Bachelor of Science in Astronomy, Option I: Astronomy
2016 - 2018 Catalog

Core Curriculum Requirements* (27 hrs)
___ UGS 302 or 303 First-Year Signature Course
___ RHE 306 Rhetoric & Composition
___ E 316P/N/M/L/K Literature
___ American History 1
___ American History 2
___ American Government
___ Government 2
___ Social & Behavioral Science
___ Visual & Performing Arts
✔ Mathematics (fulfilled by M 408N/C)
✔ Science Sequence, 6 hrs (fulfilled by major requirement)
✔ Science, 3 additional hours (fulfilled by major requirement)
✔ Writing flag (from course not fulfilling core curriculum)

*Courses that fulfill above core curriculum requirements are designated in course schedule.

Foreign Language or Culture Requirement (minimum 6 hrs)
___ 3-6 hrs foreign language or approved culture course
___ 3-6 hrs foreign language or approved culture course

Course Flag Requirements
✔ Upper division writing flag (WR)
___ Additional writing flag (WR) *1 WR flag must not overlap with core
___ Independent Inquiry flag (II)
✔ Quantitative Reasoning flag (QR) (fulfilled by M 408N/C)
___ Cultural Diversity flag (CD)
___ Global Cultures flag (GC)
___ Ethics & Leadership flag (EL)

Astronomy & Physics Requirements (54 hrs)
___ AST 352K Stellar Astronomy
___ AST 353 Astrophysics
___ AST 358 Galaxies & The Universe
___ 3 additional hrs of upper-division AST (AST 351 recommended)
___ PHY 301 & 101L Mechanics and lab
___ PHY 316 & 116L Electricity & Magnetism and lab
___ PHY 315 & 115L Wave, Motion, & Optics and Lab
___ PHY 336K Classical Dynamics
___ PHY 352K Classical Electrodynamics I
___ PHY 353L Modern Physics Laboratory
___ PHY 355 Modern Physics
___ PHY 362K Quantum Physics II
___ PHY 369 Thermodynamics & Statistical Mechanics
___ PHY 373 Quantum Physics I
___ 9 additional hrs of upper-division coursework in PHY and/or
AST

Additional Major Requirements (25 hrs)
___ 6 hrs majors-level coursework chosen from BIO, CH, CS, and/or
GEO (Elements of Computing Certificate courses may be counted)
___ M 408C Differential & Integral Calculus
___ M 408D Sequences, Series, & Multivariable Calculus
___ M 427J Differential Equations with Linear Algebra
___ M 427L Advanced Calculus for Applications II
___ M 340L Matrices & Matrix Calculations

General Electives* (11 hrs+)
___ 123 hours total *Physical activity courses (PED or KIN) and non-majors
science courses will not count toward the required 120 hours. Only 6 hours of pass/fail
coursework will count toward the required 120 hours.
+May need fewer elective hours depending on courses selected for the foreign
language/foreign culture requirement

AP Exam Credit
Language, score of 3-5 RHE 306
Literature, 4-5 E 316P
US History, 3-5 HIS 315L (American History 2)
American Government, 3-5 GOV 310L (American Government)
Psychology, Human Geography or Social & Behavioral Science
Macro/Microeconomics, 3-5
Music Theory or Art History, 3-5 Visual and Performing Arts
Computer Science A, 4-5 C S 312
Chemistry, 4-5 Chemistry 301 & 302
Biology, 5 Biology 311C & 311D
Physics C: Mechanics, 3-5 Physics 303K & 103M or 301 & 101L
Physics C: E & M, 3-5 Physics 303L & 103N or 316 & 116L
Calculus, AB or BC Varies

Mathematics, Physics, & Astronomy Advising
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For planning purposes only; please consult your academic advisor for
degree requirements and progress