ECONOMICS: MATHEMATICAL EMPHASIS

REQUIREMENTS

REQUIREMENTS FOR THE MATHEMATICAL EMPHASIS MATHEMATICS & STATISTICS

Code	Title	Credits
Mathematics		15-16
Option 1–four cou	rses:	
MATH 221	Calculus and Analytic Geometry 1	
MATH 222	Calculus and Analytic Geometry 2	
MATH 234	CalculusFunctions of Several Variables	
MATH 320	Linear Algebra and Differential Equations	
or MATH 340	Elementary Matrix and Linear Algebra	
Option 2–Honors	sequence:	
MATH 375	Topics in Multi-Variable Calculus and Linear Algebra	
MATH 376	Topics in Multi-Variable Calculus and Differential Equations	
Statistics (1 course)	3
ECON 310	Statistics: Measurement in Economics (Recommended)	
ECON 410	Introductory Econometrics	
MATH/STAT 431	Introduction to the Theory of Probability	
STAT/MATH 309	Introduction to Probability and Mathematical Statistics I	
STAT 311	Introduction to Theory and Methods of Mathematical Statistics I	
STAT 324	Introductory Applied Statistics for Engineers	
STAT 340	Data Science Modeling II	
Total Credits		18-19

ECONOMICS

30 credits to include:

Code	Title	Credits
Microeconomics	& Macroeconomics (complete one):	4-8
ECON 101 & ECON 102	Principles of Microeconomics and Principles of Macroeconomics	
ECON 111	Principles of Economics- Accelerated Treatment	
Intermediate Th	6-8	

ECON 301 & ECON 302	Intermediate Microeconomic Theory	
	and Intermediate Macroeconomic Theory	
ECON 311 & ECON 312	Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment (Honors Econ)	
Introductory Econo	ometrics	
ECON 410	Introductory Econometrics	4
Three Core ECON c		-12
ECON 409	Study Abroad in Advanced Economics	
ECON 435	The Financial System	
ECON 441	Analytical Public Finance	
ECON 442	Macroeconomic Policy	
ECON 448	Human Resources and Economic Growth	
ECON 450	Wages and the Labor Market	
ECON 451	The Economic Approach to Human Behavior	
ECON 455	Behavioral Economics	
ECON 458	Industrial Structure and Competitive Strategy	
ECON 460	Economic Forecasting	
ECON 461	International Macroeconomics	
ECON 464	International Trade	
ECON 467	International Industrial Organizations	
ECON 468	Industrial Organization and Imperfect Competition	
ECON 475	Economics of Growth	
ECON/ FINANCE 503	Markets with Frictions	
ECON 521	Game Theory and Economic Analysis	
ECON 522	Law and Economics	
ECON/R MI 530	Insuring Life's Risks: Health, Aging, and Policy	
ECON/ POP HLTH/ PUB AFFR 548	The Economics of Health Care	
ECON 570	Fundamentals of Data Analytics for Economists	
ECON 580	Honors Tutorial in Research Project Design	
ECON 621	Markets and Models	
ECON 623	Population Economics	
ECON 661	Issues in International Macroeconomics	
ECON 664	Issues in International Trade	
ECON 666	Issues in International Finance	
ECON 690	Topics in Economics	
ECON 695	Topics in Economic Data Analysis	

Electives

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	Complete any core these courses:	ECON course (above) or one of
	ECON/ FINANCE 300	Introduction to Finance
	ECON/ HIST SCI 305	Development of Economic Thought
	ECON/A A E/ REAL EST/ URB R PL 306	The Real Estate Process
	ECON 309	Study Abroad in Intermediate Economics
	ECON 315	Data Visualization for Economists
	ECON/ FINANCE 320	Investment Theory
	ECON 321	Sports Economics
	ECON 330	Money and Banking
	ECON/A A E/ ENVIR ST 343	Environmental Economics
	ECON 355	The Economics of Growing-up and Getting Old
	ECON 370	Economics of Poverty and Inequality
	ECON/AAE 371	Energy, Resources and Economics
	ECON 390	Contemporary Economic Issues
	ECON/REAL EST/ URB R PL 420	Urban and Regional Economics
	ECON/AAE 421	Economic Decision Analysis
	ECON/ENVIR ST/ POLI SCI/ URB R PL 449	Government and Natural Resources
	ECON/A A E/ INTL BUS 462	Latin American Economic Development
	ECON 465	The American Economy to 1865
	ECON/ HISTORY 466	The American Economy Since 1865
	ECON/AAE 473	Economic Growth and Development in Southeast Asia
	ECON/AAE 474	Economic Problems of Developing Areas
	ECON/AAE 477	Agricultural and Economic Development in Africa
	ECON/ PHILOS 524	Philosophy and Economics
	ECON/AAE 526	Quantitative Methods in Agricultural and Applied Economics
	ECON/A A E/ F&W ECOL 531	Natural Resource Economics
	ECON/SOC 663	Population and Society
	ECON/A A E/ ENVIR ST/ URB R PL 671	Energy Economics
T۸	tal Credits	

RESIDENCE AND QUALITY OF WORK

• 2.000 GPA in all major and ECON courses

0-10

- 2.000 GPA on 15 upper-level major courses taken in residence²
- 15 credits in ECON, taken on the UW–Madison campus

HONORS IN THE MAJOR REQUIREMENTS TO EARN HONORS IN THE ECONOMICS MAJOR

To earn Honors in the Major in Economics, students must be declared in and satisfy the requirements for the Economics–Mathematical Emphasis Option (above), **and** satisfy the following additional requirements:

• Earn a 3.300 University GPA

- Earn a 3.500 GPA for all ECON and major courses
- Complete the following courses, taken for Honors, with grades of B or better in each:

C	econ 311 & Econ 312	Title Intermediate Microeconomic Theory - Advanced Treatment and Intermediate Macroeconomic Theory - Advanced Treatment	Credits	
	ECON 580	Honors Tutorial in Research Project Design		
Select one of the following capstone experiences:				
	ECON 581	Honors Thesis		
	ECON 681 & ECON 682	Senior Honors Thesis and Senior Honors Thesis (Take for a total of 6 credits)		

FOOTNOTES

¹ At least two core ECON courses must be taken in residence at UW-Madison, and not via transfer or a UW-Madison Study Abroad program.

² Intermediate and Advanced level ECON courses are Upper Level in the major.

Total Credits