

# MAJOR MAP FOR BACHELOR OF ARTS IN PHYSICS (PHYSBA) 2024-25 CATALOG YEAR

Name: \_\_\_\_\_ ID Number: \_\_\_\_\_ Date: \_\_\_\_\_ Anticipated Graduation Semester: \_\_\_\_\_

## PHYSBA Degree Snapshot

### University Perspectives (0-1 hr)

\_\_\_\_\_ UNIV 10051, University Perspectives or exemption

### State Core English Composition (0-6 hrs)

\_\_\_\_\_ ENGL 10103, Composition 1 or exemption

\_\_\_\_\_ ENGL 10203, Composition 2 or exemption

### State Core US History or Government (3 hrs)

\_\_\_\_\_ US HIST/PLSC \_\_\_\_\_

### State Core Mathematics (0 hrs)

Met with Courses in major

### State Core Natural Sciences w/ labs (0 hrs)

Met with courses in major.

### State Core Social Sciences (9 hrs)

\_\_\_\_\_ Social Science \_\_\_\_\_

\_\_\_\_\_ Social Science \_\_\_\_\_

\_\_\_\_\_ Social Science \_\_\_\_\_

### State Core Fine Arts (3 hrs)

\_\_\_\_\_ Fine Art \_\_\_\_\_

### State Core Humanities (3 hrs)

\_\_\_\_\_ Humanities \_\_\_\_\_

### Mathematics Courses (12-16 hrs)

\_\_\_\_\_ MATH 11003, College Algebra **OR** MATH 13004,  
Pre-Calculus **OR** MATH 12003, Plane Trigonometry

\_\_\_\_\_ MATH 24004, Calculus I or MATH 22003, Survey of  
Calculus

\_\_\_\_\_ MATH/STAT 20000+ \_\_\_\_\_

\_\_\_\_\_ MATH/STAT 20000+ \_\_\_\_\_

### Physics Requirements (24 hrs)

\_\_\_\_\_ PHYS 20103/20101, College Physics I

\_\_\_\_\_ PHYS 20203/20201, College Physics II

\_\_\_\_\_ PHYS 36103 Modern Physics

\_\_\_\_\_ PHYS 49901, Physics Seminar

Take 12 additional credit hours chosen from any physics (PHYS) or astronomy (ASTR) courses at the 30000-level or above, which must include at least one of the following Junior level labs:

\_\_\_\_\_ PHYS 32103 Electronics in Experimental Physics,  
PHYS 35404 Optics, or PHYS 3610V Modern Physics  
Laboratory \_\_\_\_\_

\_\_\_\_\_ ASTR/PHYS 30000+ \_\_\_\_\_

\_\_\_\_\_ ASTR/PHYS 30000+ \_\_\_\_\_

\_\_\_\_\_ ASTR/PHYS 30000+ \_\_\_\_\_

\_\_\_\_\_ ASTR/PHYS 30000+ \_\_\_\_\_

### Additional Emphasis (9 hrs)

Upper-Level Special Emphasis: Take an additional 9 credit hours at the 30000-level or above. Students may choose any courses numbered 30000 level or higher but should choose courses that align with their career goals and interests

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\_\_\_\_\_

\_\_\_\_\_

### General Electives (57-70 hrs)

How you use these hours will depend on your educational and career goals. 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 to track which classes you've taken outside the above requirements.

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## Advising Notes

<h3>Advising Notes</h3>
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## 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):

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### Graduation Checklist (does your plan include the following):

- 2.0 minimum overall UofA GPA (Courses taken at other colleges or universities are not factored into this GPA)
- All state minimum core requirements
- All Major(s)/Minor(s) requirements
- [Writing requirement](#) complete
- At least 50% of each major/minor taken from UofA
- 24 hours of 30000+ classes exclusively from Fulbright College of Arts and Sciences classes
- 30 hours of 30000+ classes exclusively from the University of Arkansas. This can include courses taken for the 24-hour rule.
- 40 hours of upper-level classes. (30000+ or 20000+ with a pre-requisite. Can include transfer credit.) This can include courses taken for the 24-hour and 30-hour rules.
- 120 total eligible credit hours (see below for a list of ineligible classes)

Please visit <https://catalog.uark.edu/undergraduatecatalog> for an extensive list of core, major, graduation, and pre-requisite requirements. To read more about individual classes, visit the [courses of instruction](#) page for course descriptions.

