



Department of Mathematics, Computer Science, & Statistics
Bachelor of Science in Mathematics - Statistics Track
Advising Checklist for 2018-2020 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 (spring)
_____ MTH 4901 (WI) Senior Project – Mathematics (fall, spring, summer)

Statistics (18 hours)

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

_____ STA 2054 Applied Biostatistics
_____ 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

- Computer science courses are recommended.
- A passing grade in Statistical STA 2323 or STA 2054 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

_____ MIS 3153 Data Management
_____ MIS 3163 Data Visualization
_____ MIS 4043 Systems Analysis and Design
_____ MIS 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

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