



BS in STATISTICS: Biostatistics Emphasis (695233) MAP Sheet

Department of Statistics

For students entering the degree program during the 2007–2008 curricular year.

UNIVERSITY CORE AND GRADUATION REQUIREMENTS				MAJOR REQUIREMENTS (59–63.0 total hours)	
UNIVERSITY CORE REQUIREMENTS (48.5 hours minimum)				No more than 3 hours of D credit is allowed in major courses.	
<u>Requirements</u>	<u>#Classes</u>	<u>Hours</u>	<u>Classes</u>		
Doctrinal Foundation				Complete the following preparation core courses:	
Book of Mormon	2	4.0	Rel A 121/H and 122/H	Math 112* Calculus 1	4.0
New Testament	1	2.0	Rel A 211/H or 212/H	Math 113 Calculus 2	4.0
Doctrine and Covenants	1	2.0	Rel C 324/H or 325/H	Complete one course from the following:	
The Individual and Society				Stat 221 Principles of Statistics	3.0
Wellness	1 or 3	1.5–2.0	from approved list	Stat 321 Elements of Mathematical Statistics	3.0
Citizenship				Stat 331 Introduction to Bayesian Statistics	3.0
American Heritage	1–2	3–6.0	from approved list	Stat 332 Quality Improvement for Industry	3.0
Global & Cultural Awareness	1	3.0	from approved list	Note: Students who have passed the AP statistics exam or an introductory statistics course should not take Stat 221.	
Skills				Complete the following statistics core courses:	
Effective Communication				Stat 291 Teaching Elementary Stat in Lab Setting 1	0.5
First-Year Writing	1	3.0	from approved list	Stat 292 Teaching Elementary Stat in Lab Setting 2	0.5
Adv Written & Oral Communication	1	3.0	from approved list	Stat 336 Statistical Methods 1	6.0
Quantitative Reasoning	1	4.0	Math 112*	Stat 337 Statistical Methods 2	3.0
Languages of Learning (Math or Language)	1	4.0	Math 112*		
Arts, Letters, and Sciences				Complete 12 credit hours from the following:	
Civilization 1 and 2	2	6.0	from approved list	C S 142 Introduction to Computer Programming	3.0
Arts	1	3.0	from approved list	Hlth 375 Principles of Epidemiology	3.0
Letters	1	3.0	from approved list	Stat 224 Statistical Computing 1	3.0
Scientific Principles & Reasoning				Stat 331 Introduction to Bayesian Statistics	3.0
Biological Science	1–2	3–6.0	from approved list	Stat 334 Methods of Survey Sampling	3.0
Physical Science	1–2	3–7.0	from approved list	Stat 424 Statistical Computing 2	3.0
Social Science	1	3.0	from approved list	Stat 431 Experimental Design	3.0
Core Enrichment: Electives				Stat 434 Advanced Sampling	3.0
Religion Electives	3–4	6.0	from approved list	Stat 435 Nonparametric Statistical Methods	3.0
Open Electives	Variable	Variable	personal choice	Stat 466 Introduction to Reliability	3.0
GRADUATION REQUIREMENTS:				Stat 469 Applied Time Series & Forecasting	3.0
Minimum residence hours required		30.0		Stat 496R Academic Internship: Statistics	9.0V
Minimum hours needed to graduate		120.0		Stat 497R Introduction to Statistical Research	3.0V
				Stat 535 Applied Linear Models	3.0
				Stat 536 Modern Regression Methods	3.0
				Stat 538 Survival Analysis	3.0
				Stat 545 Stochastic Processes	3.0
				Recommended Courses:	
				It is recommended that students take Stat 224, 431. Students planning graduate studies should also take Math 315 and 316. (See the Mathematics section of this catalog for prerequisites.)	

***THESE CLASSES FILL BOTH UNIVERSITY CORE AND MAJOR REQUIREMENTS (4.0 hours overlap)**

FOR UNIVERSITY CORE OR MAJOR QUESTIONS CONTACT THE ADVISEMENT CENTER

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Telephone: (801) 422-6270

FACULTY ADVISORS:

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2007–2008**

Suggested Sequence of Courses:

FRESHMAN YEAR

1st Semester

1 st Year Writing	3.0
Or A Htg 100	(3.0)
Math 112 (FWSpSu)	4.0
Rel A 121 (FWSpSu)	2.0
Biology electives	6.0
Total Hours	15.0

2nd Semester

A Htg 100	3.0
or 1 st Year Writing	(3.0)
Math 113 (FWSpSu)	4.0
Stat 221 (FWSpSu)	3.0
Rel A 122 (FWSpSu)	2.0
Biology electives, General Education courses, university requirements, and/or general electives	3.0
Total Hours	15.0

SOPHOMORE YEAR

3rd Semester

Math 343 (FWSpSu)	3.0
Stat 224 (FW) recommended	3.0
Stat 291 (FWSpSu)	0.5
Stat 336 (FW)	6.0
Biology electives, General Education courses, university requirements, and/or general electives	2.5
Total Hours	15.0

4th Semester

Math 214 (FWSpSu)	3.0
Stat 292 (FWSp)	0.5
Stat 337 (FW)	3.0
Biology electives, General Education courses, university requirements, and/or general electives	8.5
Total Hours	15.0

JUNIOR YEAR

5th Semester

Engl 316 (FWSpSu) or MCom 320	3.0 (3.0)
Stat 441 (FW)	3.0
Statistics electives, biology electives, General Education courses, university requirements, and/or general electives	9.0
Total Hours	15.0

6th Semester

Stat 431 (F) recommended	3.0
Stat 442 (FW)	3.0
Statistics electives, biology electives, General Education courses, university requirements, and/or general electives	9.0
Total Hours	15.0

SENIOR YEAR

7th Semester

Statistics electives, biology electives, General Education courses, university requirements, and/or general electives	15.0
Total Hours	15.0

8th Semester

Statistics electives, biology electives, General Education courses, university requirements, and/or general electives	15.0
Total Hours	15.0

THE DISCIPLINE:

The Statistician's job is to help determine what data are to be collected, how to collect it to avoid biases and distortions, and then how to turn that data into information that other people can understand to help solve problems and reach sound decisions. From the predictions of the political pollster to exacting analyses of pharmaceutical research, the breadth and diversity of statistical applications are injected into nearly all aspects of modern life.

CAREER OPPORTUNITIES:

The curriculum and degrees offered through the Department of Statistics are designed to equip students with decision-making skills for careers as professional statisticians in industrial organizations, government agencies, insurance companies, pharmaceutical companies, universities, and research institutes. The technical tools statisticians acquire are useful in many areas, and for this reason a statistics degree is also excellent preparation for professional programs in law, business administration, public administration, medicine, and actuarial science.

For more information on careers in your major, please refer to *From Major to Career*, a publication which is located in all college advisement centers.

Note: Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

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