# BS in Actuarial Science (695224) MAP Sheet

Physical and Mathematical Sciences, Statistics

For students entering the degree program during the 2021-2022 curricular year.



University Core Requirements     Instant of the second of t	University Core and Graduation Requirements University Core Requirements:				Suggested Sequence of Courses				
Requirements       #Classes       Value       Information       Information       Information         Reginements       2.0       Form approved its       Social Science       3.0       STAT 320         Sess Christ and the Eventasting Gospel       1       2.0       form approved its       Stat 121       3.0       Advanced Written & On Communication         Sess Christ and the Eventasting Gospel       1       2.0       form approved its       Stat 121       3.0       Advanced Written & On Communication         Foundations of the Restoration       1       2.0       form approved its       Statements					ΕΡΕSΗΜΔΝ ΥΕΔΡ				
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# BS in Actuarial Science (695224)

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## 2021-2022 Program Requirements (53.5 Credit Hours)

No more than 3 hours of credit below C- is allowed in major courses.		ECON 110 - Economic Principles and Problems	3.0	THE DISCIPLINE:
Students must pass one exam of the Society of Actuaries (SOA), usually	/	ECON 380 - (Not currently offered)		
Exam FM, before declaring an actuarial science major.		ECON 381 - Intermediate Macroeconomics	3.0	An actuary is a statistician who analyzes the financial
REQUIREMENT 1 Complete 3 courses	ECON 382 - (Not currently offered)		consequences of risk. Actuaries use statistics, mathematics,	
STAT 121 - Principles of Statistics	3.0	ECON 388 - Introduction to Econometrics	3.0	and financial theory to study uncertain future events,
STAT 130 - Introduction to the Department of Statistics	0.5	ECON 450 - Financial Economics	3.0	especially those of concern to insurance and pension
STAT 274 - Theory of Interest	3.0	ECON 588 - Advanced Econometrics	3.0	programs. They evaluate the likelihood of those events and
REQUIREMENT 2 Complete 5 courses		FIN 201 - Principles of Finance	3.0	design creative ways to reduce the likelihood and decrease t
STATISTICS CORE COURSES:		IS 515 - Spreadsheets for Business Analysis	3.0	impact of adverse events that do occur. Their work designing
STAT 230 - Analysis of Variance	3.0	IS 520 - Business Programming and Spreadsheet Automation	3.0	and managing programs that control risk requires a
STAT 240 - Probability and Inference 1	3.0	STAT 124 - SAS Base Programming Skills	1.5	combination of strong analytical skills, business knowledge,
STAT 250 - Applied R Programming	3.0	STAT 125 - Introduction to Operating Systems, Linux/Unix, and She	•	and understanding of human behavior.
STAT 330 - Introduction to Regression	3.0	STAT 126 - Introduction to Python Programming	1.5	CAREER OPPORTUNITIES:
STAT 340 - Probability and Inference 2	3.0	STAT 224 - Applied SAS Programming	1.5	
-		STAT 226 - SQL	1.5	Actuaries enjoy excellent job security, high incomes, and a lo
REQUIREMENT 3 Complete 4 courses MATHEMATICAL FOUNDATION COURSES:		STAT 234 - Methods of Survey Sampling	3.0	stress work environment. Careers in actuarial science are
*MATHEMATICAL FOUNDATION COURSES:	4.0	STAT 251 - Introduction to Bayesian Statistics	3.0	consistently ranked among the top professions. Competent
MATH 112 - Calculus 1 MATH 113 - Calculus 2	4.0	STAT 377 - Statistical Models for Financial Economics	3.0	actuaries are highly recruited and can have many profession
MATH 113 - Calculus 2 MATH 213 - Elementary Linear Algebra	2.0	STAT 381 - Statistical Computing	3.0	opportunities. Actuaries are employed across a wide variety
MATH 213 - Computational Linear Algebra	1.0	STAT 420 - Big Data Science 1	3.0	industries and typically become established in one of the
	1.0	STAT 421 - Big Data Science 2	3.0	following career tracks: health, property/casualty, or life
<b>REQUIREMENT 4</b> Complete 3.0 hours from the following course(s)		STAT 426 - Data Science Methods and Applications in Statistics	3.0	insurance, consulting to one of those industries, enterprise r
STAT 124 - SAS Base Programming Skills	1.5	STAT 435 - Nonparametric Statistical Methods	3.0	management, quantitative finance and investment
STAT 125 - Introduction to Operating Systems, Linux/Unix, and Shell Pr		STAT 451 - Applied Bayesian Statistics	3.0	management, or retirement benefits. By focusing on the
STAT 126 - Introduction to Python Programming	1.5	STAT 462 - Quality Control and Industrial Statistics	3.0	development of data analysis skills, actuaries can also easily
STAT 224 - Applied SAS Programming	1.5	STAT 466 - Introduction to Reliability	3.0	transition to business analytics settings
STAT 226 - SQL	1.5	STAT 469 - Analysis of Correlated Data	3.0	ACTUARIAL EXAMS:
<b>REQUIREMENT 5</b> Complete 6.0 hours from the following course(s)		STAT 475 - Life Contingencies	3.0	ACTORRIAL EXAMS.
NOTE: IF ALL 3 COURSES ARE TAKEN IN REQUIREMENT 5, ONE CAN BE U	USED	STAT 477 - Statistical Distributions for Actuarial Modeling and Data		Actuaries are required to demonstrate their proficiency by
AS AN ELECTIVE. WHILE IT IS BEST TO TAKE ALL THREE, STUDENTS		STAT 495R - Special Topics in Statistics	3.0v	passing a series of competency exams offered by one or more
INTERESTED IN LIFE INSURANCE OR INVESTMENTS SHOULD TAKE AT LEAST		You may take up to 3 credit hours.	0.0	of the principal actuarial societies. It typically takes 6-10 year
377 AND 475 AND THOSE INTERESTED IN HEALTH AND PROPERTY/CASUALTY		STAT 496R - Academic Internship: Statistics	9.0v	to pass all of the exams; virtually all actuarial interns are
INSURANCE SHOULD TAKE AT LEAST 475 AND 477.		You may take up to 3 credit hours. STAT 497R - Introduction to Statistical Research	3.0v	required to have passed at least one of these exams as a
STAT 377 - Statistical Models for Financial Economics	3.0		5.00	condition for employment. The BYU Actuarial Science degree
STAT 475 - Life Contingencies	3.0	You may take up to 3 credit hours.	3.0	provides students with the opportunity to study significant
STAT 477 - Statistical Distributions for Actuarial Modeling and Data Ana	aly1 3.0	STAT 531 - Experimental Design		portions of the material covered in the first six exams offered
REQUIREMENT 6 Complete 12.0 hours from the following course(s)	Recommended Courses: Students should take Econ 110, Acc 200, Fi	by the Society of Actuaries and three are accepted by the		
NOTE: COURSES USED IN REQUIREMENTS 4 AND 5 WILL NOT DOUBLE C	and Stat 477 to complete the Society of Actuaries VEEs. Additionally, IS 515		Casualty Actuarial Society (the two major actuarial societies	
HERE.		and IS 520 are exceptionally valuable in the daily work of an actua	ry.	the United States).
ACC 200 - Principles of Accounting	3.0			
				The correspondence between the actuarial exams and
				available BYU course work is roughly as follows:

