ASTROPHYSICS
COMPREHENSIVE, 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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**General Studies**

Foundational Requirements (LOPERs 1-4) 14

LOPER 4: Mathematics, Statistics, and Quantitative Reasoning

Including:

- MATH 115 Calculus I with Analytic Geometry

**Broad Knowledge Requirements (LOPERs 5-8)** 11

Including:

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.

**Dispositional Requirements (LOPERs 9-10)** 6

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 62

**Unrestricted electives**

Needed to reach 120 credit hour minimum 14

Total Credit Hours 120

**Major Option**

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**Astrophysics Comprehensive Requirements**

- PHYS 123 Freshman Physics Seminar 3
- PHYS 210 Astronomy 3
- PHYS 346 Modern Physics I 4
- PHYS 350 Astrophysics I 3
- PHYS 351 Astrophysics II 3

**Astrophysics Comprehensive Math Requirments**

- MATH 260 Calculus III

**Astrophysics Comprehensive Chemistry Requirements**

- CHEM 160 General Chemistry 3
- CHEM 160L General Chemistry Laboratory 1
- CHEM 161 General Chemistry 3
- CHEM 161L General Chemistry Laboratory 1

Total Credit Hours 62

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 may be approved to satisfy one of the Broad Knowledge requirements plus LOPER 9 or Broad 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.