Bachelor of Science in Physics
Option VII: Biophysics
2012-14 Catalog (Expires August 2020)

University Core Curriculum

First-Year Signature Course: UGS 302 or 303

English: RHE 306 ___

American & Texas Government: 6 hrs from approved core list ___

American History: 6 hrs from approved core list ___

Humanities: E 316K ___

Social and Behavioral Science: 3 hrs from approved core list ___

Mathematics: 3 hrs from approved core list: _____ [M 408N or 408C]

Science and Technology Part I: 6 hrs in a single subject from approved core list: _____ + _____ [PHY 301 + 316]

Science and Technology Part II: 3 hrs in a subject different than Part I, chosen from approved core list: _____ [CH 301 or 301H]

Visual & Performing Arts: 3 hrs from approved core list ___

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

Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division): _____ + _____

Writing Flag courses may satisfy other degree requirements.

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.

Mathematics with grades of C- or better

Calculus: M 408C _____ + 408D _____ (or equivalent sequence)

Physics: PHY 301 ___ + 101L ___ + 316 ___ + 116L ___ + 315 ___ + 115L ___

Mathematics: M 427K _____ + 427L _____

6 additional hours of upper-division mathematics: _____ + _____ (M 340L, 361, and 362K are recommended)

Physics Requirements with grades of C- or better

Complete the following courses:

PHY 336K, Classical Dynamics: ___

PHY 345, Biophysics: ___

PHY 352K, Classical Electrodynamics: ___

PHY 353L, Modern Physics Laboratory: ___

PHY 355, Modern Physics and Thermodynamics: ___

PHY 369, Thermodynamics and Statistical Mechanics: ___

PHY 373, Quantum Physics I: Foundations: ___
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### Biology and Chemistry Requirements with grades of C- or better

**Biology:** 311C ___ + 311D ___ + 325 ___ + 206L ___ OR 315H ___ + 325H ___ + 206L ___

**Chemistry:** 301 or 301H ___ + 302 or 302H ___

**Advanced Chemistry:** CH 320M or 328M ___ + 369 (or 339K + 339L) ___

**Advanced coursework to support Biophysics Option (complete one of the following):**

- A. Cell Biology, BIO 320
- B. Microbiology, BIO 326R
- C. Developmental Biology, BIO 349
- D. Neurobiology, BIO 365R or 371M
- E. Virology, BIO 330
- F. Computation, SSC 335 + BIO 337J, or SSC 339 (Topics: Computational Biology or Computational Chemistry)

A list of recommended biology laboratory courses to complement the biology lecture courses are available in the advising center and the dean’s office. The biology laboratory courses are not required but are recommended.

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

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Note: Only mathematics courses at the level of calculus and above may count toward the total number of hours required for the degree. The following courses will not count toward the degree: The following Mathematics courses will not count toward this degree: 301, 302, 303D, 303F, 403K, 403L, 304E, 305E, 305G (or 405G or 505G), 310P, 316K, and 316L.

### 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, NEU, NSC, NTR, PHY, SSB, SSC, TXA, and UTS-Natural Sciences.

### Total Hours and Residency Requirements

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<tr>
<th>Requirement</th>
<th>Semester Hours</th>
<th>Upper-Division Hours</th>
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<tbody>
<tr>
<td>126 hours</td>
<td>_____</td>
<td>36 upper-division</td>
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<tr>
<td>Residence</td>
<td>60 hours</td>
<td>21 upper-division</td>
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<td>24 hours</td>
<td>24 of the last 30 hours in residence</td>
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No more than 16 hours of electives may be taken Pass/Fail. No more than 3 three-hour courses in Air Force Science, Military Science, and Naval Science may be counted toward the degree. The following courses will not count toward this degree: M 301, KIN 119, or PED one-hour activity courses. Please check course descriptions of lower-division science courses not required for majors in the same field of study to see if they can or cannot count toward this degree.

Students may earn only one BA and one BS in Physics degree, though they may earn multiple majors. 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.

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*CNS Academic Records August 2013*