PHYSICS (7-12) ENDORSEMENT

Secondary Education, Bachelor Science in Education - Physics (7-12) Endorsement Requirements

Code	Title	Credits
GENERAL EDUCATION REQUIREMENTS - 34 Hours Required		
Minimum of "C-"required		
Fundamental Skills		**15**
Writing – 6 hrs.		
ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	
Oral Communication – 3 hrs.		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
Quantitative Literacy – 3 hrs.		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
Data Literacy – 3 hrs.		
Select one from the following:		
STAT 1100	DATA LITERACY AND VISUALIZATION	
STAT 1530	ELEMENTARY STATISTICS	
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.		
Breadth of Knowledge		**13**
Social Science - 3 hrs		
Humanities - 3 hrs		
Natural & Physical Science (must complete a lab) – 4 hrs.		
Arts - 3 hrs		
Individual and Social Responsibility		**6**
Cultural Knowledge - 3 hrs		
Civic Knowledge and Engagement - 3 hrs		
MAJOR REQUIREMENTS 94 Hours Required		
**Course will satisfy UNO's General Education requirement		
^Course requires pre-requisite(s)		
All of the following:		**39**
TED 2100	EDUCATIONAL FOUNDATIONS (^)	
TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS (** ^)	
or TED 2060	EQUITY, LANGUAGE, AND CULTURAL LITERACY	
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE (^)	
TED 2400	PLANNING FOR EFFECTIVE TEACHING (^)	
TED 3550	SECONDARY CLASSROOM MANAGEMENT (^)	
TED 3690	LITERACY AND LEARNING (^)	
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES (^)	
TED 4000	SPECIAL METHODS IN THE CONTENT AREA (^)	
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL (^)	
Physics Endorsement required courses		**55**
PHYS 1350	PRINCIPLES OF ASTRONOMY (** ^)	
PHYS 1354	INTRODUCTORY ASTRONOMY LAB (** ^)	
PHYS 2110	GENERAL PHYSICS I - CALCULUS LEVEL (** ^)	
PHYS 1154	GENERAL PHYSICS LABORATORY I (** ^)	
PHYS 2120	GENERAL PHYSICS II-CALCULUS LEVEL (^)	
PHYS 1164	GENERAL PHYSICS LABORATORY II (^)	
PHYS 2130	MODERN PHYSICS (^)	
PHYS 3250	MATHEMATICAL METHODS OF PHYSICS (^)	
PHYS 3300	INTRODUCTION TO BIOMEDICAL PHYSICS (^)	
PHYS 3450	CLASSICAL MECHANICS (^)	
PHYS 3504	EXPERIMENTAL PHYSICS I (^)	
PHYS 3600	THERMODYNAMICS AND STATISTICAL PHYSICS (^)	
PHYS 3750	ELECTRICITY AND MAGNETISM I (^)	
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY (**)	
CHEM 1180	GENERAL CHEMISTRY I (** ^)	
CHEM 1184	GENERAL CHEMISTRY I LABORATORY (** ^)	
MATH 1950	CALCULUS I (^)	
MATH 1960	CALCULUS II (^)	
MATH 1970	CALCULUS III (^)	
ELECTIVES		
Elective hours as required to reach a total of 120 hours		

Candidates must have satisfactorily completed all required coursework prior to clinical practice.

A minimum grade of "C" must be earned in all certification requirements, endorsements, and concentrations. All grades of incomplete and any grades below "C" in these specific requirements must be removed prior to clinical practice. Candidates are responsible for contacting their advisor regarding said grades.

For courses in this major/ endorsement that require a grade of C or higher, CR/ NC is not permissible.

Candidates must have a minimum cumulative GPA of 2.75 or higher in order to be eligible for clinical practice.

