APPLIED ECONOMIC ANALYSIS (ADVANCED CERTIFICATE)

NYSED: 77315 **HEGIS:** 2204.00 **CIP:** 45.0601

Program Description

The department offers an advanced certificate in applied economic analysis with areas of study in economic development and international economics. The Advanced Certificate is only available to NYU master's students in economics. Participating students must take the required core courses (listed above) and complete the MA special project report. After receiving the MA degree, students may continue their studies to earn an advanced certificate with the opportunity to focus on one of the areas of study. A minimum of six specialized courses is required. When certain required courses are not offered, the department may substitute other appropriate courses to satisfy the requirements for the advanced certificate.

Admissions

This advanced certificate is only available to students in the Economics MA program. Please see an academic adviser for more information on this program.

Program Requirements

The program requires the completion of 12 credits, comprised of the following:

Course	Title	Credits
Required Courses		
ECON-GA 1603	Econ Development I (MA)	3
ECON-GA 3001	Topics in Economics:	2-4
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Electives		
Other Elective Credits		3
Total Credits		**12**

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
ECON-GA 1603	Econ Development I (MA)	3
ECON-GA 3001	Topics in Economics:	2-4
	Credits	**6**
2nd Semester/Term		
ECON-GA 3001	Topics in Economics:	2-4
Elective		3
	Credits	**6**
	Total Credits	**12**

Learning Outcomes

Upon successful completion of the program, graduates will:

1. Acquire skills in advanced economics, particularly mainstream macroeconomics and microeconomics. Students should acquire the analytical toolkit used in contemporary microeconomics and macroeconomics and be able to apply them to contemporary markets and economic systems.
2. Acquire skills in econometrics and statistics for quantitative research and analysis. They should acquire working knowledge of statistical techniques needed to understand econometric theory and academic literature, including random variables, mathematical expectations, estimation, inference, the regression model, multivariable regression analysis, hypothesis testing, specification analysis, instrumental variable models, simultaneous equation models, generalized method of moments, maximum likelihood estimation and machine learning.
3. Acquire skills in mathematical techniques. Students should acquire knowledge of appropriate mathematical methods required for optimization, constrained maximization and economic modeling.
4. Acquire skills in applied economic analysis and public policy analysis, with a focus upon Economic Development. In particular, students should be familiar with major theories related to growth and development, including analyses of the causes of the great differences in the wealth of nations, and they should appreciate contemporary debates about the most appropriate institutional arrangements and public policies to accelerate advances in living standards.

Policies

NYU Policies

University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

Graduate School of Arts and Science Policies

Academic Policies for the Graduate School of Arts and Science can be found on the Academic Policies page (https://bulletins.nyu.edu/graduate/arts-science/academic-policies/).