Bachelor of Science in Computer Science; Option I: Computer Science
2010-12 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 408C or M 408N]

Science and Technology Part I: 6 hrs in a single subject from approved core list: _____ + _____ [BIO 311C + 311D; CH 301 + 302; PHY 303K + 303L; GEO 401 + 404C or 405]

Science and Technology Part II: 3 hrs from a subject other than the one chosen for Part I from approved core list: _____ [CS 307]

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.

Other 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 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 approved list available in the CNS Dean's office and the college advising centers.

Mathematics and Electrical Engineering with Grades of C- or Better

Mathematics: M 408C _____ + 408D _____   or   M 408N _____ + 408S _____ + 408M _____

M 340L or 341: _____

One of the following: M 427K, 328K, 343K, 343L, 344K, 346, 348, 358K, 362K, 362M, 364K, 364L, 367K, 372K, 373K, 374G, 374K, 474M, 376C, 378K _____

Electrical Engineering: EE 316 _____

Computer Science with Grades of C- or Better (Minimum of 45 Hours)

Computer Science Entry-level: CS 307 _____ + 313K or 313H _____ + 315 or 315H _____

Computer Science Upon Admission to the Major: CS 310 or 310H _____ + 336 or 336H _____

Additional Required Computer Science: CS 337 _____ + 341 or 341H _____ + 345 or 345H ____+ 352 or 352H _____ + 372 or 372H _____

15 Hours of Upper-division Computer Science * :   _____ + _____ + _____ + _____ + _____

* Upper-division transfer courses must be approved to count toward this requirement.

CS 370 may be counted only once toward the degree.

Two Science Sequences with Grades of C- or Better_____

Science Sequence with Labs:

Choose <u>ONE</u> of the following sequences:

1. **Biological Sciences:** BIO 311C ___ + 311D ___ + 325 ___ [OR 315H ___ + 325H ___] + 1 of the following labs: BIO 205L, 206L, or 208L.
2. **Chemistry:** CH 301 or 301H ___ + 302 or 302H ___ + 204 ___.
3. **Geological Sciences:** GEO 401 ___ + 404C or 405 ___.
4. **Physics:** PHY 303K + 103M _____ + 303L + 103N ___.

Additional Science Sequence: Choose an <u>additional sequence</u> from the sequences listed previously, OR one of the following sequences:

1. **Biological Sciences:** Three hours of upper-division BIO approved by the undergraduate advisor.
2. **Chemistry:** CH 318M + 118K + 318N + 118L; **OR** CH 310M + 310N + 210C; **OR** Six hours of upper-division CH approved by the undergraduate adviser.
3. **Geological Sciences:** GEO 416K + 426P; **OR** Six hours of upper-division GEO approved by the undergraduate adviser.
4. **Physics:** PHY 315 + Three hours of upper-division PHY approved by the undergraduate adviser.
5. **Mathematics:** Six hours of upper-division Mathematics approved by the undergraduate adviser. A course that appears on both approved lists may not count toward both the mathematics requirement and the optional mathematics science sequence.
6. **Electrical Engineering:** EE 313 + 331. *Note: To meet prerequisites for EE 313 and 331, students who choose this option should also choose PHY for the first science sequence and M 427K for the additional mathematics requirement.*

Enough Additional Elective Hours to Reach a Total of **127** Hours (including **42** Upper-division Hours)_____

(Usually, CS majors achieve a minimum of 39 upper-division hours by taking the upper-division mathematics and computer science courses required for the degree.)

_____ + _____ + _____ + _____ + _____ + _____ + _____ + _____ + _____

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_____

127 semester hours: ___ 60 hours in residence: ___
42 upper-division hours: ____ 18 upper-division hours in the major in residence: ___
24 of the last 30 hours 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: some Elements of Computing courses, KIN 119, or PED one-hour activity courses. No more than 12 semester hours of Bible coursework may be counted toward this degree. See catalog for restrictions regarding ROTC coursework.

This checklist has been created as a guide and is not considered an official document. For further information about meeting degree requirements, consult your academic advisor.