No instruction
2D1490 IP-routning inom enkla datornät*	5	D	32	8	-	32			3		
2D1491 IP-routning på internet och andra sammansatta nät*	5	D	32	8	-	32				4	
2F1111 Talteknologi	4	D	36	14	-	6			3		
2F1400 Elektroakustik	4	D	34	12	-	8	1				
2G1120 Datorteknik, fortsättningskurs	4	D	18	14	-	16	1				
2H1255 Elektromagnetisk vågutbredning	5	D	36	30	-	-			3	4	
2H1260 Antennteor	5	D	36	30	-	12			3	4	
2I1150 Kunskapsteori och vetenskapsteori	4	B	30	12	-	80	1				
2I1263 Internet applikationsprotokoll och standarder	4	B	24	-	-	20				4	Övrigt 120 h
4B1304 Järnvägssystem och spårfordon	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1313 Spårfordons dynamik	5	D	28	8	-	24			3		
4B1425 Fordonsdynamik, allmän kurs*	7	D	33	60	-	-			3	4	
4D1026 Industriell ekonomi och organisation, grundkurs för M	4	B	26	20	-	-		2			4 h Seminarier
4D1065 Industriell marknadsföring	4	C	36	12	-	-			3		
4D1220 Vetenskapshistoria för F	4	B	20	-	-	-			3	4	20 h Seminarier
4K1401 Teknikhistoria, allmän översikt	4	B	12	-	-	-			3		12 h Seminarier
5A1407 Acceleratorfysik och detektorteknik på CERN <i>Kursen är i huvudsak förlagd till CERN sommartid.</i>	5	D	35	15	-	-					Laborationer och studiebesök
5A1418 Simulering av fysikaliska system	5	B	-	-	-	-			3		
5A1440 Astrofysik <i>Ersätter 5U1994.</i> <i>Kursen ges av Institutionen för astronomi vid Stockholms universitet (Stockholms Observatorium).</i>	4	C	18	-	-	-			3		
5A1441 Stjärnornas struktur och utveckling <i>Ersätter 5U1995.</i> <i>Kursen ges av Institutionen för astronomi vid Stockholms universitet (Stockholms Observatorium).</i>	4	C	22	8	-	-				4	
5A1491 Femtokemi	5	D	36	-	-	-			3		
5A1581 Biomedicinsk bildfysik, projekt	2	D	2	-	-	-			3		Seminarier: 4 h
5A1590 Teknisk fotografi	5	C	20	-	-	36			3	4	
5B1306 Inledande finansiell matematik	5	C	-	-	54	-				4	
5B1307 Linjär algebra, grundkurs	4	D	-	-	42	-			3		
5B1308 Wavelets	4	D	24	-	-	-	1	2			Handledning 12 h
5U1201 Avancerad problemlösning A	4	C	-	48	-	-	1	2	3	4	
5U1202 Avancerad problemlösning B*	4	D	-	36	-	-	1	2	3		Två helger
7E1101 Medicinsk teknik, grundkurs	4	C	24	-	-	-	1				
7E1110 Kvalitet och regelverk för medicintekniska produkter	2	D	20	-	-	-				4	Studiebesök 5h
7E1112 Implantat och biomaterial	4	D	25	-	-	-				4	3h (studiebesök)
7E1113 Medicinsk mätteknik och signalbehandling	4	D	30	-	-	6				4	

7E1114 Strålterapeutisk fysik och biologi	4	D	40	-	-	-				4	Studiebesök/ Study visit 2 h
7E1115 Teknik i intensivvård och anestesi	4	D	12	-	-	-				4	30 +10 h (projektarbete med muntlig och skriftlig redovisning)
7E1120 Medicinsk teknik, grundkurs II	5	C	30	-	-	-	1				
7E1202 Systembiologi*₋	5	C	32	-	25	-		2			

