

Bachelor of Science in Computer Science; Option IV: Integrated Program
2010-12 Catalog (Expires August 2018)
By Admission Only; Awarded Jointly with Master of Science in Computer Science

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 39 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 or 337H ____ + 345 or 345H ____ + 352 or 352H ____ + 353 or 357 ____ + 372 or 372H ____

9 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.

For information about eligibility to apply for admission or for information about the Integrated Program, please contact the Undergraduate Advising Center.

Two Science Sequences with Grades of C- or Better

Science Sequence with Labs:

Choose ONE of the following sequences:

- 1. Biological Sciences:** BIO 311C ____ + 311D ____ + 325 ____ [OR 315H ____ + 325H ____] + 1 of the following: 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 ____.

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

1. **Biological Sciences:** Three hours of upper-division BIO approved by the undergraduate adviser.
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 120 Hours (including 42 Upper-division Hours)

(Usually, CS majors achieve a minimum of 33 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 **: _____
3.0 grade point average in all required computer science: _____

* 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.

** Grade point averages may be higher to maintain academic good standing in the Integrated Program.

Total Hours and Residency Requirements

120 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.

Master of Science in Computer Science (30 hours)

9 hours of Computer Science Diversity (1 from each of 3 areas, from approved list): _____ + _____ + _____
 15 hours of Computer Science in Designated Area of Concentration: _____ + _____ + _____ + _____ + _____
 6 hours for the Minor, consisting of Approved Coursework Outside of the Department of Computer Science: _____ + _____

Of the 30 hours, a minimum of 27 hours of Graduate Coursework. These hours do not include a thesis. This degree does not require a thesis.

Hours taken for the BS in Computer Science cannot also count toward the MS in Computer Science, and vice versa.

Graduating masters students in the Integrated Program must be awarded the BS in Computer Science, Option IV: Integrated Program simultaneously.

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.

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