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 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 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: ____
### Bachelor of Science in Physics
#### Option III: Radiation 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.

*CNS Academic Records July 2013*