

**2008 2009 TRANSFER GUIDE  
PHYSICS: SECONDARY TEACHING  
UNIVERSITY OF NORTHERN COLORADO**

**Section I: Degree/Program Requirements**

- A. Institutional graduation requirements for this degree program. The graduation requirement for a transfer student pursuing Physics: Secondary Teaching will be no different than the graduation requirements for a native student, including the minimum number of semester hours required for graduation requirements. Specifically, the student must meet the following requirements.
- Complete at least 126 credit hours and
  - Successfully complete the required 36 credit hours in the major and
  - Complete a research paper as part of PHYS 475
  - Successfully complete the 36 hours in the Required Teacher Education Program
- Secondary PTEP requirements: PTEP requirements follow at bottom of chart.
- Complete and receive at least a grade of B or above in ENG 122 or 123 (CC; Eng 121 or 122)
  - Physics: Secondary majors are exempt from ET 249 and 349.
  - Students will make formal application and complete admission requirements while enrolled in STEP 161.
  - A minimum GPA of 2.50 is required prior to enrollment.
  - First semester transfer students may enroll their first semester on campus and the GPA will be evaluated at the end of the semester.
- B. Required courses in Major, including pre-requisites and required Support courses in the chart below.

COMMUNITY COLLEGE REQUIRED COURSES: Required courses to be taken as part of AA/AS degree to guarantee the completion of a baccalaureate degree in 72 additional credits after transfer. They are as follows:

<u>UNC</u>	<u>CC</u>
BIO 110	Bio 111 (5) General College Biology I
CHEM 111	Che 111 (5) General Chemistry I
CHEM 112	Che 112 (5) General Chemistry II
MATH 131	Mat 201 (5) Calculus I
MATH 132	Mat 202 (5) Calculus II
PHYS 240	Phy 211 (5) Physics: Calculus-Based I
PHYS 241	Phy 212 (5) Physics: Calculus-Based II

**PHYSICS: SECONDARY TEACHING**

	<b>UNC Course Number</b>	<b>UNC Course Name</b>	<b>UNC CH</b>	<b>CC Course Number</b>	<b>CC Course Name</b>	<b>CC CH</b>
<b>Required Major Courses</b>			<b>24</b>			
	PHYS 320	Mathematical Methods I	3			
	PHYS 321	Elementary Modern Physics	4			
	PHYS 340	Mechanics	4			
	PHYS 341	Electricity and Magnetism	4			
	PHYS 345	Quantum Mechanics I	3			
	PHYS 347	Optics	4			
	PHYS 475	Seminar in Teaching Physics	2			

<b>Required Supporting Credits</b>			<b>12</b>			
	AST 301 or 302	Classical Astronomy or Modern Astronomy	3			
	ENST 225	Energy and the Environment	3			
	Elective Credits in Biological Sciences (consent of advisor)		3			
	Elective Credits in Earth Sciences (consent of advisor)		3			
<b>SECONDARY Required Teacher Education Courses</b>			<b>36</b>			
The following courses are to be taken concurrently during the first semester of your program			(6)			
	EDFE 110	Initial PTEP Application	0			
	STEP 161	Observation and Analysis of Secondary Teaching I	2			
	EDF 366	Conceptions of Schooling: Context and Process	4	EDU 221	Introduction to Education	3
	ET 249	Technology in Education for Secondary Teaching	0	EXEMPT		
The following courses are to be taken concurrently			(8)			
	EDFE 120	Full admission to PTEP Application	0			
	STEP 262	Observation and Analysis of Secondary Teaching II	2			
	EDSE 360	Adaptation, Modification and Integration of Curriculum for the Secondary Exceptional Learner	3			
	PSY 349	Education Psychology for Secondary Teachers	3			
The following courses are to be taken concurrently			(5)			
	EDFE 130	Student Teaching Application (If student teaching next semester)r	0			
	STEP 363	Clinical Experience: Secondary	2			
	EDRD 340	Developing Language and Literacy in Content Areas	3			
	ET 349	Educational Technology Applications for Secondary Teaching	0	EXEMPT		
Content Area Methods			(3)			
	SCED 441	Methods of Teaching Secondary School Science	3			
Complete the following course						
	STEP 464	Secondary Student Teaching	(14)			
<b>TOTAL MAJOR REQUIREMENTS</b>			<b>36</b>			
Required Teacher Education Credits			<b>36</b>			
<b>GRADUATION REQUIREMENTS beyond AA/AS degree</b>			<b>72</b>			
<b>ASSOCIATE OF ARTS/SCIENCE DEGREE</b>			<b>60</b>			
<b>TOTAL GRADUATION REQUIREMENTS</b>			<b>132</b>			

## Section II: Transfer of Credit

- A. Grade Eligibility.  
Only academic courses with a letter grade of C or better are transferable. The four-year institution will accept and count toward meeting graduation requirements all state guaranteed general education courses that have a grade of C or better.
- B. UNC accepts some scores of 3 and accepts scores of 4 and above on Advanced Placement tests and scores of 4 and above earned on International Baccalaureate tests.  
<http://www.unco.edu/admissions/advanced-placement.asp>

- <http://www.unco.edu/admissions/international-baccalaureate.asp>
- C. UNC will accept all approved credits earned with ten years of transfer. Courses earned more than ten years earlier may be evaluated on an individual basis.
  - D. UNC may apply state guaranteed general education (gtP) courses toward the major or other graduation requirements if that facilitates the student's graduation more effectively.

**Section III: Appeal Process**

- A. Institutional Appeal Process  
Students who follow this agreement shall have the right to appeal a transfer decision that appears to be inconsistent with the terms and courses listed in this agreement. Appeals pertaining to this 2008-2009 Transfer Guide should be filed with the institution. A student may file an appeal that pertains to state guaranteed general education courses directly to Admissions: [Leta.Naber@unco.edu](mailto:Leta.Naber@unco.edu) or [Barbara.Nelson@unco.edu](mailto:Barbara.Nelson@unco.edu)
- B. State Appeal  
For information on the student appeal process, refer to Student Appeal Policy at <http://highered.colorado.gov/Publications/Policies/Current/i-partt.pdf>