# PHYSICS, BACHELOR OF SCIENCE

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<th>Code</th>
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## General Studies

**Foundational Requirements (LOPERs 1-4)** 14

**Including:**

- LOPER 4: Mathematics, Statistics, and Quantitative Reasoning
  - MATH 115 Calculus I with Analytic Geometry 1

**Broad Knowledge Requirements (LOPERs 5-8)** 11

Take any one course in LOPER 5, LOPER 6, or LOPER 7 that satisfies a Dispositional Requirement (LOPER 9 or LOPER 10) and a Broad Knowledge Requirement. The courses that meet these criteria are listed at [https://catalog.unk.edu/undergraduate/general-studies/courses-satisfy-broad-knowledge-dispositional](https://catalog.unk.edu/undergraduate/general-studies/courses-satisfy-broad-knowledge-dispositional)/. See advisor for assistance.

- LOPER 8: Natural Science
  - PHYS 275 General Physics I (Calculus)
  - PHYS 275L General Physics I (Calculus) Laboratory

**Dispositional Requirements (LOPERs 9-10)** 2

**Wellness (LOPER 11) Optional** 0

**BS Science-related course requirements** 8

- MATH 202 Calculus II with Analytic Geometry
- MATH 305 Differential Equations

## Program Specified Requirements 5

- PHYS 276 General Physics II (Calculus)
- PHYS 276L General Physics II (Calculus) Laboratory

### Major Option

Complete all required courses 36

### Minor or 2nd Major

Complete all required courses 3 24

### Unrestricted Electives

Needed to reach 120 credit hour minimum 16

**Total Credit Hours** 120

### Major Option

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## Physics Requirements

- PHYS 123 Freshman Physics Seminar 3
- PHYS 346 Modern Physics I 4
- PHYS 410 Mathematical Techniques in Physics I 3
- PHYS 420 Advanced Physics Laboratory 3

## Physics Electives

Select 14 credit hours from the following: 14

**Physics Math Requirements**

- MATH 260 Calculus III 5

**Physics Chemistry Requirements**

- CHEM 160 General Chemistry 3
- CHEM 160L General Chemistry Laboratory 1

**Total Credit Hours** 36

1. Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:
   - MATH 102
   - MATH 103

2. Designated courses with the appropriate content approved to satisfy one of the Broad Knowledge requirements plus LOPER 9 or a Broad Knowledge requirement plus LOPER 10. Some courses approved satisfy LOPER 9 or LOPER 10 alone. Choosing a course that satisfies the Broad Knowledge requirement AND LOPER 9 or the Broad Knowledge Requirement AND LOPER 10 will reduce the total general studies hours.

3. A minor or second major is required for a complete degree program. The number of required electives needed to reach 120 total credit hours overall will depend upon the specific program chosen.