Physics Professional Option (2018-2020)

Modified 12/14/18

Required Courses

Course#  
CourseName  
(# of Credits-
Semester Offered)

F=Fall  S=Spring
Su=Summer
odd =only odd years
even=only even years

Required Electives

Credits

Suggested Electives

See catalog for pre-requisites for elective courses.

Fall

PHSX253  Photography (2-F)
ASTR373  SolarAstro (4-F)
PHSX441  SolidState (3-F-odd)
M330 (Hist Math)
M333 (LinAlg)
M348 (Tech/Eng I)
M383 (Analysis I)
M450 (App Math I)
M454 (Dyn Sys I)

Spring

PHSX492  Ind. Study (On demand, SFsu)
PHSX494  Seminars (1-F)
PHSX224  Therm/Mod (4-Fsu)
PHSX200  Research Sem (1-F)
PHSX201  IntroTheory (3-S)
PHSX301  CompPhys (1-F)
PHSX331  Modern (3-F)
PHSX425  Elect&Mag II (3-F)
PHSX426  AdvPhysLab (4-F)

Fall

PHSX490R  UG Research (2-SFSu) (completed before 499R)
PHSX499R  SenCapPres (1-S)
PHSX492  Ind. Study (On demand, SFsu)
PHSX494  Seminars (1-F)
PHSX224  Therm/Mod (4-Fsu)
PHSX200  Research Sem (1-F)
PHSX201  IntroTheory (3-S)
PHSX301  CompPhys (1-F)
PHSX331  Modern (3-F)
PHSX425  Elect&Mag II (3-F)
PHSX426  AdvPhysLab (4-F)

Senior Project  (≥ 2 cr of 492 or 490R

Math Electives (9 cr; M221 and M and STAT ≥ 300)

Physics Electives (7 cr; PHSX253 and PHSX or ASTR ≥ 300)

Math Electives  
(M221, M ≥ 300, STAT ≥300)
(suggested courses below, 3 credits each)

Fall and Spring

M221 (Intro LinAlg)
STAT332 (StatSciEng)

M292 (Mod Geom)
M349 (Tech/Eng II)
M384 (Analysis II)
M386R (SoftApp)
M430 (MathBio)
M431 (AbsAlg)
M442 (Numerical)
M451 (AppMathI)
M455 (Dyn Sys II)
M472 (Complex)

Senior Project credits also count for PHSX490R or Physics elective requirements.

Note: 2 credits of Phxs490R must be completed before taking PHSX499R.

A minimum of 120 total credits is required for graduation; 42 credits must be numbered ≥300.

C- or better is required for all required courses. D-, D+, and P credits only count towards the overall 120 credit requirement.