

# QUANTITATIVE ECONOMIC METHODS - CERTIFICATE

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The Quantitative Economic Methods certificate program prepares students for entry into an economics PhD program or highly quantitatively-oriented occupation such as economic consulting and research. Students select from a set of courses in the Statistics and Mathematics departments to broaden their understanding of the fundamental basis of advanced economics. In addition, students are required to take several intensive economics courses focused on mathematical and statistical topics. Students interested in this certificate are also strongly encouraged to participate in undergraduate research activities in the Department of Economics.

## Program Requirements

Code	Title	Semester Credit Hours
<b>Required courses</b>		
ECMT 475	Economic Forecasting <sup>1</sup>	3
ECON 460	Introduction to Mathematical Economics <sup>2</sup>	3
ECON 470	Data Science for Economic and Social Issues	3
Select three of the following: <sup>3</sup>		9
MATH 221	Several Variable Calculus	
MATH 300	Foundations of Mathematics	
MATH 304	Linear Algebra	
MATH 323	Linear Algebra	
MATH 409	Advanced Calculus I	
STAT 414	Mathematical Statistics I	
STAT 415	Mathematical Statistics II	
<b>Total Semester Credit Hours</b>		<b>18</b>

<sup>1</sup> ECMT 461 and ECMT 463 are prerequisites for this course.

<sup>2</sup> Completion of MATH 151 and higher is suggested when enrolling in this course.

<sup>3</sup> All MATH and STAT courses listed require a minimum of MATH 151 and MATH 152.