General Education Requirements and Degree Information: BACHELOR OF SCIENCE IN PHYSICS

ID:
Name:
Major: Physics

Update:
Advisor:
Catalog: 2014-2015 ≈ Degree

Course Grade Credit
FY/Adv. Entry Seminar:
05-012/212

Foreign Language (4 sem.)
I. 
II. 
III. 
IV. 

Social Justice Course:

Intercultural Perspective Course:

Social Sciences: 2 courses, must be diff. depts:

Fine Arts Lecture:

Fine Arts Performance:

B.S. Core:
BIO 50-102, 50-112
BIO 50-122, 50-162
CHE51-153/151
CHE51-163/161
MAT 52-154
MAT 52-254
PHYS 53-154
PHYS 53-164

B.S. students need take only 7 of the 8 highlighted requirements

Humanities: 2 courses, may be same dept.:

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area. A major requires at least 30 credits, 60% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance.

PHYSICS MAJOR (BS)

Major Courses: Grade Credit
PHY53-154 Fundamentals of Physics I
PHY53-164 Fundamentals of Physics II

Electives: Grade Credit
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHY53-214</td>
<td>Modern Physics</td>
</tr>
<tr>
<td>PHY53-324</td>
<td>Electromagnetism I</td>
</tr>
<tr>
<td>PHY53-334</td>
<td>Classical Mechanics I</td>
</tr>
<tr>
<td>PHY53-423</td>
<td>Quantum Physics</td>
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<tr>
<td>PHY53-872</td>
<td>Capstone Course</td>
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3 courses from:
- PHY53-404 Electronics
- PHY53-413 Classical Mechanics II
- PHY53-433 Electromagnetism II
- PHY53-434 Statics
- PHY53-443 Thermodynamics
- PHY53-453 Math Methods in Physical Science

**Required Supporting Courses in addition to B.S. Core:**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>MAT52-154</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MAT52-254</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MAT52-354</td>
<td>Calculus III</td>
</tr>
<tr>
<td>MAT52-754</td>
<td>Differential Equations I</td>
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<th>Course Code</th>
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<tr>
<td>MAT52-254</td>
<td>2nd Math in B.S. Core</td>
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*Sufficient advanced mathematics for a mathematics minor is highly recommended

**Total credits w/gen ed:**

Minimum of 127 credits required.