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

I. Complete one statistics sequence by selecting one course from both Ia and Ib (6 Credits):

   Ia. First Course in sequence:
        STAT 3005\(^5\)  Statistical Methods (Pre: MATH 1225\(^5\) (Co: MATH 1226\(^5\)). (3)(
        STAT 3615\(^1\)  Biological Statistics (3)(
        STAT 4705\(^5,3\) Probability and Statistics for Engineers (Pre: MATH 2204\(^7\)) (3)(

   Ib. 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 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\(^5\) 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 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/CS 4664 Computational Intensive Stochastic Modeling (Pre: CMDA 2006 or equivalent) (3)(
      STAT/AAEC 4804\(^5\) 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. Also, note prerequisite courses for Section III.
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\(^7\) 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 2204, (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.