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## 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
<a href="#">UNIVERSITY PERSPECTIVES</a>  0-1 hr	<ul style="list-style-type: none"> <li>UNIV 10051, University Perspectives (or UNIV 100H1)</li> </ul>	Or equivalent from another University of Arkansas college. (AFLS 102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H), HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB 11101, WCOB/BUSI 111H1)  <b>Note:</b> students who transfer to the University of Arkansas with at least 24 credit hours will have this requirement waived.
<a href="#">STATE CORE COMPOSITION</a>  0-6 hrs	<ul style="list-style-type: none"> <li>ENGL 10103, Composition 1 or SAT/ACT exemption (or ENGL 101H3)</li> <li>ENGL 10203, Composition 2 or SAT/ACT exemption (or ENGL 102H3)</li> </ul>	See <a href="#">Catalog</a> for information about placement and/or exemption.
<a href="#">STATE CORE US HISTORY or GOVERNMENT</a>  3 hrs	<b>Choose 1: *</b> <ul style="list-style-type: none"> <li>HIST 20003, History of the American People to 1877</li> <li>HIST 20103, History of the American People 1877 to Present</li> <li>PLSC 20003, American National Government (or PLSC 200H3)</li> </ul>	*Some courses may appear as options in multiple areas of the 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.
<a href="#">STATE CORE MATHEMATICS</a>  0 hrs	Met with courses in major	Based on ACT/SAT or other math placement scores, students may need to enroll in additional remediation related courses. See <a href="#">catalog</a> or <a href="#">math placement</a> website for additional information.
<a href="#">STATE CORE NATURAL SCIENCES CORE</a>  0 hrs	Met with courses in major	
<a href="#">STATE CORE SOCIAL SCIENCES</a>  9 hrs	<b>Choose 3: *</b> <ul style="list-style-type: none"> <li>AGEC 11003, Principles of Agriculture Microeconomics (or AGECE 110H3)</li> <li>AGEC 21003, Principles of Agriculture Macroeconomics (or AGECE 210H3)</li> <li>ANTH 10203, Intro to Cultural Anthropology (or ANTH 102H3)</li> <li>COMM 10203, Communication in a Diverse World (or ANTH 102H3)</li> <li>ECON 21003, Principles of Macroeconomics (or ECON 210H3)</li> <li>ECON 22003, Principles of Microeconomics (or ECON 220H3)</li> <li>ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3)</li> <li>EDST 20003, Introduction to Educational Studies</li> <li>GEOG 11103, Human Geography (or GEOG 111H3)</li> <li>GEOG 21003, World Regional Geography (or GEOG 210H3)</li> <li>HDFS 14003, Life Span Development (HDFS 140H3)</li> <li>HDFS 24103, Family Relations (or HDFS 241H3)</li> </ul>	Students must take classes from at least two departments in the Social Sciences category.  *Some courses may appear as options in multiple areas of the 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.

