REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN ASTROPHYSICS

COLLEGE OF ARTS AND SCIENCES

THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education:

Summer 2018 through Spring 2019

Minimum Credit Hours and Grade Point Averages Required								
Total Hours —	120	Upper-Division Within Total	48					
Major Hours —	49							
Grade Point Averages:								
Overall & Major: Combined OU/Transfer - 2.00 OU - 2.00								
48 Upper-Dision Hours REQUIRED								

Astrophysics

B082

Bachelor of Science in Astrophysics

The state of the s								
OU encourages students to complete at least 30 hours of applicable	e cours	ework each year to have the oppo	ortunity	to graduate in four years.				
GENERAL EDUCATION AND COLLEGE REQUIREMENTS Courses graded P/NP will not apply.		Some courses required for the major may also fulfill University General Education and/or College of Arts & Sciences Requirements						
Courses for fulfillment of General Education and College of Arts & Sciences requirements must be from the approved General Education course list published in the Class Schedule or at http://www.ou.edu/enrollment/home/ .		MAJOR REQUIREMENTS MAJOR SUPPORT REQUIREMENTS A grade of C or better must be earned in each required astronomy and physics course and in the required mathematics courses.						
cally fulfilled by a previous degree.								
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INFORMATION CONCERNING GENERAL RULES, REGULATIONS AND MINIMUM REQUIREMENTS

TOTAL HOURS: A minimum of 120 semester hours acceptable toward graduation must be completed.

UPPER-DIVISION HOURS: A minimum of 48 upper-division semester hours acceptable toward graduation must be completed. OU courses numbered 3000 or above are upper-division. Transfer work is counted as lower-division or upper-division credit depending on the level at which it was offered at the institution where it was earned. Two-year college work is accepted only as lower-division credit.

ARTS AND SCIENCES HOURS: At least 80 semester hours of liberal arts and sciences courses are required for a BA degree. At least 55 semester hours of liberal arts and sciences courses are required for a BS degree.

MAJOR WORK: A minimum of 30 semester hours must be earned in the major, including a minimum of 15 credit hours at the upper-division level.

PASS/NO PASS ENROLLMENT: A maximum of 16 semester hours of free elective credit may be attempted under this option.

INDIVIDUALSTUDIES (e.g., courses titled "Independent Study"): A maximum of 12 total semester hours may be counted toward graduation, excluding Honors Reading and Honors Research

P.E. COURSES: No physical education activity courses will be counted toward the 120 semester hours of acceptable credit for graduation.

SENIOR INSTITUTION HOURS: A minimum of 60 semester hours applied toward graduation must be earned at senior (4-year) institutions.

- At least 15 of the final 30 hours applied toward the degree or at least 50 percent of the hours required by the institution in the major field must be satisfactorily completed at the awarding institution.
- At least 15 semester hours of upper-division major work must be completed in residence at OU.
- OU correspondence courses are *not* considered resident credit.
- Credits earned via examination are neither resident nor nonresident credit.

GRADE POINT AVERAGES: Students must earn a minimum overall 2.00 for each of the following: Combined Retention GPA (all college grades), OU Retention GPA, GPA for all major courses, and GPA for all major courses taken at OU. Some schools and departments of the College have higher minimum grade point averages required for their students.

SPECIAL DEGREES: Students may qualify for an Honors degree (cum Laude, Magna cum Laude, or Summa cum Laude) by completing specific requirements of the Honors College. A degree will be earned with Distinction if the student completes at least 60 semester hours at OU with at least a 3.60 combined retention GPA and OU retention GPA. A degree will be earned with Special Distinction if the student completes at least 60 semester hours at OU with at least a 3.90 combined retention GPA and OU retention GPA.

APPLICATION FOR GRADUATION: Students must apply for graduation during the term in which they complete their degree requirements in order to graduate in that term. The graduation application is available on line on your Ozone site. Deadlines for the OU Graduation Application are: March 1 for Spring certification and the University of Oklahoma Commencement book; July 1 for Summer graduation certification; and, October 1 for Fall graduation certification.

Refer to the OU General Catalog for more complete information.

Suggested Semester Plan of Study — Astrophysics - B082

This plan shows one possible grouping of courses that would allow students to graduate in four years. Please refer to the front of the degree checksheet for official requirements. Students must consult with College of Arts and Sciences and/or Department of Physics and Astronomy academic advisers to verify that courses selected each semester fulfill the recommended plan and satisfy university, College of Arts and Sciences, and Astrophysics major requirements.

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
RESHMAN	ENGL 1113, Principles of English Composition (Core I) MATH 1823, Calculus & Analytic Geometry I (Core I) PHYS 1205, Introductory Physics I for Physics Majors Beginning Foreign Language (Core I)		ENGL 1213, Principles of English Composition (Core I), or EXPO 1213, Expository Writing (Core I) MATH 2423, Calculus & Analytic Geometry II PHYS 1215, Intro. Physics II for Physics Majors Beginning Foreign Language continued (Core I)	3 3 5 5
н	TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16
SOPHOMORE	ASTR 2513, Introductory Astrophysics MATH 2433, Calculus & Analytic Geometry III PHYS 2203, Intro. Physics III: Modern Physics Biological Science without lab (Core II) Intermediate Foreign Language	3 3 3 3 3	HIST 1483, United States 1492-1865, or 1493, United States 1865-Present (Core IV) MATH 2443, Calculus & Analytic Geometry IV MATH 3413, Physical Mathematics I PHYS 3043, Physical Mechanics I Social Science (Core III)	3 3 3 3 3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
JUNIOR	ASTR 3103, Stars P SC 1113, American Federal Government (Core III) PHYS 3053, Physical Mechanics II PHYS 3183, Electricity and Magnetism IUnderstanding Artistic Forms (Core IV)	3 3 3 3 3	ASTR 3113, Galaxies and Cosmology PHYS 3302, Advanced Laboratory I, or 3312, Advanced Laboratory II PHYS 3803, Intro. to Quantum Mechanics I Western Civilization & Culture (Core IV) Free Elective, upper-division (3000-4000-level)	3 2 3 3 3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	14
SENIOR	ASTR 4303, Stellar Astrophysics PHYS 4153, Statistical Mechanics PHYS 4300, Senior Research Project (Capstone) Humanities, upper-division, outside major (Gen. Ed.) Non-Western Culture (Core IV)	3 3 2 3 3	PHYS 4300, Senior Research Project (Capstone) Astrophysics Major Elective, upper-division (3000-4000-level) Humanities, upper-division, outside major (Gen. Ed.) Free Elective, lower- or upper-division Free Elective, lower- or upper-division Free Elective, upper-division (3000-4000-level)	2 3 3 2 3 3 3
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	16

 $Bachelor's\ degrees\ require\ a\ minimum\ of\ 48\ hours\ of\ upper-division\ (3000-4000)\ coursework.$

This plan of study should not be used in lieu of academic advisement.

Students who transfer from other institutions (particularly community colleges) must verify credit hour and course requirements with their college academic counselor, ELLH 124, 325-4411, http://ou.edu/cas.

Please make an appointment for a degree check with your college academic counselor once you have earned 90 hours. Appointments may be scheduled at https://iadvise.ou.edu/