# BS in Actuarial Science (695224)

### 2021-2022

Exam P: Stat 240, 340 (full coverage) Exam FM: Stat 274 (full coverage) Exam IFM: Stat 377 (about 80% coverage) - was 90% Exam LTAM: Stat 475 (about 75% coverage) - was 50% Exam STAM: Stat 240, 340, 477 (about 80% coverage) - was 90% Exam SRM: Stat 330, 426 (about 95% coverage)

In addition to the exams the societies accept the following sets of courses for the Validation by Educational Experience (VEE) credit:

Mathematical Statistics VEE: Stat 121, 477 Finance and Accounting VEE: Fin 201, Acc 200 Economics VEE: Econ 110

#### SAS CERTIFICATION EXAMS:

SAS Certified Base Programmer and SAS Certified Advanced Programmer. Students can take the SAS Certification exams after completing Stat 124 and 224. Information and exam registration is available at http://support.sas.com/certify/creds/index.html.

SAS/BYU Applied Statistics and Advanced SAS Programming Certificate. Students who earn a B or higher in the applied and computing core classes (Stat 124, 224, 230, 330, 381) are eligible to receive a certificate jointly issued by SAS and BYU which can be listed on a resume. More information is available at http://statistics. byu.edu/content/sas-certificateopportunities.

#### MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed

requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

#### DEPARTMENT INFORMATION

#### **Department of Statistics**

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FACULTY ADVISOR: Del T. Scott 2152B WVB Brigham Young University, Provo, UT 84602 Telephone: (801) 422-7054

#### ADVISEMENT CENTER INFORMATION

### Physical and Mathematical Sciences College Advisement Center

Brigham Young University N-181 ESC Provo, UT 84602 Telephone: (801) 422-2674