College of Natural Sciences
University of Texas at Austin

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Bachelor of Science in Computer Sciences

Option II: Turing Scholars Honors

Must be admitted to Turing Scholar Program

Undergraduate Computer Science
Advising Office/TAY 2.126
(512) 471-9509

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

ALL DEGREE REQUIREMENTS MUST BE TAKEN ON A LETTER-GRADE BASIS.	Hours
LANGUAGE ARTS (12-16)	
♦ English: ❑ RHE 306 + ❑ E 316K	6
Substantial Writing Component: ❑ One upper-division course + ❑ One additional course	
*Some required courses will count towards this requirement. Consult the current semester Course Schedule for a complete listing of writing component courses.	*
♦ Foreign Language (Choose A, B, or C):	6-10
A. 2nd semester proficiency in a foreign language (usually 10 hours).	
B. 1st semester proficiency in a foreign language and a 3 hour course in the culture of the same language area (8 hours).	
C. 2 three hour foreign culture courses chosen from a list available in TAY 2.126 (6 hours).	
***Exception*: Students who enter the University with fewer than 2 high school units (years) in a single foreign language must take the first 2 semesters in a foreign language. International students who were required to provide a TOEFL score for admission to the University may ask for this requirement to be waived but must make up these hours in electives.**	
SOCIAL SCIENCES (15 hours)	
♦ Government: ❑ GOV 310L + ❑ GOV 312L	6
♦ History: ❑ HIS 315K * + ❑ HIS 315L *	6
* Or other courses designated in the Course Schedule as "partially fulfills legislative requirement for American History" or HIS US in transfer.	
♦ 3 semester hours from **one** of the following areas:	3
❑ Linguistics ❑ Economics ❑ Geography ❑ Anthropology ❑ Psychology ❑ Sociology	
SCIENCE SEQUENCES (14-16 hours)	
♦ Laboratory Science Sequence	8
Science sequence containing laboratory coursework:	
One of the following sequences (8 hours each):	
1. ❑ BIO 311C + ❑ BIO 311D + BIO 205L or BIO 206L or BIO 208L	
2. ❑ CH 301 + ❑ CH 302 + ❑ CH 204	
3. ❑ GEO 401 + ❑ GEO 404C or 405	
4. ❑ PHY 303K + ❑ PHY 103M + ❑ PHY 303L + ❑ PHY 103N	
♦ Additional Science Sequence (6-8 hours) **- One additional sequence** from those listed above, or one of the following sequences	6-8
Biology	
❑ BIO 325 + ❑ An approved 3-4 hour upper-division BIO course _____	
Chemistry (choose one from the following 3 options):	
1. ❑ CH 318M + ❑ CH 318N + ❑ CH 118K + ❑ CH 118L	
2. ❑ CH 310M + ❑ CH 310N + ❑ CH 210C	
3. At least 6 hours of approved upper-division CH courses ❑ _____ + ❑ _____	
Geology (choose one from the following 2 options):	
1. ❑ GEO 416K + ❑ GEO 426P	
2. At least 6 hours of approved upper-division GEO courses ❑ _____ + ❑ _____	
Physics	
❑ PHY 315 + ❑ An approved 3-4 hours upper-division PHY course _____	
Math (courses taken for this sequence cannot also be counted toward the mathematics requirement)	
6 hours of upper-division Math from the approved list ❑ _____ + ❑ _____	
Electrical Engineering	
❑ EE 313 + ❑ EE 331	
GENERAL CULTURE (3 hours)	
♦ 3 semester hours from any of the following areas:	3
❑ Philosophy *(excluding logic)* ❑ Architecture ❑ Classics Department ❑ College of Fine Arts	

