Last Updated: July 21, 2023

### **PHYSBS-ASTR Degree Snapshot**

<u>University Perspectives</u> (0-1 hr)	
UNIV 1001, University Perspectives or exemption	Physics Core (22 hrs)
	PHYS 2054, University Physics I
State Core English Composition (0-6 hrs)	PHYS 2074, University Physics II
<b>ENGL 1013</b> , Composition 1 or exemption	PHYS 2094, University Physics III
<b>ENGL 1023</b> , Composition 2 or exemption	PHYS 3453, Electromagnetic Theory I
	PHYS 3613, Modern Physics
State Core US History or Government (3 hrs)	PHYS 4073, Introduction to Quantum Mechanics
US HIST/PLSC	PHYS 4991, Physics Seminar
State Core Mathematics (0 hrs)	Astronomy Concentration (16 hrs)
Met with Courses in major	PHYS 3544, Optics
	ASTR 3000+
State Core Natural Sciences w/ labs (0 hrs)	ASTR 3000+
Met with courses in major.	ASTR/PHYS 3000+
Chata Carr Cartal Cataraga (O bur)	ASTR/PHYS 3000+
State Core Social Sciences (9 hrs)	
Social Science	General Electives (23-37 hrs)
Social Science	How you use these hours will depend on your educational and career goals.
Social Science	Early in your degree you might use this section to jot down ideas for how to plan. As you get closer to graduation, you might use this section
State Core Fine Arts (3 hrs)	to track which classes you've taken outside the above requirements.
Fine Art	
Thic Art	
State Core Humanities (3 hrs)	
Humanities	
Non-Physics Sciences (8 hrs, see list below)	
Science	
Science	
Mathematics Courses (19-26 hrs)	
MATH 1203, College Algebra (or math placement in	
to higher math)	
MATH 1284c, Pre-Calculus OR MATH 1213, Plane	
Trigonometry (or math placement in to higher math)	
MATH 2554c, Calculus I	
MATH 2564c, Calculus II	
MATH 2574c, Calculus III	
MATH 2584, Elementary Differential Equations	
MATH 3083, Linear Algebra	

### **Graduation Plan**

Use the following additional resources, in addition to this major map, to complete your graduation plan (Catalog, and your Degree Audit in UAconnect). Many students have more than one major, minor, or pre-professional goal that has additional required classes. This tool allows you to combine all your educational goals in to one plan.

High School credit	List all Advanced Placement, International Baccalaureate, Dual or Concurrent credit			
Year	Fall	Spring	Summer	Total
Year 1				Total 1 <sup>st</sup> year credit hours (aim for 30):
Year 2				Total 2 <sup>nd</sup> year credit hours (aim for 60):
Year 3				Total 3 <sup>rd</sup> year credit hours (aim for 90):
Year 4				Total 4 <sup>th</sup> year credit hours (Must be at least 120):
Do you have All state mir All Major(s), Writing requ Have At leas 24 hours of 30 hours of 40 hours of		of Arts and Sciences classes Arkansas. This can include courses taken for the 24-ho equisite. Can include transfer credit.) This can include e classes)		30-hour rules.

- MATH 0001L, MATH 0002L, MATH 0003, and MATH 0131L
- Duplicated/Repeated courses (i.e.: if the same course is taken more than once, the hours will only count once for graduation)

#### **Department Information:**

Faculty who have exception/substitution authority:

<u>Transfer Coursework Restriction:</u> At least 50% of a student's Arts and Sciences (ARSC) major or minor must be taken at the University of Arkansas.

<u>GPA (Grade Point Average)</u>: Every student must have at least a 2.00 cumulative grade point average to be eligible to graduate from the University of Arkansas.

Please visit <a href="https://catalog.uark.edu/undergraduatecatalog">https://catalog.uark.edu/undergraduatecatalog</a> for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the <a href="courses of instruction">courses of instruction</a> page for course descriptions.

