

Mathematical Statistics

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	08/09 sp4
				S.Ex. stud.					
FMSN05	3	A	E, Pi	X	E	International Project Course-Mathematical Modelling	X	KS KE U W	
FMS086	7.5	G2	B, K	-	S	Mathematical Statistics		KS KE U W	
FMS601	4.5	G1	IBYA, IBYI, IBYV	-	S	Mathematical Statistics		KS KE U W	
FMS035	7.5	G2	M, MD	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMS140	7.5	G2	W	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMS091	7.5	A	D, E, F, I, Pi	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W	
FMS012	9	G2	I	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMS012			Pi						
FMS110	7.5	A	D, E, F, I, Pi	X	E1	Non-Linear Time Series Analysis		KS KE U W	
FMSF01	3	G2	M, Y	-	S	Mathematical Statistics	X	KS KE U W	
EMS032	7.5	G2	V	-	S	<i>Mathematical Statistics, Basic Course</i>		KS KE U W	Examinations only
FMS032			L						
FMSN01	7.5	A	Pi	X	E1	Statistical Genetics		KS KE U W	
FMS150	7.5	A	C, D, E, F, L, Pi	X	E2	Statistical Image Analysis		KS KE U W	
FMS155	7.5	A	D, E, I, Pi, RH	X	E2	Statistical Modelling of Extreme Values		KS KE U W	
FMS072	7.5	G2	D, E, F, M, MWIR, N, Pi, Y	X	E2	Design of Experiments		KS KE U W	
FMSF05	7.5	G2	I, Pi	-	E2	Probability Theory		KS KE U W	
FMS170	9	A	B, C, D, E, E, I, K, L, M, N, Pi, RH, V, W	X	E1	Valuation of Derivative Assets	X	KS KE U W	1
FMS161	7.5	A	B, C, D, E, E, I, K, L, M, N, Pi, RH, V, W	X	E1	Financial Statistics	X	KS KE U W	1
FMS180	6	G2	C, D, E, F, I, L, M, Pi	-	S	Markov Processes		KS KE U W	1

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EMS051	7.5	A	C , D , E , F , I , L , Pi	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	1
EMS045	6	G2	C , D , E , F , I , L , M , MWIR	X	S	Stationary Stochastic Processes	X	KS KE U W	
EMS045			C , D , E , F , I , L , M , MWIR , Pi				X		1
EMS047	3	A	D , E , I , Pi	-	S	Stationary Stochastic Processes, Project Work		KS KE U W	1
EMS065	7.5	G2	C , M , N , Pi , RH , V	-	E2	Statistical Methods for Safety Analysis		KS KE U W	1

[EMS05](#) ([E](#), [Pi](#)) International Project Course-Mathematical Modelling: *Begränsat deltagarantal. Spec. ansökningsförfarande.*

[FMSF01](#) ([M](#)) Mathematical Statistics: *Kursen kan endast ingå i avkortad CIM.*

[FMSF01](#) ([V](#)) Mathematical Statistics: *Kursen ingår endast i TVOLY.*

[FMS170](#) ([B](#), [C](#), [D](#), [E](#), [F](#), [I](#), [K](#), [L](#), [M](#), [N](#), [Pi](#), [V](#), [W](#)) Valuation of Derivative Assets: *Obligatorisk inom INEK i fördjupningskedjan Finansiering och risk.*

[FMS161](#) ([B](#), [C](#), [D](#), [E](#), [F](#), [I](#), [K](#), [L](#), [M](#), [N](#), [Pi](#), [V](#), [W](#)) Financial Statistics: *Obligatorisk inom INEK i fördjupningskedjan Finansiering och risk.*

[FMS045](#) ([C](#), [D](#), [E](#), [F](#), [I](#), [L](#), [M](#), [MWIR](#)) Stationary Stochastic Processes: *Kursen ges två gånger under läsåret 08/09.*

Mathematics

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	08/09 sp4
				S.Ex. stud.					
FMA430	6	G1	B, BI, K, L, N, V	-	S	Calculus in Several Variables	KS KE U W		
FMA430			C, D						
FMA430			E, I						
FMA430			E, M, MD, W						1
FMA170	6	A	C, D, E, F, L, Pi	X	E2	Image Analysis	KS KE U W		
FMA051	6	A	D, E, F, I, Pi	X	E1	Optimization	KS KE U W		
FMA661	7.5	G2	IDA	-	S	Probability Theory and Discrete Mathematics	KS KE U W		
FMA415	16.5	G1	BI	-	S	Calculus in One Variable	KS KE U W		
FMAA05	15	G1	E, E, I, L, Pi, V, W	-	S	Calculus in One Variable	KS KE U W		
FMAA05			MD						<i>Examinations only</i>
FMA260	7.5	A	D, E, F, Pi	X	E2	Functional Analysis and Harmonic Analysis	KS KE U W		
FMA140	6	A	D, E, F, I, Pi	X	E2	Non-Linear Dynamical Systems	KS KE U W		
FMA645	13.5	G1	IBYA, IBYL, IBYV, IDA, IDL	-	S	Calculus	KS KE U W		
FMAA01	15	G1	C, D, M, MD	-	S	Calculus in One Variable	KS KE U W		
FMAA01			B, K, N						1
FMA085	4.5	G1	N, Pi	-	S	Mathematical Communication	KS KE U W		1
FMA175	3	A	C, D, E, E, Pi	X	E1	Image Analysis, Project	KS KE U W		
FMA420	6	G1	C, Pi, W	-	S	Linear Algebra	KS KE U W		
FMA420			B, F, I, K, N						
FMA420			BI, E, L, V						

