

# GRADUATE CERTIFICATE IN FINANCIAL MATHEMATICS

The graduate certificate in financial mathematics, offered through the Columbian College of Arts and Sciences Department of Mathematics, trains students in sophisticated mathematical techniques so they may analyze problems arising from financial economics. Examples include the use of stochastic processes and partial differential equations to study stock markets and to price financial derivatives.

Graduates will be well-positioned to advance careers in public, private, and governmental financial institutions with a heavy emphasis on analytic methods and quantitative skills. This two-year, 12-credit certificate is also ideal for those planning to pursue graduate programs in economics or finance and who wish to supplement their mathematical training.

This is a STEM-designated program.

Visit the program website (<https://math.columbian.gwu.edu/financial-mathematics-certificate/>) for additional information.

## ADMISSIONS

Visit the Columbian College of Arts and Sciences website for application requirements (<https://columbian.gwu.edu/application-requirements/>).

Supporting documents not submitted online should be mailed to:

Columbian College of Arts and Sciences, Office of Graduate Studies  
The George Washington University  
801 22nd Street NW, Phillips Hall 107  
Washington DC 20052

For additional information about the admissions process visit the Columbian College of Arts and Sciences Frequently Asked Questions (<https://columbian.gwu.edu/graduate-admissions-faq/>) page.

Contact for questions:

askccas@gwu.edu  
202-994-6210 (phone)  
Hours: 9:00 am to 5:00 pm, Monday through Friday

## REQUIREMENTS

This Bulletin covers the degree requirements for students matriculating in the current academic year. Students who matriculated before the current year can find their requirements in the relevant archived Bulletin (<https://bulletin.gwu.edu/archives/>).

Code	Title	Credits
<b>Required</b>		
MATH 6201	Real Analysis I	

MATH 6441 Introduction to Financial Mathematics

MATH 6442 Stochastic Calculus Methods in Finance

One of the following:

MATH 6202 Real Analysis II

MATH 6214 Measure and Integration Theory

MATH 6318 Applied Mathematics I

MATH 6330 Ordinary Differential Equations

MATH 6522 Introduction to Numerical Analysis

Alternate courses may be selected in consultation with the certificate program advisor.