ne: ID Number:	Date:	Anticipated Graduation Semester:
PHYS	BS-OPTC Degree	Snapshot
University Perspectives (0-1 hr)		
UNIV 10051, University Perspectives or exemp	otion	
State Core English Composition (0-6 hrs)	P	hysics Core (22 hrs)
ENGL 10103, Composition 1 or exemption		PHYS 20304, University Physics I
ENGL 10203, Composition 2 or exemption	_	PHYS 20404, University Physics II
	_	PHYS 20504, University Physics III
State Core US History or Government (3 hrs)		PHYS 34503, Electromagnetic Theory I
US HIST/PLSC		PHYS 36103, Modern Physics
		PHYS 40703, Introduction to Quantum Mechanics
State Core Mathematics (0 hrs)		PHYS 49901, Physics Seminar
Met with Courses in major	_	
	<u>0</u>	ptics Concentration (16 hrs)
State Core Natural Sciences w/ labs (0 hrs)		PHYS 35404, Optics
Met with courses in major.	_	PHYS 47304, Intro to Laser Physics OR PHYS 47703
State Care Carial Sciences (0 hrs)	Ir	tro to Optical Properties of Materials
State Core Social Sciences (9 hrs)	<u>C</u>	hoose 8-9 hours (depending on how many hours taken
Social Science	a	bove) of additional ASTR or PHYS 30000+ courses (hours
Social Science Social Science	0	f individual courses may vary).
		ASTR/PHYS 30000+
State Core Fine Arts (3 hrs)		ASTR/PHYS 30000+
Fine Art		ASTR/PHYS 30000+
State Core Humanities (3 hrs)	G	eneral Electives (23-37 hrs)
Humanities		ow 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
Non-Physics Sciences (8 hrs, see list below)		to track which classes you've taken outside the above requirements.
Science		
Science	Γ	
Mathematics Courses (19-26 hrs)		
MATH 11003, College Algebra (or math placem	<u>nent</u>	
in to higher math)		
MATH 13004, Pre-Calculus OR MATH 12003, P	lane	
Trigonometry (or math placement in to higher	math)	
MATH 24004, Calculus I		
MATH 25004, Calculus II		
MATH 26004, Calculus III		

- _____ MATH 25804, Elementary Differential Equations
- _____ MATH 30803, Linear Algebra

Advising Notes

Graduation Plan

Use the following additional resources, in addition to this major map, to complete your graduation plan (<u>Catalog</u>, and your <u>Degree Audit</u> 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 st year credit hours (aim for 30):
Year 2				Total 2 nd year credit hours (aim for 60):
Year 3				Total 3 rd year credit hours
				(aim for 90):
Year 4				Total 4 th year credit hours (Must be at least 120):

