

ACTUARIAL SCIENCE, BS

Actuarial science stands at the intersection of risk and money. Actuaries are experts in evaluating the likelihood and financial consequences of future events, designing creative ways to reduce the cost of undesirable events, and decreasing the impact of tragic events that do occur. They are in great demand by insurance companies, consulting firms, and financial institutions.

This concentration provides an intriguing blend of mathematics and business management for students with a strong mathematics aptitude. Ideally, students graduating from Wharton with an actuarial science concentration will be prepared to pass or will have passed many of the professional examinations given by the Society of Actuaries or the Casualty Actuarial Society.

For more information: <https://statistics.wharton.upenn.edu/programs/actuarialprogram/>

Actuarial Science Concentration

Code	Title	Course Units
BEPP/STAT 451	Fundamentals of Actuarial Science.	1
BEPP/STAT 452	Fundamentals of Actuarial Science I.	1
BEPP/STAT 453	Actuarial Statistics.	1
Select one ASCI elective ¹		1
Other Wharton Requirements		33
Total Course Units		37

¹ Students should take MATH 104 Calculus, Part I and MATH 114 Calculus, Part II before starting the ASCI concentration. STAT 430 Probability/STAT 431 Statistical Inference recommended in lieu of STAT 101 Introductory Business Statistics/STAT 102 Introductory Business Statistics.

Other Wharton Requirements

Code	Title	Course Units
First-Year Foundations		
ECON 010	Introduction to Economics for Business ¹	1
MATH 104	Calculus, Part I	1
	or MATH 110 Calculus for Wharton Students	
<i>Writing</i>		
	Critical Writing Seminar	1
Business		
	<i>Business Breadth (non-concentration courses)</i>	3
<i>Leadership Journey</i>		
WH 101	Business and You	0.5
WH 201	Management Communication: Persuasive Speaking and Writing for Business	0.5
WH 301	Teamwork and Interpersonal Influence	0.5
	Capstone Course/Project	0.5
<i>Fundamentals</i>		
ACCT 101	Accounting and Financial Reporting	1
ACCT 102	Strategic Cost Analysis	1
BEPP 250	Managerial Economics	1

FNCE 100	Corporate Finance	1
FNCE 101	Monetary Economics and the Global Economy	1
LGST 100	Ethics and Social Responsibility	1
	or LGST 101 Law and Social Values	
MGMT 101	Introduction To Management	1
MKTG 101	Introduction to Marketing	1
OIDD 101	An Introduction to Operations, Information and Decisions	1
STAT 101	Introductory Business Statistics	1
STAT 102	Introductory Business Statistics	1
<i>Global Economy, Business & Society</i>		
	One course unit required	1
<i>Technology, Innovation & Analytics</i>		
	One course unit required	1
Liberal Arts & Sciences		
Second semester-level foreign language		
<i>General Education Distribution</i>		
	Select 6 courses with at least 1 course unit in each of the following categories:	6
	Humanities	
	Natural Science, Math & Engineering	
	Social Science	
<i>Cross-Cultural Perspectives</i>		
	Select 3 courses ²	3
Unrestricted Electives		
	Select five courses	5
Total Course Units		33

¹ For students who take ECON 001 Introduction to Micro Economics and ECON 002 Introductory Economics: Macro in place of ECON 010 Introduction to Economics for Business of these courses can be slotted for ECON 010 on the worksheet. The second course may be used to fulfill a General Education Distribution or Unrestricted Elective requirement.

² Two can double-count as General Education Distribution courses.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2018 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.