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

Admission deadlines:
- Fall – July 1
- Spring - November 1

Recommendation required:
- (1) recommendation.

Prior academic records:
- Transcripts are required from all colleges and universities attended, whether or not credit was earned, the program was completed, or the credit appears as transfer credit on another transcript. Unofficial transcripts from all colleges and universities attended must be uploaded to your online application. Official transcripts are required only of applicants who are offered admission.

Statement of purpose:
- Not required.

For more information on the admission process, please visit the Columbian College of Arts and Sciences Frequently Asked Questions (http://columbian.gwu.edu/graduate/admissions/faqs/) page.

Supporting documents not submitted online should be mailed to:
Columbian College of Arts and Sciences - Graduate Admissions Office
The George Washington University
801 22nd Street NW, Phillips Hall 215
Washington DC 20052

Contact for questions:
askccas@gwu.edu – 202-994-6210 (phone) – 202-994-6213 (fax)
8:30 am - 5:30 pm, Monday through Friday

REQUIREMENTS

The following requirements must be fulfilled: 12 credits, including 9 credits in required courses and one 3-credit elective course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MATH 6201</td>
<td>Real Analysis I</td>
<td></td>
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<tr>
<td>MATH 6441</td>
<td>Introduction to Financial Mathematics</td>
<td></td>
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<tr>
<td>MATH 6442</td>
<td>Stochastic Calculus Methods in Finance</td>
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<td>One of the following:</td>
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<tr>
<td>MATH 6202</td>
<td>Real Analysis II</td>
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<tr>
<td>MATH 6214</td>
<td>Measure and Integration Theory</td>
<td></td>
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<tr>
<td>MATH 6318</td>
<td>Applied Mathematics I</td>
<td></td>
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<tr>
<td>MATH 6330</td>
<td>Ordinary Differential Equations</td>
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<tr>
<td>MATH 6522</td>
<td>Introduction to Numerical Analysis</td>
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Alternate courses may be selected in consultation with the certificate program advisor.