DEGREE WORKSHEET FOR:
BS Physics, Secondary Teaching Emphasis
2014-2015 Catalog
Degree Requirements – 123 credits

YEAR 1- FALL (15 credits)		YEAR 1- SPRING (15 credits)	
PHYS 240 General Physics I (LAC Area 6)	5 credits	PHYS 241 General Physics II	5 credits
MATH 131[1] Calculus I(LAC Area 2)	4 credits	MATH 132[1] Calculus II (LAC Area 2)	4 credits
ENST 225 Energy and the Environment (LAC Area 6)	3 credits	ENG 122 College Composition (LAC Area 1)	3 credits
Liberal Arts Core[2]	3 credits	Liberal Arts Core[2]	3 credits
YEAR 2- FALL (15 credits)		**YEAR 2-SPRING (17 credits)**	
PHYS 320 Mathematical Methods I	3 credits	PHYS 321 Elementary Modern Physics	4 credits
AST 301 Classical Astronomy	3 credits	CHEM 112 Principles of Chemistry II	5 credits
BIO 110 Principles of Biology	4 credits	Liberal Arts Core[2]	3 credits
CHEM 111 Principles of Chemistry I (LAC Area 6)	5 credits	STEP 161 Observation and Analysis[3]	2 credits
		EDF 366 Concepts of Schooling[3]	3 credits
[4]For students beginning their 3rd year in odd years (2015, 2017, etc.)			
YEAR 3- FALL (17 credits)		**YEAR 3- SPRING (16 credits)**	
PHYS 340 Mechanics	4 credits	PHYS 341 Electricity and Magnetism I	4 credits
PHYS 347 Optics	4 credits	Liberal Arts Core[2]	3 credits
Biology Elective Course	3 credits	EDSE 360 Exceptional Learner[5]	3 credits
Earth Sciences Elective Course	3 credits	PSY 349 Educational Psychology[5]	3 credits
Liberal Arts Core[2]	3 credits	STEP 262 Observation & Analysis[5]	2 credits
		SCED 440 Secondary Science Strategies	1 credit
YEAR 4- FALL (14 credits)		**YEAR 4- SPRING (14 credits)**	
PHYS 345 Quantum Mechanics I	3 credits	STEP 464 Student Teaching[7]	14 credits
Liberal Arts Core[2]	3 credits		
EDRD 340 Secondary Content Area Literacy[6]	3 credits		
SCED 441 Secondary Science Methods[6]	3 credits		
STEP 363 Clinical Experience[6]	2 credits		
[4]For students beginning their 3rd year in even years (2014, 2016, etc.)			
YEAR 3- FALL (16 credits)		**YEAR 3- SPRING (16 credits)**	
PHYS 340 Mechanics	4 credits	PHYS 341 Electricity and Magnetism I	4 credits
Biology Elective Course	3 credits	Liberal Arts Core[2]	3 credits
Earth Sciences Elective Course	3 credits	EDSE 360 Exceptional Learner[5]	3 credits
Liberal Arts Core[2]	6 credits	PSY 349 Educational Psychology[5]	3 credits
		STEP 262 Observation & Analysis[5]	2 credits
		SCED 440 Secondary Science Strategies	1 credit
YEAR 4- FALL (15 credits)		**YEAR 4- SPRING (14 credits)**	
PHYS 345 Quantum Mechanics I	3 credits	STEP 464 Student Teaching[7]	14 credits
PHYS 347 Optics	4 credits		
EDRD 340 Secondary Content Area Literacy[6]	3 credits		
SCED 441 Secondary Science Methods[6]	3 credits		
STEP 363 Clinical Experience[6]	2 credits		

Admission Requirement – No separate admission requirement.

Minor Required – No Minor required.

Contact Information – Department of Physics and Astronomy
Ross Hall Room 0232, 970-351-2961
Program Web Page: http://www.unco.edu/nhs/physics/index.html

This worksheet is a recommended schedule to complete your bachelor's degree in 4 years. Every UNC student must meet the following requirements in order to graduate with a bachelor's degree: earn a minimum of 120 semester credit hours; possess a minimum of a 2.00 cumulative grade point average; have at least 40 credit hours in courses designated as Liberal Arts Core; meet all degree requirements in the student's major field of study. Each major and/or emphasis may have additional requirements necessary for graduation.
Students must consult with their major advisor to receive information on any additional graduation requirements.

Notes

[1]Students who lack sufficient preparation in mathematics may need to start in MATH 124 (4) -- College Algebra, MATH 125 (3)--Plane Trigonometry, or MATH 127 (4)--Elementary Functions. Please consult your Physics faculty advisor.

[2]To satisfy the Liberal Arts Core requirements using this plan, students need to select courses from Area 7 and/or 8 that also count for Areas 3, 4, or 5.

[3]Phase I Teaching Courses. EDFE 110 (0 credits) is required the semester before.

[4]Since some of the major courses are offered every other year, two plans are provided -- one for the student's 3rd year commencing in an even year and one for it commencing in an odd year. If a student starts the physics major in 2014-2015 and stays on track, their 3rd year would begin in 2016, an even year.

[5]Phase II Teaching Courses.

[6]Phase III Teaching Courses. EDFE 120 (0 credits) is required the semester before.

[7]Student Teaching. EDFE 130 (0 credits) is required the semester before.

A minimum 2.0 cumulative grade point average is required in PHYS prefix courses for graduation.