The Post-Baccalaureate Certificate in Quantitative Business Economics is designed for individuals interested in developing broad perspectives on the use of economics in evaluating business decision making. The certificate delivers high-demand skills such as time series and forecasting, managerial economics, policy evaluation, and the ability to develop and evaluate the models used for stress testing.

The P.B.C. in Quantitative Business Economics is composed of four courses that can be completed in as little as two semesters. Admission in either the fall or the spring semester is possible.

Completion of the P.B.C. in Quantitative Business Economics allows the the GMAT/GRE admission requirement for the Masters of Arts in Applied Economics to be waived; courses completed as part of the certificate program may count toward completion of the M.A. subject to the Graduate School policy on time limits for master's degrees.

Students may pursue a post-baccalaureate certificate concurrently with a master's degree in Applied Economics. Courses taken as part of the certificate program may also satisfy degree requirements subject to Graduate School policy. Certificates function similarly to a cognate, which is course work organized around a narrow subfield. Certificates provide master's students with the ability to earn enhanced credentials. Enrolled master's students do not have to pay the application fee to pursue a concurrent certificate.

Student Learning Outcomes

- **Microeconomic Theory.** Students will apply microeconomic theory to business decision making.
- **Prepare Data for Economic Analysis.** Manage, clean, and use data sets to construct descriptive, graphical, and statistical representations of economic phenomena. Diagnose and identify data issues.
- **Econometrics.** Students will apply time series econometric procedures in the empirical analysis of economic issues.

For information regarding deadlines and requirements for admission, please see [https://grs.uncg.edu/programs/](https://grs.uncg.edu/programs/).

### Certificate Program Requirements

**Required: 12 credit hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>ECO 625</td>
<td>Data Methods in Economics</td>
<td>3</td>
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<tr>
<td>ECO 657</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECO 663</td>
<td>Predictive Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>ECO 664</td>
<td>Time Series and Forecasting</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Credit Hours 12

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**e-Portfolio**

As a requirement for completion of the certificate, each student must successfully complete an e-Portfolio of significant assignments and final projects. The e-Portfolio demonstrates a student's cumulative program knowledge and fulfills the capstone requirement of the program. This body of work can be shared with prospective employers to help students distinguish themselves in the job market. Students must receive approval of their e-Portfolio from the Graduate Program Director in order to meet the graduation requirement.