

ACTUARIAL SCIENCE (BS)

Actuaries build mathematical models to account for the many risk factors organizations must consider when building strategy. Financial, logistical, and business risks all have to be carefully weighed against each other, and actuaries help paint a picture of the road ahead with numbers and statistics. As well as working for insurance companies, actuaries work for consulting firms, government agencies, accounting firms, industrial businesses, banks, and financial institutions.

The major provides a strong math foundation coupled with robust actuarial science courses.

General Education Requirements

All degree seeking undergraduate students must complete the general education (<http://catalog.csp.edu/archive/2021-2022/undergraduate/academic-information/general-education-requirements/>) requirements.

Degree Requirements

Bachelor of Science (<http://catalog.csp.edu/archive/2021-2022/undergraduate/academic-information/graduation-requirements/#bs>) degree consists of a major of typically 45 to 60 credits, general education courses, and elective courses totaling a minimum of 120 credits.

Code	Title	Credits
ACC 201	Principles of Financial Accounting	4
ACC 202	Principles of Managerial Accounting	4
BUS 420	Business Finance	4
or FIN 301	Corporate Finance I	
ECO 101	America in the Global Economy: Macroeconomics	4
ECO 102	Microeconomics	2
MAT 110	Introduction to Probability and Statistics	3
MAT 330	Advanced Probability and Statistics	4
MAT 135	Calculus I	4
MAT 145	Calculus II	5
MAT 255	Calculus III	4
MAT 375	Differential Equations and Linear Algebra	4
CSC 115	Introduction to Python	4
CSC 222	Introductory Programming with Java	4
MATX 333	Mathematical Theory of Interest	3
MATX 383	Financial Mathematics: Discrete Time	3
MATX 433	Financial Mathematics: Continuous Time	3
MATX 483	Risk Management with R	3
Total Credits		62