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	<ul style="list-style-type: none"> <li>• HDFS 26003, Rural Families &amp; Communities (HDFS 260H3)</li> <li>• HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3)</li> <li>• HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3)</li> <li>• HIST 20003, History of the American People to 1877</li> <li>• HIST 20103, History of the American People 1877 to Present</li> <li>• HIST 20903, Animals in World History</li> <li>• HUMN 111H4, Honors Roots of Culture to 500 C.E. (Honors only)</li> <li>• HUMN 211H4, Honors Birth of Modern Culture, 1600-1900 (honors only)</li> <li>• INST/PLSC 28103, Intro to International Relations &amp; Global Studies (or INST/PLSC 281H3)</li> <li>• JOUR 10203, Media and Society</li> <li>• PLSC 20003, American National Government (or PLSC 200H3)</li> <li>• PLSC 20103, Intro to Comparative Politics</li> <li>• PLSC 21003, State and Local Government</li> <li>• PSYC 20003, General Psychology (or PSYC 200H3)</li> <li>• RESM 28503, Leisure and Society (or RESM 285H3)</li> <li>• SOCI 10103, General Sociology (or SOCI 201H3)</li> <li>• SOCI 20103, Social Problems</li> <li>• STEM 20003, The Art of STEM Communication</li> </ul>	
<p><b>STATE CORE FINE ARTS</b></p> <p><b>3 hrs</b></p>	<p><b>Choose 1: *</b></p> <ul style="list-style-type: none"> <li>• ARCH 10003, Architecture Lecture (or ARCH 100H3)</li> <li>• ARHS 10003, Art Lecture (or ARHS 100H3)</li> <li>• COMM 10003, Film Lecture (or COMM 100H3)</li> <li>• DANC 10003, Movement and Dance</li> <li>• ENGL 20103, Creative Writing 1</li> <li>• HUMN 211H4, Honors Birth of Modern Culture 1600-1900 (honors only)</li> <li>• LARC 10003, The American Landscape (or LARC 100H3)</li> <li>• MLIT 10003, Experiencing Music (or MLIT 100H3)</li> <li>• MLIT 10103, Music and Society (music majors only. Or MLIT 101H3)</li> <li>• MLIT 13303, Popular Music</li> <li>• THTR 10003, Theatre Appreciation (or THTR 100H3)</li> <li>• THTR 10103, Musical Theatre Appreciation (or THTR 101H3)</li> <li>• THTR 16803, Acting I</li> <li>• THTR 18803, Acting 1 for Theatre majors</li> </ul>	<p>*Some courses may appear as options in multiple areas of the 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.</p>
<p><b>STATE CORE HUMANITIES</b></p> <p><b>3 hrs</b></p>	<p><b>Choose 1: *</b></p> <ul style="list-style-type: none"> <li>• AAST 20203, The African American Experience</li> <li>• ANTH 10303, Introduction to Archeology</li> <li>• ARCH 10103, Diversity and Design (or ARCH 101H3)</li> <li>• CLST 10003, Introduction to Classical Studies: Greece (or CLST 100H3)</li> <li>• CLST 10103, Introduction to Classical Studies: Rome (or CLST 101H3)</li> </ul>	<p>*Some courses may appear as options in multiple areas of the 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.</p>

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	<ul style="list-style-type: none"> <li>• COMM 12303, Media, Community and Citizenship (or COMM 123H3)</li> <li>• DANC 10003, Dance Appreciation</li> <li>• DASC 21303, Data Privacy &amp; Ethics</li> <li>• ENGL 11103, World Literature: Beginnings to 1650 CE (or ENGL 111H3)</li> <li>• ENGL 11203, World Literature: 1650 CE to Present (or ENGL 112H3)</li> <li>• ENGL 12103, Introduction to Literature (or ENGL 121H3)</li> <li>• ENGL 20103, Creative Writing I</li> <li>• GNST 20003, Introduction to Gender Studies (or GNST 200H3)</li> <li>• HIST 11193, Institutions and Ideas of World Civilizations I (or HIST 111H3)</li> <li>• HIST 11293, Institutions and Ideas of World Civilizations II (or HIST 112H3)</li> <li>• HIST 20003, History of the American People to 1877</li> <li>• HIST 20103, History of the American People 1877 to Present</li> <li>• HUMN 112H4, Honors Equilibrium of Cultures 500-1600 (Honors only)</li> <li>• HUMN 22103, Introduction to World Religions</li> <li>• LALS 20103, Introduction to Latin American and Latino Studies</li> <li>• MRST 20103, Introduction to Medieval and Renaissance Studies</li> <li>• MUSY 20003, Music in World Cultures (or MUSY 200H3)</li> <li>• PHIL 20003, Introduction to Philosophy (or PHIL 200H3)</li> <li>• PHIL 21003, Introduction to Ethics</li> <li>• PHIL 22003, Logic</li> <li>• PHIL 23003, Human Nature and the Meaning of Life</li> <li>• PHIL 31003, Ethics and the Professions</li> <li>• THTR 10003, Theatre Appreciation (or THTR 100H3)</li> <li>• THTR 10103, Musical Theatre Appreciation (or THTR 101H3)</li> <li>• Any Intermediate level foreign language numbered at the 20000 level</li> </ul>	
<p><b><u>MATHEMATICS COURSES</u></b></p> <p><b>19-26 hrs</b></p>	<p><b>Choose 1 (students may need to take both based on <a href="#">math placement</a>, but must have credit for at least one):</b></p> <ul style="list-style-type: none"> <li>• MATH 11003, College Algebra</li> <li>• MATH 13004, Pre-Calculus OR MATH 12003, Plane Trigonometry</li> </ul> <p><b>Choose 1:</b></p> <ul style="list-style-type: none"> <li>• MATH 24004, Calculus I (pre-req: MATH 13004 or 12003)*</li> <li>• MATH 22003, Survey of Calculus (pre-req: MATH 11003, 12003, or 13004)</li> </ul> <p><b>Take two additional MATH or STATS courses 20000 level or higher (Hours may vary): **</b></p>	<p><b>Students must earn a C or higher to use a class as a pre-requisite.</b></p> <p>See <a href="#">catalog</a> for additional pre-requisite information for individual classes. The student's first math course meets state minimum core requirements.</p> <p>While not required, it is encouraged that students take MATH 24004 and MATH 25004 to best prepare for upper-level PHYS and ASTR courses.</p> <p>*MATH 24005, Calculus I with Review, can also count here.</p> <p>**MATH or STAT 2999T, 3999T or 4999T transfer courses can count here as long as students still meet the 50% rule. Not all 999T classes pull into the degree audit automatically, so students may need to request classes be moved into the minor by their academic advisor.</p>