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				S.Ex. stud.					
FMA420			D						1
FMA045	4.5	G1	Pi	-	S	Mathematical Modelling		KS KE U W	
FMA145	3	A	D, E, F, I, Pi	X	E1	Non-linear Dynamical Systems, Project		KS KE U W	
FMA135	6	G1	C, D, E, F, Pi	X	E2	Geometry		KS KE U W	
FMA421	9	G1	M, MD	-	S	Linear Algebra with Scientific Computation		KS KE U W	
FMA250	7.5	A	D, E, F, Pi	X	E2	Partial Differential Equations with Distribution Theory		KS KE U W	
FMAF10	5	G2	C, D, L	-	S	Applied Mathematics - Linear systems	X	KS KE U W	
FMA270	6	A	C, D, E, F, Pi	X	E2	Computer Vision		KS KE U W	
FMA240	6	G2	D, E, F, I, Pi	X	E2	Linear and Combinatorial Optimization		KS KE U W	
FMA111	6	A	D, E, F, Pi	-	S	Mathematical Structures		KS KE U W	
FMAF01	7	G2	F, N, Pi	-	S	Mathematics - Analytic Functions		KS KE U W	
FMAF01			C, D, E, I, M				X		
FMA190	6	A	C, D, E, F, Pi	X	E2	Algebra		KS KE U W	1
FMA021	7.5	A	E, F, N, Pi	-	S	Applied Mathematics		KS KE U W	1
FMA062	7.5	G2	B, K, M, V, W	-	S	Applied Mathematics		KS KE U W	1

Course Code	Credits	Cycle	Programme	Language		Course Name	Links		08/09 sp4
				S.Ex. stud.			Footnote		
EMA435	7.5	G1	Pi	-	S	Calculus in Several Variables		KS KE U W	1
EMA200	6	A	D , E , F , Pi	X	E2	Calculus of Variations		KS KE U W	1
EMA120	6	A	C , D , E , F , I , L , M	-	S	Matrix Theory		KS KE U W	1
EMA120			Pi						
EMA023	3	A	E , N , Pi	-	E1	Applied Mathematics, Project	X	KS KE U W	1
EMA272	3	A	C , D , E , F , Pi	X	E1	Computer Vision, Project		KS KE U W	1
EMA091	6	G1	C , D , E , F , Pi	-	S	Discrete Mathematics		KS KE U W	1
EMAF05	7	G2	E , N , Pi	-	S	Mathematics - Systems and Transforms		KS KE U W	
EMAF05			C , D , E , I , M				X		1

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FMA656	4.5	G1	IBYA , IBYI , IBYV , IDA , IDL	-	S	Mathematics, Linear Algebra		KS KE U W	1
FMA125	3	A	D , E , F	-	E1	Matrix Theory, Project		KS KE U W	1
FMA125			Pi						

[FMAF10](#) (C) Applied Mathematics - Linear systems: *Endast en av kurserna [FMAF05](#) och [FMAF10](#) får ingå i examen.*

[FMAF10](#) (D) Applied Mathematics - Linear systems: *Kan bytas mot kurserna [FMAF01](#) samt [FMAF05](#). Kontakta studievägledare för mer information. Kurserna [FMAF10](#) och [FMAF05](#) kan inte samtidigt ingå i examen.*

[FMAF01](#) (D) Mathematics - Analytic Functions: *Kan tillsammans med [FMAF05](#) läsas i stället för [FMAF10](#). Kontakta programledare eller studievägledare för mer information. Ges också som valfri kurs i årskurs 4.*

[FMA023](#) (E, N, Pi) Applied Mathematics, Project: *Kursen fortsätter med ett redovisningstillfälle hösten 2009.*

[FMAF05](#) (C) Mathematics - Systems and Transforms: *Endast en av kurserna [FMAF05](#) och [FMAF10](#) får ingå i examen.*

[FMAF05](#) (D) Mathematics - Systems and Transforms: *Kan tillsammans med [FMAF01](#) läsas i stället för [FMAF10](#). Kontakta programledare eller studievägledare för mer information. Endast en av kurserna [FMAF05](#) och [FMAF10](#) får ingå i examen.*

Numerical Analysis

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language		Course Name	Footnote	Links	
FMNN01	7.5	A	E, F, M, Pi	X	E		Numerical Linear Algebra		KS KE U W	
FMN100	6	A	C, D, E, F, L, Pi	X	E1		Numerical Methods in CAGD		KS KE U W	
FMN091	7.5	A	E, M, Pi	X	E1		Finite Volume Methods		KS KE U W	
FMN130	7.5	A	B, F, I, K, Pi	X	E1		Numerical Methods for Differential Equations		KS KE U W	
FMN140	6	G2	V	-	S		Scientific Computing		KS KE U W	
FMN081	7.5	G2	M, V	X	E1		Numerical Methods in Mechanics		KS KE U W	
FMN041	6	G2	F	X	E1		Numerical Methods in Physics and Engineering		KS KE U W	
FMN011	6	G2	C, D, L	X	E1		Numerical Analysis		KS KE U W	1
FMN050	6	G2	E, I	X	E1		Numerical Analysis		KS KE U W	1

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Degree Projects of the Department

The list contains the degree projects which are given by the department and which programme each degree project is included in.

Links

Course Code	Credits	Programme	Course Name	Links
FMS820	30	C , D , E , F , I , Pi , RH	Degree Project in Mathematical Statistics for Engineers	U
FMA820	30	C , D , E , F , I , M , Pi	Degree Project in Mathematics for Engineers	U
FMN820	30	D , E , F , I , M , Pi	Degree Project in Numerical Analysis	U