*Kursen är platsbegränsad

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Civil Engineering

Civil Engineering V1

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1031 Ecology	4	B	24	20	-	-				4	8 h Field excursions, 3 h Workshop
1C1201 Basic Engineering Tools	4	B	27	30	-	-	1				25 h Computer
2D1311 Programming Technique with PBL	4	B	19	12	-	42	1	2			
3B1470 General Chemistry, Basic Course I	5	B	24	24	-	10				4	
5B1104 Calculus I, part 1	5	B	60	-	-	-		2			Workshop 21 h
5B1105 Calculus I, part 2	5	B	60	-	-	-			3		Workshop 21 h
5B1108 Linear Algebra I	4	B	48	-	-	-	1				Workshop 21 h
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-				4	Workshop 21 h
5C1103 Mechanics, Basic Course	6	B	48	27	-	-		2	3		

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Civil Engineering

Civil Engineering V2

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
1B1035 <u>Geosciences, part 1</u>	5	C	33	-	-	-				4	21 h Field excursions, 33 h Workshop	
1C1109 <u>Structural Mechanics I</u>	5	B	39	-	-	-			3		52 h Workshop52 h Workshop	
1C1115 <u>Structural Mechanics II</u>	5	C	42	-	-	-				4	56 h Workshop56 h Workshop	
1F1530 <u>Construction Economics and Management</u>	8	C	51	68	-	-	1	2				
2D1210 <u>Numerical Methods, Basic Course I</u>	4	B	24	24	-	24	1	2				
5A1215 <u>Electricity and Heat</u>	5	B	30	24	-	20			3		Workshop 24 h	
5B1501 <u>Probability Theory and Statistics</u>	4	C	24	36	-	-		2				
5C1114 <u>Mechanics, Continuation Course</u>	4	C	30	15	-	-	1					

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Civil Engineering

Civil Engineering V3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1045 Geosciences, part 2	5	C	49	-	-	16		2			42 h Workshop
1D1801 Building Materials and Building Physics	10	C	84	78	-	8	1	2			10 h Computer
1F1532 Construction Economics and Management <i>For students who has followed the first two years in Borlänge</i>	6	C	39	52	-	-	1				
1H1211 Road, Traffic and Urban Design <i>For students who has followed the first two years in Stockholm</i>	6	B	30	81	-	-	1				

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Civil Engineering

Civil Engineering V4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1N1401 Applied Contract Law	5	B	-	-	-	-			3		60 h Seminars
Elective Courses											
1B1336 Geological Processes - Field Course on Iceland	5	C	-	-	-	-					80 h ExkursionJuly-August, 5 weeks 80 h Exkursion
1B1820 Risk in Technical Systems	5	D	-	-	-	-					Project-course
1B1990 Developing Countries, Society and Technology	4	C	30	-	-	-	1	2			
1B1991 Management of Development Cooperation Projects	4	C	30	-	-	-			3	4	
1B1992 East- and Central Europe - Our Future Market	4	C	30	-	-	-	1	2			
1F1327 Management	5	D	30	30	-	-			3	4	
1F1385 Economics	5	B	33	27	-	-	1	2			
1F1446 Civil and Public Law	5	B	24	40	-	-		2	3		
1H1204 Logistics	5	C	6	-	-	-	1	2			12 h SeminarsProject-course, 12 h Seminars
1H1212 Logistics, Advanced Course	5	D	4	-	-	-			3		12 h SeminarsProject-course, 12 h Seminars
1H1601 Mathematics and Reality <i>The course will be given from academic year 01/02</i>	5	C	22	10	-	-			3		
1H1602 Good and Bad Science <i>The course will be given from academic year 01/02</i>	5	C	32	-	-	-			3	4	
1H1603 Technology and Etics <i>The course will be given from academic year 01/02</i>	5	C	24	-	-	-	1				6 h Seminars
1H1604 Philosophy of Risk <i>The course will be given from academic year 01/02</i>	5	C	18	-	-	-		2			12 h Seminars
1K14LV Architecture, Basic Course*	5	D	32	-	-	-				4	Seminars, Study-visits
1N1402 Civil and Public Law, continuation course	5	B	24	24	-	-				4	
2D1220 Applied Numerical Methods I	4	C	42	-	-	18			3	4	
2D1225 Numerical Solutions of Differential Equations	4	C	26	4	-	18	1	2			
2D1320 Applied Computer Science	4	B	30	14	-	20	1	2			
2D1320 Applied Computer Science	4	B	30	14	-	20			3	4	