### **Degree Requirement Breakdown by Category**

The following information is designed to help you navigate your experience in your degree and answer common questions that may come up for each requirement.

Category	Degree Requirements	Curriculum Notes
UNIVERSITY	· ·	Or equivalent from another University of Arkansas college. (AFLS
<u>PERSPECTIVES</u>	UNIV 1001, University Perspectives	1023H, ARSC 1201, GNEG 1111, HIST 1003(H), HIST 1003(H), PLSC
		1003, BUSI/WCOB 1111)
0-1 hr		
		<b>Note</b> : students who transfer to the University of Arkansas with at
		least 24 credit hours will have this requirement waived.
STATE CORE		See <u>Catalog</u> for information about placement and/or exemption.
COMPOSITION	ENGL 1013, Composition 1 or SAT/ACT exemption	
0.51	ENGL 1023, Composition 2 or SAT/ACT exemption	
0-6 hrs	Choose 1: *	*Comp courses may appear as antique in multiple areas of the
STATE CORE US HISTORY or	HIST 2003, History of the American People to 1877	*Some courses may appear as options in multiple areas of the
GOVERNMENT	HIST 2003, History of the American People to 1877     HIST 2013, History of the American People 1877 to	State Core. You can only count each course 1 time in the State Core
	Present	and will need unique courses in each of the content areas below.
3 hrs	PLSC 2003, American National Government	
STATE CORE	Met with courses in major	Based on ACT/SAT or other math placement scores, students may
<b>MATHEMATICS</b>		need to enroll in additional remediation related courses. See
		catalog or math placement website for additional information.
0 hrs		
STATE CORE	Met with courses in major	
NATURAL		
SCIENCES CORE		
0.1		
0 hrs STATE CORE	Choose 3: *	Students must take classes from at least two departments in the
SOCIAL SCIENCES	AGEC 1103, Principles of Agriculture Microeconomics	
SO C., IL SCILITOLS	AGEC 2103, Principles of Agriculture Microeconomics     AGEC 2103, Principles of Agriculture Macroeconomics	Social Sciences category.
9 hrs	AGEC 2103, Principles of Agriculture Macroeconomics     ANTH 1023, Intro to Cultural Anthropology	*Same courses may appear as entions in multiple areas of the
		*Some courses may appear as options in multiple areas of the
	COMM 1023, Communication in a Diverse World     COM 2013, Principles of Magazaganamics	State Core. You can only count each course 1 time in the State Core and will need unique courses in each of the content areas below.
	ECON 2013, Principles of Macroeconomics	and will need unique courses in each of the content areas below.
	ECON 2023, Principles of Microeconomics	
	ECON 2143, Basic Economics: Theory and Practice	
	EDST 2003, Introduction to Educational Studies	
	GEOS 1123, Human Geography	
	GEOS 2003, World Regional Geography	
	HDFS 1403, Life Span Development	
	HDFS 2413, Family Relations	
	HDFS 2603, Rural Families & Communities	
	HIST 1113, Institutions and Ideas of World Civilizations I	
	HIST 1123, Institutions and Ideas of World Civilizations II	
	HIST 2003, History of the American People to 1877	
	HIST 2013, History of the American People 1877 to	
	Present	
	HIST 2093, Animals in World History	
	HUMN 1114H, Honors Roots of Culture to 500 C.E.	
	(Honors only)	
	HUMN 2114H, Honors Birth of Modern Culture, 1600-	
	1900 (honors only)	
	INST/PLSC 2813, Intro to International Relations & Global	
	Studies	
	500000	

