PHYSICS, BACHELOR OF SCIENCE

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

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<th>Code</th>
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<th>Credit Hours</th>
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General Studies

*Foundational Core (Written, Math, Oral, Democracy)*

Foundational Core courses (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses)

Including:

- MATH 115 Calculus I with Analytic Geometry

*Portal*

Select one course numbered 188 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/portal-course)

*Distribution*

ENG 101 Introduction of Academic Writing

If ENG 101 is not taken as a prerequisite for ENG 102 then additional hours may be required to meet the 27 credit hour minimum in the Distribution Area of General Studies.

Aesthetics (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/aesthetics)

Humanities (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/humanities)

Social Sciences (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/social-sciences)

Natural Sciences (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/natural-sciences)

Including:

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

Analytical and Quantitative Thought (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought)

Wellness (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/wellness)

Needed to reach 27 credit hour minimum in Distribution

1

*Capstone*

Select one course numbered 388 (http://catalog.unk.edu/undergraduate/general-studies/general-studies-courses/capstone-course)

BS Science-related course requirements

MATH 202 Calculus II with Analytic Geometry

MATH 305 Differential Equations

**Major Option**

Complete all required courses

24

**Minor or 2nd Major**

Complete all required courses

24

Unrestricted electives

Needed to reach 120 credit hour minimum

Total Credit Hours

120

**Major Option**

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**Physics Requirements**

- PHYS 123 Freshman Physics Seminar
- PHYS 276 General Physics II (Calculus) and General Physics II (Calculus) Laboratory
- PHYS 346 Modern Physics I
- PHYS 410 Mathematical Techniques in Physics I

**Physics Electives**

Select 16 credit hours of the following:

- PHYS 402 Analytic Mechanics
- PHYS 407 Electricity & Magnetism
- PHYS 419 Quantum Mechanics
- PHYS 420 Advanced Physics Laboratory
- PHYS 430 Optics
- PHYS 440 Thermodynamics and Statistical Mechanics
- PHYS 495 Research in Physics

**Physics Math Requirements**

MATH 260 Calculus III

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 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.