



BS in STATISTICS: Quality Science Emphasis (695222) MAP Sheet

Department of Statistics

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

UNIVERSITY CORE AND GRADUATION REQUIREMENTS				MAJOR REQUIREMENTS (59–66 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>	Complete the following preparation core courses:		
Doctrinal Foundation				Math 112* Calculus 1	4.0	
Book of Mormon	2	4.0	Rel A 121/H and 122/H	Math 113 Calculus 2	4.0	Stat 224 Statistical Computing 1 3.0
New Testament	1	2.0	Rel A 211/H or 212/H			Stat 332 Quality Improvement for Industry 3.0
Doctrine and Covenants	1	2.0	Rel C 324/H or 325/H			Stat 421 Intro to Probability & Statistical Theory 3.0
The Individual and Society				Complete one course from the following:		Stat 431 Experimental Design 3.0
Wellness	1 or 3	1.5–2.0	from approved list	Stat 221 Principles of Statistics	3.0	Stat 462 Quality Control & Industrial Statistics 3.0
Citizenship				Stat 321 Elements of Mathematical Statistics	3.0	Stat 466 Introduction to Reliability 3.0
American Heritage	1–2	3–6.0	from approved list	Stat 331 Introduction to Bayesian Statistics	3.0	
Global & Cultural Awareness	1	3.0	from approved list	Stat 332 Quality Improvement for Industry	3.0	Complete two courses from the following:
Skills						Acc 200 Principles of Accounting 3.0
Effective Communication				Note: Students who have passed the AP statistics exam or an introductory statistics course should not take Stat 221.		Bus M 300 Financial Management 3.0
First-Year Writing	1	3.0	from approved list			Econ 110* Economic Principles and Problems 3.0
Adv Written & Oral Communication	1	3.0	from approved list	Complete the following statistics core courses:		
Quantitative Reasoning	1	4.0	Math 112*	Stat 291 Teaching Elementary Stat in Lab Setting 1	0.5	Complete one of the following minors or equivalent departmental approved course work (approximately 14–18 hours):
Languages of Learning (Math or Language)	1	4.0	Math 112*	Stat 292 Teaching Elementary Stat in Lab Setting 2	0.5	Food Science (16 hours).
				Stat 336 Statistical Methods 1	6.0	Political Science (21 hours).
Arts, Letters, and Sciences				Stat 337 Statistical Methods 2	3.0	
Civilization 1 and 2	2	6.0	from approved list			
Arts	1	3.0	from approved list			
Letters	1	3.0	from approved list			
Scientific Principles & Reasoning						
Biological Science	1–2	3–6.0	from approved list			
Physical Science	1–2	3–7.0	from approved list			
Social Science	1	3.0	Econ 110*			
Core Enrichment: Electives						
Religion Electives	3–4	6.0	from approved list			
Open Electives	Variable	Variable	personal choice			
GRADUATION REQUIREMENTS:						
Minimum residence hours required		30.0				
Minimum hours needed to graduate		120.0				

*THESE CLASSES FILL BOTH UNIVERSITY CORE AND MAJOR REQUIREMENTS (4–7.0 hours overlap)

FOR GE OR MAJOR QUESTIONS CONTACT THE ADVISEMENT CENTER
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2007–2008

Suggested Sequence of Courses:

FRESHMAN YEAR

<u>1st Semester</u>	
1 st Year Writing or A Htg 100	3.0 (3.0)
Math 112 (FWSpSu)	4.0
Acc 200 or Bus M 300 or Econ 110	3.0 (3.0) (3.0)
Rel A 121 (FWSpSu)	2.0
General Education courses, university requirements, and/or general electives	3.0
Total Hours	15.0

2nd Semester

A Htg 100 or 1 st Year Writing	3.0 (3.0)
Math 113 (FWSpSu)	4.0
Stat 221 (FWSpSu) or Stat 321 (FSu) or Stat 331 (W)	3.0 (3.0) (3.0)
or Stat 332 (FWSp)	(3.0)
Rel A 122 (FWSpSu)	2.0
General Education courses, university requirements, and/or general electives	3.0
Total Hours	15.0

SOPHOMORE YEAR

<u>3rd Semester</u>	
Stat 291 (FWSpSu)	0.5
Stat 332 (FWSp)	3.0
Stat 336 (FW)	6.0
Minor electives or department approved coursework, General Education courses, university requirements, and/or general electives	5.5
Total Hours	15.0

4th Semester

Acc 200 or Bus M 300 or Econ 110	3.0 (3.0) (3.0)
Stat 224 (FW)	3.0
Stat 292 (FWSp)	0.5
Stat 337 (FW)	3.0
Stat 421 (W)	3.0
General Education courses, university requirements, and/or general electives	2.5
Total Hours	15.0

JUNIOR YEAR

<u>5th Semester</u>	
Stat 334 (F)	3.0
Stat 462 (odd numbered years) or Stat 431 (F)	3.0 (3.0)
Minor electives or department approved coursework, General Education courses, university requirements, and/or general electives	9.0
Total Hours	15.0

6th Semester

Engl 316 (FWSpSu) or MCom 320	3.0 (3.0)
Minor electives or department approved coursework, General Education courses, university requirements, and/or general electives	9.0
Total Hours	15.0

SENIOR YEAR

<u>7th Semester</u>	
Minor electives or department approved coursework, General Education courses, university requirements, and/or general electives	15.0
Total Hours	15.0

8th Semester

Stat 466 (W)	3.0
Minor electives or department approved coursework, General Education courses, university requirements, and/or general electives	12.0
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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