

Computer Science, Honors (BSCompSci)

Total Hours Required: 120

Plan of Study

The Plan of Study is a suggested four-year course sequence to support academic planning and serves as a helpful guide. Currently enrolled students should meet with their academic advisor to tailor their course selections and timelines to their individual goals and circumstances.

Course	Title	Hours
Year 1		
Semester 1		
C S 311H	Discrete Mathematics for Computer Science: Honors	3
C S 314H	Data Structures: Honors	3
M 408D	Sequences, Series, and Multivariable Calculus	4
<u>First-Year Signature Course (090)</u>		3
RHE 309S	Critical Reading and Persuasive Writing	3
Hours		16
Semester 2		
C S 429H	Computer Organization and Architecture: Honors	4
RHE 306	Rhetoric and Writing	3
<u>U.S. History (060)</u>		3
<u>Social and Behavioral Sciences (080)</u>		3
Hours		13
Year 2		
Semester 1		
C S 439H	Principles of Computer Systems: Honors	4
SDS 321	Introduction to Probability and Statistics	3
CH 301C	Foundations of Chemistry I	3
<u>American and Texas Government (070)</u>		3
BIO 315H	Advanced Introduction to Genetics: Honors	3
Hours		16
Semester 2		
C S 331H	Algorithms and Complexity: Honors	3
M 340L	Matrices and Matrix Calculations	3
CH 302C	Foundations of Chemistry II	3
<u>American and Texas Government (070)</u>		3
BIO 325H	Genetics: Honors	3
Hours		15
Year 3		
Semester 1		
Hours chosen from: Upper-Division C S		6
<u>U.S. History (060)</u>		3
Hours chosen from: College of Liberal Arts and/or the College of Fine Arts course (approved by departmental advisor)		3
Hours chosen from: Honors coursework		3
Hours		15
Semester 2		
Hours chosen from: Upper-division C S		3
Hours chosen from: Honors coursework		3
Hours chosen from: College of Liberal Arts and/or the College of Fine Arts course (approved by departmental advisor)		3
Hours chosen from: upper-division coursework		6
Hours		15
Year 4		
Semester 1		
C S 370	Undergraduate Reading and Research	3
<u>Humanities (040)</u>		3
Hours chosen from: upper-division coursework		3

Hours chosen from: Upper-division research course (approved by departmental honors advisor)		3
Free Elective		2
Hours chosen from: upper-division coursework		3
Hours		17
Semester 2		
C S 379H	Computer Science Honors Thesis	3
<u>Visual and Performing Arts (050)</u>		3
Hours chosen from: Upper-division C S		3
Hours chosen from: Upper-division C S		3
NSC 109.1	Planning Your Capstone Experience	1
Hours		13
Total Hours		120

Requirements

All requirements are listed below, starting with the most specialized moving to the most general. Additional requirements may follow the table, so be sure to read the entire page. Some required courses listed below may also satisfy [General Education](#) requirements, including [Core Curriculum](#).

Code	Title	Hours
Concentration		
<i>Honors Breadth Requirement (credit earned by examination may not be counted toward this requirement)</i>		
M 408D	Sequences, Series, and Multivariable Calculus	4
or M 427L	Advanced Calculus for Applications II	
C S 311H	Discrete Mathematics for Computer Science: Honors	3
C S 314H	Data Structures: Honors	3
Choose a sequence below:		6
Sequence 1:		
BIO 315H	Advanced Introduction to Genetics: Honors	
BIO 325H	Genetics: Honors	
Sequence 2:		
CH 301C	Foundations of Chemistry I	
CH 302C	Foundations of Chemistry II	
Sequence 3:		
PHY 301	Mechanics	
PHY 101L	Laboratory for Physics 301	
PHY 316	Electricity and Magnetism	
PHY 116L	Laboratory for Physics 316	
Hours chosen from: coursework from the College of Liberal Arts and/or the College of Fine Arts		6
Hours chosen from: coursework approved by the departmental honors advisor		21
M 340L	Matrices and Matrix Calculations	3
or M 341	Linear Algebra and Matrix Theory	
M 362K	Probability I	3
or SDS 321	Introduction to Probability and Statistics	
C S 429H	Computer Organization and Architecture: Honors	4
C S 331H	Algorithms and Complexity: Honors	3
C S 439H	Principles of Computer Systems: Honors	4
Hours chosen from: Upper-division C S		6
UGS 302	First-Year Signature Course (A section that is approved by the departmental honors advisor)	3
or UGS 303	First-Year Signature Course	
Hours chosen from:		1
NSC 109.1	Planning Your Capstone Experience	

NSC 109.2	Health Science Scholars Capstone Experience Preparation	
NSC 109.4	Polymathic Capstone Field Invention	
C S 379H	Computer Science Honors Thesis	3
Choose a sequence below:		3
Sequence 1:		
Upper-division research course that is approved by the departmental honors advisor		
Sequence 2:		
NSC 323	Natural Sciences Topics	
NSC 371	Capstone Thesis Seminar	
<i>Subtotal</i>		76
Degree		14
Free Elective		
<i>Subtotal</i>		14
<u>General Education</u>		
<u>Remaining Core Curriculum (42 hours total)</u>		30
<u>Foreign Language other than English, Beginning Proficiency</u>		
<i>Subtotal</i>		30
<u>College Requirements - Natural Sciences</u>		
<u>General University Requirements</u>		
Total Hours		120

Additional Requirements and Policies

To graduate, students must remain in good standing in the Dean's Scholars Honors Program, must submit an honors thesis approved by the departmental honors advisor, and present their research in an approved public forum, such as the college's annual Undergraduate Research Forum. More information about the Undergraduate Research Forum is available at <https://cns.utexas.edu/>.