

Bachelor of Science in Physics
Option II: Computation
2010-08 Catalog (Expires August 2018)

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: ____ + ____ [CH 301 + CH 302]

Science and Technology Part II: 3 hrs from a subject other than the one chosen for Part I from approved core list: ____
[PHY 301]

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

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): ____ + ____

Substantial Writing Components and Writing Flags may satisfy other specific 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 an 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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3) Other computing topics: C S 324E _____, C S 327E _____, C S 329E _____, C S 377 _____, M 346 _____, M 362M _____, M 368K _____, M 372K _____, M 376C _____, M E 367S _____, SSC 329D _____, SSC 374C _____, SSC 374D _____, SSC 374E _____

-OR-

Electrical Engineering Courses:

12 semester hours chosen from: E E 306 _____, E E 312 _____, E E 316 _____, E E 319 _____, E E 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