

Sample schedule for BS in physics (astrophysics concentration) for transfer students

This sample schedule is for the case that fall of year 1 is an even year. (This distinction is necessary because some of the upper-level astronomy courses are offered every other year.)

Assumes that the student has the AA/AS waiver and has completed 60 total credits, including MATH 113, 114, 213, 214 and PHYS 160, 161, 260, 261.

PHYS 251 can be waived if the student has taken an appropriate python programming course (e.g. CSC 201 at V.C.C.S.).

Number of credits in parentheses.

Two courses from ASTR 403, 404, 420, 480 are required. This sample schedule uses ASTR 420 and 480. As an alternative, ASTR 403 could be taken in fall of year 2 (moving ASTR 408 to spring of year 2) and/or ASTR 404 could be taken in spring of year 1 (moving PHYS 306 to spring of year 2).

Students who complete a second major may omit either PHYS 306 or 428 and need only take one course from ASTR 403, 404, 420, 480.

Fall of Year 1 (15)

ASTR 328 (3) Stars
PHYS 251 (3) Intro to Computer Techniques in Physics
PHYS 301 (3) Analytical Methods of Physics
PHYS 303 (3) Classical Mechanics
PHYS 305 (3) Electromagnetic Theory

Spring of Year 1 (16)

ASTR 124 (1) Introduction to Observational Astronomy
ASTR 210 (3) Introduction to Astrophysics
PHYS 306 (3) Wave Motion and Electromagnetic Radiation
PHYS 307 (3) Thermal Physics
PHYS 308 (3) Modern Physics
PHYS 402 (3) Introduction to Quantum Mechanics and Atomic Physics

Fall of Year 2 (14)

ASTR 401 (3) Computer Simulation in Astronomy
ASTR 402 (4) Methods of Observational Astronomy
ASTR 408 (3) Senior Research
PHYS 311 (3) Instrumentation
PHYS 416 (1) Special Topics in Modern Physics

Spring of Year 2 (15)

ASTR 420 (3) Exoplanets
ASTR 480 (3) The Interstellar Medium
PHYS 312 (3) Waves and Optics
PHYS 428 (3) Relativity
ENGL 302 (3) Advanced Composition