ASTRONOMY, BACHELOR OF SCIENCE

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

Code	Title	Credit Hours
General Education		
Foundational Re	14	
Including:		
LOPER 4: Math Reasoning	ematics, Statistics, and Quantitative	
MATH 115	Calculus I with Analytic Geometry ¹	
Broad Knowledg	11	
Including:		
Take any one co satisfies a Disp 10) and a Broad meet these crit undergraduate/ knowledge-disp undergraduate/ knowledge-disp		
PHYS 275	General Physics I (Calculus)	
PHYS 275L	General Physics I (Calculus) Laboratory	
Dispositional Re	6	
Wellness (LOPE	0	
BS Science-rela	8	
MATH 202	Calculus II with Analytic Geometry	
MATH 305	Differential Equations	
Program Specif	5	
PHYS 276	General Physics II (Calculus)	
PHYS 276L	General Physics II (Calculus) Laboratory	
Major Option		
Complete all re	34	
Minor or 2nd Major		
Complete all re	24	
Unrestricted ele		
Needed to reac	18	
Total Credit Hours		

Major Option

Code	Title	Credit Hours
Astronomy Re	equirements	
PHYS 210	Astronomy	3
PHYS 123	Freshman Physics Seminar	3
PHYS 346	Modern Physics I	4
PHYS 350	Astrophysics I	3
PHYS 351	Astrophysics II	3

PHYS 360	Computational Methods in Physics and Astronomy	3
PHYS 361	Astronomy Methods II	3
PHYS 410	Mathematical Techniques in Physics I	3
Astronomy Mat	h Requirements	
MATH 260	Calculus III	5
Physics Chemis	stry Requirements	
CHEM 160	General Chemistry	3
CHEM 160L	General Chemistry Laboratory	1
Total Credit Hours		34

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 General Education 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