Program Completion Plan (Eight Semester Plan)

Department:	Physics and Astronomy	Degree:	BS
Program/Major:	Physics		
Track/Emphasis:	Applied Physics		
Does this program	require a minor? (Yes/No) No		

Important program information in the online *Undergraduate Bulletin*:

UCA Core Requirements: http://uca.edu/ubulletin2014/general-policies-information/uca-core/

Degree Requirements: http://uca.edu/ubulletin2014/general-policies-information/degree-requirements/

http://uca.edu/ubulletin2014/colleges-departments-programs/college-of-natural-sciences-**Program Description:**

and-mathematics/department-of-physics-and-astronomy/

Course Descriptions: http://uca.edu/ubulletin2014/courses/

This degree program requires a total of 120 semester credit hours, including at least 40 upper-division credit hours.

Comparable courses in the Arkansas Course Transfer System (ACTS) are cross-referenced in the ACTS column of each semester block below; a core link (http://uca.edu/go/ubulletin2014-ldcore/) takes the user to the Undergraduate Bulletin's UCA Core page, where UCA Core options and ACTS course numbers are listed in full; an acts link takes the user to the Undergraduate Bulletin's ACTS page (http://uca.edu/go/acts) for additional information and a full UCA-ACTS crosswalk.

Year 1

Fall - Semester 1 (credit hours: 15)1

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	1441	University Physics 1	4	PHYS2034
MATH	1496	Calculus I	4	MATH2405
WRTG	1310	Introduction to College Writing	3	ENGL1013
BIOL	1400	Biology for General Education ¹	4	BIOL1004

Spring – Semester 2 (credit hours: 15)¹

SUBJ	NUM	TITLE	so	СН	ACTS
PHYS	1442	University Physics 2		4	PHYS2044
MATH	1497	Calculus II		4	MATH2505
WRTG ENGL	1320 1320	Academic Writing and Research or Interdisciplinary Writing and Research or Other approved alternative		3	ENGL1023 ENGL1023
CSCI	1340	Introduction to Programming		3	
		General Elective Course		1	

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Year 2

Fall – Semester 3 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	2443	University Physics 3	4	
MATH	2471	Calculus III	4	MATH2603
CHEM	1450	College Chemistry I	4	CHEM1414
ECON	1310	Modern Political Economy	3	

Spring – Semester 4 (credit hours: 16)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	3341	Mathematical Methods in Physics	3	
MATH	3331	Ordinary Differential Equations	3	
CHEM	1451	College Chemistry II	4	CHEM1424
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link

Year 3

Fall – Semester 5 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	3210	Experiments in Physics 1	2	
PHYS	3342	Mechanics	3	
MATH	4371	Introduction to Probability	3	
WRTG	3310	Technical Writing	3	
		Lower Division UCA Core Course ²	3	core link
		General Elective Course	1	

Spring - Semester 6 (credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	3220	Experiments in Physics 2	2	
PHYS	3343	Thermal Physics	3	
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link
		Lower Division UCA Core Course ²	3	core link
		General Elective Course	1	

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Year 4

Fall - Semester 7 (Credit hours: 15)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	41XX	Senior Capstone 1	1	
PHYS	3360	Electromagnetism 1	3	
PHYS	4380 or 4303	Internship in Applied Physics ³ or Special Problems in Physics ³	3	
		General Elective Course ⁴	3	
		General Elective Course ⁴	3	
		General Elective Course ⁴	2	

Spring – Semester 8 (Credit hours: 14)

SUBJ	NUM	TITLE	SCH	ACTS
PHYS	42XX	Senior Capstone 2	2	
PHYS	4380 or 4303	Internship in Applied Physics ³ or Special Problems in Physics ³	3	
Gen. Elec.	X3XX	General Elective Course ⁴	3	
Gen. Elec.	X3XX	General Elective Course ⁴	3	
Gen. Elec.	X3XX	General Elective Course ⁴	3	

_	SIGNED – DEPARTMENT CHAIR	Date
	SIGNED – COLLEGE DEAN	DATE
o be completed by the advisor when a	n Eight-Semester Plan is accepted by the	student:
f applicable, has student selected a mi	nor? Type "x" as appropriate No	Yes

Notes

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¹ Prior to completion of 30 semester hours, a student must complete a UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living.

² See appropriate choices, alternatives, or substitutions under "UCA Core" in the *Undergraduate Bulletin*. The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core.

³ PHYS 4303 or 4380 can be repeated for up to 6 credit hours.

⁴ General Elective courses must be selected so that a minimum of 40 hours of credit is earned at the 3000 level of above.