

**Physical Sciences (PHS)  
Physical Sciences & Mathematics Department  
School of Natural & Social Sciences  
Carhart Science Building**

The field endorsement in Physical Sciences will qualify the student to teach courses in physical science, chemistry, physics and earth science for grades 7-12.

In addition to General Education requirements, students must meet the computer literacy requirements of the Math and Sciences departments. NAT 112 Introduction to Personal Computers or any course with a CSC prefix meets this requirement.

**Field Endorsement in Physical Sciences  
(BA or BS) 56 hours**

MAT 130 Pre-Calculus Math (5) or both MAT 121 College Algebra (3) and MAT 122 Applied Trigonometry (1) must be taken as the Mathematics General Education requirement.

BIO	110 Biology Concepts.....	4
	200 Zoology.....	4
CHE	106 General Chemistry I.....	4
	107 General Chemistry II.....	4
	208 Intro Organic Chem or	
	314 Organic Chem I.....	4
	393 Laboratory Techniques.....	1
EAS	110 Introduction to Meteorology.....	4
	120 Introduction to Geology.....	4

PHY	201 General Physics I.....	3
	202 General Physics II.....	3
	321 Physics Laboratory I.....	1
	322 Physics Laboratory II.....	1
	393 Laboratory Techniques.....	1

CHE, EAS, PHY upper level electives to combine with the above to total at least 18 hours in one area, 15 hours in the second area and 12 hours in the third.....15

Choose the remaining upper level electives from BIO, CHE, EAS, NAT, PHY.....3

EDU 409 Science Content Area Methods and Materials is required. No additional endorsement is required for a Nebraska Teaching Certificate.

**Undergraduate Courses**

PHS 102 Physical Science Today (3) Selected topics of physics, chemistry, and earth science to be presented by the laboratory-oriented approach, and in compliance with the requirements of General Education. Does not apply to any major, minor, or endorsement in any science area (BIO, CHE, EAS,NAT, PHS, PHY) unless specified. (4 hours lecture-lab combined)