	PLSC 2003, American National Government	
	PLSC 2013, Intro to Comparative Politics	
	PLSC 2203, State and Local Government	
	PSYC 2003, General Psychology	
	RESM 2853, Leisure and Society	
	SOCI 2013, General Sociology	
	SOCI 2033, Social Problems	
	STEM 2003, The Art of STEM Communication	
STATE CORE FINE	Choose 1:	Classes taken in this category may not overlap in any other core
<u>ARTS</u>	ARCH 1003, Architecture Lecture	category
3 hrs	ARHS 1003, Art Lecture	
31113	COMM 1003, Film Lecture	
	DANC 1003, Movement and Dance	
	ENGL 2023, Creative Writing 1	
	HUMN 2114H, Honors Birth of Modern Culture 1600-	
	1900 (honors only)	
	LARC 1003, The American Landscape	
	MLIT 1003, Experiencing Music	
	MLIT 1013, Music and Society (music majors only)	
	MLIT 1333, Popular Music	
	THTR 1003, Theatre Appreciation	
	THTR 1013, Musical Theatre Appreciation	
	THTR 1683, Acting I	
	THTR 1883, Acting 1 for Theatre majors	
STATE CORE	Choose 1: *	*Some courses may appear as options in multiple areas of the
<u>HUMANITIES</u>	AAST 2023, The African American Experience	State Core. You can only count each course 1 time in the State Core
3 hrs	ANTH 1033, Introduction to Archeology	and will need unique courses in each of the content areas below.
	ARCH 1013, Diversity and Design	
	CLST 1003, Introduction to Classical Studies: Greece	
	CLST 1013, Introduction to Classical Studies: Rome	
	COMM 1233, Media, Community and Citizenship	
	DANC 1003, Dance Appreciation	
	DASC 2133, Data Privacy & Ethics	
	ENGL 1213, Introduction to Literature	
	ENGL 2023, Creative Writing I	
	GNST 2003, Introduction to Gender Studies	
	HIST 1113, Institutions and Ideas of World Civilizations I	
	HIST 1123, Institutions and Ideas of World Civilizations II	
	HIST 2003, History of the American People to 1877	
	HIST 2013, History of the American People 1877 to	
	Present	
	HUMN 1124H*, Honors Equilibrium of Cultures 500-1600	
	(Honors only)	
	HUMN 2213, Introduction to World Religions	
	LALS 2013, Introduction to Latin American and Latino	
	Studies	
	MRST 2013, Introduction to Medieval and Renaissance	
	Studies	
	MUSY 2003, Music in World Cultures	
	PHIL 2003, Introduction to Philosophy	
	PHIL 2103, Introduction to Ethics	
	PHIL 2203, Logic	
	PHIL 2303, Human Nature and the Meaning of Life	
	PHIL 3103, Ethics and the Professions	

