

Mathematical Statistics

Course Code	Credits	Cycle	Programme	Language		Course Name	Links		09/10 sp4
				S.Ex. stud.			Footnote		
FMSN05	3	A	E, Pi	X	E	International Project Course-Mathematical Modelling	X	KS KE U W	
FMSN05			E, Pi				X		1
FMS086	7.5	G2	B, K, N	-	S	Mathematical Statistics		KS KE U W	
FMS140	7.5	G2	W	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMS091	7.5	A	D, E, E, I, Pi	X	E2	Monte Carlo and Empirical Methods for Stochastic Inference		KS KE U W	
FMSF10	7.5	G2	C, D, E, F, I, L, M, MWIR	X	E1	Stationary Stochastic Processes	X	KS KE U W	
FMS012	9	G2	I	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMS012			C, D						
FMS012			E						
FMS012			Pi						
FMS012			F						1
FMS110	7.5	A	D, E, E, 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	
FMS032	7.5	G2	L, Y	-	S	Mathematical Statistics, Basic Course		KS KE U W	
FMSN01	7.5	A	Pi	X	E1	Statistical Genetics		KS KE U W	
FMS150	7.5	A	C, D, E, F, 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	
FMSF05	7.5	G2	E, I, Pi	-	E2	Probability Theory		KS KE U W	
FMS170	9	A	E, I, L, Pi	X	E1	Valuation of Derivative Assets		KS KE U W	1

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
EMS072	7.5	G2	D, E, E, MWIR, N, Pi, W	X	E2	Design of Experiments		KS KE U W	1
EMS180	6	G2	C, D, E, E, I, Pi	-	S	Markov Processes		KS KE U W	1
EMS035	7.5	G2	M	-	S	Mathematical Statistics, Basic Course		KS KE U W	1
EMS051	7.5	A	C, D, E, E, I, L, Pi	X	E2	Mathematical Statistics, Time Series Analysis		KS KE U W	1
EMS045	6	G2	L, M	-	S	<i>Stationary Stochastic Processes</i>		KS KE U W	Examinations only
EMS045			C, D, E, I, MWIR, Pi				X		1
EMS047	3	A	D, I, Pi	-	S	Stationary Stochastic Processes, Project Work	X	KS KE U W	1

[EMS05](#) (E, Pi) International Project Course-Mathematical Modelling: *Begränsat deltagarantal. Spec. ansökningsförfarande. Kursen går inte i läsperioden utan i augusti.*

[FMSE10](#) (E) Stationary Stochastic Processes: *Endast en av kurserna [FMSE045](#) och [FMSE10](#) får ingå i examen.*

[FMSE10](#) (MWIR) Stationary Stochastic Processes: *Endast en av kurserna [FMSE045](#) och [FMSE10](#) får ingå i examen. / Only one of the courses [FMSE045](#) and [FMSE10](#) may be included in the degree.*

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

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

[FMS045](#) (E) Stationary Stochastic Processes: *Endast en av kurserna [FMS045](#) och [FMSE10](#) får ingå i examen.*

[FMS045](#) (I) Stationary Stochastic Processes: *Kursen är obligatorisk i teknikprofilen Matematisk modellering för antagna H07. Kursen är också valfri på programmet.*

[FMS045](#) (MWIR) Stationary Stochastic Processes: *Endast en av kurserna [FMS045](#) och [FMSE10](#) får ingå i examen. / Only one of the courses [FMS045](#) and [FMSE10](#) may be included in the degree.*

[FMS047](#) (I) Stationary Stochastic Processes, Project Work: *Kursen är obligatorisk i teknikprofilen Matematisk modellering för antagna H07. Kursen är också valfri på programmet.*

Mathematics

Course Code	Credits	Cycle	Programme	Language		Course Name	Footnote	Links	09/10 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	
FMA661	7.5	G2	IDA, IDL	-	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, F, I, L, Pi, V, W	-	S	Calculus in One Variable		KS KE U W	
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, IBYI, IBYV, IDA	-	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, F, 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, E, I, K, N						
FMA420			BI, E, L, V						
FMA420			D						1

