



Theory of Interest (Stat 274)

Theory of interest, annuities, amortization, financial derivatives, prepares for SOA Exam FM. (Prerequisite: Math 112)

Actuarial Problems (Stat 372)

Applying mathematical statistics in actuarial science. Prepares for SOA Exam P. (Prerequisites: Stat 340 & Math 314)

Life Contingencies (Stat 475)

This course prepares students for Exam MLC/3L and covers life tables, survival functions, contingent annuities, insurance, premiums, reserves, and joint annuities and insurance. (Prerequisite: Stat 274)

Statistical Distributions for Actuarial Modeling and Data Analytics (Stat 477)

Analyze data from a risk-based application; select a suitable model and estimate parameters using MLE, method of moments, and Bayes methods; determine goodness of fit and measures of confidence for decision making. (Prerequisite: Stat 340)

For Detailed Course Information:

- **“Actuarial Science” Major Academic Planning (MAP):**
statistics.byu.edu/content/actuarial-science-degree
- **Description of Actuarial Exams & Requirements:**
beanactuary.com/exams/
- **SOA Exam registration:**
soa.org/education/exam-req/registration/edu-registration.aspx