### Bachelor of Science in Physics

**Option II: Computation**

2010-08 Catalog (Expires August 2018)

<table>
<thead>
<tr>
<th>University Core Curriculum</th>
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<tbody>
<tr>
<td><strong>First-Year Signature Course:</strong> UGS 302 or 303</td>
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<tr>
<td><strong>English:</strong> RHE 306</td>
</tr>
<tr>
<td><strong>American &amp; Texas Government:</strong> 6 hrs from approved core list</td>
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<tr>
<td><strong>Social and Behavioral Science:</strong> 3 hrs from approved core list</td>
</tr>
<tr>
<td><strong>Mathematics:</strong> 3 hrs from approved core list: [M 408N or 408C]</td>
</tr>
<tr>
<td><strong>Science and Technology Part I:</strong> 6 hrs in a single subject from approved core list: CH 301 + CH 302</td>
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<tr>
<td><strong>Science and Technology Part II:</strong> 3 hrs from a subject other than the one chosen for Part I from approved core list: PHY 301</td>
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<tr>
<td><strong>Visual &amp; Performing Arts:</strong> 3 hrs from approved core list</td>
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Note that no single course may be used to fulfill two core areas simultaneously. In most cases, students may satisfy both a core requirement and a major requirement with a single course. Plan II students may have additional options for some core requirements.

### Additional General Education Requirements

- **Substantial Writing Components and/or Writing Flags (including a course that is not used to meet a core requirement and a course that is upper-division):**

### Foreign Language, Option A, B, or C: __________ + ________

- **A)** Two semesters in a single language or attainment of second-semester proficiency is one language:
- **B)** First semester-level proficiency in a foreign language and a three-hour course in the culture of the same language:
- **C)** Two three-hour culture courses chosen from one foreign culture category from and approved list available in the CNS Dean’s office and the college advising centers.

### Introductory Mathematics and Science, with grades of C- or better

- **Chemistry:** CH 301 + CH 302

  6 semester hours chosen from one of the following areas: Biology, Geology or Astronomy: +

  Note: A course may not be used to fulfill this requirement if it cannot be counted toward major requirements in the department that offers it

- **Physics:** PHY 301, PHY 101L + PHY 316, PHY 116L + PHY 315, PHY 115L

- **Mathematics:** M 408C + M 408D + M 427K + M 427L

  Six additional semester hours of upper division coursework in Mathematics or Statistics & Scientific Computation. The following courses are recommended: SSC 329C + M 362K

### Physics Requirements with grades of C- or better

- **Upper-Division Physics:**

  24 semester hours of upper-division Physics courses consisting of: PHY 329 + PHY 336K + PHY 338K + PHY 352K + PHY 353L + PHY 355 + PHY 369 + PHY 373

- **Computer Science and Statistics & Scientific Computation Courses:** SSC 222 + C S 307

  Two courses from the three topics listed below (two courses must be from different lists):

  1) **Numerical Methods:** C E 379K, CHE 348, M 348, C S 323E, C S 323H, C S 367, SSC 335  

     All C S courses must be completed with a grade of C or better for certification

  2) **Statistical Methods:** M 358K, M 378K, BME 335
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-OR-

Electrical Engineering Courses:

12 semester hours chosen from: EE 306, EE 312, EE 316, EE 319, EE 322C

Enough Additional Elective Hours to Reach a Total of 126 Hours (including 36 Upper-division Hours)

Minimum Grade Point Average Requirements

2.0 grade point average in all mathematics and science courses required by degree*: _____
2.0 grade point average in all courses taken at the University of Texas at Austin: _____

* Required Mathematics and Science courses may include: ACF, AST, BIO, CH, CS, EVS, GEO, HDF, HE, M, NSC, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

126 semester hours: _____ 36 upper-division hours: _____
60 hours in residence: _____ 24 of the last 30 hours in residence: _____
12 hours of upper division Physics coursework in residence: _____

No more than 16 hours of electives may be taken Pass/Fail.

Students completing an additional degree must complete 24 hours in addition to those counted toward the bachelor's degree that requires the higher number of credit hours.

Additional Information

The following courses will not count toward this degree: KIN 119 or PED one-hour activity courses. Only math courses at the level of calculus or above may be counted toward the degree, and no more than 12 semester hours of bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.

CNS Academic Records February 2012