Progress Toward Completion of the Mathematics Major

(Statistics Concentration)

Student's Name	Net ID	Faculty Advisor
Courses Needed to Complete the Major		Filled Out By
		Initials
		Date
Students must complete nine courses, as described in	in items 1–3 below, und	er the following constraints:
 At least two of the MATH courses taken must be at A course may be counted toward the major only if received for the course. No course may be used to satisfy more than one req 2-credit courses count as half courses. MATH courses numbered between 5000 and 5999 or 	it is taken for a letter grauirement for the major.	ade and a grade of C- or better i
1. Two Courses in Algebra.		Transfer Credit:
MATH 3320 Introduction to Number Theory	,	
MATH 3360 Applicable Algebra		
MATH 4310 Linear Algebra / 4330 H	onors Linear Algebra	
MATH 4320 Introduction to Algebra /	4340 Honors Introduction	on to Algebra
MATH 4370 Computational Algebra		
MATH 4500 Matrix Groups		
2. Two Courses in Analysis.		Transfer Credit:
MATH 3110* Introduction to Analysis		
MATH 3210 Manifolds and Differential Form	ms	
MATH 3230* Introduction to Differential Ed	quations	
MATH 4130* Honors Introduction to Analys	sis I	
MATH 4140 Honors Introduction to Analysi	s II	
MATH 4180* Introduction to the Theory of	Functions of One Comple	x Variable
MATH 4200 Differential Equations and Dyn	amical Systems	
MATH 4220* Applied Complex Analysis		
MATH 4240 Wavelets and Fourier Series		
MATH 4250 Numerical Analysis and Different	ential Equations [also CS	4210]
MATH 4260 Numerical Analysis: Linear and	d Nonlinear Problems [als	o CS 4220]
MATH 4280* Introduction to Partial Differe	ntial Equations	

^{*}Overlapping content: Students will receive credit for only one course in each group: (1) MATH 3110, 4130; (2) MATH 3230, 4280; (3) MATH 4180, 4220; (4) MATH 4310, 4330; (5) MATH 4320, 4340; (6) MATH 4710, ECON 3130 (formerly 3190), BTRY/ILRST/STSCI 3080 (formerly 4080); (7) MATH 4720, ECON 3130 (formerly 3190), BTRY 4090.

	bility	robability ar STSCI 320 nd Human F 782] esses I [also	nd statistics, 0] if taken s Population C [co-m	complementing spring 2013 or of Genomics neets with BTRY	earlier
One additional MATH course numbered 30 Two courses in other depts with significant BTRY 3020 Biological Statistics II [also NBTRY 4820 Statistical Genomics: Coalesc BTRY 6790 Probabilistic Graphical Mode CS 4780 Machine Learning [co-meets with ECON 3140 Econometrics (formerly ECO ORIE 3510 Introduction to Engineering Storale 4520 Introduction Int	content in process to	robability ar STSCI 320 nd Human F 782] esses I [also	nd statistics, 0] if taken s Population C [co-m	complementing spring 2013 or of Genomics neets with BTRY	earlier
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ORIE 4520 Introduction to Engineering St	ochastic Proc	_	STSCI 351	10]	
		esses II			
ORIE 4630 Operations Research Tools for	Financial En	gineering			
ORIE 4740 Statistical Data Mining I					
ORIE 5600 Financial Engineering with Sto	ochastic Calcu	ılus I			
ORIE 5610 Financial Engineering with Sto	ochastic Calcu	ılus II			
STSCI 3100 Statistical Sampling [also BT]	RY 3100, ILR	RST 3100]			
STSCI 3520 Statistical Computing [also B	TRY 3520]				
STSCI 4030 Applied Linear Statistical Mo	dels via Matr	ices [also B	TRY 4030]		
STSCI 4100 Multivariate Analysis [also B	TRY 4100, II	LRST 4100]			
STSCI 4110 Statistical Methods III: Categ	orical Data [a	lso ILRST	4110, co-me	eets with BTRY	6030]
STSCI 4140 Statistical Methods IV: Appli	ed Design [als	so BTRY 4	140, ILRST	4140]	
STSCI 4550 Applied Time Series Analysis	s [also ILRST	4550, ORI	E 5550]		
			(appro	ved by faculty a	dvisor)
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Credit / Study Abroad Courses Applied	to the Major	r			
umber &Title		Institutio	n	Require	ement
	ORIE 4740 Statistical Data Mining I ORIE 5600 Financial Engineering with Statistics Series 5610 Financial Engineering with Statistics Series 3100 Statistical Sampling [also Brack Series Serie	ORIE 4630 Operations Research Tools for Financial Entire Port 1988 (1988) Provided to the Ary Original Engineering With Stochastic Calculus (1988) Provided Engineering With Stochastic Calculu	ORIE 4630 Operations Research Tools for Financial Engineering ORIE 4740 Statistical Data Mining I ORIE 5600 Financial Engineering with Stochastic Calculus II ORIE 5610 Financial Engineer	ORIE 4600 Introduction to Financial Engineering ORIE 4630 Operations Research Tools for Financial Engineering ORIE 4740 Statistical Data Mining I ORIE 5600 Financial Engineering with Stochastic Calculus I ORIE 5610 Financial Engineering with Stochastic Calculus II ORIE 5610 Financial Engineering with Stoc	ORIE 4520 Introduction to Engineering Stochastic Processes II ORIE 4600 Introduction to Financial Engineering ORIE 4630 Operations Research Tools for Financial Engineering ORIE 4740 Statistical Data Mining I ORIE 5600 Financial Engineering with Stochastic Calculus I ORIE 5610 Financial Engineering with Stochastic Calculus II ORIE 5610 Statistical Sampling [also BTRY 3100, ILRST 3100] ORIE 575CI 3100 Statistical Computing [also BTRY 3520] ORIE 575CI 4030 Applied Linear Statistical Models via Matrices [also BTRY 4030] ORIE 575CI 4100 Multivariate Analysis [also BTRY 4100, ILRST 4100] ORIE 575CI 4110 Statistical Methods III: Categorical Data [also ILRST 4110, co-meets with BTRY 575CI 4140 Statistical Methods IV: Applied Design [also BTRY 4140, ILRST 4140] ORIE 575CI 4550 Applied Time Series Analysis [also ILRST 4550, ORIE 5550] (approved by faculty action of the Matrice of Study Abroad Courses Applied to the Major

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