Actuarial Science BBA

Overview

Located in the Department of Risk, Actuarial Science, and Legal Studies, the **Bachelor of Business Administration in Actuarial Science** provides students the opportunity to develop a strong foundation in mathematics and statistics while being exposed to a wide range of business disciplines. Temple's Actuarial Science major is one of only a few programs designated as a Center of Actuarial Excellence by the Society of Actuaries.

Actuaries specialize in the evaluation of insurance and financial risks. They hold positions of responsibility with insurance companies, consulting firms, investment banks, government regulatory organizations and government insurance programs. Actuaries must also pass a series of professional exams, administered by the Society of Actuaries and Casualty Actuarial Society, to receive the credential of Associate or Fellow. For more information, see the Licensure/Certification section below.

Campus Location: Main

Program Code: BU-AS-BBA

Student Professional Organization

Students should meet with the Program Director as soon as they enter the Actuarial Science program. In addition to their coursework and professional examinations, students are strongly encouraged to become active in the Sigma chapter of **Gamma lota Sigma** (GIS), Temple's national award-winning professional student organization in Risk Management, Insurance, and Actuarial Science. The organization hosts numerous guest speakers from the industry, sponsors a variety of career development seminars, and maintains a widely-distributed résumé book. For more information, please contact the GIS President at 215-204-9368 or visit www.sigmachapter.org.

Licensure/Certification

Being credentialed as an actuary is important for advancement in the actuarial profession and to become qualified to offer professional judgement on financial statements. These credentials of Associate and Fellow are national credentials and are recognized internationally as well. There is no state-specific actuarial credentialing or state-specific actuarial exams.

Actuaries must pass a series of professional exams administered by the Society of Actuaries and Casualty Actuarial Society which test the candidate's knowledge in probability, statistics, financial mathematics, insurance contractual design, and insurance company financial operations. Candidates completing a certain set of exams receive the designation of Associate under either society. Beyond that set, candidates completing an additional set of exams receive the designation of Fellow of either society.

Coursework in Temple's Actuarial Science program helps prepare students for several Associateship-level actuarial exams. Students can self-study for additional exams.

An additional component to becoming credentialed as an Associate is completing Validation by Educational Experience (VEE) requirements. Candidates can satisfy these requirements by completing an external course or taking college courses which have been approved by the Society of Actuaries and receiving a minimum grade of B-. Courses in Temple's Actuarial Science curriculum are approved by the Society of Actuaries as satisfying these VEE (Validation by Educational Experience) requirements.

https://www.soa.org/education/exam-req/edu-asa-req/

Contact Information

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Learn more about the Bachelor of Business Administration in Actuarial Science.

These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.

Summary of Requirements

University Requirements

All new students are required to complete the university's General Education (GenEd) curriculum.

Note that students not continuously enrolled who have not been approved for a Leave of Absence or study elsewhere must follow University requirements current at the time of re-enrollment.

College Requirements

Students are strongly encouraged to take the professional actuarial exams immediately after completing the relevant coursework. Students must meet the College Graduation Requirements for the Bachelor of Business Administration including the requirements of the major listed below. Students must attain a 2.0 cumulative GPA and 2.0 in the major to graduate with the Actuarial Science major.

Major Requirements

Students must follow the Major Requirements and College Requirements current at the time of declaration. Students not continuously enrolled who have not been approved for a Leave of Absence or study elsewhere must follow University, College, and Major requirements current at the time of re-enrollment.

Requirements of Actuarial Science Major

Code	Title	Credit Hours
AS 2502	Theory of Interest	3
AS 2503	Actuarial Corporate Finance ¹	3
AS 3501	Long-Term Actuarial Modeling	3
AS 3503	Short-Term Actuarial Modeling ²	3
AS 3596	Actuarial Practice: Property and Liability	3
or AS 3597	Actuarial Practice: Group & Health Benefits	
Select two of the following course	es:	6
AS 3502	Advanced Long-Term Actuarial Modeling	
AS 3580	Special Topics: Actuarial Science ³	
AS 4503	Advanced Short-Term Actuarial Modeling ³	
AS 4504	Advanced Actuarial Analytics ³	
RMI 3567	Managing International Risk	
Total Credit Hours		21

AS 2503 replaces FIN 3101 in the upper-division foundation. This course is not calculated in the major GPA.

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This is the major capstone, and all prerequisites must be met.

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Course only offered in Spring term.

