

**Degree Requirements - Bachelor of Science
Pure Mathematics 2018-2020 Catalog**

Name _____

Freshman English/Writing (6 hours)

- _____ ENG 1463 Freshman English A
- _____ ENG 1473 Freshman English B OR
- _____ ENG 1803 Freshman English Honors

Communication (3 hours)

- _____ COM 2013 Oral Communication

Physical Well-Being (1 hour)

Choose one:

- _____ HPR 1011 Life Fitness Concepts
- _____ HPR 1xxx PE activity
- _____ MSC1011 Introduction to ROTC
- _____ MSC1021 Introduction to Leadership
- _____ One or more years of active duty Military service
- _____ THA 2002 Ballet I
- _____ THA 2012 Theatre Dance I
- _____ THA 2772 Jazz Dance I
- _____ THA 4552 Modern Dance

Fine Arts and Humanities (6 hours)

Choose one:

- _____ ENG 2013 World Literature I
- _____ ENG 2023 World Literature II
- _____ ENG 2053 Studies in Literature
- _____ ENG 2793 Masters in Western Literature Honors

Choose one:

- _____ ART 2033 Humanities Art
- _____ ART2603 Humanities Studio Art
- _____ COM/MMC/THA 3423 Movie Appreciation & Enjoyment
- _____ HUM2093 Fine Arts Honors
- _____ MUS 2033 Humanities Music
- _____ MUS 4363/4373 Music History
- _____ THA 2033 Humanities Theatre Arts

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 United States to 1877
- _____ HIS 2063 United States since 1877
- _____ PSC 1013 American National Government
- _____ PSC 1263 American National Government Honors

Choose one:

- _____ ANT 2013 Introduction to Cultural Anthropology

- _____ CRJ 2013 Introduction to the Criminal Justice System
- _____ CRJ 2033 Introduction to Criminology
- _____ ECO 2013 Macroeconomics
- _____ ECO 2023 Microeconomics
- _____ GEO 1023 Introduction to Geography
- _____ GEO 2163 World Geography
- _____ PSC 1023 State and Local Government
- _____ PSY 1013 General Psychology
- _____ PSY 1073 General Psychology Honors
- _____ SOC 1013 Introduction to Sociology

Or other course listed in first two sections

Natural Sciences (16 hours)

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
- _____ BIO 4044 Neotropical Ecology
- _____ EDU 4543 Teaching People of Other Cultures
- _____ ENG 3043 Nonwestern Literature
- _____ GEN 4083 Study Abroad Non-Western (requires travel)
- _____ 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
- _____ PHI 4203 Asian Philosophy
- _____ 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 Nonwestern World

Core Elective (3 hours)

Choose one:

- _____ FCS 2103 Nutrition
- _____ FRE 1013 French I (or higher)
- _____ GER 1013 German I (or higher)
- _____ HUM 2153 Intro/Women's and Gender Studies
- _____ MTH xxx3-6 (*not used in major*)
- _____ STA xxx3-6 (*not used in major*)
- _____ PHI 2013 Intro to Philosophy
- _____ PHI 2083 Introduction to Philosophy Honors
- _____ PHI 3113 Ethics
- _____ PHI 4043 Ancient Philosophy
- _____ PHI 4053 Modern Philosophy
- _____ 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)

- _____ ENG 3613 Technical Writing

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 (43 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 (even spring) OR
- _____ MTH 3663 Applied Linear Algebra (odd spring)
- _____ MTH 3163 Probability and Statistics I (fall)
- _____ MTH 3573 Transition to Advanced Mathematics (spring)
- _____ MTH 4133 Algebraic Structures I (fall)
- _____ MTH 4901 (WI) Senior Project – Math (fall, spring)
- _____ Jr/Sr MTH/STA Elective OR STA2054 OR STA2323
- _____ Jr/Sr MTH/STA Elective
- _____ Jr/Sr MTH/STA Elective
- _____ Jr/Sr MTH/STA Elective
- _____ Jr/Sr MTH/STA Elective

At most three hours of MTH/STA internship will count toward the pure mathematics degree.

Electives (as needed to meet 120-hour minimum)

Minor Courses (*Varies by department*)

Minimum total credit hours 120

Minimum Jr./Sr. hours 42

Updated 22 June 2018