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 24hour 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 <u>https://catalog.uark.edu/undergraduatecatalog</u> for an extensive list of core, major, graduation, and prerequisite requirements. To read more about individual classes, visit the <u>courses of instruction</u> 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	Begree requirements	Or equivalent from another University of Arkansas college. (AFLS
PERSPECTIVES	• UNIV 10051, University Perspectives (or UNIV 100H1)	102H3, ARSC 12001, GNEG 11101, GNEG 111H1, HIST 1003(H),
		HIST 10001, HIST 100H1, PLSC 10003, PLSC 100H3, BUSI/WCOB
0-1 hr		
		11101, WCOB/BUSI 111H1)
		Note: students who transfer to the University of Arkansas with at
		least 24 credit hours will have this requirement waived.
STATE CORE		See Catalog for information about placement and/or exemption.
COMPOSITION	• ENGL 10103, Composition 1 or SAT/ACT exemption (or	
	ENGL 101H3)	
0-6 hrs	• ENGL 10203, Composition 2 or SAT/ACT exemption (or	
	ENGL 102H3)	
STATE CORE US	Choose 1: *	*Some courses may appear as options in multiple areas of the
HISTORY or	• HIST 20003, History of the American People to 1877	State Core. You can only count each course 1 time in the State Core
GOVERNMENT	• HIST 20103, History of the American People 1877 to	and will need unique courses in each of the content areas below.
	Present	
3 hrs	PLSC 20003, American National Government (or PLSC	
	200H3)	
STATE CORE	Met with courses in major	Based on ACT/SAT or other math placement scores, students may
MATHEMATICS		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 hrs		Churche when the log elegence for we at least two elegenstrong when in the
STATE CORE SOCIAL SCIENCES	Choose 3: *	Students must take classes from at least two departments in the
SOCIAL SCIENCES	AGEC 11003, Principles of Agriculture Microeconomics	Social Sciences category.
9 hrs	(or AGEC 110H3)	
	AGEC 21003, Principles of Agriculture Macroeconomics	*Some courses may appear as options in multiple areas of the
	(or AGEC 210H3)	State Core. You can only count each course 1 time in the State Core
	ANTH 10203, Intro to Cultural Anthropology (or ANTH	and will need unique courses in each of the content areas below.
	102H3)	
	COMM 10203, Communication in a Diverse World (or	
	ANTH 102H3)	
	ECON 21003, Principles of Macroeconomics (or ECON	
	210H3)	
	ECON 22003, Principles of Microeconomics (or ECON	
	220H3)	
	• ECON 21403, Basic Economics: Theory and Practice (or	
	ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3)	
	 ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies 	
	 ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies GEOG 11103, Human Geography (or GEOG 111H3) 	
	 ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies GEOG 11103, Human Geography (or GEOG 111H3) GEOG 21003, World Regional Geography (or GEOG 	
	 ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies GEOG 11103, Human Geography (or GEOG 111H3) GEOG 21003, World Regional Geography (or GEOG 210H3) 	
	 ECON 21403, Basic Economics: Theory and Practice (or ECON 214H3) EDST 20003, Introduction to Educational Studies GEOG 11103, Human Geography (or GEOG 111H3) GEOG 21003, World Regional Geography (or GEOG 	

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	HDFS 26003, Rural Families & Communities (HDFS	
	260H3)	
	HIST 11193, Institutions and Ideas of World Civilizations I	
	(or HIST 111H3)	
	HIST 11293, Institutions and Ideas of World Civilizations II	
	(or HIST 112H3)	
	HIST 20003, History of the American People to 1877	
	HIST 20103, History of the American People 1877 to Drospet	
	Present	
	HIST 20903, Animals in World History	
	HUMN 111H4, Honors Roots of Culture to 500 C.E.	
	(Honors only)	
	 HUMN 211H4, Honors Birth of Modern Culture, 1600- 1900 (honors only) 	
	 INST/PLSC 28103, Intro to International Relations & Global Studies (or INST/PLSC 281H3) 	
	 JOUR 10203, Media and Society 	
	 PLSC 20003, American National Government (or PLSC 	
	200H3)	
	PLSC 20103, Intro to Comparative Politics	
	PLSC 21003, State and Local Government	
	PSYC 20003, General Psychology (or PSYC 200H3)	
	RESM 28503, Leisure and Society (or RESM 285H3)	
	SOCI 10103, General Sociology (or SOCI 201H3)	
	SOCI 20103, Social Problems	
STATE CORE FINE	STEM 20003, The Art of STEM Communication Choose 1: *	*Some courses may appear as options in multiple areas of the
ARTS	ARCH 10003, Architecture Lecture (or ARCH 100H3)	State Core. You can only count each course 1 time in the State
	• ARHS 10003, Art Lecture (or ARHS 100H3)	Core and will need unique courses in each of the content
3 hrs	COMM 10003, Film Lecture (or COMM 100H3)	areas below.
	DANC 10003, Movement and Dance	
	ENGL 20103, Creative Writing 1	
	HUMN 211H4, Honors Birth of Modern Culture 1600-	
	1900 (honors only)	
	• LARC 10003, The American Landscape (or LARC 100H3)	
	MLIT 10003, Experiencing Music (or MLIT 100H3)	
	• MLIT 10103, Music and Society (music majors only. Or	
	MLIT 101H3)	
	MLIT 13303, Popular Music	
	• THTR 10003, Theatre Appreciation (or THTR 100H3)	
	• THTR 10103, Musical Theatre Appreciation (or THTR	
	101H3)	
	THTR 16803, Acting I THTR 16803, Acting I for Theorem regions	
STATE CORE	THTR 18803, Acting 1 for Theatre majors Choose 1: *	*Some courses may appear as options in multiple areas of the
HUMANITIES	AAST 20203, The African American Experience	Some courses may appear as options in multiple areas of the State Core. You can only count each course 1 time in the State
	 AAST 2020S, The African African Experience ANTH 10303, Introduction to Archeology 	Core and will need unique courses in each of the content
3 hrs	 ARCH 10103, Diversity and Design (or ARCH 101H3) 	areas below.
	 CLST 10003, Introduction to Classical Studies: Greece (or 	
	CLST 10003, Introduction to Classical studies: Greece (or CLST 100H3)	
	CLST 100137 CLST 10103, Introduction to Classical Studies: Rome (or	
	 CLST 10105, Introduction to classical studies. Rome (of CLST 101H3) 	
i		

