



B.Sc. in Actuarial Science

Department of Mathematics
College of Science
University of Bahrain





What is Actuarial science and what does an actuary do?

Actuarial science is the quantification of risk - actuaries use tools from mathematics, statistics, economics and finance to measure and quantify risk. This is done by assessing the chances that things will happen to planning ways to potentially keep undesirable events from happening.

Interdisciplinary Program



MATHEMATICS

STATISTICS

ACCOUNTING

FINANCE

Curriculum

Consists of 128 credit hours in



Mathematics

Calculus I, II, III
Linear Algebra
Differential Equations

Statistics

Probability and
Statistics
Regression
Analysis
Time Series

Multivariate Analysis
Statistical Modeling

Curriculum

Consists of 128 credit hours in



Finance

Finance
Cooperate
Finance

Economics
Accounting

Actuarial Science

Financial
Mathematics

Lif Contingies
Loss Models

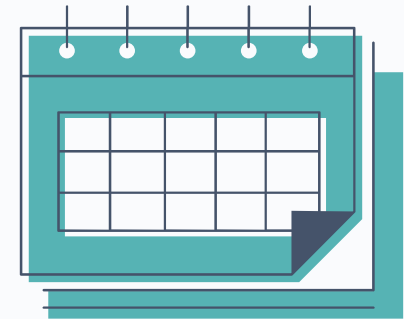
BSc in Actuarial Scienc



Theoretical
knowledge and
Applied Skills



Internship



Professional
Exams

Enrolment

Cohort	No of Students
2019	27
2020	14
2021	23
2022	25
Total	89



PROFESSIONAL EXAMS

The curriculum prepares students to pass most of the professional exams offered and organized by the two main societies in the United States, Society of Actuaries (SOA) and Casualty Actuarial Society (CAS) which enhances the program level and prepares students for future career upon graduation.

Moreover, the curriculum is built to fulfill all the requirements of Validation by Educational Experience (VEE) set by SOA in the topics of economics, applied statistics and corporate finance





**SOCIETY OF
ACTUARIES®**

- The University of Bahrain is recognized by the Society of Actuaries (SOA) as "UCAP– Introductory Curriculum (UCAP-IC)"
- Courses to prepare students for the following SOA actuarial exams:
 - Exam FM - Financial Mathematics
 - Exam IFM - Investment & Financial Markets
 - Exam P - Probability
- Approved coursework for the following VEE (Validation by Educational Experience) topics
 - Accounting & Finance
 - Economics

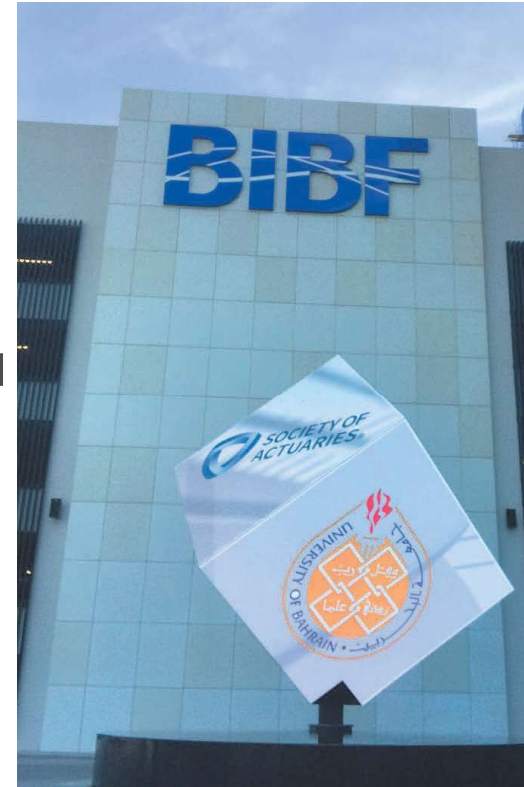
First of a kind initiative to employ and train Bahraini actuaries

With the University of Bahrain as
the only university in Bahrain that
offers an actuarial science program.

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- The Labour Fund (Tamkeen) in partnership with
 - the Central Bank of Bahrain (CBB)
 - Institute and Faculty of Actuaries (IFoA)
 - The Bahrain Institute of Banking and Finance (BIBF)
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First of a kind initiative to employ and train Bahraini actuaries

- The CBB would also issue the required legislation that would then require insurance firms to establish an internal actuarial unit within their organizational structure
- Tamkeen will support and provide training opportunities to qualify Bahrainis to become licensed actuaries and start their careers in this field
- BIBF in collaboration with IFoA will train a number of Bahraini nationals to receive the qualifications and licenses
- The University of Bahrain plays an important role in this initiative by providing well-qualified graduates in actuarial science.





Thank you