2D1323 Computer Graphics and Interaction	4	C	42	-	-	12	1				
2D1378 Text and Image Processing <i>Will not be given academic year 01/02</i>	4	B	28	28	-	-					
4B1304 Railway Systems and Rail Vehicles	6	C	49	10	-	7	1	2			7 h Projektuppgift
4B1313 Rail Vehicle Dynamics	5	D	28	8	-	24			3		
5B1306 Introductory Financial Mathematics	5	C	-	-	54	-				4	

*The course has limited participation

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Civic Construction Engineering V3

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1B1431 Soil Mechanics and Foundation Engineering	5	C	43	-	-	4			3		34 h Workshop
1B1432 Rock Mechanics and Rock Engineering	5	C	40	-	-	2				4	35 h Workshop
Recommended Courses											
1C1103 Structural Mechanics III	5	D	33	-	-	-			3		4 h Computer, 40 h Workshop4 h Computer, 40 h Workshop
1C1305 Design of Building Structures	5	C	33	-	-	-				4	44 h Workshop
1D1804 Buildings and Indoor Climate	10	C	54	84	-	9			3	4	56 h Workshop, 3 Study visit
1H1213 Analysis and Design of Traffic Facilities	5	C	33	44	-	-				4	
1H1243 Traffic and Land-use Planning	5	C	-	-	77	-			3		
1H1308 Road and Street Engineering	5	C	33	44	-	-				4	
1H1402 Traffic Forecasting	5	C	28	-	-	56			3		4 h Seminars

Civic Construction Engineering V4

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1B1131 Hydraulic Engineering	5	D	33	-	-	-		2			33 h Workshop
1B1134 Water Resources Development	5	D	33	-	-	-			3		33 h Workshop
1B1234 Water Supply and Waste Water Handling	5	C	33	-	-	-				4	33 h Workshop
1B1334 Engineering Geology	5	D	27	-	-	-	1				24 h Field excursions, 27 h Workshop
1B1335 Advanced Engineering Geology	5	D	33	-	-	-			3		33 h Workshop
1B1434 Soil - Structure Interaction	5	C	33	-	-	-				4	33 h Workshop
1B1435 Soil and Rock Dynamics	5	D	33	-	-	-		2			33 h Workshop
1E1621 Geographic Information Technology for Civil Engineers	5	C	22	-	-	48	1				

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Construction Management V3

At least three of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1B1431 Soil Mechanics and Foundation Engineering	5	C	43	-	-	4			3		34 h Workshop
1B1432 Rock Mechanics and Rock Engineering	5	C	40	-	-	2				4	35 h Workshop
1C1103 Structural Mechanics III	5	D	33	-	-	-			3		4 h Computer, 40 h Workshop 4 h Computer, 40 h Workshop
1C1305 Design of Building Structures	5	C	33	-	-	-				4	44 h Workshop
1D1804 Buildings and Indoor Climate	10	C	54	84	-	9			3	4	56 h Workshop, 3 Study visit
1H1213 Analysis and Design of Traffic Facilities	5	C	33	44	-	-				4	
1H1243 Traffic and Land-use Planning	5	C	-	-	77	-			3		
1H1308 Road and Street Engineering	5	C	33	44	-	-				4	
1H1402 Traffic Forecasting	5	C	28	-	-	56			3		4 h Seminars

Construction Management V4

At least three of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1F1536 Leadership	5	D	-	-	66	-	1				
1F1540 Information Technology in Construction	5	D	-	-	66	-		2			
1F1547 Project Law	5	D	-	-	66	-			3		
1F1560 Project Management	5	D	-	-	66	-		2			
1F1563 Construction Management	5	D	-	-	66	-			3		
1F1565 Facilities Management	5	D	-	-	66	-				4	
1F1580 Construction Economics	5	D	-	-	66	-				4	

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Buildings and Buildings Services V3

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
1D1804 Buildings and Indoor Climate	10	C	54	84	-	9			3	4	56 h Workshop, 3 Study visit	
Recommended Courses												
1B1431 Soil Mechanics and Foundation Engineering	5	C	43	-	-	4			3		34 h Workshop	
1B1432 Rock Mechanics and Rock Engineering	5	C	40	-	-	2				4	35 h Workshop	
1C1103 Structural Mechanics III	5	D	33	-	-	-			3		4 h Computer, 40 h Workshop 4 h Computer, 40 h Workshop	
1C1305 Design of Building Structures	5	C	33	-	-	-				4	44 h Workshop	