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	COMM 12303, Media, Community and Citizenship (or	
	COMM 123H3)	
	DANC 10003, Dance Appreciation	
	 DASC 21303, Data Privacy & Ethics 	
	• ENGL 11103, World Literature: Beginnings to 1650 CE (or	
	ENGL 111H3)	
	ENGL 11203, World Literature: 1650 CE to Present (or	
	ENGL 112H3)	
	ENGL 12103, Introduction to Literature (or ENGL 121H3)	
	ENGL 20103, Creative Writing I	
	 GNST 20003, Introduction to Gender Studies (or GNST 200H3) 	
	 HIST 11193, Institutions and Ideas of World Civilizations I 	
	(or HIST 111H3)	
	HIST 11293, Institutions and Ideas of World Civilizations II	
	(or HIST 112H3)	
	HIST 20003, History of the American People to 1877	
	HIST 20103, History of the American People 1877 to	
	Present	
	HUMN 112H4, Honors Equilibrium of Cultures 500-1600	
	(Honors only)	
	HUMN 22103, Introduction to World Religions	
	LALS 20103, Introduction to Latin American and Latino	
	Studies	
	 MRST 20103, Introduction to Medieval and Renaissance Studies 	
	 MUSY 20003, Music in World Cultures (or MUSY 200H3) 	
	 PHIL 20003, Introduction to Philosophy (or PHIL 200H3) 	
	 PHIL 21003, Introduction to Ethics 	
	 PHIL 22003, Logic 	
	 PHIL 23003, Human Nature and the Meaning of Life 	
	PHIL 31003, Ethics and the Professions	
	• THTR 10003, Theatre Appreciation (or THTR 100H3)	
	• THTR 10103, Musical Theatre Appreciation (or THTR	
	101H3)	
	 Any Intermediate level foreign language numbered at the 20000 level 	
	Choose 2 sciences from below:	*Students may count GNEG 11101 in lieu of CHEM 14101.
NON-PHYSICS	CHEM 14103/14101, University Chemistry I*	Students will need to ask their academic advisor to adjust their
SCIENCES	CHEM 14203/14201, University Chemistry II	degree audit.
8 hrs	CSCE 20004, Programming Foundations I	
	CSCE 20104, Programming Foundations II	**Student may also count MEEG 32002 and 32102 for 4 hours of
	 BIOL 10103/10101, Principles of Biology 	non-Physics Sciences. Students will need to ask their academic
	BIOL 10104. Biology for Majors	advisor to adjust their degree audit.
	GEOL 11103/11101, Physical Geology	
	GEOL 11203/11201, Earth Science	
MATHEMATICS COURSES	MATH 11003, College Algebra (or <u>math placement into</u>	Students must earn a C or higher to use a class as a pre-requisite.
COURSES	higher math)	Soo catalog for additional are requirite information for individual
19-26 hrs	 MATH 13004, Pre-Calculus OR MATH 12003, Plane 	See <u>catalog</u> for additional pre-requisite information for individual
	Trigonometry (or <u>math placement</u> in to higher math)	classes.
	 MATH 24004, Calculus I (pre-req: MATH 13004, 12003, or math placement)* 	*MATH 14005, Calculus I with Review, can also count here.
	main placement)	

