College of Science
Minor in Statistics
Check sheet for students graduating in calendar year 2018

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

I. Complete one statistics sequence by selecting one course from both la and lb (6 Credits):
   la. First Course in sequence:
      STAT 3005 Statistical Methods (Pre: MATH 1226 or equivalent) (3)( )
      STAT 3615 Biological Statistics (3)( )
      STAT 4705 Probability and Statistics for Engineers (Pre: MATH 2204) (3)( )
   lb. Complete one sequence from the following:
      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. Complete one course from the following (3 credits):
    STAT 4204 Experimental Designs (Pre: STAT 3006 or 3616 or 4106 or 4706) (3)( )
    STAT 4214 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 section III.

III. Complete at least four courses from the following (12 credits minimum):
    STAT 3504 Nonparametric Statistics (Pre: STAT 3006 or 3616 or 4106 or 4604 or 4706) (3)( )
    STAT/CMDA/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) (3)( )
    STAT 4214 Methods of Regression Analysis (Pre: STAT 3006 or 3616 or 4106 or 4706) (3)( )
    STAT 4364 Introduction to Statistical Genomics (3)( )
    STAT 4444 Applied Bayesian Statistics (Pre: MATH 22247, (STAT 3104 or 4105 or 4705), (STAT 3006 or 3616 or 4106 or 4706)) (3)( )
    STAT 4504 Applied Multivariate Statistics (Pre: STAT 3006 or 4706) (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 4714 or 3616 or BIT 2406) (3)( )
    STAT/CMDA/CS 4654 Intermediate Data Analytics and Machine Learning (Pre: CMDA 2006 or equivalent) (3)( )
    STAT/CMDA 4664 Computational Intensive Stochastic Modeling (Pre: CMDA 2006 or equivalent) (3)( )
    STAT/AAEC 4804 Elementary Econometrics (Pre: (STAT 3005 or 3604), AAEC 1006) (3)( )
    ISE 4404 Statistical Quality Control (Pre: ISE 3414, STAT 4105, STAT 4706) (3)( )
    MATH 4454 Applied Mathematical Modeling (3)( )

Footnotes:
1 If a student completed STAT 3604 prior to becoming a minor, it may replace STAT 3615.
2 If a student completed STAT 4714 or 4105 prior to becoming a minor, it may replace STAT 4705.
3 STAT 4705 has a pre-requisite of Math 2204 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: (STAT 3006, MATH 1225, CS 1044) or (STAT 3006, MATH 1225, CS 1054) or (STAT 3006, MATH 1225, CS 1114)
7 Any Multivariate Calculus course suffices. See instructor approval, if needed.
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.