

**Degree Requirements - Bachelor of Science  
Mathematics – Statistics 2016-2018 Catalog**

Name \_\_\_\_\_

Semester Enrolled \_\_\_\_\_

**Freshman English/Writing: (6 hours)**

\_\_\_\_\_ ENG 1463 Freshman English A\* (See Catalog)

\_\_\_\_\_ ENG 1473 Freshman English B  
OR

\_\_\_\_\_ ENG 1803 Honors Freshman English

**Communication: (3 hours)**

\_\_\_\_\_ COM 2013 Oral Communication

**Physical Well-Being 1 hour**

Choose one:

\_\_\_\_\_ HPR 1011 Life Fitness Concepts

\_\_\_\_\_ HPR 1\*\*1 One hour of PE activity

**Fine Arts and Humanities: (6 hours)**

Choose one:

\_\_\_\_\_ ENG 2013 World Literature I

\_\_\_\_\_ ENG 2023 World Literature II

\_\_\_\_\_ ENG 2683 Masters of Western Literature

\_\_\_\_\_ ENG 2793 Masters of Western Literature - Honors

Choose one:

\_\_\_\_\_ ART 2033 Humanities: Art

\_\_\_\_\_ MUS 2033 Humanities: Music

\_\_\_\_\_ THA 2033 Humanities: Theatre Arts

\_\_\_\_\_ HUM2093 Fine Arts: Honors

\_\_\_\_\_ ART2603 Humanities: Studio Art

\_\_\_\_\_ MUS 4363 or 4373 Music history

**Social Science: (9 hours)**

Choose one:

\_\_\_\_\_ HIS 1013 Civilization to 1660

\_\_\_\_\_ HIS 1023 Civilization since 1660

\_\_\_\_\_ HIS 1043 Civilization since 1660-Honors

Choose one:

\_\_\_\_\_ HIS 2053 U.S. United States to 1877

\_\_\_\_\_ HIS 2063 U.S. United States since 1877

\_\_\_\_\_ PSC 1013 American National Government

Choose one:

\_\_\_\_\_ ANT 2013 Intro. To Cultural Anthropology

\_\_\_\_\_ ECO 2013 Macroeconomics

\_\_\_\_\_ ECO 2023 Microeconomics

\_\_\_\_\_ GEO 1023 Intro to Geography

\_\_\_\_\_ GEO 2163 World Geography

\_\_\_\_\_ PSY 1013 General Psychology

\_\_\_\_\_ PSY 1073 General Psychology – Honors

\_\_\_\_\_ SOC 1013 Intro to Sociology

**Natural Sciences 16**

**Required:**

\_\_\_\_\_ BIO 1013/1021 Intro to Biology and Lab

\_\_\_\_\_ CHM 1014 University Chemistry I

\_\_\_\_\_ PHY2234 University Physics I

**Choose one:**

\_\_\_\_\_ BIO 2104 General Botany

\_\_\_\_\_ BIO 2114 General Zoology

\_\_\_\_\_ CHM 1024 University Chemistry II

\_\_\_\_\_ PHY2244 University Physics II

**Nonwestern Culture: (3 hours)**

\_\_\_\_\_ ANT 3043 North American Indians

\_\_\_\_\_ ANT 3053 World Cultures

\_\_\_\_\_ ART 3103 Art of the Nonwestern World

\_\_\_\_\_ EDU 4543 Teaching People of Other Cultures

\_\_\_\_\_ ENG 3043 Nonwestern Literature

\_\_\_\_\_ GEO 3173 Geography of the Pacific

\_\_\_\_\_ HIS 4673 Asian Civilizations

\_\_\_\_\_ HIS 4683 The Modern Middle East

\_\_\_\_\_ HIS 4693 African History

\_\_\_\_\_ HPR 3973 History & Philosophy of Nonwestern  
Leisure, Culture Wellness & Sport

\_\_\_\_\_ MUS 3473 Survey of Nonwestern Music

\_\_\_\_\_ NSG 3643 Trans-cultural Health Care

\_\_\_\_\_ PHI 3023 Religions of the World

\_\_\_\_\_ PHY 4293 Nonwestern Cosmology

\_\_\_\_\_ PSC 4233 Comparative Politics in the Middle East

\_\_\_\_\_ PSC 4243 Comparative Politics in Africa

\_\_\_\_\_ PSC 4253 South Asian Politics

\_\_\_\_\_ PSY 3043 Cross-Cultural Psychology

\_\_\_\_\_ PSY 3053 Multicultural Mental Health

\_\_\_\_\_ SOC 3063 World Cultures

\_\_\_\_\_ GEN 3083 Study Abroad: Non-Western

**Core Elective: (3 hours)**

Choose one:

