

2018 – 2020 Integrated BS/MS of Science in CS: Sample 4-Year Plan

Year One	
CS 312: Intro to Programming (3 credit hours)*	CS 311: Discrete Math (3)
M 408N: Calculus 1 (4)*	CS 314: Data Structures (3) (QR Flag)
UGS 302/303: First Year Seminar (3)*	M 408S: Calculus 2 (4)
HIS 315K: History 1 (3)*	RHE 306: Rhetoric & Composition 1 (3)*
Social Science (3)*	HIS 315L: History 2 (3)*
Year Two	
CS 429: Comp. Org & Arch (4)	CS 439: Operating Systems (4) (II Flag)
M 408M: Calculus 3 (4)	CS Upper Division Elective (UDE) #1 (3)
SDS 321/M 362K: Probability/Statistics (3)	M 340L/SDS 329C: Linear Algebra (3)
GOV 310L: American Government (3)*	GOV 312L: Texas Government (3)*
General Elective (3)	General Elective (3)
Year Three	
CS 331: Algorithms (3) (QR Flag)	CS UDE #3 (3)
CS UDE #2 (3)	CS UDE #4 (3)
Science Sequence Part 1 (3-4)*	Science Sequence Part 2 (3-4)*
Foreign Lang. or Culture (3-6)	Foreign Lang. or Culture (3-6)
General Elective (0-3)	General Elective (0 - 3)
Year Four	
CS UDE #5 (3)	CS UDE #6 (3)
Additional math or science (3)	E 316L/M/N/P: Literature (3)*

Degree Planning Resources

Interactive Degree Audit	http://registrar.utexas.edu/students/degrees/ida
Official Degree Plans	https://cns.utexas.edu/degree-checklists
Foreign Culture Courses	https://cns.utexas.edu/students/degrees-majors-advising/university-core-curriculum/foreign-culture-requirement
Foreign Language Courses	http://liberalarts.utexas.edu/student-affairs/Majors-and-Degrees/foreign-language-requirement.php
Credit by Exam	http://learningsciences.utexas.edu/studenttesting/
Core Curriculum	http://www.utexas.edu/ugs/core/requirements

- The following course “flags” are required and may overlap with required courses: 2 writing flags including 1 upper division, 1 quantitative reasoning, 1 global cultures, 1 cultural diversity in the US, 1 ethics, 1 independent inquiry **(Only one writing flag may overlap with a core curriculum course)**
- Course flags are designated in the course schedule
- Courses that fulfill the core curriculum requirements (i.e. social science, visual & performing arts) are designated in the course schedule. Courses with an * next to them fulfill UT Core.
- Sample plan reflects current 2018-2020 catalog Bachelor of Science degree requirements
- 18 – 20 BS/MS Degree requires 120hrs total. Older degree plans may require additional hours and science requirements

CS Advising Center
GDC 2.702
512.471.9509
under-info@cs.utexas.edu

(QR)	Quantitative Reasoning Flag (1)
(WR)	Writing Flag (2)
(II)	Independent Inquiry Flag (1)
(CD)	Cultural Diversity Flag (1)
(EL)	Ethics Flag (1)
(GC)	Global Cultures Flag (1)

