

Mathematics

180 credits

Matematik, kandidatprogram

6KMAT

Valid from: 2015 Spring semester

Determined by

Board of Studies for Electrical
Engineering, Physics and Mathematics

Date determined

Entry requirements

Degree in Swedish
Filosofie kandidat, 180 hp

Curriculum

Semester 4 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TAOP07	Introduction to Optimization	6	G1X	3	C
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6	G2X	2	E
TATA64	Graph Theory	6*	A1X	2	E
THEN18	English	6*	G1X	4	E
TPPE98	Economic Analysis: Economic Theory	4	G2X	4	E
Period 2					
TAMS65	Mathematical Statistics, second course	6	G2X	2	C
TAOP24	Optimization, Advanced Course	6	G2X	1	C
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA64	Graph Theory	6*	A1X	2	E
THEN18	English	6*	G1X	4	E
TPPE24	Economic Analysis: Decision- and Financial Methodology	6	G2X	3	E
TPTE06	Industrial Placement	6	G1X	-	E

Specialisation: Additional courses

Course code	Course name	Credits	Level	Timetable module	ECV
Period 2					
TATA81	History of Mathematics	4	G1X	2	E

Specialisation: Applied Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6	G2X	2	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E

Specialisation: Computer Science

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6	G2X	2	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E

Specialisation: Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TATA54	Number Theory	6	G2X	2	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E

Specialisation: Modelling and Optimization in Economics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TPPE98	Economic Analysis: Economic Theory	4	G2X	4	E
Period 2					
TATA53	Linear Algebra, Honours Course	6*	G2X	-	E
TPPE24	Economic Analysis: Decision- and Financial Methodology	6	G2X	3	E

Semester 5 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA49	Geometry with Applications	6*	G1X	4	C
TATA77	Fourier Analysis	6	G2X	1	C
TDDC76	Programming and Data Structures	8*	G2X	2	C
TGTU56	Communication	2*	G2X	4	C
TAMS46	Probability Theory, Second Course	6	A1X	3	E
TATA55	Abstract Algebra	6*	G2X	3	E
TATA74	Differential Geometry	6*	G2X	3	E
TDDC17	Artificial Intelligence	6	G2X	3	E
TPPE13	Production and Operations Management	6	G2X	1	E
TPPE17	Corporate Finance	6	G2X	4	E
Period 2					
TATA49	Geometry with Applications	6*	G1X	4	C
TDDC76	Programming and Data Structures	8*	G2X	2	C
TGTU56	Communication	2*	G2X	4	C
TAMS17	Statistical Theory, advanced course	6	A1X	1	E
TAOP18	Supply Chain Optimization	6	A1X	1	E
TATA55	Abstract Algebra	6*	G2X	3	E
TATA74	Differential Geometry	6*	G2X	3	E
TDDD72	Logic	6	G1X	2	E
TEIO04	Project Management	6	G2X	2	E
TSDT18	Signals and Systems	6	G2X	3	E
TSIT02	Computer Security	6	G2X	2	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E

Specialisation: Applied Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA55	Abstract Algebra	6*	G2X	3	E
Period 2					
TATA55	Abstract Algebra	6*	G2X	3	E
TSDT18	Signals and Systems	6	G2X	3	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E

Specialisation: Computer Science

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA55	Abstract Algebra	6*	G2X	3	E
TDDC17	Artificial Intelligence	6	G2X	3	E
Period 2					
TATA55	Abstract Algebra	6*	G2X	3	E
TSIT02	Computer Security	6	G2X	2	E
TSKS11	Networks: Models, Algorithms and Applications	6	G2X	3	E

Specialisation: Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA55	Abstract Algebra	6*	G2X	3	E
Period 2					
TATA55	Abstract Algebra	6*	G2X	3	E

Specialisation: Modelling and Optimization in Economics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TPPE13	Production and Operations Management	6	G2X	1	E
TPPE17	Corporate Finance	6	G2X	4	E
Period 2					
TAOP18	Supply Chain Optimization	6	A1X	1	E

Semester 6 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TATA27	Partial Differential Equations	6	A1X	2	E
TATA78	Complex Analysis, second course	6*	A1X	2	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TSIT04	The Language of Mathematics	4*	G1X	3	E
TSRT12	Automatic Control	6	G2X	1	E
Period 2					
TGTU76	Philosophy of Science	6	G1X	4	C
TQXX10	Degree project - Bachelor's Thesis	16	G2X	-	C
TATA78	Complex Analysis, second course	6*	A1X	3	E
TDDD12	Database Technology	6	G2X	4	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TSIT04	The Language of Mathematics	4*	G1X	3	E
TSKS10	Signals, Information and Communication	4	G2X	3	E

Specialisation: Applied Mathematics

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
TSRT12	Automatic Control	6	G2X	1	E

Specialisation: Computer Science

Course code	Course name	Credits	Level	Timetable module	ECV
Period 2					
TDDD12	Database Technology	6	G2X	4	E

ECV = Elective / Compulsory / Voluntary

*The course is divided into several semesters and/or periods