



Programme syllabus

[An accessible version of the syllabus can be found in the Course and programme directory.](#)

Degree Programme in Computer Engineering 180 credits

Högskoleingenjörsutbildning i datateknik, Flemingsberg

Valid for students admitted to the education from autumn 17 (HT - Autumn term; VT - Spring term).

This is a translation of the Swedish, legally binding, programme syllabus.

Programme objectives

Knowledge and understanding

Skills and abilities

Ability to make judgements and adopt a standpoint

Extent and content of the programme

Eligibility and selection

Implementation of the education

Courses

The programme is course-based. Lists of courses are included in appendix 1.

Grading system

Courses in the first and the second cycle are graded on a scale from A to F. A-E are passing grades, A is the highest grade. The grades pass (P) and fail (F) are used for courses under certain circumstances.

Appendix 1 - Course list

Appendix 2 - Programme syllabus descriptions



Appendix 1: Course list

Degree Programme in Computer Engineering (TIDAA)

General courses

Year 1

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
HE1026	Digital Electronics	6.0 hp	First cycle
HE1028	Computer Engineering	8.0 hp	First cycle
HF1005	Engineering and Information Skills	6.0 hp	First cycle
HF1006	Linear Algebra and Calculus in One Variable	10.0 hp	First cycle
HF1201	Sustainability and Ergonomics	6.0 hp	First cycle
HI1024	Computer Programming, Basic Course	8.0 hp	First cycle
HI1025	Operating Systems	7.0 hp	First cycle
HI1026	Computer Engineering and Internet Technology, Project Course	9.0 hp	First cycle

Optional courses

Code	Name	Credits	Edu. level
HF0009	Introduction to Mathematics	1.5 fup	Pre-university level
HF0010	Introduction to Computer Studies	1.5 fup	Pre-university level

Year 2

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
HE1031	Economics and Organizational Theory	7.0 hp	First cycle
HE1033	Communication Networks	7.0 hp	First cycle
HF1012	Mathematical Statistics	6.0 hp	First cycle
HF1013	Discrete Mathematics	8.0 hp	First cycle
HI1027	Object Oriented Programming	8.0 hp	First cycle
HI1028	Software Development, Project Course	9.0 hp	First cycle
HI1029	Algorithms and Data Structures	8.0 hp	First cycle
HI1030	Database Technology	7.0 hp	First cycle

Year 3

Mandatory courses (30.0 Credits)

Code	Name	Credits	Edu. level
HI1031	Distributed Information Systems	7.5 hp	First cycle
HI1032	Communication Systems	7.5 hp	First cycle
HI111X	Degree Project in Computer Engineering, First Cycle	15.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
HI1023	Network Security	7.5 hp	First cycle
HI1033	Mobile Applications and Wireless Networks	7.5 hp	First cycle
HI1034	Server Software Development	7.5 hp	First cycle
HI1036	Software Engineering, Project Course	7.5 hp	First cycle
HI1037	Internet's Domain Name System	7.5 hp	First cycle
HI2002	Routing in IP Networks	7.5 hp	Second cycle
IS1300	Embedded Systems	7.5 hp	First cycle



Appendix 2: Specialisations

Degree Programme in Computer Engineering (TIDAA)

This programme has no specialisations.