PHYSICS, BACHELOR OF SCIENCE

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

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General Studies

Foundational Requirements (LOPERs 1-4) 14

Including:

- MATH 115 Calculus I with Analytic Geometry

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/. 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 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.