Progress Toward Completion of the Mathematics Major

Economics Concentration

Arts and Sciences students may be admitted to the math major after successfully completing a semester of multivariable calculus, a semester of linear algebra, and a 3- or 4-credit computer programming course. To apply, visit math.cornell.edu/major.

Student's Name	Net ID	Faculty Advisor
Courses needed to complete the major		
		initials
		date
Math majors must complete 9 courses for the major, as describ course may be used to satisfy more than one requirement. MAT		
At least two of the MATH courses taken must be	at the 4000 level (or	above).
1. Two Courses in Algebra. (transfer credit applied, s	see reverse)	
MATH 3320 - Introduction to Number Theory		
MATH 3340 - Abstract Algebra*		
MATH 3360 - Applicable Algebra*		
MATH 4310 - Linear Algebra*	Disco	ntinued: MATH 4315*
MATH 4330 - Honors Linear Algebra*		
MATH 4340 - Honors Introduction to Algebra*		
MATH 4370 - Computational Algebra		
MATH 4500 - Matrix Groups		
MATH 4560 - Geometry of Discrete Groups		
2. Two Courses in Analysis. (transfer credit applied, s	see reverse)	
MATH 3110 - Introduction to Analysis*		
MATH 3210 - Manifolds & Differential Forms	Disco	ntinued: MATH 3230*
MATH 3270 - Introduction to Ordinary Different		
MATH 4130 - Honors Intro Analysis I*	-	
MATH 4140 - Honors Intro Analysis II		
MATH 4180 - Complex Analysis*		
MATH 4200 - Differential Equations and Dynam	nical Systems*	
MATH 4210 - Nonlinear Dynamics and Chaos*	•	
MATH 4220 - Applied Complex Analysis*		
MATH 4250 - Numerical Analysis and Different	ial Equations [also CS	S 4210]
MATH 4260 - Numerical Analysis: Linear & No		-
MATH 4280 - Introduction to Partial Differential	l Equations*	

^{*}See course descriptions at math.cornell.edu/upper-level-courses for information on forbidden overlaps.

Concentration in Economics. (transfer credit applies additional courses from (vii), (viii) and (ix) below.		
(vii) At least one MATH course numbered 3000 or abov	e:	
(viii) At least three ECON courses with significant mathe		
ECON 3130 - Statistics and Probability* or ECO		
ECON 3140 - Econometrics or ECON 6200 - Ec	onometrics II	
ECON 3810 - Decision Theory I		
ECON 3825 - Networks II: Market Design [also	CS 4852, INFO 4220]	
ECON 4020 - Game Theory I		
ECON 4022 - Game Theory II		
ECON 4110 - Cross Section and Panel Econome	trics	
ECON 4130 - Statistical Decision Theory		
ECON 4907 - The Economics of Asymmetric Inf	formation and Contracts	
ECON 6090 - Microeconomic Theory I		
ECON 6100 - Microeconomic Theory II		
ECON 6130 - Macroeconomics I		
ECON 6140 - Macroeconomics II		
Note: Undergraduate enrollment in ECON graduate of	courses requires permission of	instructor.
(ix) Courses in ORIE with significant mathematical cor	ntent dealing with material	of interest in economics
ORIE 3300 - Optimization I	ORIE 4740 - Statis	tical Data Mining I
ORIE 3310 - Optimization II	ORIE 4741 - Learn	ing with Big Messy Da
ORIE 4350 - Introduction to Game Theory	ORIE 5600 - Finan	cial Engineering with
ORIE 4580 - Simulation Modeling and	Stochastic Calculus	s I
Analysis	ORIE 5610 - Financial Engineering with	
ORIE 4600 - Introduction to Financial Engineering	Stochastic Calculus	5 11
	(app	roved by faculty adviso
nsfer Credit / Study Abroad Courses Applied to the		
rrse Number &Title	Institution	Requirement

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