Department of Mathematics, Computer Science, & Statistics
Bachelor of Science in Mathematics - Statistics Track
Advising Checklist for 2020-2022 Catalog

Name _____

- **Liberal Arts Core: 45 hours**
- **Minimum grade for all courses that count toward this major: C**
- **Minimum number of Junior-Senior hours: 42**
- **Minimum total credit hours: 120**
- **Minor: required**

Fill in your course grade.

Computer Science (4 hours)

_____CSC 1104 Foundations of Computer Science I and lab

Natural Sciences (16 hours)

Required:

_____BIO 1013 Introduction to Biology
_____BIO 1021 Introduction to Biology Lab
_____CHM 1014 University Chemistry I and Lab
_____PHY2234 University Physics I and lab

Choose one:

_____BIO 2104 General Botany and lab
_____BIO 2114 General Zoology and lab
_____CHM 1024 University Chemistry II and lab
_____PHY2244 University Physics II and lab

Writing across the Curriculum (3 hours)

_____ENG 3613 Technical Writing

Mathematics (25 hours)

_____MTH 1294 Calculus I (fall, spring)
_____MTH 2044 Calculus II (fall, spring)
_____MTH 2283 Discrete Mathematics (fall, spring)
_____MTH 3104 Calculus III (fall)
_____MTH 3113 Linear Algebra (spring) OR
_____MTH 3663 Applied Linear Algebra (spring)
_____MTH 3163 Probability and Statistics I (fall)
_____MTH 3573 Transition to Advanced Mathematics (fall)
_____MTH 4901 (WI) Senior Project – Mathematics (fall, spring, summer)

Statistics (18 hours)

Choose at least nine hours of 3000–4000-level STA:

_____STA 2053 Applied Biostatistics OR
_____STA 2323 Statistical Methods
_____STA 3443 Statistical Computing
_____STA 4013 Applied Regression Analysis
_____STA 4023 Applied Analysis of Variance
_____STA 4033 Nonparametric Statistical Methods
_____STA 4463 Probability and Statistics II
_____STA 4043 Statistical Analysis of Time Series
_____STA 4621–6 Statistics Internship
_____STA 41711-3 Special Topics in Statistics

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- Computer science courses are recommended.
- A passing grade in Statistical STA 2323 or STA 2053 or the catalog prerequisite is required for GBU 3133, NSG 3603, PSY 4343, PSY 4433, and SOC 4213. At most one course outside the Mathematics, Computer Science, and Statistics Department will count.
- At most three total credit hours of MTH, CSC, or STA internship will count.

_____CSC 1114 Foundations of Computer Science II and laboratory CSC 1114L
_____CSC 2203 Data Structures
_____CSC 3133 Introduction to Database Theory
_____CSC 3223 Algorithm Analysis
_____CSC 4213 Simulation Theory
_____CSC 4621–6 Computer Science Internship

_____DSC 3153 Data Management
_____DSC 3163 Data Visualization
_____DSC 4043 Systems Analysis and Design
_____DSC 4153 Predictive Analytics
_____DSC 4163 Prescriptive Analytics
_____DSC 4173 Data Mining

_____MTH 3124 Differential Equations (spring)
_____MTH 4233 Advanced Calculus I
_____MTH 4303 Advanced Calculus II
_____MTH 4373 Numerical Analysis
_____MTH 4621–6 Mathematics Internship

_____PHI 4143 Logic II

_____PSY 4343 Advanced Statistics
_____PSY 4433 Psychological Tests and Measurements

_____SOC 4213 (WI) Research Methods