\_\_\_\_\_ FRE 1013 French I (or higher)

\_\_\_\_\_ GER 1013 German I (or higher)

\_\_\_\_\_ MTH xxx3 (*not used in major*)

\_\_\_\_\_ STA xxx3 (*not used in major*)

\_\_\_\_\_ PHI 2013 Intro to Philosophy (Eng. B prerequisite)

\_\_\_\_\_ PHI 2083 Introduction to Philosophy - Honors

\_\_\_\_\_ PHI 3043 Ancient Philosophy

\_\_\_\_\_ PHI 3053 Modern Philosophy

\_\_\_\_\_ PHI 3113 Ethics (**recommended**)

\_\_\_\_\_ SPA 1013 Spanish I (or higher)

**Or any other course listed in the Liberal Arts Core that  
has not been used to fulfill any other category**

**Writing across the Curriculum: (3 hours)**

Choose one:

\_\_\_\_\_ ENG 3313 University Writing

\_\_\_\_\_ ENG 4453 Advanced Composition

\_\_\_\_\_ ENG 3613 Technical Writing

\_\_\_\_\_ MMC4223 Magazine & Feature Writing

\_\_\_\_\_ MMC4293 Creative Nonfiction

**Writing Intensive (WI) Requirement:** Must pass with a grade of  
“C” or better

**Henderson Seminar: (1 hour)**

\_\_\_\_\_ GEN 1031 Henderson Seminar (freshmen only)

**Computer Science: (4 hours)**

\_\_\_\_\_ CSC 1104 Foundations of Computer Science I

\_\_\_\_\_ CSC 1104L Foundations of Computer Science I lab

**Mathematics core (25 hours)**

\_\_\_\_\_ MTH 1294 Calculus I

\_\_\_\_\_ MTH 2044 Calculus II

\_\_\_\_\_ MTH 2283 Discrete Mathematics

\_\_\_\_\_ MTH 3104 Calculus III (fall)

\_\_\_\_\_ MTH 3113 (WI) Linear Algebra (spring)

\_\_\_\_\_ MTH 3163 Probability and Statistics I (fall)

\_\_\_\_\_ MTH 3573 Transition to Advanced Mathematics (fall)

\_\_\_\_\_ MTH 4901 Senior Project – Math

**Statistics Electives (18 hours)**

Choose six (at least three 4000-level STA):

\_\_\_\_\_ STA 2323 Statistical Methods (required)

\_\_\_\_\_ STA 4013 Applied Regression Analysis

\_\_\_\_\_ STA 4023 Applied Analysis of Variance

\_\_\_\_\_ STA 4033 Distribution-Free Statistical Methods

\_\_\_\_\_ STA 4463 Probability and Statistics II

\_\_\_\_\_ STA 4043 Statistical Analysis of Time Series

\_\_\_\_\_ STA 4621–5 Statistics Internship

See the next page for additional electives.

At most three total credit hours of MTH, CSC, or STA  
internship will count toward the statistics degree.

**Minor Courses (Varies by department)**

**Electives** (as needed to meet 120 hour minimum)

**Minimum total credit hours: 120**

**Minimum Jr./Sr. hours: 42**

**Additional electives for a statistics-track major**

The computer science courses are recommended. A passing grade in Statistical Methods or the catalog prerequisites are required for GBU 3133, NSG 3603, PSY 4343, PSY 4433, and SOC 4213. At most one course will count outside of the Mathematics, Computer Science, and Statistics Department.

\_\_\_\_ 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 4621–5 Computer Science Internship

\_\_\_\_ GBU 3133 Business Statistics

\_\_\_\_ MTH 4123 Differential Equations

\_\_\_\_ MTH 4621–5 Mathematics Internship

\_\_\_\_ NSG 3603 Healthcare Research for Evidence Based  
Practice

\_\_\_\_ PHI 2133 Logic I

\_\_\_\_ PHI 4xx3 Logic II

\_\_\_\_ PSY 4343 Advanced Statistics

\_\_\_\_ PSY 4433 Psychological Tests and Measurements

\_\_\_\_ SOC 4213 (WI) Research Methods