OTHER REQUIREMENTS: A GRADE OF C OR BETTER IS REQUIRED IN ALL COURSES COUNTED TOWARD THE FOLLOWING REQUIREMENTS.	
♦ Mathematics Course work: ❑ M 408C Differential & Integral Calculus * ❑ M 408D Sequence, Series & Multivariable Calculus * ❑ M 340L Matrices and Matrix Calculations * Or an equivalent sequence (i.e. M 408K, M408L, M 408M).	11
♦ One additional Math (selected from the list approved by the undergraduate advisor): ❑ _____	3
♦ Additional required courses: ❑ EE 316 ❑ CS 313H or CS 313K	6
♦ Computer Sciences (40 hours, including: 34 hours of upper-division CS; with 5 upper-division courses designated as Honors*, excluding CS 178H and 379H): ❑ CS 315H or 315 - Algorithms and Data Structures ❑ CS 310H or 310 - Computer Organization and Programming ❑ CS 336H or 336 - Analysis of Programs ❑ CS 337H or 337 - Theory in Programming Practice ❑ CS 341H or 341 - Automata Theory ❑ CS 345H or 345 - Programming Languages ❑ CS 352H or 352 - Computer Systems Architecture ❑ CS 372H or 372 - Intro to Operating Systems ❑ CS 178H - Introduction to Computer Science Research ❑ **CS 379H**** - Computer Science Honors Thesis ****Completed CS 379H thesis must be approved by the Turing Scholars Program director** 12 hours of additional upper-division CS (to complete 34 upper-division hours in CS): ❑ _____ ❑ _____ ❑ _____ ❑ _____ ***5 of the upper-division CS courses taken to fulfill the above requirements must be designated as Honors (excluding CS 178H and CS 379H)**	40
SUBTOTAL OF REQUIRED COURSEWORK	104-110
UPPER-DIVISION COURSES REQUIREMENTS	
All students must complete 42 upper-division hours. Students will satisfy up to 40 hours by taking their required upper-division coursework (34 hours of upper-division CS; 6 hours of upper-division M). The remaining 2 hours of upper-division coursework may be completed by an upper-division elective course or by choosing an upper-division course in your degree requirements. If the 2 hours are completed by selecting an upper-division course to meet another degree requirement, these hours will not also count toward the total number of electives to complete the degree (e.g. upper-division Music chosen to complete the General Culture requirement). **Upper division course to reach total number of 42 upper-division hours:** ❑ _____	
ELECTIVES (may be taken Pass/Fail)	
♦ Electives are necessary to complete the 130 hours required for the BS in CS, Option II degree. Generally, the total number of electives required to reach 130 hours is 26. At least 2 hours of the electives may need to be upper-division – see above. ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ❑ _____ ***Notes:*** ▪ Once 30 hours of college credit is earned, up to 16 semester hours of electives may be taken pass/fail. ▪ Only two courses per semester may be taken pass/fail. ▪ No more than 16 hours of electives may be pass/fail.	20-26
TOTAL HOURS TO COMPLETE DEGREE	130

GENERAL DEGREE REQUIREMENTS: You must satisfy all the following conditions in order to graduate.

- Minimum cumulative UT GPA 2.0
- 18 hours of upper-division CS must be completed in residence.
- 30 semester hours must be completed in residence (in the classroom at UT).
- 24 of the last 30 semester hours counted toward the degree must be in residence.
- 42 upper-division semester hours.
- The following courses will not count toward this degree: CS 302, Element of Computing courses, M 301, MUS 101G, KIN 119 or PED one-hour activity courses. No more than 12 semester hours of Bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.

Catalog Choice: A student must fulfill all the degree requirements under a catalog covering any academic year in which the student was enrolled at the University. These requirements must be completed within six years of the end of the two-year period covered by that catalog (e.g. 2002-04 Catalog will expire in August 2010).

In Residence: Courses taken in a UT classroom are considered "in residence", while courses completed through UT Distance Learning, Credit by Exam or UT Extension are not.

Multiple Degrees: To earn an additional degree, the candidate must complete at least 24 semester hours in addition to those counted toward the bachelor's degree that requires the higher number of hours of credit. A student may not earn the same degree twice (i.e. Bachelor of Arts, though he/she may receive a Bachelor of Arts degree with 2 majors listed on the transcript).