Buildings and Buildings Services V4

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1D1111 Building Materials, Advanced Course	5	D	33	-	-	-	1				21 h Seminars, 8 h Workshop, 20 Study visit
1D1112 Fire in Buildings	5	C	21	-	-	1			3		9 h Seminars, 8 h Computer, 15 h Workshop, 2 Study visit
1D1113 Life Cycle Analysis and Environmental Impact in Building	5	C	54	-	-	-				4	12 h Seminars, 4 h Workshop
1D1211 Building Technology, Advanced Course	5	D	33	44	-	-		2			
1D1243 Building Acoustics	5	C	29	-	-	4	1				31 h Workshop
1D1311 Building Services Engineering, Advanced Course	5	D	33	31	-	9		2			4 Study visit
1D1313 Indoor Climate	5	C	20	-	-	8			3		24 h Workshop, 20 Study visit
1D1314 Simulation	5	D	22	-	-	-			3		55 h Computer
1D1316 Industrial Ventilation	5	C	36	24	-	-	1	2			12 Study visit
1D1806 Building Operation and Maintenance	5	D	40	14	-	-				4	10 h Seminars, 2 Study visit
1D1808 Building Damages	5	C	32	-	-	-				4	18 h Seminars, 6 h Workshop, 8 Study visit

Buildings and Buildings Services V5

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1D1316 Industrial Ventilation	5	C	36	24	-	-	1	2			12 Study visit

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Structural Engineering V3

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Compulsory Courses												
1C1103 <u>Structural Mechanics III</u>	5	D	33	-	-	-				3		4 h Computer, 40 h Workshop 4 h Computer, 40 h Workshop
1C1305 <u>Design of Building Structures</u>	5	C	33	-	-	-				4		44 h Workshop
Recommended Courses												
1B1431 <u>Soil Mechanics and Foundation Engineering</u>	5	C	43	-	-	4				3		34 h Workshop
1B1432 <u>Rock Mechanics and Rock Engineering</u>	5	C	40	-	-	2				4		35 h Workshop
1D1804 <u>Buildings and Indoor Climate</u>	10	C	54	84	-	9				3	4	56 h Workshop, 3 Study visit

Structural Engineering V4

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Recommended Courses												
1C1116 Structural Dynamics	5	D	33	-	-	-		2			44 h Workshop44 h Workshop	
1C1117 Finite Element Methods	5	D	33	-	-	-	1				44 h Workshop44 h Workshop	
1C1204 Structural Design of Bridges	5	D	33	-	-	-				4	44 h Workshop	
1C1205 Bridge Structures	5	D	33	-	-	-			3		44 h Workshop	
1C1206 Railway Track Engineering	5	D	33	-	-	-			3		44 h Workshop	
1C1302 Light-weight Structures	5	D	33	-	-	-				4	44 h Workshop	
1C1304 Steel Structures	5	D	33	-	-	-			3		44 h Workshop	
1C1401 Concrete Structures	5	D	33	-	-	-	1				44 h Workshop	
1C1402 Concrete Infrastructures	5	D	33	-	-	-		2			44 h Workshop	
1C5020 Finite Element Methods, Advanced Course <i>The course will not be given 2001/2002</i>	5	D	33	-	-	-					44 h Workshop	
1C5024 Stability of Structures <i>The course will not be given 2001/2002</i>	5	D	33	-	-	-					44 h Workshop	
1C5032 Structural Dynamics, Advanced Course <i>The course will not be given 2001/2002</i>	5	D	33	-	-	-					44 h Workshop	

1C5048 <u>Fracture Mechanics of Concrete and Steel</u> <i>The course will not be given 2001/2002</i>	5	D	33	-	-	-					44 h Workshop
1C5049 <u>FEM Modelling</u>	5	D	33	-	-	-		2			44 h Workshop44 h Workshop
1C5051 <u>Advanced Structure Dynamics, Modelling and Measurements</u>	5	D	33	-	-	-				4	44 h Workshop
1C5053 <u>Aluminium, the Material for the Future</u> <i>The course will not be given 2001/2002</i>	5	D	33	-	-	-					44 h Workshop