	ONOWIT (FHT3B3-A3TK) 2018-13 THE	
	THTR 1003, Theatre Appreciation	
	THTR 1013, Musical Theatre Appreciation	
	WLIT 1113, World Literature: Beginnings to 1650 CE	
	WLIT 1123, World Literature: 1650 CE to Present	
	Any Intermediate level foreign language numbered at the 2000 level	
	Choose 2 sciences from below:	*Students may count GNEG 1111 in lieu of CHEM 1101L. Students
NON-PHYSICS	CHEM 1103/1101L, University Chemistry I*	will need to ask their academic advisor to adjust their degree audit.
<u>SCIENCES</u>	CHEM 1123/1121L, University Chemistry II	
8 hrs	CSCE 2004, Programming Foundations I	**Student may also count MEEG 3202 and 3212 for 4 hours of non-
	CSCE 2014, Programming Foundations II	Physics Sciences. Students will need to ask their academic advisor
	BIOL 1543/1541L, Principles of Biology	to adjust their degree audit.
	BIOL 1584. Biology for Majors	
	GEOS 1113/1111L, Physical Geology	
	GEOS 1113/11111, Firth Science	
MATHEMATICS		Students must earn a C or higher to use a class as a pre-requisite.
COURSES	<ul> <li>MATH 1203, College Algebra (or <u>math placement</u> in to higher math)</li> </ul>	Stadents must carri a c or migner to use a class as a pre-requisite.
	MATH 1284c, Pre-Calculus OR MATH 1213, Plane	See <u>catalog</u> for additional pre-requisite information for individual
19-26 hrs	Trigonometry (or <u>math placement</u> in to higher math)	classes.
	MATH 2554c, Calculus I (pre-req: MATH 1284c, 1213, or	
	math placement)*	*MATH 2445, Calculus I with Review, can also count here.
	MATH 2564c, Calculus II (pre-req: MATH 2554c)	
	MATH 2574c, Calculus III (pre-req MATH 2564c)	##a. I
	MATH 2584, Elementary Differential Equations (pre-req:	**Students may not receive credit for both MATH 3093 and MATH 3083. MEEG 2703, can be substituted for MATH 3083. Students
	MATH 2564c)	will need to ask their academic advisor to adjust their degree audit.
	MATH 3083, Linear Algebra (Pre-req: MATH 2554c)**	
PHYSICS CORE	PHYS 2054, University Physics I (pre-req: MATH	*While the catalog states that MATH 2554 and 2564 are pre-
22 hrs	2554c)*	requisites to Physics 1 & 2, Physics majors may request to take them as co-requisites by emailing <a href="mailto:physics@uark.edu">physics@uark.edu</a> .
	PHYS 2074, University Physics II (pre-req: PHYS	them as co-requisites by emailing <u>physics@dark.edd</u> .
	2054 and MATH 2564)*	**Students may take MEEG 2403 and MEEG 3503 in lieu of PHYS
	PHYS 2094, University Physics III (Fall only. pre-req:	2094. Students will need to ask their academic advisor to adjust
	PHYS 2074. Co or pre-req: MATH 2574)**	their degree audit once they are done with both.
	PHYS 3453, Electromagnetic Theory I (Spring only.	
	pre-req: PHYS 2074 and MATH 2574. Co or pre-req:	
	MATH 2584)	
	PHYS 3613, Modern Physics (pre-req: PHYS 2074)	
	PHYS 4073, Introduction to Quantum Mechanics	*** Majors must propose participation in a research experience project no later than the end of their junior year of study. A written
	(Fall only. pre-req: PHYS 3613, MATH 2574, and	report of the results must be submitted during Senior Seminar
	MATH 2584)	(PHYS 4991). PHYS 4991 meets the Fulbright Writing Requirement.
	PHYS 4991, Physics Seminar***	
ASTRONOMY	• PHYS 3544, Optics (pre-req: MATH 2574 and PHYS 2074. Co	Honors students can use some electives for specific course
CONCENTRATION	or pre-req: MATH 2584)	requirements. See below for more details.
16 hrs	Take 6 hrs of ASTR 3000+ courses.	
	Take <b>6 hrs</b> ASTR or PHYS 3000+ courses.	
GENERAL	Hours will vary depending on math placement and whether a	Some general electives may need to be upper level to meet
ELECTIVES	student is exempt from ENGL 1013 and 1023.	college and university residency requirements. See Graduation
22 27 6		<u>Checklist</u> on page 2 for more information.
23-37 hrs WRITING	The college writing requirement may be satisfied in one of two	
REQUIREMENT	ways:	

	<ul><li>Completion of PHYS 4991</li><li>Successful honors thesis defense</li></ul>	
HONORS	Minimum Requirements for Honors:  Maintain cumulative grade point average of 3.5 in all coursework (and a 3.124 PHYS GPA)  Complete a minimum of 12 hours of honors courses from the UofA (including 6 hrs of PHYS 399VH and 3 hrs of PHYS 3923H).  Complete and defend Honors Thesis  See Catalog for full description of requirements.	Honors Thesis Timeline: Honors students should consistently check the honors thesis timeline to stay on track to complete your honors thesis.  College Honors: Students who also are following the College Honors Core for Bachelor of Science programs need to also complete those additional requirements:  • 2023-24 catalog requirements • 2022-23 and older catalog requirements