

College of Science Minor in **Statistics**

Check sheet for students graduating in calendar year 2021

A total of 21 credit hours are required, structured as follows:

_		stics sequence by selecting one course from both Ia and Ib (6 Credits	s):				
Ia.	STAT 3005 STAT 3615 ¹	in sequence: Statistical Methods (Pre: MATH 1225) (Co: MATH 1226). Biological Statistics	(3)((3)(
	STAT 4705	Probability and Statistics for Engineers (Pre: Math 2204 or					
	*CMDA 200	MATH 2224 or MATH 2204H or MATH 2406H) 15 Integrated Quantitative Science (Pre: CS 1114 and MATH 1226)	(3)((6)(
Ib.	Socond Cour	rse in sequence:					
10.	STAT 3006	Statistical Methods (Pre: STAT 3005)	(3)()			
	STAT 3616	Biological Statistics (Pre: STAT 3615)	(3)				
	STAT 4706	Probability and Statistics for Engineers (Pre: STAT 4705)	(3)				
	*CMDA 200	06 Integrated Quantitative Science (Pre: CMDA 2005	. , .				
		and MATH 2114)	(6)()			
	*If CMDA 200	05-2006 is chosen, the total hours to complete the minor will increase to 27.					
II. Cor	II. Complete one course from the following (3 credits):						
11. Cor	•	Experimental Designs (Pre: STAT 3006 or 3616 or 4106 or 4706)	(3)()			
		Methods of Regression Analysis (Pre: STAT 3006 or 3616 or 4106		,			
	21111 1211	4706)	(3)()			
	Note: If 4204	4 or 4214 is taken to complete section II, it cannot also satisfy section					
III Cor	nnlete at least	four courses from the following (12 credits minimum):					
111. Con		Nonparametric Statistics (Pre: STAT 3006 or 3616 or 4106 or 4604	or				
	51111 5501	4706)	(3)()			
	STAT/CMD	A/CS 3654 Introductory Data Analytics and Visualization	(3)(,			
	21111, 01,12	(Pre: CMDA 2006 or equivalent)	(3)()			
	STAT 4004	Methods of Statistical Computing (Pre: STAT 4105, 4214)	(3)(
		Experimental Designs (Pre: STAT 3006 or 3616 or 4106 or 4706	(-)(,			
		or CMDA 2006)	(3)()			
	STAT 4214	Methods of Regression Analysis (Pre: STAT 3006 or 3616 or 4106					
		or 4706 or 5606 or 5616 or CMDA 2006)	(3)()			
	STAT 4364	Introduction to Statistical Genomics (Pre: (MATH 2204, (STAT 31					
		STAT 4105 or STAT 4705), (STAT 3006 or STAT 3616 or STAT	4706)))			
		or CMDA 2006)	(3)()			
	STAT 4444	Applied Bayesian Statistics (Pre: (MATH 2204, (STAT 3104 or					
		STAT 4105 or STAT 4705), (STAT 3006 or STAT 3616 or STAT	4706)))			
		or CMDA 2006)	(3)()			
	STAT 4504	Applied Multivariate Statistics (Pre: STAT 3006 or 4706 or 5606					
		or 5616 or CMDA 2006)	(3)()			
	STAT 4514	Contingency Table Analysis (Pre: STAT 3006 or 3616 or 4106					
		or 4706)	(3)()			



STAT 4524 Sample Survey Methods (Pre: STAT 3006 or 3616 or 4106 or 4706	(3)(3)()			
STAT 4534 Applied Time Series Analysis (Pre: STAT 3006 or 4104 or 4706 or					
4714 or 3616 or BIT 2406 or CMDA 2006)	(3)()			
STAT/CMDA/CS 4654 Intermediate Data Analytics and Machine Learning					
(Pre: STAT/CMDA/CS 3654)	(3)()			
STAT/CMDA 4664 Computational Intensive Stochastic Modeling					
(Pre: CMDA 2006 or equivalent)	(3)()			
STAT/AAEC 4804 ² Elementary Econometrics (Pre: (STAT 3005 or 3604), AAEC					
1006)	(3)()			
ISE 4404 Statistical Quality Control (Pre: ISE 3414, STAT 4105,					
STAT 4706)	(3)()			
MATH 4454Applied Mathematical Modeling (3					

Footnotes:

- 1 If a student completed STAT 3604 prior to becoming a minor, it may replace STAT 3615. Also, note prerequisite courses for Section III.
- 2 For students completing a major or minor in Economics, ECON 4304, Introduction to Econometric Methods, can be substituted for STAT 4804.

Other notes:

- A minor GPA of 2.0 or higher must be attained in the courses counting toward the minor.
- **IMPORTANT**: Students are responsible for reading the course catalogue descriptions regarding the duplicate course list and prerequisites.