

**MATHEMATICS—Actuarial Science
Bachelor of Science (B.S.)**

Required Mathematics courses (40 credit hours)

MA 151 Calculus and Analytic Geometry I (5)
MA 152 Calculus and Analytic Geometry II (5)
MA 253 Calculus and Analytic Geometry III (3)
MA 301 Linear Algebra (3)
Select one of the following (3): MA 340 ANOVA/ Design of Experiments MA 341 Nonparametric Tests/Quality Control
MA 344 Mathematical Statistics I (3)
MA 345 Mathematical Statistics II (3)
MA 346 Regression Analysis (3)
MA 347 Stochastic Processes (3)
MA 348 Time Series Analysis (3)
MA 384 Theory of Interest (3)
MA 385 Actuarial Mathematics (3)

Required Business courses (21 credit hours)

AC 224 Financial Accounting (3)
AC 225 Managerial Accounting (3)
EC 200 Microeconomics (3)
EC 201 Macroeconomics (3)
BU 374 Principles of Risk and Insurance (3)
BU 381 Business Finance (3)
BU 483 Investments (3)

Adding BU 345 Human Resources (3) completes a Business minor. Declare with School of Business.

Adding BU 378 Life and Health Insurance (3) completes the Kansas Insurance Certificate. Contact SOBU for information.

Required Science Concentration—30 credit hours:

The B.S. degree requires a 30-hour concentration in the Natural Sciences (Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, or Computer Information Science). These courses must be in departments other than the major, with at least 15 hours in one department.

General Education (31-32 credit hours)

EN 101 Introductory College Writing (3)
EN 200 Intermediate College Writing (3)
CN 101 Intro Communication Studies OR CN 150 Public Speaking OR CN 151 Intro to Interpersonal Communication OR CN 351 Special Topics in Interpersonal Communication (3)
4-5 credit hours of Natural Sciences with a lab
6 credit hours of Arts and Humanities from two different disciplines Arts and Humanities I (3) Arts and Humanities 2 (3)
6 credit hours of Social Sciences from two different disciplines Social Science I (3) EC 200 can count here Social Science 2 (3)
6 credit hours of Institution Specific from two different disciplines Inclusion and Belonging (3) Scientific Literacy (3) MA 140 can count here

Additional Specific Degree requirements (10 credit hours)

WU 101 Washburn Experience (3)
EN 300 Adv College Writing OR EN 308 Sci & Tech Writing OR EN 312 Persuasive Writing (3)

Additional General Degree requirements

45 total credit hours of 300 level or above (39 credits specifically listed above)
72 hours non-math courses
99 hours in College of Arts and Sciences
120 total hours needed