Physics Interdisciplinary Option (2018-2020)

**Fall Freshman**
- M181 or M171 Honors/Calc I (4-F)
- M182 or M172 Honors/Calc II (4-S)

**Spring Freshman**
- M283 or M273 Honor/MVCalc(4-F)
- M284 or M274 Honor/DEqu(4-S)

**Fall Sophomore**
- PHSX240* Honors Mech (4-F)
- PHSX242* Honors E&M/Optics(4-S)

**Spring Sophomore**
- PHSX200 Research Sem (1-F)
- PHSX224 Therm/Mod (4-FSu)

**Fall Junior**
- PHSX300 LabElect I (3-F)

**Spring Junior**
- PHSX361 IntroTheory (3-S)

**Fall Senior**
- PHSX490R UG Research (2-SFSu) (completed before 499R)

**Spring Senior**
- PHSX492 Ind. Study (On demand, SFSu)
- PHSX494 Seminars (1-F)

**Fall Senior**
- PHSX425 Elect&Mag II (3-F)
- PHSX427 ThermoStat (3-S)

**Spring Senior**
- PHSX423 Elect&Mag I (3-S)
- PHSX444 AdvPhysLab (4-F)

**Fall Senior**
- PHSX461 QuantMech I (3-F)
- PHSX462 QuantMech II (3-S)

**Spring Senior**
- PHSX446 AdvPhysLab (4-F)

**Senior Project**
- (≥ 2 cr of 492 or 490R)
- PHSX499R SenCapPres (1-S)

**Math Electives** (6 cr; M221 and M and STAT ≥ 300)
- M221 (IntroLinAlg)
- STAT332 (StatSciEng)
- M329 (Mod Geom)
- M349 (T Appl II)
- M384 (Analysis II)
- M386R (SoftAppl)
- M430 (MathBio)
- M431 (AbsAlg)
- M442 (Numerical)
- M451 (ApplMathII)
- M450 (ApplMath I)
- M472 (Complex)

**Physics Electives (PHSX 253 and ≥ 300)**
- PHSX253 Photography (2-F)
- ASTR371 SolarAstro (4-F)
- PHSX491 SolidState (3-F-odd)

**Fall Elective Credits**
- ASTR373 StarsGalUniv (4-S-odd)
- PHSX305RN Holography (3-S)
- PHSX427 AdvOptics (3-S-even)
- PHSX437 LaserAppl (3-S-odd)
- PHSX343 Modern (3-F)
- PHSX435 AstroPhysics (3-S-even)
- PHSX442 NovelMaterials (3-S-even)
- PHSX451 ElemPart (3-S-odd)

**Fall Elective Credits**
- PHSX492 (On demand, SFSu)
- PHSX494 Seminars (1-F)
- Not P/F

**Spring Elective Credits**
- PHSX220* Honors Mech (4-F)
- PHSX222* Honors E&M/Optics(4-S)

**Option Courses (16 cr): Courses from declared Area and approved by advisor and participating department**

**Suggested Physics and Math Electives: Verify in current catalog**
- Math Electives (M221, M ≥ 300, STAT ≥ 300)
- (suggested courses below, 3 credits each)
  - Fall and Spring M221 (IntroLinAlg)
  - STAT332 (StatSciEng)
  - M329 (Mod Geom)
  - M349 (T Appl II)
  - M384 (Analysis II)
  - M386R (SoftAppl)
  - M430 (MathBio)
  - M431 (AbsAlg)
  - M442 (Numerical)
  - M451 (ApplMathII)
  - M450 (ApplMath I)
  - M472 (Complex)

- Fall M330 (Hist Math)
- M333 (LinAlg)
- M348 (Tech/App I)
- M238 (Analysis I)
- M450 (ApplMath I)
- M472 (Complex)

- Spring M329 (Mod Geom)
- M349 (T Appl II)
- M384 (Analysis II)
- M386R (SoftAppl)
- M430 (MathBio)
- M431 (AbsAlg)
- M442 (Numerical)
- M451 (ApplMathII)
- M450 (ApplMath I)
- M472 (Complex)

**See catalog for pre-requisites for elective courses.**

**Required Courses**
- Course# 
- Course Name
  - (# of Credits-
  - Semester Offered)
  - F=Fall S=Spring
  - Su=Summer
  - odd =only odd years
  - even=only even years

**Suggested Electives**

**Pre-Req**

**Co-Req**

**Course**

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

**Note:** 2 credits of PHSX490R 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.**

Modified 12/14/18