PHYSICS 7-12 TEACHING SUBJECT ENDORSEMENT, BACHELOR OF SCIENCE IN EDUCATION

Offered by Department of Physics and Astronomy (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/departments-programs/physics-astronomy)

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

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

Foundational Core courses (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses) 14

Including:

- ENG 102 Academic Writing and Research
- MATH 115 Calculus I with Analytic Geometry
- SPCH 100 Fundamentals of Speech Communication
- TE 100 Teaching in a Democratic Society

**Portal**

Select one course numbered 188 (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/portal-course) 3

**Distribution**

- ENG 101 Introduction of Academic Writing 3

*If ENG 101 is taken as a prerequisite for ENG 102 then only 24 additional hours are required to meet the 27 credit hour minimum in the Distribution Area of General Studies*


- Humanities (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/humanities) 6

- Social Sciences (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/social-sciences) 6

Including:

- PSCI 110 Introduction to American Politics

- CHEM 160 General Chemistry
- CHEM 160L General Chemistry Laboratory

Select 1 of the following:

- BIOL 103 General Biology
- BIOL 105 Biology I
- BIOL 106 Biology II

**Analytical and Quantitative Thought** (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/analytical-quantitative-thought) 0

**Wellness** (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/wellness) 3

Including:

- PE 150 Healthy Wealthy and Wise

**Capstone**

Select one course numbered 388 (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/general-studies/general-studies-courses/capstone-course) 3

**Endorsement**

Complete all required courses 25

Including:

- TE 319 Management and Assessment in K-12/Secondary Classrooms 3
- TE 320 Field Experience in Secondary Classroom

**Unrestricted electives**

Needed to reach 120 credit hour minimum 9

Total Credit Hours 120

**Physics Subject Endorsement Requirements**

- PHYS 123 Freshman Physics Seminar 3
- PHYS 201 Earth Science 4
- PHYS 275 General Physics I (Calculus) & 275L General Physics I (Calculus) Laboratory 5
- PHYS 276 General Physics II (Calculus) & 276L General Physics II (Calculus) Laboratory 5
- PHYS 301 Advanced Physical Science 4
- PHYS 346 Modern Physics I 4
- PHYS 471 Methods in Secondary Science Teaching 3

Select 9 credit hours of the following:

- PHYS 300-PHYS 499 3

Total Credit Hours 37

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

2 Students must apply for admission to all Teacher Education programs (http://catalog.unk.edu/catalog-archive/2018-2019/undergraduate/departments-programs/teacher-education/professional-sequence-education-degrees).

3 Except PHYS 388.