ACTUARIAL SCIENCE, MBA

The Wharton actuarial science curriculum prepares students for professional certification as an actuary. The curriculum includes general business courses important for developing a strong, general understanding of the business environment, as well as quantitative courses in economics, accounting, computer science, and finance. The location of the actuarial science program within an internationally renowned business school provides students with an exceptional opportunity to blend studies in economic theory, financial strategies, general business principles, insurance company management, corporate risk management, and public policy. Students enrolling are expected to have undergraduate training in calculus and at least one course in statistics and probability theory. Students are encouraged, but not required, to take actuarial examinations organized by the Society of Actuaries or the Casualty Actuarial Society during their studies.

The Society of Actuaries and the Casualty Actuarial Society adopted a new examination system in 2007. Three topics (Applied Statistical Methods, Corporate Finance, and Economics) require Validation by Educational Experience (VEE). The Society of Actuaries has approved a large number of Wharton and Penn courses that satisfy the VEE requirements. A list of these approved courses can be found on the Society website.


For more information: https://statistics.wharton.upenn.edu/programs/mba/course-requirements-major-actuarial-science/

Curriculum

A minimum of 19 course units is required for graduation.

Major electives taken on a pass/fail basis cannot be counted toward the Actuarial Science major.

### Actuarial Science Major Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT/BEPP 851</td>
<td>Fundamentals of Actuarial Science I</td>
<td>1.0</td>
</tr>
<tr>
<td>STAT/BEPP 852</td>
<td>Fundamentals of Actuarial Science II</td>
<td>1.0</td>
</tr>
<tr>
<td>STAT/BEPP 853</td>
<td>Actuarial Statistics</td>
<td>1.0</td>
</tr>
<tr>
<td>BEPP 890</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>Select 1 course unit from the following:</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>BEPP 823</td>
<td>Business Insurance and Estate Planning</td>
<td></td>
</tr>
<tr>
<td>STAT 705</td>
<td>Statistical Computing with R</td>
<td></td>
</tr>
<tr>
<td>STAT 711</td>
<td>Forecasting Methods for Management</td>
<td></td>
</tr>
<tr>
<td>STAT 722</td>
<td>Predictive Analytics for Business (formerly STAT 622)</td>
<td></td>
</tr>
<tr>
<td>STAT 770</td>
<td>Data Analytics and Statistical Computing</td>
<td></td>
</tr>
</tbody>
</table>

### Electives

Select 4.5 course units of electives 4.5

### MBA Core Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Course Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 611</td>
<td>Fundamentals of Financial Accounting</td>
<td>0.5</td>
</tr>
<tr>
<td>ACCT 612</td>
<td>Accelerated Financial Accounting ^1</td>
<td></td>
</tr>
<tr>
<td>ACCT 613</td>
<td>Fundamentals of Financial and Managerial Accounting</td>
<td></td>
</tr>
</tbody>
</table>

### Finance ^2

#### Corporate Finance

Select one of the following: 0.5-1

- FNCE 611 Corporate Finance
- FNCE 612 Accelerated Corp Finance ^3
- FNCE 614 Corporate Finance (Half CU)

### Macroeconomics

Select one of the following: 0.5-1

- FNCE 613 Macroeconomics and the Global Economic Environment
- FNCE 615 Macroeconomics and the Global Economic Environment (Half CU)

### Legal Studies

- LGST 611 Responsibility in Global Management 0.5
- LGST 612 Responsibility in Business

### Microeconomics

- MGEC 611 Microeconomics for Managers: Foundations 0.5
- MGEC 612 Microeconomics for Managers: Advanced Applications 0.5

### Management

- MGMT 610 Foundations of Teamwork and Leadership 0.5
- MGMT 611 Managing Established Enterprises 1
- or MGMT 612 Management of Emerging Enterprises

### Marketing

- MKTG 611 Marketing Management 0.5
- MKTG 612 Dynamic Marketing Strategy 0.5
- or MKTG 613 Strategic Marketing Simulation

### OIDD

- OIDD 611 Quality and Productivity 0.5
- or OIDD 615 Operations Strategy

Select one of the following: 0.5

- OIDD 611 Quality and Productivity
- OIDD 612 Business Analytics
- OIDD 613 Online Business Models and the Information-Based Firm
- OIDD 614 Innovation
- OIDD 615 Operations Strategy

### Statistics

- STAT 613 Regression Analysis for Business ^5 1
- or STAT 621 Accelerated Regression Analysis for Business

### Management Communication

- WHCP 611 Management Communication 0.25

Select one of the following: 0.25

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<table>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>WHCP 612</td>
<td>Advanced Persuasive Speaking</td>
</tr>
<tr>
<td>WHCP 615</td>
<td>Communication Challenges for Entrepreneurs: &quot;Pitching your Business&quot;</td>
</tr>
<tr>
<td>WHCP 624</td>
<td>Persuasive Writing for Business Leaders</td>
</tr>
</tbody>
</table>

Total Course Units 9.5

1. ACCT 612 is by placement only.
2. Students cannot enroll in FNCE 614 and FNCE 615.
3. FNCE 612 is by placement only.
4. Students must take at least one of OIDD 611 and OIDD 615, and may take both to satisfy the requirement.
5. STAT 621 is by placement only.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2019 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.