

Bachelor of Science in Physics  
Option II: Computation  
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 \_\_\_\_, PHY 116L \_\_\_\_ + PHY 315 \_\_\_\_, PHY 115L \_\_\_\_

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

**6 additional hours of upper-division mathematics:** \_\_\_\_ + \_\_\_\_ (M 362K and SSC 329C 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 329, Intro to Computational Physics: \_\_\_\_

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

PHY 338K, Electronic Techniques: \_\_\_\_

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: \_\_\_\_

