

PHYSICS (7-12) ENDORSEMENT

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

Code Title Credits
GENERAL EDUCATION REQUIREMENTS - 46 Hours Required

Minimum of "C-" required

Fundamental Academic Skills 15

ENGL 1150	ENGLISH COMPOSITION I	
ENGL 1160	ENGLISH COMPOSITION II	
Writing in the Discipline Course		
CMST 1110	PUBLIC SPEAKING FUNDS	
or CMST 2120	ARGUMENTATION AND DEBATE	
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING	
or MATH 1100	DATA LITERACY AND VISUALIZATION	
or MATH 1130	QUANTITATIVE LITERACY	
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCARE PROFESSIONALS	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT	
or STAT 1100	DATA LITERACY AND VISUALIZATION	
or STAT 1530	ELEMENTARY STATISTICS	

Distribution Requirements 31

Natural Science - From two disciplines and at least one lab - 7 hrs
Social Science - From two disciplines - 9 hrs
Humanities and Fine Arts - From two disciplines - 9 hrs
Global Diversity - 3 hrs
US Diversity - 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 (** ^)	
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-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
PHYS 1350 & PHYS 1354	PRINCIPLES OF ASTRONOMY and INTRODUCTORY ASTRONOMY LAB	4
MATH 1950	CALCULUS I	5
Social Science		3

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.

Spring

ENGL 1160	ENGLISH COMPOSITION II	3
MATH 1960	CALCULUS II	5
CMST 1110	PUBLIC SPEAKING FUNDS	3
PHYS 2110 & PHYS 1154	GENERAL PHYSICS I - CALCULUS LEVEL and GENERAL PHYSICS LABORATORY I	5

Advising appointment for fall: February - March

Join a student organization

Make a plan to take the Praxis Core MUST establish 2.5+ 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 16

Summer

PHYS 2120 & PHYS 1164	GENERAL PHYSICS-CALCULUS LEVEL and GENERAL PHYSICS LABORATORY II	5
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MATH 1970

CALCULUS III	4
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Credits 13

Sophomore

Fall

TED 2100	EDUCATIONAL FOUNDATIONS	3
TED 2200	HUMAN RELATIONS FOR BIAS-FREE CLASSROOMS	3
PHYS 3250	MATHEMATICAL METHODS OF PHYSICS	3
PHYS 3600	THERMODYNAMICS AND STATISTICAL PHYSICS	3

Humanities and Fine Arts 3

Advising appointment for spring: Sept. - Oct.

Identify professional organization to get involved with. Begin resume development.

Apply to Educator Preparation Program for October 1 deadline

Credits 15

Spring

TED 2380	DEVELOPMENT AND LEARNING IN ADOLESCENCE	3
TED 2400	PLANNING FOR EFFECTIVE TEACHING	6
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY	4

Advising appointment for fall: February - March

MUST attempt PRAXIS Core by August 1st and have 2.75 minimum NU GPA to progress in Educator Preparation Program.

Credits 13

Junior

Fall

PHYS 3750	ELECTRICITY AND MAGNETISM I	3
PHYS 2130	MODERN PHYSICS	4
Social Science		3
Humanities and Fine Arts		3

Advising appointment for spring: Sept. - Oct.

Credits 13

Spring

TED 3550	SECONDARY CLASSROOM MANAGEMENT	3
TED 3690	LITERACY AND LEARNING	3

PHYS 3450 & PHYS 3504	CLASSICAL MECHANICS and EXPERIMENTAL PHYSICS I	4
GEOL 1170	INTRODUCTION TO PHYSICAL GEOLOGY	4

Advising appointment for fall: February - March

Credits 14

Senior

Fall

TED 4000	SPECIAL METHODS IN THE CONTENT AREA	3
PHYS 3300	INTRODUCTION TO BIOMEDICAL PHYSICS	3
SPED 3800	DIFFERENTIATION AND INCLUSIVE PRACTICES	3

Social Science 3

Humanities and Fine Arts with Global Diversity 3

Take Praxis II- Physics: Content Knowledge #5265

Advising appointment for spring: Sept. - Oct.

Apply for clinical practice at beginning of fall term.

Credits 15

Spring

TED 4600	CLINICAL PRACTICE AND SEMINAR: ELEMENTARY OR SECONDARY LEVEL	12
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Apply for graduation

Credits 12

Total Credits 126

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 2024-2025 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.