INTRODUCTORY REQUIREMENTS

Calculus: MATH 19A (FWS) ___ OR MATH 20A (F) ___
MATH 19B (FWS) ___ OR MATH 20B (W) ___
MATH 23A (FWS) ___

Advanced Calculus: MATH 23B (FWS) ___ OR PHYS 14 (*) ___

Physics: PHYS 5A/L (F) ___ + 5B/M (W) ___ + 5C/N (S) ___ + 5D (F) ___
NOTE: To declare Astrophysics as a major, PHYS SABC must be completed with
a GPA of 2.7 or higher

Computer Programming: CMPS 5C (*) ___ OR 5J (FW) ___ OR 5P (S) ___ OR EART 119 (W) ___ OR
PHYS 115 (S) ___
*Students may also satisfy the computer programming requirement by demonstrating
their knowledge of programming to a faculty member designated by the Physics
department.

ADVANCED REQUIREMENTS 17 total

Modern Physics: PHYS 101A Introduction to Modern Physics I (F) ___
PHYS 101B Introduction to Modern Physics II (W) ___

Mechanics: PHYS 105 Mechanics (F) ___

Electricity/Magnetism/Optics: PHYS 110A Electricity, Magnetism, and Optics (W) ___
PHYS 110B Electricity, Magnetism, and Optics (S) ___

Thermodynamics: PHYS 112 Thermodynamics and Statistical Mechanics (W) ___

Math Methods: PHYS 116A Mathematical Methods in Physics (W) ___
PHYS 116B Mathematical Methods in Physics (S) ___
PHYS 116C Mathematical Methods in Physics (F) ___

Quantum Mechanics: PHYS 139A Quantum Mechanics (S) ___

Electives: THREE from the following...
ASTR 111 Order-of-Magnitude Astrophysics (F) ___
ASTR 112 Physics of Stars (W) ___
ASTR 113 Introduction to Cosmology (S) ___
ASTR 117 High Energy Astrophysics (*) ___
ASTR 118 Physics of Planetary Systems (*) ___
ASTR 171 General Relativity, Black Holes, and Cosmology (F) ___
ASTR 257 Modern Astronomical Techniques (S) ___

Laboratories: PHYS 133 Intermediate Laboratory (FW) ___
PHYS 135 Astrophysics Advanced Laboratory (F) ___ OR
PHYS 136 Advanced Astronomy Laboratory (S) ___

COMPREHENSIVE REQUIREMENTS

PHYS 182 Scientific Communication for Physicists (FW) ___
Senior Thesis on an astronomy-related topic ___

Note: Courses appearing more than one category may fulfill only one requirement.

Disciplinary Communication: Students satisfy this requirement by successfully completing Physics 182 and
Requirement (DC) the senior thesis