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Civil Engineering

Environmental Engineering and Sustainable Infrastructure V3

At least three of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Recommended Courses												
1B1431 Soil Mechanics and Foundation Engineering	5	C	43	-	-	4			3		34 h Workshop	
1B1432 Rock Mechanics and Rock Engineering	5	C	40	-	-	2				4	35 h Workshop	
1C1103 Structural Mechanics III	5	D	33	-	-	-			3		4 h Computer, 40 h Workshop 4 h Computer, 40 h Workshop	
1C1305 Design of Building Structures	5	C	33	-	-	-				4	44 h Workshop	
1D1804 Buildings and Indoor Climate	10	C	54	84	-	9			3	4	56 h Workshop, 3 Study visit	
1H1106 Planning for Housing, Workplaces and Services	5	C	-	-	66	-			3			
1H1151 Theory of Planning and Organization	5	D	-	-	33	-				4		
1H1160 Urban Ecology and Strategic Environmental Assessment	5	D	-	-	66	-				4		
1H1163 Social Planning	5	C	-	-	66	-				4		
1H1213 Analysis and Design of Traffic Facilities	5	C	33	44	-	-				4		
1H1243 Traffic and Land-use Planning	5	C	-	-	77	-			3			
1H1308 Road and Street Engineering	5	C	33	44	-	-				4		
1H1402 Traffic Forecasting	5	C	28	-	-	56			3		4 h Seminars	

Environmental Engineering and Sustainable Infrastructure V4

At least three of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1B1133 Applied Hydrology	5	D	29	29	-	-			3		
1B1233 Water and Waste Handling	5	C	-	-	77	-			3		
1B1291 Environmental Dynamics/Chemical Processes	5	D	30	8	-	16		2			8 h Exkursion
1B1292 Environmental Dynamics/Physical Processes	5	C	26	24	-	-		2			

1B1333 Environmental Geology and Geophysics	5	D	27	27	-	-				4	
1B1634 Environmental Impact Assessment	5	C	30	29	-	-	1				8 h Exkursion
1B1635 Quantitative Hydrogeology	5	D	20	14	-	21				4	20 h Field excursions
1B1640 Natural Resources Management	5	D	19	-	-	36				4	
1E1610 Environmental Data	5	D	18	2	-	38			3		
1F1462 Management of Land and Water	5	D	20	19	20	-				4	3 h Exkursion
1H1141 Urban Infrastructure	5	D	-	-	56	-				4	
1H1142 Political Economy for Environmental Planners	5	C	30	6	-	-	1				8 h Seminars
1H1143 Sustainable Urban and Rural Development	5	C	32	-	16	-		2			24 h Seminars, 8 h Exkursion
1H1146 Sustainable Project Management	5	C	35	-	-	30			3		15 h Field excursions
1H1501 Human Settlements and Housing	5	D	24	20	-	-		2			
1U1030 Theory of Science, Research Methodology and Excursions	5	D	29	-	-	-	1	2		4	40 h Exkursion Seminars 40 h Exkursion

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Environmental Resources Engineering V1

From the academic year 2001/2002

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1C1201 Basic Engineering Tools	4	B	27	30	-	-	1				25 h Computer
1U1002 Sustainable Development <i>The course will be given from 01/02</i>	4	B	20	-	-	-				4	12 h Seminars12 h Seminars
2D1311 Programming Technique with PBL	4	B	19	12	-	42	1	2			
3B1470 General Chemistry, Basic Course I	5	B	24	24	-	10				4	
5B1104 Calculus I, part 1	5	B	60	-	-	-		2			Workshop 21 h
5B1105 Calculus I, part 2	5	B	60	-	-	-			3		Workshop 21 h
5B1108 Linear Algebra I	4	B	48	-	-	-	1				Workshop 21 h
5B1200 Differential Equations and Transforms I	4	C	48	-	-	-				4	Workshop 21 h
5C1103 Mechanics, Basic Course	6	B	48	27	-	-		2	3		