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<p><b><a href="#">PHYSICS REQUIREMENTS</a></b></p> <p><b>24 hrs</b></p>	<ul style="list-style-type: none"> <li>• <b>PHYS 20103/20101</b>, College Physics I (pre-req: MATH 11003 AND 12003. OR MATH 13004 or MATH 22003 or MATH 24004 or see catalog for math placement scores)</li> <li>• <b>PHYS 20203/20201</b>, College Physics II (pre-req: PHYS 20103 or PHYS 20304)</li> <li>• <b>PHYS 36103</b> Modern Physics (Pre-req: PHYS 20404)</li> <li>• <b>PHYS 49901</b>, Physics Seminar</li>   <li>• Take <b>12 additional credit hours</b> chosen from any physics (PHYS) or astronomy (ASTR) courses at the 30000-level or above, which must include at least one of the following Junior level labs:             <ul style="list-style-type: none"> <li>• <b>PHYS 32103</b> Electronics in Experimental Physics,</li> <li>• <b>PHYS 35404</b> Optics,</li> <li>• or <b>PHYS 3610V</b> Modern Physics Laboratory</li> </ul> </li> </ul>	<p>The student's first two science courses meet state minimum core requirements.</p> <p>** Honors students can use some electives for specific course requirements. See below for more details.            **PHYS or ASTR 3999T or 4999T transfer courses can count here as long as students still meet the 50% rule. Not all 999T classes pull into the degree audit automatically, so students may need to request classes be moved into the minor by their academic advisor.</p>
<p><b><a href="#">ADDITIONAL EMPHASIS</a></b></p> <p><b>9 hrs</b></p>	<p>Upper-Level Special Emphasis: Take an additional <b>9 credit hours</b> at the 30000-level or above. Students may choose any courses numbered 30000 level or higher but should choose courses that align with their career goals and interests</p>	<p>The special emphasis area may be chosen in any single degree-granting department at the University of Arkansas. For B.A. students seeking teacher licensure, the special emphasis area may involve courses from more than one degree-granting department at the University of Arkansas with the approval of the department.</p>
<p><b><a href="#">GENERAL ELECTIVES</a></b></p> <p><b>57-70 hrs</b></p>	<p>Hours will vary depending on math placement and whether a student is exempt from ENGL 10103 and 10203.</p>	<p>Some general electives may need to be upper level to meet college and university residency requirements. See Graduation Checklist on page 3 for more information.</p>
<p><b><a href="#">WRITING REQUIREMENT</a></b></p>	<p>The college writing requirement may be satisfied in one of two ways:</p> <ul style="list-style-type: none"> <li>• Completion of PHYS 49901</li> <li>• Successful honors thesis defense</li> </ul>	
<p><b><a href="#">HONORS</a></b></p>	<p><b><u>Minimum Requirements for Honors:</u></b></p> <ul style="list-style-type: none"> <li>• Maintain cumulative grade point average of 3.5 in all coursework (<b>and a 3.124 PHYS GPA</b>)</li> <li>• Complete a minimum of 12 hours of honors courses from the <b>UofA (including 6 hrs of PHYS 399HV and 3 hrs of PHYS 392H3)</b>.</li> <li>• Complete and defend Honors Thesis</li> </ul> <p>See <a href="#">Catalog</a> for full description of requirements.</p>	<p><b>Honors Thesis Timeline:</b> Honors students should consistently check the <a href="#">honors thesis timeline</a> to stay on track to complete your honors thesis.</p> <p><b>College Honors:</b> Students who also are following the College Honors Plan need to complete additional requirements. Those can be found on the advising website (consult with an academic advisor if you have questions about your catalog year): <a href="#">Academic Planning Resources</a></p>