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 4621–6 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 outside the Mathematics, Computer Science, and Statistics Department can be counted as an elective.

_____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

_____GBU 3133 Business Statistics

_____MTH 4123 Differential Equations

_____MTH 4233 Advanced Calculus I

_____MTH 4303 Advanced Calculus II

_____MTH 4373 Numerical Analysis

_____MTH 4621–6 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