Mathematics and Statistics 2014

Major: Mathematics & Statistics

Degree Type: B.A. or B.S.

Required Degree Credits to Graduate: 127

General Education Requirements

First Year Experience (F):

UNIV 189	Skills For Academic Success	1
Communication (C):		
ENGL 110	College Composition I	3
ENGL 120	College Composition II	3
One course in Upper Level V	Writing: Select one course from the current general education list	3
COMM 110	Fundamentals of Public Speaking	3
Quantitative Reasoning (R	t):	
MATH 165	Calculus I	4
Science & Technology (S):		10
	taken as a co-requisite with a general education science/technology course unless the course includes a e equivalent to a one-credit course. Select from current general education list	n
Humanities & Fine Arts (A)): Select from current general education list	6
Social & Behavioral Science	ces (B): Select from current general education list	6
Wellness (W): Select from	current general education list	2
Cultural Diversity (D): Sele	ect from current general education list	
Global Perspectives (G): S	Select from current general education list	
Total Credits		41

College Requirements

Bachelor of Science (BS) Degree - An additional 6 credits in Humanities or Social Sciences*

Bachelor of Arts (BA) Degree – An additional 12 credits Humanities and Social Sciences and proficiency at the second year level in a modern foreign language.

* Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, HIST, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education courses in humanities and social sciences (general education categories A and B). These credits must come from outside the department of the student's major.

Mathematics & Statistics Major Requirements

A grade of 'C' or better is required in all MATH and STAT prefix courses.

General Education Requirements	S	40
Science and Mathematics Colleg	e Requirement	6-12
Math Major Core Requirements		
MATH 166	Calculus II	4
MATH 265	Calculus III	4
MATH 266	Introduction to Differential Equations	3
MATH 270	Introduction to Abstract Mathematics	3
MATH 420	Abstract Algebra I	3
MATH 429	Linear Algebra	3
MATH 450	Real Analysis I	3
MATH 451	Real Analysis II	3
MATH 491	Seminar	2

Statistics Major Requireme	ents	
STAT 330	Introductory Statistics	3
STAT 461	Applied Regression Models	3
STAT 462	Introduction to Experimental Design	3
STAT 467	Probability and Mathematical Statistics I	3
STAT 468	Probability and Mathematical Statistics II	3
STAT 476	Actuary Exam Study II	1
or STAT 491	Seminar	·
Statistics Electives	400 level other than those listed above	12
Related Required Courses		
Computer Science		
CSCI 160	Computer Science I	4
CSCI 161	Computer Science II	4
Choose 2 courses from the		6
CSCI 345	Topics on Personal Computers	J
CSCI 372	Comparative Programming Languages	
CSCI 372		
CSCI 373 CSCI 458	Assembly Programming Microcomputer Graphics	
		10
	Credit Elective: Select one of the five groups listed below. Each group includes a two credit elective.	10
Group One:	On a court of D'alors	
BIOL 111 & 111L	Concepts of Biology and Concepts of Biology Lab	
BIOL 315 & 315L	Genetics and Genetics Laboratory	
Two Credit Science Elect	ive	
Group Two:		
BIOL 126	Human Biology	
& 126L	and Human Biology Laboratory	
BIOL 220 & 220L	Human Anatomy and Physiology I and Human Anatomy and Physiology I Laboratory	
Two Credit Science Elect	ive	
Group Three:		
CHEM 121	General Chemistry I	
& 121L	and General Chemistry I Laboratory	
CHEM 122 & 122L	General Chemistry II and General Chemistry II Laboratory	
Two Credit Science Elect	ive	
Group Four:		
CHEM 150 & CHEM 160	Principles of Chemistry I and Principles of Chemistry Laboratory I	
CHEM 151	Principles of Chemistry II	
& CHEM 161	and Principles of Chemistry Laboratory II	
Two Credit Science Elec		
	y be used as Sci & Tech for Gen Ed)	
PHYS 251	University Physics I	
& 251L	and University Physics I Laboratory	
PHYS 252	University Physics II	
& 252L	and University Physics II Laboratory	