Secondary Education, Bachelor Science in Education - Physics (7-12) Endorsement Four Year Plan

Freshman		
Fall		**Credits**
ENGL 1150	ENGLISH COMPOSITION I	3
MATH 1950	CALCULUS I	5
TED 2100	EDUCATIONAL FOUNDATIONS	3

PHYS 1350 & PHYS 1354	PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB	4
Student must test into MATH 1950 Calculus one based off of AP Math scores or Accuplacer exam, or bring transfer credit for MATH 1320 & 1330 or MATH 1340. These additional math courses may be required before MATH 1950 if the student does not test into it.		
Advising appointment for spring: Sept. - Oct.		
Attend welcome week events.		
	Credits	**15**
Spring		
MATH 1960	CALCULUS II	4
CMST 1110 or CMST 2120	PUBLIC SPEAKING FUNDS or ARGUMENTATION AND DEBATE	3
PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I	5
TED 2200 or TED 2060	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS or EQUITY, LANGUAGE, AND CULTURAL LITERACY	3
Advising appointment for fall: February - March		
Join a student organization		
MUST establish 2.0+ NU GPA (by the end of summer courses) in order to enroll in TED 2100 and TED 2200 for fall semester		
Begin resume development.		
	Credits	**15**
Summer		
PHYS 2120 & PHYS 1164	GENERAL PHYSICS II-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II	5
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY	3
Apply to Educator Prepration Program by June 1		
	Credits	**8**
Sophomore		
Fall		
TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE	3
TED 2400	PLANNING FOR EFFECTIVE TEACHING	6
MATH 1970	CALCULUS III	4
Advising appointment for spring: Sept. - Oct.		
Identify professional organization to get involved with. Begin resume development.		
	Credits	**13**
Spring		
PHYS 3300	INTRODUCTION TO BIOMEDICAL PHYSICS	3
PHYS 2130	MODERN PHYSICS	4
PHYS 3250	MATHEMATICAL METHODS OF PHYSICS	3
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4
Advising appointment for fall: February - March		
MUST by August 1st have 2.75 minimum NU GPA to progress in Educator Preparation Program.		
	Credits	**14**
Junior		
Fall		
PHYS 3750	ELECTRICITY AND MAGNETISM I	3
PHYS 3600 & PHYS 3504	THERMODYNAMICS AND STATISTICAL PHYSICS and EXPERIMENTAL PHYSICS I	4
Cultural Knowledge		3
Civic Knowledge and Engagement		3
Advising appointment for spring: Sept. - Oct.		
	Credits	**13**
Spring		
TED 3550	SECONDARY CLASSROOM MANAGEMENT	3
TED 3690	LITERACY AND LEARNING	3
PHYS 3450	CLASSICAL MECHANICS	3
Arts		3
Social Science		3
Advising appointment for fall: February - March		
	Credits	**15**
Senior		
Fall		
TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES	3
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4
Humanities		3
Take Praxis II- Physics: Content Knowledge #5266		
Advising appointment for spring: Sept. - Oct.		
Apply for clinical practice at beginning of fall term.		
Elective		2
	Credits	**15**
Spring		
TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL	12
Apply for graduation		
	Credits	**12**
	Total Credits	**120**

This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult an advisor in your major program for further guidance.

This plan is not a contract and curriculum is subject to change

Additional Information About this Plan:

University Degree Requirements: The minimum number of hours for a UNO undergraduate degree is 120 credit hours. Please review the requirements for your specific program to determine all requirements for the program. In order to graduate on-time (four years for an undergraduate degree), you need to take 30 hours each year. Information based on the 2025-2026 University of Nebraska at Omaha undergraduate catalog.

Placement Exams: For Math, English, Foreign Language, a placement exam may be required. More information on these exams can be found at https://www.unomaha.edu/enrollment-management/testing-center/placement-exams/information.php

**Transfer credit or placement exam scores may change suggested plan of study

GPA Requirements: Cumulative 2.5 GPA for Educator Preparation Program initial acceptance, cumulative 2.75 GPA for formal admission and graduation.

#Professional education course: a grade of C or higher is required to pass the class.

Graduation Requirements: Students must have a cumulative GPA of at least 2.75, no grade lower than "C" in required courses, and no incomplete in required courses to be recommended for graduation.