Physics Interdisciplinary Option (2014-2016)

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
<td>Fall</td>
<td>Spring</td>
</tr>
<tr>
<td>M181orM171</td>
<td>M182orM172</td>
<td>M284orM274</td>
<td>PHSX490R</td>
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<tr>
<td>Honors/Calc I (4-F)</td>
<td>Honors/Calc II (4-S)</td>
<td>Honor/DEqu(4-S)</td>
<td>UG Research (2-SFSu)</td>
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<tr>
<td>PHSX240</td>
<td>PHSX224</td>
<td>PHSX301</td>
<td>PHSX499R</td>
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<tr>
<td>Honors Mech (4-F)</td>
<td>IntroTheory (3-S)</td>
<td></td>
<td>SenCapPres (1-S)</td>
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<td>*PHSX220/222 can be substituted for PHSX240/242 with advisor’s approval</td>
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<tr>
<td>PHSX261</td>
<td>PHSX262</td>
<td>PHSX320</td>
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<tr>
<td>LabElec I (3-F)</td>
<td>LabElec II (2-S)</td>
<td>ClassicMech (4-F)</td>
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<td>PHSX200</td>
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<tr>
<td>Research Sem (1-F)</td>
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Bio, Chem, or Earth Sci Elective (4 cr)

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

Physics Electives (6 cr; PHSX253 and PHSX ≥ 300)

Math Electives (6 cr; M221 and M and STAT ≥ 300)

See catalog for pre-requisites for elective courses.

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

Note: PHSX320 has the option of PHSX301 or M348 as a pre-req.

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, D+, and P credits only count towards electives and 120 total credits.

Math Electives (M221, M ≥ 300, STAT ≥ 300)

(physics courses below, 3 credits each)

**Fall and Spring**

- PHSX253 Photography (2-F)
- ASTR371 SolarAstro (4-F)
- PHSX441 SolidState (3-F-odd)
- PHSX492 Ind. Study (On demand, SFSu)
- PHSX494 Seminars (1-FS)
- Not P/F

**Fall**

- M330 (Hist Math)
- M333 (Lin Alg)
- M348 (TechApp I)
- M383 (Analysis I)
- M450 (AppMath I)
- M454 (DynSys I)

**Spring**

- M329 (Mod Geom)
- M349 (T App II)
- M384 (Analysis II)
- M386R (SoftApp)
- M430 (MathBio)
- M431 (AbsAlg)
- M442 (Numerical)

Suggested Physics and Math Electives: Verify in current catalog

Physics Electives (PHSX 253 and ≥ 300)

**Fall**

- PHSX253 Photography (2-F)
- ASTR371 SolarAstro (4-F)
- PHSX441 SolidState (3-F-odd)
- PHSX492 Ind. Study (On demand, SFSu)
- PHSX494 Seminars (1-FS)
- Not P/F

**Spring**

- ASTR373 SolarGalUniv (4-S-odd)
- PHSX305RN Holography (3-S)
- PHSX427 AdvOptics (3-S-even)
- PHSX437 LaserAppl (3-S-odd)
- PHSX435 LaserAppl (3-S-even)
- PHSX442 NovelMaterials (3-S-even)
- PHSX446 ThermoStat (3-S)
- PHSX451 ElemPart (3-S-odd)

Required Courses

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<th>Course #</th>
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Required Elective Credits

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<tr>
<th># of Credits- Semester Offered</th>
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<tbody>
<tr>
<td>F=Fall S=Spring Su=Summer odd=only odd years evn=only even years</td>
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Suggested Electives

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<th>Co-Req</th>
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Pre-Req

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