

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

University Core Curriculum

**First-Year Signature Course:** UGS 302 or 303 \_\_\_\_

**English:** RHE 306 \_\_\_\_

**Humanities:** E 316K \_\_\_\_

**American & Texas Government:** 6 hrs from approved core list  
\_\_\_\_ + \_\_\_\_

**American History:** 6 hrs from approved core list  
\_\_\_\_ + \_\_\_\_

**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 302]

**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 in 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 and Introductory Science, with grades of C- or better

**Calculus:** M 408C \_\_\_\_ + 408D \_\_\_\_ (or equivalent sequence)

**Physics:** PHY 301 \_\_\_\_ + PHY 101L \_\_\_\_ + PHY 316 \_\_\_\_ PHY116L \_\_\_\_ + PHY 315 \_\_\_\_ PHY 115L \_\_\_\_

**Mathematics:** M 427K \_\_\_\_ + 427L \_\_\_\_

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

**Chemistry:** 302 or 302H \_\_\_\_

**Six hours chosen from one of the following areas:** Biology, Geological Sciences, 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 Requirements with grades of C- or better

**Complete the following courses:**

PHY 336K, Classical Dynamics: \_\_\_\_

PHY 362L, Quantum Physics III: \_\_\_\_

PHY 352K, Classical Electrodynamics I: \_\_\_\_

PHY 369, Thermodynamics and Statistical Mechanics: \_\_\_\_

PHY 353L, Modern Physics Laboratory: \_\_\_\_

PHY 373, Quantum Physics I: Foundations: \_\_\_\_

PHY 355, Modern Physics and Thermodynamics: \_\_\_\_

**3 additional hours of upper-division physics, for a total of 24 upper-division hours in physics:** \_\_\_\_

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**Mechanical Engineering with grades of C- or better**

**16 hours of Mechanical Engineering, chosen from ME 136N, 337C, 337F, 337G, 361E, and 361F:**

\_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_ + \_\_\_\_

Note: Please work closely with your academic advisor. Due to limited course availability, you may have other ME course options.

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

\_\_\_\_\_

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**

126 semester hours: _____	36 upper-division hours: _____
60 hours in residence: _____	21 upper-division hours in residence (including 12 hours of Physics): _____
24 of the last 30 hours in residence: _____	

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.