



Programme syllabus

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

Degree Programme in Civil Engineering and Urban Management 300 credits

Civilingenjörsutbildning i samhällsbyggnad

Valid for students admitted to the education from autumn 09 (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 Civil Engineering and Urban Management (CSAMH)

General courses

Year 1

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AI1137	Introduction to the Planning and Building Process	15.0 hp	First cycle
DD1311	Programming Techniques with PBL	6.0 hp	First cycle
SF1624	Algebra and Geometry	7.5 hp	First cycle
SF1625	Calculus in One Variable	7.5 hp	First cycle
SF1626	Calculus in Several Variables	7.5 hp	First cycle
SF1658	Trigonometry and Functions	7.5 hp	First cycle
SH1010	Physics for the Built Environment	9.0 hp	First cycle

Optional courses

Code	Name	Credits	Edu. level
AB1002	Introduction to Civil Engineering and Urban Management	1.5 hp	First cycle

Year 2

Mandatory courses (52.5 Credits)

Code	Name	Credits	Edu. level
AE1101	Natural Resources Theory	6.0 hp	First cycle
AE1102	Geology and Geotechnical Engineering	6.0 hp	First cycle
AF1002	Buildings and Civil Engineering Structures	7.5 hp	First cycle
AG1311	Graphic Information Systems	7.5 hp	First cycle
AI1107	Economics	7.5 hp	First cycle
AI1501	Planning, Building and Environmental Law	6.0 hp	First cycle
DN1214	Numerical Methods, Basic Course	6.0 hp	First cycle
SF1901	Probability Theory and Statistics	6.0 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
AG1102	Economic Geography	7.5 hp	First cycle
SG1107	Mechanics	7.5 hp	First cycle

Civil Engineering (AP)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AE1601	Fluid Mechanics for Architecture and Built Environment	7.5 hp	First cycle
AF1005	Structural Engineering, Basic Course	7.5 hp	First cycle
AF101X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AF1301	Building Materials, Basic Course	7.5 hp	First cycle
AF1402	Building Physics	7.5 hp	First cycle
AF1601	Soil Mechanics and Foundation Engineering	7.5 hp	First cycle
SG1801	Structural Mechanics, Basic Course	7.5 hp	First cycle

Building and Real Estate Economics (BFE)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AF1033	Building Technology and Building Services Engineering	7.5 hp	First cycle
AI101X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AI1108	Investment Analysis	7.5 hp	First cycle
AI1111	Real Estate Valuation	7.5 hp	First cycle
AI1142	Financial Reporting and Analysis	7.5 hp	First cycle
AI1515	Introduction to Swedish law, basic course	7.5 hp	First cycle
AI2119	Real Estate Management	7.5 hp	Second cycle

Construction Project Management (BPL)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AE1601	Fluid Mechanics for Architecture and Built Environment	7.5 hp	First cycle
AF1005	Structural Engineering, Basic Course	7.5 hp	First cycle
AF101X	Degree Project in Build Environment, First Cycle	15.0 hp	First cycle
AF1301	Building Materials, Basic Course	7.5 hp	First cycle
AF1402	Building Physics	7.5 hp	First cycle
AI1801	Construction Project Management	7.5 hp	First cycle
SG1801	Structural Mechanics, Basic Course	7.5 hp	First cycle

Geomatic Engineering (GMT)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AG1323	GIS for the Built Environment	7.5 hp	First cycle
AG1324	Photogrammetry and Remote Sensing	9.0 hp	First cycle
AG132X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AH1815	Introduction to GPS	7.5 hp	First cycle
AH1816	Geodetic Surveying II	9.0 hp	First cycle
DD1320	Applied Computer Science	6.0 hp	First cycle
DD1334	Database Technology	6.0 hp	First cycle

Architectural Engineering (HK)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AE1601	Fluid Mechanics for Architecture and Built Environment	7.5 hp	First cycle
AF1005	Structural Engineering, Basic Course	7.5 hp	First cycle
AF101X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AF1301	Building Materials, Basic Course	7.5 hp	First cycle
AF1402	Building Physics	7.5 hp	First cycle
AF1601	Soil Mechanics and Foundation Engineering	7.5 hp	First cycle
SG1801	Structural Mechanics, Basic Course	7.5 hp	First cycle

Real Estate Planning and Land Law (MFJ)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AH1812	Geodetic Surveying I	7.5 hp	First cycle
AI1108	Investment Analysis	7.5 hp	First cycle
AI1504	Real Estate Planning	7.5 hp	First cycle
AI1506	Land Law	7.5 hp	First cycle
AI1509	Law of Real Estate	7.5 hp	First cycle
AI150X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AI1515	Introduction to Swedish law, basic course	7.5 hp	First cycle

Land and Water Resources Engineering (MVT)

Year 3

Mandatory courses (52.5 Credits)

Code	Name	Credits	Edu. level
AE100X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AE1105	Environmental Soil Chemistry	7.5 hp	First cycle
AE1501	Environmental System Analysis for Built Environment	7.5 hp	First cycle
AE1601	Fluid Mechanics for Architecture and Built Environment	7.5 hp	First cycle
AE1602	Hydrology	7.5 hp	First cycle
AF1601	Soil Mechanics and Foundation Engineering	7.5 hp	First cycle

Conditionally elective courses

Code	Name	Credits	Edu. level
AE1104	Geoscience Engineering	7.5 hp	First cycle
SG1801	Structural Mechanics, Basic Course	7.5 hp	First cycle

Urban Planning (SP)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AG1103	Urban and Traffic Planning, Continuation Course	7.5 hp	First cycle
AG1104	Planning Theory, Basic Course	7.5 hp	First cycle
AG1105	Heritage Management in Urban Planning	7.5 hp	First cycle
AG110X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle
AH1021	Urban and Traffic Planning, Basic Course	7.5 hp	First cycle
AH1023	Urban and Traffic Planning, Methods and Applications	7.5 hp	First cycle
AI1504	Real Estate Planning	7.5 hp	First cycle

Traffic Engineering (TT)

Year 3

Mandatory courses (60.0 Credits)

Code	Name	Credits	Edu. level
AG1103	Urban and Traffic Planning, Continuation Course	7.5 hp	First cycle
AG1104	Planning Theory, Basic Course	7.5 hp	First cycle
AH1021	Urban and Traffic Planning, Basic Course	7.5 hp	First cycle
AH1022	Traffic and Road Engineering, Basic Course	7.5 hp	First cycle
AH1023	Urban and Traffic Planning, Methods and Applications	7.5 hp	First cycle
AH1024	Traffic Management and Operation	7.5 hp	First cycle
AH103X	Degree Project in Built Environment, First Cycle	15.0 hp	First cycle



Appendix 2: Specialisations

Degree Programme in Civil Engineering and
Urban Management (CSAMH)

Civil Engineering (AP)

No information entered.

Building and Real Estate Economics (BFE)

No information entered.

Construction Project Management (BPL)

No information entered.

Geomatic Engineering (GMT)

No information entered.

Architectural Engineering (HK)

No information entered.

Real Estate Planning and Land Law (MFJ)

No information entered.

Land and Water Resources Engineering (MVT)

No information entered.

Urban Planning (SP)

No information entered.

Traffic Engineering (TT)

No information entered.