

Bachelor of Science in Computer Science  
Option IV: Integrated Program  
2014-16 Catalog (Expires August 2022)

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| University Core Curriculum   | Lacking |
| <b>First-Year Signature Course:</b> UGS 302 or 303 ____  |         |
| <b>English:</b> RHE 306 ____   |         |
| <b>Humanities:</b> One course chosen from E 316K (if taken prior to Fall 2014), 316L, 316M, 316N, 316P ____  |         |
| <b>American &amp; Texas Government:</b> 6 hrs from approved core list ____ + ____  |         |
| <b>American History:</b> 6 hrs from approved core list ____ + ____   |         |
| <b>Social and Behavioral Sciences:</b> 3 hrs from approved core list ____  |         |
| <b>Mathematics:</b> 3 hrs from approved core list: ____ [M 408C or M 408N]   |         |
| <b>Science and Technology Part I:</b> 6 hrs in a single subject from approved core list: ____ + ____ [satisfied by major requirements]   |         |
| <b>Science and Technology Part II:</b> 3 hrs from approved list in a subject other than the one chosen for Part I: ____  |         |
| <b>Visual &amp; Performing Arts:</b> 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 <i>core requirement</i> and a <i>major requirement</i> with a single course. |         |

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| Additional General Education Requirements  | Lacking |
| <b>Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division):</b> ____ + ____  |         |
| Quantitative Reasoning Flag Course: ____<br>Writing and Quantitative Reasoning Flag courses may satisfy other degree requirements.   |         |
| <b>Foreign Language, Option A, B, or C:</b> ____ + ____<br>A. Two semesters in a single language or attainment of second-semester proficiency in one language.<br>B. First semester-level proficiency in a foreign language and a three-hour course in the culture of the same language area.<br>C. Two three-hour culture courses chosen from one foreign culture area from an approved list available in the CNS Dean's office and the college advising centers. |         |

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| Mathematics and Science Sequences with grades of C- or better  | Lacking |
| <b>Mathematics:</b> M 408C + M 408D: ____ + ____ or M 408N + M 408S + 408M: ____ + ____ + ____   |         |
| Complete one of the following courses: SDS 329C, M 340L, 341: ____   |         |
| SDS 321 or M 362K: ____  |         |
| Complete one of the following sequences:<br>a. <b>Biology</b><br>i. BIO 311C + BIO 311D or BIO 315H + 325H: ____ + ____<br>ii. BIO 206L or 208L: ____<br>b. <b>Chemistry</b><br>i. CH 301 or 301H + CH 302 or 302H: ____ + ____<br>ii. CH 204: ____<br>c. <b>Geological Sciences</b> *<br>i. GEO 401: ____<br>ii. GEO 404C or 405: ____<br>d. <b>Physics</b><br>i. PHY 303K + 103M + 303L + 103N: ____ + ____ + ____ + ____  |         |
| * Jackson School of Geosciences restricts its courses to its own majors. Natural Sciences advises choosing a BIO, CH, or PHY sequence.   |         |
| Complete an additional sequence:<br>a. Second sequence from the list above: ____ + ____ + ____ + ____<br>b. At least 6 hours of upper-division coursework in BIO approved by the undergraduate advisor: ____ + ____<br>c. <b>Chemistry</b> Complete one of the following sequences:<br>i. CH 128K + 328M + 128L + 328N: ____ + ____ + ____ + ____<br>ii. CH 220C + 320M + 320N: ____ + ____ + ____<br>iii. At least 6 hours of upper-division coursework in CH approved by the undergraduate advisor: ____ + ____<br>d. <b>Geological Sciences</b> Complete one of the following sequences: *<br>i. GEO 416K + 426: ____ + ____<br>ii. At least 6 hours of upper-division coursework in GEO approved by the undergraduate advisor: ____ + ____<br>e. PHY 315 + at least 3 hours of upper-division coursework in PHY approved by the undergraduate advisor: ____ + ____<br>f. At least 6 hours of upper-division coursework in Mathematics approved by the undergraduate advisor. A course meeting a Mathematics requirement may not also be counted toward this sequence: ____ + ____<br>g. E E 313 + 331: ____ + ____ |         |
| * Jackson School of Geosciences restricts its courses to its own majors. Natural Sciences advises choosing a non-GEO sequence.   |         |