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
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	
FMA051	6	A	D, E, F, I, Pi	X	E1	Optimization	X	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	B, C, D, K, L, M, W	-	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	E, N, Pi	-	S	Mathematics - Analytic Functions		KS KE U W	
FMAF01			C, D, E, I				X		
FMA130	6	A	D, E, F, Pi	X	E2	Analytic Functions, Advanced Course		KS KE U W	1
FMA021	7.5	A	E, F, M, N, Pi	-	S	Applied Mathematics		KS KE U W	1
FMA062	7.5	G2	W	-	S	Applied Mathematics		KS KE U W	1
FMA062			M						<i>Examinations only</i>
EMAN01	7.5	A	E, Pi, W	X	E2	Biomathematics		KS KE U W	1

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
EMA435	7.5	G1	Pi	-	S	Calculus in Several Variables		KS KE U W	1
EMA115	6	A	D , E , F , Pi	X	E2	Computer Algebra		KS KE U W	1
EMA120	6	A	C , D , E , F , I	-	S	Matrix Theory		KS KE U W	1
EMA120			Pi						
EMAF15	7.5	G2	B , K , M , V , W	-	S	Applied Mathematics - Partial Differential Equations		KS KE U W	1
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	

Course Code	Credits	Cycle	Programme	Language		Course Name	Links		09/10 sp4
				S.Ex. stud.			Footnote		
EMAF05			C, D, E, I				X		1
EMA656	4.5	G1	IBYA, IBYI, IBYV, IDA	-	S	Mathematics, Linear Algebra		KS KE U W	1
EMA125	3	A	D, E, F	-	E1	Matrix Theory, Project		KS KE U W	1
EMA125			Pi						

[EMA051](#) (I) Optimization: *Kursen är obligatorisk i teknikprofilen Matematisk modellering för antagna H07. Kursen är också valfri på programmet.*

[EMAF10](#) (C) Applied Mathematics - Linear systems: *Endast en av kurserna [EMAF05](#) och [EMAF10](#) får ingå i examen.*

[EMAF10](#) (D) Applied Mathematics - Linear systems: *Kan bytas mot kurserna [EMAF01](#) samt [EMAF05](#) (Båda måste läsas). Kontakta studievägledare för mer information. Kurserna [EMAF10](#) och [EMAF05](#) kan inte samtidigt ingå i examen.*

[EMAF01](#) (D) Mathematics - Analytic Functions: *Kan tillsammans med [EMAF05](#) läsas i stället för [EMAF10](#). Kontakta programledare eller studievägledare för mer information. Ges också som valfri kurs i årskurs 4.*

[FMA023](#) (F, N, Pi) Applied Mathematics, Project: *Kursen fortsätter med ett redovisningstillfälle hösten 2010.*

[EMAF05](#) (C) Mathematics - Systems and Transforms: *Endast en av kurserna [EMAF05](#) och [EMAF10](#) får ingå i examen.*

[EMAF05](#) (D) Mathematics - Systems and Transforms: *Kan tillsammans med [EMAF01](#) läsas i stället för [EMAF10](#). Kontakta programledare eller studievägledare för mer information. Endast en av kurserna [EMAF05](#) och [EMAF10](#) får ingå i examen.*

Numerical Analysis

Course Code	Credits	Cycle	Programme	S.Ex. stud.	Language	Course Name	Footnote	Links	09/10 sp4
FMN135	7.5	A	E, F, Pi	X	E1	Adaptive Methods for Differential Equations		KS KE U W	
FMNN01	7.5	A	E, F, Pi	X	E	Numerical Linear Algebra		KS KE U W	
FMN100	6	A	C, D, E, F, Pi	X	E1	Numerical Methods in CAGD		KS KE U W	
FMNN05	7.5	A	D, E, F, Pi	X	E1	Simulation Tools		KS KE U W	
FMNN10	8	A	E, I, Pi	X	E1	Numerical Methods for Differential Equations		KS KE U W	
FMN140	6	G2	V	-	S	Scientific Computing		KS KE U W	
FMNN15	4	A	Pi	X	E1	Multigrid Methods for Differential Equations		KS KE U	
FMN110	7.5	A	E, M, Pi	X	E1	Numerical Methods in Multibody Dynamics		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	X	KS KE U W	1
FMNF01	7.5	G2	M	X	E1	Numerical Analysis		KS KE U W	1

[FMN050](#) (I) Numerical Analysis: *Kursen är obligatorisk i teknikprofilen Matematisk modellering för antagna H07. Kursen är också valfri på programmet.*

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