

Actuarial Science, M.S.

FOX SCHOOL OF BUSINESS AND MANAGEMENT

Learn more about the Master of Science in Actuarial Science.

About the Program

The Fox School of Business and Management has a longstanding tradition of preparing our students with the power to lead within the world of business. Actuaries specialize in the evaluation of insurance and financial risks and distinguish themselves through a combination of analytical skills, business acumen, and professionalism. Temple's Actuarial Science M.S. program prepares students for a successful career in the field through its rigorous coursework and exceptional opportunities for professional development. Our curriculum covers multiple professional actuarial exams and can be tailored to students' interests and background. We are recognized as a Center of Actuarial Excellence (CAE) by the Society of Actuaries and as a Global Center of Insurance Excellence (GCIE) by the International Insurance Society.

Time Limit for Degree Completion: 6 years

Campus Location: Main

Full-Time/Part-Time Status: The degree program can be completed on a full- or part-time basis.

Affiliation(s): Research interests of Fox faculty are supported by numerous centers and institutes throughout the Fox School and Temple University.

Accreditation: The M.S. in Actuarial Science is accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

Job Prospects: The Fox Center for Student Professional Development (CSPD) provides students with career coaching and professional development resources that support the job search. Actuaries hold positions of responsibility with consulting firms, government insurance programs, government regulatory organizations, insurance companies, and investment banks.

Non-Matriculated Student Policy: This program requires the student to be matriculated in the degree program.

Financing Opportunities: Citizens and permanent residents of the United States are considered domestic students and are typically eligible for federal student loans and alternative loans through private lenders. The Fox School grants 5% tuition scholarships to alumni who are admitted to the program. The program also offers merit- and need-based scholarships to eligible admitted students.

Admission Requirements and Deadlines

Application Deadline:

Fall:

- December 15 – Early Admissions Deadline
- March 1 – Scholarship Deadline and International Deadline
- June 30 – Final Deadline

Spring:

- August 1 – Scholarship Deadline and International Deadline
- November 1 – Final Deadline

Applications are reviewed as they are received and will be considered after the deadline on a space-available basis.

APPLY ONLINE to this Fox graduate program.

Letters of Reference:

Number Required: 2

From Whom: Professional references from an immediate supervisor, current or past, are preferred. Academic references are acceptable.

Bachelor's Degree in Discipline/Related Discipline: The equivalent of a four-year U.S. baccalaureate degree from an accredited university or college is required. For three-year degrees, mark sheets must be evaluated by WES or another NACES organization.

Statement of Goals: Essay prompts can be found in the online application portal.

Standardized Test Scores:

GRE/GMAT: Required. Scores for the GRE typically fall within the following percentile ranges: 50 to 99 Verbal; 80 to 99 Quantitative. Exam P may be accepted in place of GMAT/GRE.

Applicants who earned their baccalaureate degree from an institution where the language of instruction was other than English, with the exception of those who subsequently earned a master's degree in a country where the language of instruction is English, must report scores for a standardized test of English that meet these minimums:

- TOEFL iBT: 90
- IELTS Academic: 7.0
- Duolingo: 110
- PTE Academic: 68

Resume: Current resume or CV is required.

Transfer Credit: Upper-level graduate credits from an AACSB-accredited graduate business program, but not previously applied to a conferred degree, may be transferred into the M.S. program. The credits must be part of the required degree program at Temple University. To be transferred, the grade must be a "B" or better. The Admissions Committee makes recommendations for transferring credits to the department chair. The maximum number of credits a student may transfer is 6.

Program Requirements

General Program Requirements:

Number of Credits Required Beyond the Baccalaureate: 30

Required Courses:

Code	Title	Credit Hours
Core Courses ¹		
AS 5101	Theory of Interest	3
AS 5102	Actuarial Modeling I	3
AS 5104	Actuarial Modeling III	3
AS 5107	Advanced Theory of Interest	3
AS 5108	Actuarial Analytics	3
BA 5687	MS Advanced Professional Development Strategies	0
RMI 5101	Managing Human Capital Risk	3
RMI 5104	Managing Property and Liability Risk	3
Electives ²		9
Select three from the following:		
ACCT 5001	Accounting for Managerial and Investment Analysis and Planning	
AS 5103	Actuarial Modeling II	
AS 5105	Actuarial Economics	
AS 5106	Corporate Finance for Actuarial Science	
AS 5182	Independent Study ³	
ECON 8001	Microeconomic Analysis	
ECON 8002	Macroeconomic Analysis	
ECON 8009	Econometrics I	
ECON 8129	Time Series Econometrics	
ECON 8139	Panel Data Econometrics	
HCM 5101	Health Systems Organization and Development	
HCM 5103	Financial Management of Healthcare Organizations	
MKTG 5001	Marketing Management/Strategy	
RMI 5051	Managing Risk	
RMI 5102	Retirement Plans	
RMI 5108	Managing International Risk	
STAT 5602	Visualization: The Art of Numbers and the Psychology of Persuasion	
STAT 5603	Statistical Learning and Data Mining	
STAT 5607	Advanced Business Analytics	

STAT 8101	Stochastic Processes
STAT 8108	Applied Multivariate Analysis I
STAT 8114	Survival Analysis I
STAT 8115	Nonparametric Methods

Total Credit Hours **30**

¹ If the student passes an actuarial exam prior to taking its corresponding course, the core course must be waived:

- Passing the FM exam waives AS 5101 Theory of Interest.
- Passing the IFM exam waives AS 5107 Advanced Theory of Interest.
- Passing the LTAM exam waives AS 5102 Actuarial Modeling I.
- Passing the SRM exam waives AS 5108 Actuarial Analytics.
- Passing the STAM exam waives AS 5104 Actuarial Modeling III.

The waived course is replaced by an approved elective from the list above. Alternately, the student may, on a case-by-case basis, select another course as an elective, provided the course has sufficient academic rigor, is beneficial to the student's career, and is approved by the program director.

² Students may select alternate courses as electives with prior approval from the program director.

³ Selection of AS 5182 requires prior approval from the program director.

Culminating Events: Successful completion of coursework is required to earn the M.S. degree in Actuarial Science.

Contacts

Program Web Address:

<https://www.temple.edu/academics/degree-programs/actuarial-science-ms-bu-as-ms>

Department Information:

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Submission Address for Application Materials:

https://foxgraduate.force.com/ERx_Forms__Portal_Register?type=fox

Department Contacts:

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