Economics and Mathematical Sciences (BS)

Major Academic Advisor: Kathleen Conway (Tepper 131)

Website: 
http://coursecatalog.web.cmu.edu/dietrichcollegeofhumanitiesandsocialsciences/undergraduateeconomicsprogram/#econmathtext

This major is a collaborative effort between the Department of Mathematical Sciences and the Undergraduate Economics Program. Combining advanced mathematics with advanced economic theory is the hallmark of this curriculum. The curriculum provides students with courses that complement and develop depth of understanding of economic theory, applied economics, and applied mathematics.

This degree offers an integrated curriculum, guiding students through a program of coursework that exploits and builds upon the synergies between mathematics and economics. It equips students with the mathematical tools that are essential for success in Ph.D. programs in economics, mathematics, and key functional areas of business including finance, accounting, marketing, and information systems. Students pursuing this degree will be well prepared for the beginning of their research careers in academia, government, and industry. There are a limited number of student slots in this program; interested students may apply as early as their sophomore year.

This is a suggested schedule for the first 2 years for a Primary Major.

The remainder of the Major and GenEd can be completed in the junior and senior year.

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<th>1st semester</th>
<th>2nd semester</th>
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<th>4th semester</th>
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| • 36-200 or 36-201, Statistics*  
 • Complete 1:  
   76-101, Interpretation & Argument  
   79-104, Global Histories  
   Freshman Seminar  
   • 99-101, C@CM  
   • 21-120, Diff. & Integral Calculus***  
   • 73-102, Principles of Microecon  
   • xx-xxx, Elective** | • Complete 2:  
   76-101, Interpretation & Argument  
   79-104, Global Histories  
   Freshman Seminar  
   • 21-256, Multivariate Analysis***  
   • 15-110, Principles of Computing  
   • 73-103, Principles of Macroecon | • 36-225, Intro. to Probability Theory  
 • 21-122, Integ., Diff. Eq. & Approx.  
 • 73-230, Intern. Microeconomics  
 • 21-127, Concepts of Mathematics  
 • xx-xxx, Elective** | • 36-226, Intro. to Prob. & Stats II  
 • 73-240, Intern. Macroeconomics  
 • 73-3xx, Adv. Economics Elective  
 • 21-241, Matrices & Linear Trans.  
 • 73-274, Econometrics 1 |

*Acceptable equivalents for 36-201/200 are: 36-207, 36-247 or 36-220  
**Electives: These spaces can be used for a pre-requisite course, another GenEd course, major course, or for a course you are interested in.  
***If required to start with 21-111, complete 21-112, then 21-256 or 21-259.