Non-Business Required Courses

Code	Title	Credit Hours
MATH 1041	Calculus I ¹	4
MATH 1042	Calculus II ¹	4
AS 1501	Actuarial Probability ²	3
AS 2505	Actuarial Statistics ²	3
AS 3504	Actuarial Analytics ²	3
Total Credit Hours		17

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MATH 1041 & MATH 1042 replace the STAT 1001 & STAT 1102 requirements listed in the Fox School of Business & Management foundation course requirements. MATH 1041 also satisfies the Quantitative Literacy (GQ) General Education requirement.

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These courses replace STAT 2103 in the Fox School of Business & Management foundation course requirements.

Suggested Academic Plan

Bachelor of Business Administration in Actuarial Science Suggested Plan for New Students Starting in the 2023-2024 Academic Year

Please note that this plan is suggested only, ensuring prerequisites are met.

Year 1		
Fall		Credit Hours
MATH 1041	Calculus I	4
ECON 1101	Macroeconomic Principles	3
HRM 1101	Leadership and Organizational Management	3
ENG 0802 or ENG 0812 or ENG 0902	Analytical Reading and Writing or Analytical Reading and Writing: ESL or Honors Writing About Literature	4
GenEd Breadth Course		3
	Credit Hours	17
Spring		
MATH 1042	Calculus II	4
ECON 1102	Microeconomic Principles	3
BA 1103	Legal and Ethical Reasoning in Business	3
AS 1501	Actuarial Probability	3
IH 0851	Intellectual Heritage I: The Good Life	3
or IH 0951	or Honors Intellectual Heritage I: The Good Life	
	Credit Hours	16
Year 2		
Fall		
ACCT 2103	Financial and Managerial Accounting for Decision Making	4
AS 2502	Theory of Interest	3
AS 2505	Actuarial Statistics	3
RMI 2101	Introduction to Risk Management	3
IH 0852	Intellectual Heritage II: The Common Good	3
or IH 0952 Free Elective ¹	or Honors Intellectual Heritage II: The Common Good	1
Free Elective	Credit Hours	1 17
Spring	Credit nours	17
Spring AS 2503	Actuarial Corporato Financo	2
AS 3504	Actuarial Corporate Finance Actuarial Analytics	3
BA 2101	Professional Development Strategies	1
BA 2196	Business Communications	3
MKTG 2101	Marketing Management	3
MIS 2101	Digital Systems	3
WIIO 2101	Credit Hours	16
Year 3		
Fall		
MSOM 3101	Operations Management	3
Select one of the following: ²	-1 -0	3
BA 2501	Turning Numbers into Knowledge: Visualizing Data	
BA 2502	Business Analytics: Modern Data Science Techniques	
AS 3501	Long-Term Actuarial Modeling	3
Business Elective ³		3
GenEd Breadth Course		3
	Credit Hours	15

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Spring		
AS 3503	Short-Term Actuarial Modeling	3
Business Elective ³		3
Free Elective		3
Free Elective		2
Free Elective		2
	Credit Hours	13
Year 4		
Fall		
BA 4102	Strategic Management	3
Select one of the following:		3
AS 3596	Actuarial Practice: Property and Liability	
AS 3597	Actuarial Practice: Group & Health Benefits	
GenEd Breadth Course		3
GenEd Breadth Course		3
AS Major Elective #1: choos	e among the following courses:	3
AS 3502	Advanced Long-Term Actuarial Modeling	
AS 3580	Special Topics: Actuarial Science ⁴	
AS 4503	Advanced Short-Term Actuarial Modeling ⁴	
AS 4504	Advanced Actuarial Analytics ⁴	
RMI 3567	Managing International Risk	
	Credit Hours	15
Spring		
Business Elective ³		3
GenEd Breadth Course		3
GenEd Breadth Course		3
GenEd Breadth Course		3
AS Major Elective #2: choos	e among the following courses:	3
AS 3502	Advanced Long-Term Actuarial Modeling	
AS 3580	Special Topics: Actuarial Science ⁴	
AS 4503	Advanced Short-Term Actuarial Modeling ⁴	
AS 4504	Advanced Actuarial Analytics ⁴	
RMI 3567	Managing International Risk	
	Credit Hours	15
	Total Credit Hours	124

AS 1601 is highly recommended in this semester.

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Please check with your departmental advisor on which course is most appropriate for the major.

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2000-3999 electives can be selected from: ACCT, AS, BA, ECON, FIN, HRM, IB, LGLS, MIS, MKTG, RE, RMI, STAT, SCM, SGM. Please see your advisor for elective suggestions that match your career objectives.

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Course only offered in Spring term.