PHYSICS, BACHELOR OF ARTS

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

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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

**Bread 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 Bread 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.

Including

- PHYS 275 General Physics I (Calculus)
- PHYS 275L General Physics I (Calculus) Laboratory

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

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

**BA Language requirement**

Complete all required courses

**Program Specified Requirements**

Complete all required courses

**Major Option**

Complete all required courses

**Minor or 2nd Major**

Complete all required courses

**Unrestricted electives**

Needed to reach 120 credit hour minimum

**Total Credit Hours**

**Major Option**

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**Physics Requirements**

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

**Physics Electives**

Select 10 credit hours of the following:

- PHYS 350 Astrophysics I
- PHYS 351 Astrophysics II

**Physics Math Requirements**

- MATH 202 Calculus II with Analytic Geometry
- MATH 260 Calculus III
- MATH 305 Differential Equations

**Total Credit Hours**

Students without sufficient preparation will also need to take the following courses, increasing the total credit hours needed:

- MATH 102
- MATH 103

Designated courses with the appropriate content may be approved to satisfy one of the Bread Knowledge requirements plus LOPER 9 or Bread Knowledge plus LOPER 10. Courses may be approved to satisfy LOPER 9 or LOPER 10 alone. (Courses satisfying LOPER 9 or LOPER 10 alone must be 3 credit hours.) Students applying this option will need to take additional hours in other categories to meet the required GS hours.

For specific language requirements see #2 of Bachelor of Arts Degree requirements.

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.