PHYSICS CORE 22 hrs	 MATH 25004, Calculus II (pre-req: MATH 24004) MATH 26004, Calculus III (pre-req MATH 25004) MATH 25804, Elementary Differential Equations (pre-req: MATH 25004) MATH 30803, Linear Algebra (Pre-req: MATH 24004)** PHYS 20304, University Physics I (pre-req: MATH 24004)* PHYS 20404, University Physics II (pre-req: PHYS 20304 and MATH 25004)* PHYS 20504, University Physics III (Fall only. pre-req: 	 **Students may not receive credit for both MATH 30903 and MATH 30803. If students took MATH 30903 instead of MATH 30803, they should seek substitution from the department. **MEEG 27003, can be automatically substituted for MATH 30803. Students will need to ask their academic advisor to adjust their degree audit. *While the catalog states that MATH 24004 and 25004 are pre- requisites to Physics 1 & 2, Physics majors may request to take them as co-requisites by emailing physics@uark.edu.
	 PHYS 20404. Co or pre-req: MATH 26004)** PHYS 3453, Electromagnetic Theory I (Spring only. pre-req: PHYS 20404 and MATH 26004. Co or pre-req: MATH 25804) PHYS 36103, Modern Physics (pre-req: PHYS 20404) 	**Students may take MEEG 24003 and MEEG 35003 in lieu of PHYS 20504. Students will need to ask their academic advisor to adjust their degree audit once they are done with both.
	 PHYS 40703, Introduction to Quantum Mechanics (Fall only. pre-req: PHYS 36103, MATH 25004, and MATH 25804) PHYS 49901, Physics Seminar*** 	*** Majors must propose participation in a research experience project no later than the end of their junior year of study. A written report of the results must be submitted during Senior Seminar (PHYS 49901). PHYS 49901 meets the Fulbright Writing Requirement.
OPTICS CONCENTRATION	 PHYS 35404, Optics (Fall only. pre-req MATH 25004 and PHYS 20404) PHYS 47304, Intro to Laser Physics OR PHYS 47703, Intro 	Honors students can use some electives for specific course requirements. See below for more details.
16 hrs	 PHYS 47304, Intro to Caser Physics OK PHYS 47703, Intro to Optical Properties of Materials (spring only. Pre-req: PHYS 35404 for both options) Choose 8-9 hours (depending on how many hours taken above) of additional ASTR or PHYS 30000+ courses (hours of individual courses may vary). 	
GENERAL ELECTIVES 23-37 hrs	Hours will vary depending on math placement and whether a student is exempt from ENGL 10103 and 10023.	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.
WRITING REQUIREMENT	 The college writing requirement may be satisfied in one of two ways: Completion of PHYS 49901 Successful honors thesis defense 	
<u>HONORS</u>	 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 399HV and 3 	Honors Thesis Timeline: Honors students should consistently check the <u>honors thesis timeline</u> to stay on track to complete your honors thesis.
	 hrs of PHYS 392H3). Complete and defend Honors Thesis See <u>Catalog</u> for full description of requirements. 	College Honors: 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): <u>Academic Planning Resources</u>