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astronomy is a natural science that studies celestial objects and the phenomena that occur in the cosmos it uses mathematics physics and chemistry in order to explain their origin and their overall evolution objects of interest include planets moons stars nebulae galaxies meteoroids asteroids and comets

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astronomy science that encompasses the study of all extraterrestrial objects and phenomena since the late 19th century astronomy has expanded to include astrophysics the application of physical and chemical knowledge to an understanding of the nature of celestial objects

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physics is used in the design of instruments the interpretation of the data the instruments produce and finally in the construction of the grand theories which explain the evolution of stars galaxies and the universe or the earth other disciplines come into play as well

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cosmology is the study of the origin structure and evolution of the universe we now know that our universe began 13.8 billion years ago in a hot dense state we call the big bang then underwent a brief period of incredibly rapid exponential expansion called inflation then slowed down to a much slower expansion that has lasted ever since

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astronomy and physics the astronomy and physics directorate apd formulates develops and operates state of the art space missions and instruments in astronomy and fundamental physics addressing the questions how did the universe begin and how has it evolved how does the universe work and how has life come to be

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the center for astrophysics is a collaboration between the smithsonian astrophysical observatory and harvard college observatory that s designed to ask big questions about the universe build the tools needed to answer them and share the resulting discoveries

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the department of physics and astronomy has a rich and long history dating back to the
latter part of the 19 th century our faculty and students are exploring nature at all
length scales from the subatomic quarks and gluons to the macroscopic black holes and
dark energy and everything in between atomic and biological systems

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any 20 units of the following courses pc3261 classical mechanics ii pc3232 nuclear and
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about the academic workforce survey every two years the american institute of physics
surveys all degree granting physics or astronomy departments across the united states
to conduct a national census on the number of currently employed faculty members this

survey includes departments that only award a phd master s or bachelor s degree

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