



"Physics" comprises many areas

• Astrophysics & cosmology

- Study the largest structures in the universe, where they came from, how they evolved. Where did the universe itself come from?
- Atomic, molecular and optical physics
 - Studies of atoms. Fundamentals of quantum mechanics. Quantum information.
- Biophysics
 - Physics of biological molecules (protein folding, DNA...)
- Condensed matter physics
 - Physics of materials, superconductivity, device physics. Quantum information.
- High-energy physics
 - Fundamental constituents of matter and fundamental forces.
- Nuclear physics
 - Physics of nuclei (duh). At UIUC this also includes "medium energy" physics: quark-gluon plasma, muon g-2...

There are no walls between one area and another.









