Bachelor of Science in Computer Science; Option IV: Integrated Program
2012-14 Catalog (Expires August 2020)
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 312]

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

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

Mathematics with Grades of C- or Better

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

M 340L or 341 or Statistics and Scientific Computation 329C: _____

Statistics and Scientific Computation 321: _____

Computer Science with Grades of C- or Better

CS 312 or 312H: _____

CS 314 or 314H: _____

CS 313K or 313H: _____

CS 336 or 336H: _____

CS 337 or 337H: _____

CS 353 or 357 or 357H: _____

CS 345 or 345H: _____

CS 429 or 429H: _____

CS 439 or 439H: _____

* 9 Hours of Additional Upper-Division Computer Science: __________ + __________ + __________

* CS 370 may be counted only once toward the degree. Upper-division transfer courses must be approved to count toward this requirement.

The Department of Computer Science is updating its undergraduate curriculum. Please contact a computer science academic adviser for assistance in choosing alternative courses to the required courses if you have not completed them already or if they are no longer offered.

Science Sequence with Labs:

Choose ONE of the following sequences:

1. Biological Sciences: BIO 311C ____ + 311D ____ + 325 ____ or 315H ____ + 325H ____] and BIO 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 328M + 128K + 328N + 128L; OR CH 320M + 320N + 220C; 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: EE 331 prerequisites are, with grades of C- or better, M 408D or 408M, and PHY 303L and 103N; EE 313 prerequisites are, with grades of C- or better: EE 331, M 427K, and credit or registration for M 340L.

Enough Additional Elective Hours to Reach a Total of 120 Hours (including 42 Upper-division Hours)

[Due to choices offered for alternatives to required Computer Science, students should carefully add up their upper-division hours to ensure that 42 upper-division hours will be completed prior to graduation.]

_____ + ______ + ______ + ______ + ______ + ______ + ______ + ______ + ______ + ______

Minimum Grade Point Average Requirements

2.0 grade point average in all mathematics and science courses required by degree *: ______
3.0 grade point average in all courses taken at the University of Texas at Austin: ______
3.0 grade point average in all courses counted toward the Master of Science in Computer Science: ______
3.0 grade point average in all graduate computer science coursework: ______

* Required mathematics and science courses may include: ACF, AST, BIO, CH, CS, EVS, GEO, HDF, HE, M, NEU, NSC, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

120 semester hours: ______ 60 hours in residence: ______
42 upper-division hours: ______ 21 upper-division hours of Computer Science in residence: ______
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: some Elements of Computing courses, KIN 119, or PED one-hour activity courses. 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 your degree.

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

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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