Physics: Astronomy and Astrophysics Option (2024-2025)

Freshman
Fall
M181 or M171
Honors Calc I (4-F)

Spring
M182 or M172
Honors Calc II (4-S)

PHSX240*
Honors Mech (4-F)

PHSX242*
Honors E&M/Optics (4-S)

*PHSX220/222 can be substituted for PHSX240/242 with advisor’s approval.

Sophomore
Fall
PHSX224
Therm Mod (4-FS)

Spring
PHSX301
Math Methods (3-S)

M283 or M273
Honor/MVCalc (4-F)

M284 or M274
Honor/DEQu (4-S)

PHSX261
LabElect I (3-F)

PHSX320
Classic Mech (3-F)

PHSX200
Research Sem (1-S)

PHSX331
CompPhys (2-F)

ASTR 372
Stars & the MW (3-S)

Junior
Fall
PHSX423
E&M II (3-F)

Spring
PHSX446
ThermStat (3-S)

PHSX343
Modern (3-F)

PHSX490R
UG Research (2-SFSu)

PHSX499R
SenCapPres (1-S)

† Senior Project must be completed before taking PHSX499R, and may comprise PHSX492 or the required 2 credits of PHSX490R. See catalog for details.

Senior

PHSX373
Ex-Gal Astro
(3-F-even years)

PHSX425
E&M II (3-F)

PHSX461
Quantum I (3-F)

PHSX476
Astrophysics (3-S)

ASTR 373
Ex-Gal Astro
(3-F-even years)

ASTR 475
Obs Astro
(4-F-odd years)

7 credits of Technical Electives and 6 credits of Directed Electives

The 7 credits of Technical Electives are to be selected from ASTR ≥ 374 and PHSX, M, STAT, CSCI, ELEE, and EMEC ≥ 300, excluding PHSX 401-405. The 6 credits of Directed Electives are to be selected from PHSX 262, PHSX 444, PHSX 451, PHSX 462, M 348, STAT 332, STAT 441, STAT 412, and CSCI 347. Courses cannot be double counted for Technical Electives and Directed Electives. Technical Electives can include no more than 4 credits of the combination of PHSX 494, PHSX 492, and PHSX 490R.

A minimum of 120 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above. C- or better is required for all required courses. D-, D, D+, and P credits only count towards the overall 120 credit requirement.

NOTE: ASTR 373 and 475 are taught alternate years. Solid (dashed) lines for ASTR courses: If student will be a junior in Fall of an even (odd) year.

STEM elective outside of major is strongly advised.