BACHELOR OF SCIENCE IN STATISTICS

Required Courses

Title		Credit Hours
		(29)
Introduction to the Profession		3
Calculus I		5
Calculus II		5
Introduction to Discrete Math		3
Multivariate and Vector Calculus		4
Elementary Linear Algebra		3
Introduction to Computational Mathematics		3
Linear Optimization		3
		(15)
Introductory Statistics		3
Introduction to Time Series		3
Probability		3
Statistics		3
Regression		3
		(15)
ving courses, or any other approved AMAT elective: 1		15
Introduction to Differential Equations	4	
Introduction to Mathematical Modeling	3	
Real Analysis	3	
Introduction to Stochastic Processes	3	
Design and Analysis of Experiments	3	
Data Mining	3	
		(15)
rea outside of applied mathematics, computational mathematics, or statistics		15
		(7-9)
S:		4-6
	4	
and Object-Oriented Programming II		
Introduction to Computer Programming for Engineers	6	
and Accelerated Introduction to Computer Science		
Introduction to Computer Programming	6	
-		3
		(10)
ction D		10
irements		(21)
ctions B and C		21
		(6)
ction E		6
		(8)
		8
	Calculus I Calculus II Introduction to Discrete Math Multivariate and Vector Calculus Elementary Linear Algebra Introduction to Computational Mathematics Linear Optimization Introductory Statistics Introduction to Time Series Probability Statistics Regression ving courses, or any other approved AMAT elective: Introduction to Differential Equations Introduction to Mathematical Modeling Real Analysis Introduction to Stochastic Processes Design and Analysis of Experiments Data Mining rea outside of applied mathematics, computational mathematics, or statistics s: Object-Oriented Programming I and Object-Oriented Programming II Introduction to Computer Programming or Engineers and Accelerated Introduction to Computer Science Introduction to Computer Programming and Accelerated Introduction to Computer Science Data Structures and Algorithms uirements etion D irements etions B and C	Calculus I Calculus II Introduction to Discrete Math Multivariate and Vector Calculus Elementary Linear Algebra Introduction to Computational Mathematics Linear Optimization Introductory Statistics Introduction to Time Series Probability Statistics Regression Introduction to Differential Equations Introduction to Mathematical Modeling Real Analysis Introduction to Stochastic Processes 3 Design and Analysis of Experiments 3 Data Mining 3 ea outside of applied mathematics, computational mathematics, or statistics S: Object-Oriented Programming II Introduction to Computer Programming of Engineers and Accelerated Introduction to Computer Science Introduction to Computer Programming and Accelerated Introduction to Computer Science Data Structures and Algorithms uirements strion D irements strions B and C

Minimum degree credits required: 126

Applied mathematics/statistics electives are to be chosen after consultation with an academic adviser. Student goals, interests, and course availability should be determining factors in this selection process. Students can take CS 422 to replace one applied mathematics/statistics elective. CS 422 must be taken after CS 331, which is a required computer science course in this curriculum.

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The following courses do not count toward the requirements for this degree: MATH 119, MATH 122, MATH 130, MATH 148, MATH 180, MATH 333, MATH 374, MATH 425, MATH 426, and MATH 474.

Bachelor of Science in Statistics Curriculum

			Year 1
Semester 1	Credit Hours	Semester 2	Credit Hours
MATH 100	3	MATH 152	5
MATH 151	5	MATH 230	3
MATH 225	3	Science Elective	4
Computer Science Course ¹	2	Computer Science Course ¹	2
Humanities 200-level Course	3	Social Sciences Elective	3
	16		17
			Year 2
Semester 1	Credit Hours	Semester 2	Credit Hours
MATH 251	4	MATH 435	3
MATH 332	3	Applied Mathematics/Statistics Elective ²	3
CS 331	3	Minor Elective	3
Minor Elective	3	Science Elective	3
Humanities or Social Sciences Elective	3	Social Sciences Elective (300+)	3
	16		15
			Year 3
Semester 1	Credit Hours	Semester 2	Credit Hours
MATH 475	3	MATH 350	3
Applied Mathematics/Statistics Elective ²	3	MATH 476	3
Minor Elective	3	Applied Mathematics/Statistics Elective ²	3
Science Elective	3	IPRO Elective I	3
Humanities Elective (300+)	3	Social Sciences Elective (300+)	3
Free Elective	2		
	17		15
			Year 4
Semester 1	Credit Hours	Semester 2	Credit Hours
MATH 484	3	MATH 446	3
Applied Mathematics/Statistics Elective ²	3	Applied Mathematics/Statistics Elective ²	3
Minor Elective	3	Minor Elective	3
Humanities Elective (300+)	3	Free Elective	3
IPRO Elective II	3	Free Elective	3
	15		15

Total Credit Hours: 126

Students must complete one of the following computer science sequences: CS 115 and CS 116, CS 104 and CS 201, or CS 105 and CS 201.

Applied mathematics/statistics electives are to be chosen after consultation with an academic adviser. Student goals, interests, and course availability should be determining factors in this selection process. Students can take CS 422 to replace one applied mathematics/statistics elective. CS 422 must be taken after CS 331, which is a required computer science course in this curriculum. The following courses do not count toward the requirements for this degree: MATH 119, MATH 122, MATH 130, MATH 148, MATH 180, MATH 333, MATH 374, MATH 425, MATH 426, and MATH 474.