Sample schedule for BS in physics (astrophysics concentration) starting with precalculus

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.)

Number of credits in parentheses.

Courses designated "Elective" are entirely at the student's discretion.

Two courses from ASTR 403, 404, 420, 480 are required. This sample schedules uses ASTR 403 and 404. As alternatives (or in addition), ASTR 420 and/or 480 could be taken in spring of year 4.

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.

PHYS 122 is not required. It is included to bring the total credit number to 120.

Fall of Year 1 (14)

MATH 105	(4)	Precalculus Mathematics
ENGH 101	(3)	Composition
Mason Core	(3)	
Mason Core	(3)	
PHYS 122	(1)	Inside Relativity

Spring of Year 1 (14)

MATH 113 Mason Core Mason Core	(1) (4) (3) (3)	Introduction to Observational Astronomy Calculus I
Mason Core	(3)	
Mason Core	(3)	

Fall of Year 2 (14)

MATH 114	(4)	Calculus II
PHYS 160	(3)	Physics I
PHYS 161	(1)	Physics I lab
Mason Core	(3)	
Elective	(3)	

Spring of Year 2 (16)

MATH 213	(3)	Calculus III
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PHYS 251 (3) Intro to Computer Techniques in Physics (satisfies Mason Core IT)

PHYS 260 (3) Physics II PHYS 261 (1) Physics II lab

ASTR 210 (3) Introduction to Astrophysics

Elective (3)

Fall of Year 3 (18)

MATH 214	(3)	Differential Equations	(or, preferably, ta	ke this the previous summer)	
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ASTR 328 (3) Stars

PHYS 301 (3) Analytical Methods of Physics

PHYS 303 (3) Classical Mechanics

PHYS 305 (3) Electromagnetic Theory

PHYS 311 (3) Instrumentation

Spring of Year 3 (15)

ASTR 404 (3	Galaxies a	and Cosmology
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PHYS 306 (3) Wave Motion and Electromagnetic Radiation

PHYS 307 (3) Thermal Physics

PHYS 312 (3) Waves and Optics

PHYS 402 (3) Introduction to Quantum Mechanics and Atomic Physics

Fall of Year 4 (14)

ASTR 401 (3)	Computer Simulation in Astronomy
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ASTR 402 (4) Methods of Observational Astronomy

ASTR 403 (3) Planetary Science

PHYS 416 (1) Special Topics in Modern Physics

Elective (3)

Spring of Year 4 (15)

ASTR 408	(3)	Senior Research
PHYS 308	(3)	Modern Physics

PHYS 428 (3) Relativity

ENGH 302 (3) Advanced Composition

Elective (3)