

Astronomy, Astronomy Honors (BSAst)

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		
M 408D	Sequences, Series, and Multivariable Calculus	4
PHY 301	Mechanics	3
PHY 101L	Laboratory for Physics 301	1
AST 307	Introductory Astronomy	3
First-Year Signature Course (090)		3
Hours		14
Semester 2		
M 427J	Differential Equations with Linear Algebra	4
PHY 316	Electricity and Magnetism	3
PHY 116L	Laboratory for Physics 316	1
RHE 306	Rhetoric and Writing	3
GOV 310L	American and Texas Government	3
Hours		14
Year 2		
Semester 1		
PHY 315	Wave Motion and Optics	3
PHY 115L	Laboratory for Physics 315	1
Hours chosen from: Upper-division PHY		3
Social and Behavioral Sciences (080)		3
Hours chosen from: Liberal Arts/Fine Arts course		3
CH 301C	Foundations of Chemistry I	3
Hours		16
Semester 2		
Hours chosen from: Upper-division PHY		3
Hours chosen from: Upper-division PHY		3
Hours chosen from: Upper-division AST		3
CH 302C	Foundations of Chemistry II	3
Hours chosen from: Liberal Arts/Fine Arts course		3
Hours		15
Year 3		
Semester 1		
Hours chosen from: Upper-division PHY		3
Hours chosen from: Upper-division AST		3
RHE 309S	Critical Reading and Persuasive Writing	3
Hours chosen from: Additional Science honors course		3
U.S. History (060)		3
Hours		15
Semester 2		
Hours chosen from: Upper-division PHY		3
Hours chosen from: Upper-division PHY		3
Hours chosen from: Upper-division AST		3
Hours chosen from: Additional Science honors course		3
U.S. History (060)		3
Hours		15
Year 4		
Semester 1		
AST 379H	Honors Tutorial Course	3
Hours chosen from: Upper-division AST		3

GOV 312L	Issues and Policies in American Government	3
Free Elective		4
Free Elective		3
Hours		16
Semester 2		
AST 379H	Honors Tutorial Course	3
Hours chosen from: Upper-division PHY/AST course		3
Humanities (040)		3
Visual and Performing Arts (050)		3
Free Elective		3
Hours		15
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		
Honors Breadth Requirement (credit earned by examination may not be counted toward this requirement)		
Hours chosen from: Honors mathematics		3
CH 301C	Foundations of Chemistry I	3
CH 302C	Foundations of Chemistry II	3
Hours chosen from: Honors in a field within the college		3
Hours chosen from: Honors in a field within the college outside of mathematics department		3
Hours chosen from: Liberal Arts and/or Fine Arts		6
Hours chosen from: Approved by the departmental honors advisor		16
Additional Hours		
PHY 301	Mechanics	3
PHY 101L	Laboratory for Physics 301	1
PHY 315	Wave Motion and Optics	3
PHY 115L	Laboratory for Physics 315	1
PHY 316	Electricity and Magnetism	3
PHY 116L	Laboratory for Physics 316	1
Approved Upper-division Hours chosen from: Astronomy		12
Approved Upper-division Hours chosen from: Physics		18
Upper-division Hours chosen from: Astronomy or physics		3
Hours chosen from:		1

NSC 109.1	Planning Your Capstone Experience (for Health Science Scholars)	
NSC 109.2	Health Science Scholars Capstone Experience Preparation (for Dean's Scholars)	
NSC 109.4	Polymathic Capstone Field Invention (for Polymathic Scholars)	
AST 379H	Honors Tutorial Course	3
Choose a sequence below:		3
Sequence 1:		
AST 379H	Honors Tutorial Course (second section)	
Sequence 2:		
a three-semester-hour upper-division research course (approved by the departmental honors advisor.)		
Sequence 3:		
NSC 323	Natural Sciences Topics	

NSC 371	Capstone Thesis Seminar	
<i>Subtotal</i>		89
Degree (see details below)		6
Free electives: Additional coursework to reach total hours required.		1
<i>Subtotal</i>		7
General Education		
<u>Remaining Core Curriculum (42 hours total)</u>		24
UGS 302	First-Year Signature Course (Approved by the departmental honors advisor.)	
or UGS 303	First-Year Signature Course	
<u>Foreign Language other than English, Beginning Proficiency</u>		
<i>Subtotal</i>		24
<u>College Requirements - Natural Sciences</u>		
<u>General University Requirements</u>		
Total Hours		120

Degree - Bachelor of Science in Astronomy (BSAst)

Requirements

Code	Title	Hours
<u>Foreign Language and Culture</u>		
(astronomy honors students are exempt from this requirement)		6
Total Hours		6

Special Requirements

Students must earn a grade of at least C- in each mathematics and science course required for the degree, and a University grade point average in these courses of at least 2.00. More information about grades and the grade point average is given in the [General Information Catalog](#).

Honors Requirements

To graduate under astronomy honors, students must remain in good standing in the Dean's Scholars, Health Science Scholars, or Polymathic Scholars Honors Program, must submit an honors thesis, and present their research in an approved public forum, such as the college's annual [Undergraduate Research Forum](#) or CNS Honors Thesis Symposium. More information about the Undergraduate Research Forum is available at <https://cns.utexas.edu>.