Course	Course Title	Flag	Fulfills Degree Requirement For
C S 103F	ETHICAL FOUNDATIONS IN C S	E	Elective Credit Only
C S 314	DATA STRUCTURES	QR	Meets Programming Requirement for All C S Degrees
C S 439/439H	PRINCIPLES OF COMPUTER SYSTEMS	II	Meets Systems Requirement for All C S Degrees
C S 331/331H	ALGORITHMS AND COMPLEXITY	QR	Meets Theory Requirement for All C S Degrees
C S 340D	DEBUGGING AND VERIFYING PROGRAMS	Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 342C	COMPUTATIONAL BRAIN	Wr UD *	Meets UD C S Elective Requirement for All C S Degrees
C S 344M	AUTONOMOUS MULTIAGENT SYSTEMS	II / Wr UD *	Meets UD C S Elective Requirement for All C S Degrees
C S 349	CONTEMPORARY ISSUES IN COMPUTER SCI	E / Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 354	COMPUTER GRAPHICS	II	Meets UD C S Elective Requirement for All C S Degrees
C S 354S	GAME DEV CAPSTONE 2-D	II *	Meets UD C S Elective Requirement for All C S Degrees
C S 354T	GAME DEV CAPSTONE 3-D	II *	Meets UD C S Elective Requirement for All C S Degrees
C S 361S	NETWORK SECURITY AND PRIVACY	Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 370	UNDERGRAD READING/WRITING	II	Meets UD C S Elective Requirement for All C S Degrees
C S 370F	UNDERGRAD READING/WRITING (contains WR Flag)	II / Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 371D	DISTRIBUTED COMPUTING	II	Meets UD C S Elective Requirement for All C S Degrees
C S 371P	OBJECT-ORIENTED PROGRAMMING	II	Meets UD C S Elective Requirement for All C S Degrees
C S 371R	INFORMATION RETRIEVAL AND WEB SEARCH	II	Meets UD C S Elective Requirement for All C S Degrees
C S 373	SOFTWARE ENGINEERING	Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 374L	LONGHORN STARTUP	Wr UD	Meets UD C S Elective Requirement for All C S Degrees
C S 378 (Topics Vary)	UNDERGRADUATE TOPICS IN COMPUTER SCI	II *	Meets UD C S Elective Requirement for All C S Degrees
C S 378	BEHAVIORAL ETHICS IN THE DIGITAL AGE	E *	Meets UD C S Elective Requirement for All C S Degrees
C S 378H	PUBLIC POLICY AND THE DIGITALLY NATIVE TECHNOLOGIST	Wr UD *	Meets UD C S Elective Requirement for All C S Degrees / Honors Requirement for Turing Scholars
C S 379H	COMPUTER SCI HONORS THESIS	II / Wr UD	Meets Thesis Requirement for Turing Scholars/Dean's Scholars Degree

* - may only contain flag for specific instructor - check course schedule to verify for a given semester

*** How Can I Complete Flags Within Courses Required by My Major? ***

Below are suggestions about how/where to get your University Flags within the requirements for your degree. Any course that contains a flag (even courses with multiple flags) will give you that respective flag as long as it is completed for a letter grade. **The only exception is on courses which contain both a CD and GC flag, as courses which contain both of these flags will only give you one or the other. Always check the course schedule for a given semester to verify a course you're planning to take contains the flag you're expecting, as flags are subject to change.**

Writing (WR): 2 total Writing Flags are required (one must be upper division)

C S courses which contain a Wr flag are listed above. Students can also use their Core courses (HIS, VAPA, Etc), minor/certificate courses (BSA only), Language/Art/Culture course (BSA only) or general electives.

Quantitative Reasoning (QR):

C S 331/331H will contain the QR flag and is required for all C S degrees.

Independent Inquiry (II):

C S 439 will contain the II flag and is required for all C S degrees. See chart above for other courses that contain the II flag.

Cultural Diversity in the US (CD):

Students can use their Core courses (HIS, VAPA, Etc), minor/certificate courses (BSA only), Language/Art/Culture course (BSA only) or general electives.

Global Cultures (GC):

Students can complete this flag by taking a Foreign Culture course (not Foreign Language for BS degrees). Students can also use their Core courses (HIS, VAPA, Etc), minor/certificate courses (BSA only), Language/Art/Culture course (BSA only) or general electives.

Ethics (E):

Students can complete this flag by taking one of the two upper division C S Electives that contain this flag (see chart above) or by taking the 1hr course dedicated to ethics. Students can also use their Core courses (HIS, VAPA, Etc), minor/certificate courses (BSA only), Language/Art/Culture course (BSA only) or general electives.