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| Integrated Program coursework with grades of C- or better   | Lacking |
| <b>Theory:</b> C S 311 or 311H + 331 or 331H: _____ + _____   |         |
| <i>Complete one of the following additional theory courses:</i><br>C S 337, 341, 346, 378 (Topic: <i>Debugging and Verifying Programs</i> ): _____  |         |
| <b>Programming:</b> C S 312 or 312H + 314 or 314H: _____ + _____  |         |
| <i>Complete one of the following additional programming courses:</i><br>C S 354, 354R, 371R, 373, 375: _____  |         |
| <b>Systems:</b> C S 429 or 429H + 439 or 439H: _____ + _____  |         |
| <i>Complete one of the following additional systems courses:</i><br>C S 350C, 350F, 356, 371D, 375, 378 (Topic: <i>High Performance Systems</i> ): _____  |         |
| <i>Complete one of the following additional courses:</i><br>C S 353, 357, or 378H: _____  |         |
| <b>Additional Computer Science:</b><br>9 additional hours of upper-division courses in C S: _____ + _____ + _____   |         |
| An undergraduate may not enroll in any computer science course more than once without written consent of an undergraduate adviser in computer science. No student may enroll in any computer science course more than twice. No student may take more than three upper-division computer science courses in a semester without written consent of an undergraduate adviser in computer science. C S 370 may be counted toward the degree only once. Computer Science courses with numbers ending in H are intended for students pursuing the Bachelor of Science in Computer Science, Option II: Turing Scholars and Option III: Computer Science Honors. Students outside these options may enroll in these courses only with the special consent of the honors director.  |         |
| Enough Additional Elective Hours to Reach a Total of 120 Hours (including 42 upper-division Hours)  | Lacking |
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| <b>Minimum Grade Point Average Requirements</b>   | Lacking |
| <b>2.0 grade point average in all mathematics and science courses required by degree*:</b> _____  |         |
| <b>2.0 grade point average in all courses taken at the University of Texas at Austin:</b> _____   |         |
| <b>3.0 grade point average in graduate computer science, information studies, or computational science, engineering, and mathematics coursework:</b> _____  |         |
| * Required mathematics and science courses may include: ACF, AST, BCH, BIO, CH, CS, EVS, GEO, HDF, HE, M, NEU, NSC, NTR, PBH, PHY, SDS, SSC, TXA, and UTS-Natural Sciences.   |         |
| <b>Total Hours and Residency Requirements</b>   | Lacking |
| 120 semester hours: _____   |         |
| 42 upper-division hours: _____  |         |
| 21 upper-division hours of Computer Science in residence: _____   |         |
| 60 hours in residence: _____  |         |
| No more than 6 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.<br><br>A student may not earn more than one Bachelor of Arts, Bachelor of Science and Arts, or Bachelor of Science in Environmental Science degree from the University. A student may earn only one undergraduate degree in a particular field of study from the College of Natural Sciences. A student who holds a Bachelor of Arts or a Bachelor of Science and Arts degree from the university may earn a second major designation in another field of study that will appear on the University transcript. The title of the degree appears on the diploma, but the major does not. The title of the degree, the major, and the transcript-recognized certificate appear on the official transcript. |         |
| <b>Additional Requirements for Option IV: Integrated Program</b>  | Lacking |
| <b>Graduation:</b> To receive the Bachelor of Science in Computer Science and Master of Science in Computer Science, Master of Science in Information Studies, or Master of Science in Computational Science, Engineering, and Mathematics degrees through the Integrated Program, a student must have a grade point average of at least 3.00 in the coursework in the Master of Science Program of Work. He or she must also have a grade point average in graduate computer science, information studies, or computational science, engineering, and mathematics coursework of at least 3.00.   |         |