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Urban Planning V3

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1H1106 Planning for Housing, Workplaces and Services	5	C	-	-	66	-			3		
1H1151 Theory of Planning and Organization	5	D	-	-	33	-				4	
Recommended Courses											
1H1141 Urban Infrastructure	5	D	-	-	56	-				4	
1H1160 Urban Ecology and Strategic Environmental Assessment	5	D	-	-	66	-				4	
1H1163 Social Planning	5	C	-	-	66	-				4	
1H1213 Analysis and Design of Traffic Facilities	5	C	33	44	-	-				4	
1H1243 Traffic and Land-use Planning	5	C	-	-	77	-			3		
1H1402 Traffic Forecasting	5	C	28	-	-	56			3		4 h Seminars

Urban Planning V4

At least one of the recommended courses should be read in the 3rd academic year

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other	
							1	2	3	4		
Recommended Courses												
1H1157 Urban and Regional Economics	5	D	-	-	66	-		2				
1H1160 Urban Ecology and Strategic Environmental Assessment	5	D	-	-	66	-				4		
1H1161 European Planning Systems <i>Given on demand</i>	5	D	-	-	-	-					Literature-studies, project	
1H1162 Urban Center Planning	5	D	-	-	77	-			3			
1H1170 Sustainable Cities	10	D	-	-	120	-	1					
1H1171 Urban Governance	5	D	-	-	66	-			3			
1H1172 Future Studies and Forecasts	5	D	-	-	36	-		2			30 h Computer	
1H1174 Planning for Regional Development	10	D	-	-	120	-				4		
1H1183 Spatial Planning with GIS	5	D	33	-	-	42			3			
1H1193 Project Work in Urban Planning <i>The course will not be given 2001/2002</i>	10	D	-	-	120	-						

1H1401 <u>Optimisation Models in Transport and Location Analysis</u>	5	D	27	12	-	6			3		6 h Seminars6h Seminars 6 h Seminars
1N1501 <u>Territorial Strategies in a Networking Economy</u> <i>The course will be given from 01/02 and will be taught in Västerås.</i>	10	D	35	-	-	-			3	4	15 h Seminars, 10 h Workshop6h Tutorials 15 h Seminars, 10 h Workshop

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Traffic and Transport Infrastructure V3

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Compulsory Courses											
1H1213 <u>Analysis and Design of Traffic Facilities</u>	5	C	33	44	-	-				4	
1H1308 <u>Road and Street Engineering</u>	5	C	33	44	-	-				4	
1H1402 <u>Traffic Forecasting</u>	5	C	28	-	-	56			3		4 h Seminars
Recommended Courses											
1B1431 <u>Soil Mechanics and Foundation Engineering</u>	5	C	43	-	-	4			3		34 h Workshop
1B1432 <u>Rock Mechanics and Rock Engineering</u>	5	C	40	-	-	2				4	35 h Workshop
1H1106 <u>Planning for Housing, Workplaces and Services</u>	5	C	-	-	66	-			3		
1H1141 <u>Urban Infrastructure</u>	5	D	-	-	56	-				4	
1H1151 <u>Theory of Planning and Organization</u>	5	D	-	-	33	-				4	
1H1160 <u>Urban Ecology and Strategic Environmental Assessment</u>	5	D	-	-	66	-				4	
1H1163 <u>Social Planning</u>	5	C	-	-	66	-				4	
1H1243 <u>Traffic and Land-use Planning</u>	5	C	-	-	77	-			3		

Traffic and Transport Infrastructure V4

Code Name	Credits	Level	Lec	Tut	Le	Lab	Periods				Other
							1	2	3	4	
Recommended Courses											
1H1162 Urban Center Planning	5	D	-	-	77	-			3		
1H1206 Planning of Railroad Traffic	5	C	-	-	66	-	1				
1H1214 Traffic in Urban Areas	5	C	33	44	-	-	1				
1H1215 Impact Analysis of Road Traffic Facilities	5	C	-	-	77	-		2			
1H1240 Procedure in Physical Infrastructure <i>The course is to be completed after the practical trainee period.</i>	5	C	-	-	-	-					Project

<u>1H1306 Management and Maintenance of Traffic Channels</u> <i>The course will be given in concentrated form.</i>	5	D	-	-	80	-	2		
<u>1H1307 Computer-aided Highway Design</u>	5	D	15	36	-	-	3		21 h Computer
<u>1H1401 Optimisation Models in Transport and Location Analysis</u>	5	D	27	12	-	6	3		6 h Seminars6h Seminars 6 h Seminars

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