ASTROPHYSICS B.S.  

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 2.7 GPA

Programming in C++:  CMPS 5C (*) ___ OR EART 119 (W) ___ OR PHYS 115 (S) ___

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 (*) ___  
            ASTR 112 Physics of Stars (F) ___  
            ASTR 113 Physical Cosmology (S) ___  
            ASTR 117 High Energy Astrophysics (*) ___  
            ASTR 118 Physics of Planetary Systems (W) ___  
            ASTR 171 General Relativity, Black Holes, and Cosmology (F) ___

Laboratories:  PHYS 133 Intermediate Laboratory (WS) ___  
               PHYS 135 Astrophysics Advanced Laboratory:  ASTR 135A (F) ___ + ASTR 135B (W) ___

COMPREHENSIVE REQUIREMENTS

Senior Thesis Research:  PHYS 195A (F) ___ + PHYS 195B (W) ___  
Senior Thesis on an astronomy-related topic ___