

ASTROPHYSICS, BSLAS

for the degree of Bachelor of Science in Liberal Arts & Sciences Major in Astrophysics

The Department of Astronomy also offers a BSLAS in Computer Science & Astronomy (http://catalog.illinois.edu/undergraduate/eng_las/computer-science-astronomy-bs/)

for the degree of Bachelor of Science in Liberal Arts & Sciences Major in Astrophysics

Departmental distinction: A student majoring in astrophysics may earn distinction or high distinction by attaining a minimum grade point average of 3.4 or 3.75, respectively, in required major courses (defined in the table below) taken at UIUC. For highest distinction, in addition to meeting the minimum requirements for high distinction, a senior thesis (ASTR 490) must be completed with strong endorsement by the research supervisor. Questions about eligibility for distinction status should be directed to an astronomy advisor before the senior year.

General education: Students must complete the Campus General Education requirements including the campus general education language requirement.

Minimum required major and supporting course work: Normally equates to 65 hours. Twelve hours of 300- and 400-level in the major must be taken on this campus.

Minimum hours required for graduation: 120 hours

Code	Title	Hours
Core Requirements		17
ASTR 210	Introduction to Astrophysics	
PHYS 211	University Physics: Mechanics	
PHYS 212	University Physics: Elec & Mag	
PHYS 213	Univ Physics: Thermal Physics	
PHYS 214	Univ Physics: Quantum Physics	
PHYS 225	Relativity & Math Applications	
Advanced Astronomy		15
ASTR 310	Computing in Astronomy (CS 100 is recommended as a prerequisite but not required)	
Select three of the following four courses:		
ASTR 404	Stellar Astrophysics	
ASTR 405	Planetary Systems	
ASTR 406	Galaxies and the Universe	
ASTR 414	Astronomical Techniques	
At least 3 additional hours of approved 300- or 400-level ASTR courses.		
Excluded courses: ASTR 330, ASTR 350, and ASTR 390.		
Advanced Physics		12
PHYS 325	Classical Mechanics I	
PHYS 435	Electromagnetic Fields I	
At least 6 additional hours of approved 300- or 400-level PHYS courses		

Recommended courses include: PHYS 326, PHYS 401, PHYS 402, PHYS 404, PHYS 427, PHYS 436, PHYS 470, and PHYS 486.

Excluded courses: PHYS 398, PHYS 419, PHYS 420, PHYS 495 and PHYS 497.

Advanced Laboratory Techniques 3

At least one course taken for the Advanced Requirements must be from the following courses:

ASTR 414	Astronomical Techniques
PHYS 401	Classical Physics Lab
PHYS 402	Light
PHYS 404	Electronic Circuits

Supporting Technical Courses 18

MATH 220	Calculus (Students with previous calculus experience should consider MATH 221)
or MATH 221	Calculus I
MATH 231	Calculus II
MATH 241	Calculus III
MATH 285	Intro Differential Equations
MATH 415	Applied Linear Algebra

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Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a fourth level of a language other than English. See the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

First Year

First Semester	Hours	Second Semester	Hours
Free elective course		1 Free elective course	3
PHYS 211		4 ASTR 210	3
MATH 220 or 221		4 MATH 231	3
Language Other than English (3rd level)		4 Language Other than English (4th level)	4
Composition I or General Education course		4 General Education course or Composition I	3
		17	16

Second Year

First Semester	Hours	Second Semester	Hours
MATH 241		4 ASTR 310	3
PHYS 212		4 PHYS 214	2
PHYS 213		2 PHYS 225	2

General Education course	3 General Education course	3
Free elective course	3 Free elective course	3
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16		13

Third Year

First Semester	Hours	Second Semester	Hours
ASTR Advanced course		3 ASTR Advanced course	3
MATH 285		3 ASTR 300-400 level course	3
PHYS 325		3 PHYS 300-400 level course	3
General Education course		3 General Education course	3
General Education course		3 Free elective course	3
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15			15

Fourth Year

First Semester	Hours	Second Semester	Hours
MATH 415		3 ASTR Advanced course	3
PHYS 435		3 PHYS 300-400 level course	3
Free elective course		2 Advanced Laboratory Techniques	3
General Education course		3 Free elective course	3
General Education course		3 Free elective course	2
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14			14

Total Hours 120

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Department of Astronomy website (<https://astro.illinois.edu/>)
Astronomy Faculty (<https://astro.illinois.edu/directory/faculty/>)
Astronomy advising (<https://astro.illinois.edu/academics/undergraduate-program/>)

Overview of College Admissions & Requirements: Liberal Arts & Sciences (<http://catalog.illinois.edu/schools/las/>)
College of Liberal Arts and Sciences website (<https://las.illinois.edu/>)