

Astrophysics Certificate

Overview

Student interest in astrophysical phenomenon has always been strong, and is on the rise with recent developments, such as the James Webb Space Telescope, NASA's Artemis Lunar program, black hole imaging and more. Astrophysics is a burgeoning field that not only captures the public interest, but has implications for terrestrial problems as we observe extreme environments in "nature's laboratory." In the last two decades the Nobel prize in physics has been awarded seven times for astrophysical discoveries. Offered by the Department of Physics, the **Certificate in Astrophysics** has scientific merit, student interest and employment value. The certificate provides students with the opportunity to do bright sky astronomy in a large city and to design and build instruments and analyze resulting data.

This certificate is open to all students.

Campus Location: Main

Program Code: ST-APHY-CERT

Contact Information

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Certificate Requirements

All courses listed below have prerequisites. For more information, please check the course descriptions or ask an advisor.

Students desiring a certificate in Astrophysics are required to satisfy the following:

Code	Title	Credit Hours
Select one of the following:		4
PHYS 1061	Elementary Classical Physics I	
PHYS 1961	Honors Elementary Classical Physics I	
PHYS 2021	General Physics I	
PHYS 2921	Honors General Physics I	
Select one of the following:		4
PHYS 1062	Elementary Classical Physics II	
PHYS 1962	Honors Elementary Classical Physics II	
PHYS 2022	General Physics II	
PHYS 2922	Honors General Physics II	
PHYS 2796	Introduction to Modern Physics ¹	4
PHYS 3424	Introduction to Astrophysics	3
Select one of the following:		2-4
PHYS 1004	Introduction to Astronomy	
PHYS 1454	Observational Astronomy Through Design	
PHYS 4091	Undergraduate Research	
Total Credit Hours		17-19

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PHYS 2796 has a concurrent prerequisite of MATH 2043 or MATH 2943.