APS Major *Physics Emphasis* Requirements

Coreq

*=*highly recommended* as prereq

Prereq
(C- or better)
→
(Prereq)

Calc I
MATH 1300 / APPM 1350

Calc II
MATH 2300 / APPM 1360

Calc III
MATH 2400 / APPM 2350

LinAlg / DiffEq
APPM 2360 / MATH (2130 or 2135) & 3430

Gen Phys I
PHYS 1115 (or 1110)
Calc I

Gen Phys II
PHYS 1125 (or 1120)

Modern Physics
PHYS 2170
Calc III

Class. Mech. I
PHYS 2210
APPM 2360 or MATH 3430

Class. Mech. II
PHYS 3210

Quantum I
PHYS 3220

Exp. Phys I
PHYS 1140
PHYS 1125

Exp. Phys Lab
PHYS 2150

E&M I
PHYS 3310

E&M II
PHYS 3320

Suggested but not required upper division **physics** courses

Stat Mech
PHYS 4230

Optics
PHYS 4510

Quantum II
PHYS 4410

Plasma
PHYS 4150

Nuclear
PHYS 4420

Solar System
ASTR 1030
Calc I

Stars / Galaxies
ASTR 1040
Calc I

Suggested but not required

Intro. Scientific Programming
ASTR 2600
PHYS 1115
Calc I

choose a sequence below

Planetary Atmospheres
ASTR 3720
ASTR 2100* or Calc III

Planets, Moons, & Rings
ASTR 3750
ASTR 2100* or Calc III

Astrophysics I
ASTR 3730
PHYS 2170, 2130, or ASTR 2100

Astrophysics II
ASTR 3830

9 more credit hours (3 courses*) of upper division **astronomy**, with these courses, unused ASTR sequence, or grad classes

Resrch Meth.
ASTR 3400
ASTR 1040
PHYS 1125
ASTR 2600

Obs / Inst I
ASTR 3510
ASTR 1040*
PHYS 1125*
Calc II*

OBS / Inst II
ASTR 3520

Astronomical Inst. Lab
ASTR 3560
ASTR 1040
PHYS 2130, 2170, or ASTR 2100

Form. & Dyn. Planetary Sys
ASTR 3710
PHYS 1125
Calc II

Cosmology
ASTR 3740
PHYS 2170, 2130, or ASTR 2100

Solar / Space
ASTR 3760
PHYS 2170, 2130, or ASTR 2100

Data Analysis
ASTR 3800
ASTR 2600
ASTR 1040*
PHYS 1125*
Calc II*

Cosmochem
ASTR 4330

Atmos. Phys./Dyn.
ATOC+ 4710 or 4720
1 yr PHYS
1yr Calc

Space Dynamics
ASEN+ 4010
ASEN 3200 or Permission

+ Max of 2 courses from outside ASTR

Complete details can be found at http://www.colorado.edu/aps/undergraduate-students/degree-requirements

07/01/24