

College of Science Minor in Statistics

Check sheet for students graduating in calendar year 2020

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

I.	Compl	ete one statisti	cs sequence by selecting one course from both Ia and Ib (6 Credits):		
	Ia.	First Course i			
		STAT 3005 ⁵	Statistical Methods (Pre: MATH 1225 ⁸) (Co: MATH 1226 ⁸).	(3)()
		STAT 3615 ¹	Biological Statistics	(3)()
1		STAT 4705 ^{2,3}	Probability and Statistics for Engineers (Pre: MATH 2204 ⁷)	(3)()
	Ib.		se in sequence:		
		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)()
II.	Con		rse from the following (3 credits):		
			Experimental Designs (Pre: STAT 3006 or 3616 or 4106 or 4706)	(3)(
			Methods of Regression Analysis (Pre: STAT 3006 or 3616 or 4106 or 4706)	(3)(
		Note: If 4204	or 4214 is taken to complete section II, it cannot count for 3 credits in sect	ion II	I.
III.	. Con		our courses from the following (12 credits minimum):		
			Nonparametric Statistics (Pre: STAT 3006 or 3616 or 4106 or 4604 or 4706)	(3)()
		STAT/CMDA	A/CS 3654 Introductory Data Analytics and Visualization		
			(Pre: CMDA 2006 or equivalent)	(3)(
		STAT 4004	Methods of Statistical Computing (Pre: STAT 4105, 4214)	(3)()
		STAT 4204	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 ⁶	Introduction to Statistical Genomics	(3)(
		STAT 4444	Applied Bayesian Statistics (Pre: (MATH 2204 ⁷ , (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)(
		STAT 4534	Applied Time Series Analysis (Pre: STAT 3006 or 4104 or 4706 or	(2)(,)
			4714 or 3616 or BIT 2406 or CMDA 2006)	(3)()
		STAT/CMDA	A/CS 4654 Intermediate Data Analytics and Machine Learning (Pre: STAT/CMDA/CS 3654)		
		STAT/CMDA		(3)()
		STAT/CMDF	A 4664 Computational Intensive Stochastic Modeling (Pre: CMDA 2006 or equivalent)	(2)(`
		STAT/AAEC		(3)(
				(3)(
		ISE 4404	Statistical Quality Control (Pre: ISE 3414, STAT 4105, STAT 4706)	(3)(
		IVIA I H 4454	Applied 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.
- If a student completed Stat 4714 or 4105 prior to becoming a minor, it may replace Stat 4705.
 Stat 4705 has a pre-requisite of Math 2204⁷ Multivariate Calculus.



- 4 For students completing a major or minor in Economics, ECON 4304, Introduction to Econometric Methods, can be substituted for STAT 4804.
- 5 If credit for STAT 3005 was awarded from an AP Statistics exam, the student satisfies 3 credits for Section I (as if they took STAT 3005)
- 6 Pre: (MATH 2204⁸, (STAT 3104 or STAT 4105 or STAT 4705), (STAT 3006 or STAT 3616 or STAT 4706)) or CMDA 2006,
- 7 MATH 2204 or any of the following equivalent courses: MATH 2224, MATH 2224H, MATH 2204H, MATH 2406H or CMDA 2005.
- 8 MATH 1225-1226 is equivalent to taking all of the following: MATH 1205, MATH 1206, MATH 1224.

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 prequisites.