Sample schedule for BS in physics (without concentration) starting with Calc II

Number of credits in parentheses.

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

At least 45 credits must be upper-level (300 or above). This sample schedule satisfies this requirement.

Students who are not completing a second major take 6 credits of physics and astronomy electives. In this sample schedule, ASTR 210 and PHYS 412 are selected; other options are possible.

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

Fall of Year 1 (15)

MATH 114	(4)	Calculus II
PHYS 160	(3)	Physics I
PHYS 161	(1)	Physics I lab
ENGH 101	(3)	Composition
Mason Core	(3)	
PHYS 122	(1)	Inside Relativity

Spring of Year 1 (16)

MATH 213	(3)	Calculus III
PHYS 251	(3)	Intro to Computer Techniques in Physics (satisfies Mason Core IT)
PHYS 260	(3)	Physics II
PHYS 261	(1)	Physics II lab
Mason Core	(3)	
Mason Core	(3)	

Fall of Year 2 (15)

MATH 214 (3)	Differential Equations
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- PHYS 311 (3) Instrumentation
- Mason Core (3)
- Mason Core (3)
- Mason Core (3)

Spring of Year 2 (15)

PHYS 307	(3)	Thermal Physics
PHYS 308	(3)	Modern Physics
PHYS 312	(3)	Waves and Optics
ASTR 210	(3)	Introduction to Astrophysics
Elective	(3)	

Fall of Year 3 (15)

- PHYS 301(3)Analytical Methods of PhysicsPHYS 303(3)Classical MechanicsPHYS 305(3)Electromagnetic TheoryENGH 302(3)Advanced Composition
- Elective (3)

Spring of Year 3 (15)

PHYS 306	(3)	Wave Motion and Electromagnetic Radiation
PHYS 402	(3)	Introduction to Quantum Mechanics and Atomic Physics
PHYS 428	(3)	Relativity
Elective	(3)	
Elective	(3)	

Fall of Year 4 (14)

PHYS 403	(3)	Quantum Mechanics II
PHYS 407	(4)	Senior Laboratory
PHYS 408 or 409	(3)	Senior Research or Physics Internship
PHYS 410	(3)	Computational Physics I
PHYS 416	(1)	Special Topics in Modern Physics

Spring of Year 4 (15)

PHYS 412	(3)	Solid State Physics and Applications
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- Elective (3)
- Elective (3)
- Elective (3)
- Elective (3)