PHYSICS, BACHELOR OF SCIENCE

Offered by Department of Physics and Astronomy (https://catalog.unk.edu/undergraduate/departments-programs/physics-astronomy/)

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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**General Studies**

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

Including:

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

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

- 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/’. 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)**

- **Wellness (LOPER 11) Optional** 0

**BS Science-related course requirements**

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

**Program Specified Requirements**

- **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

**Unrestricted Electives**

Needed to reach 120 credit hour minimum 16

Total Credit Hours 120

**Major Option**

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<tr>
<td>PHYS 123</td>
<td>Freshman Physics Seminar</td>
<td>3</td>
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<tr>
<td>PHYS 346</td>
<td>Modern Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 410</td>
<td>Mathematical Techniques in Physics I</td>
<td>3</td>
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<tr>
<td>PHYS 420</td>
<td>Advanced Physics Laboratory</td>
<td>3</td>
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**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.