Astronomy & Cosmology

Astronomy studies celestial objects and phenomena and combines mathematics, physics, and chemistry to explain their origin and evolution. Objects of interest include planets, moons, stars, nebulae, galaxies, and comets. Relevant phenomena include supernova explosions, gamma ray bursts, quasars, blazars, pulsars, and cosmic microwave background radiation. Cosmology is a branch of astronomy concerned with the studies of the origin and evolution of the universe, from the Big Bang to today and on into the future. It is the scientific study of the origin, evolution, and eventual fate of the universe.

• Supplemental Modules (Astronomy & Cosmology)

• Book: Astronomy (OpenStax)
• **Book: Stellar Atmospheres (Tatum)**

• **Book: Celestial Mechanics (Tatum)**

• **Book: Planetary Photometry (Tatum and Fairbairn)**

• **Book: Cosmology (Knox)**

*Thumbnail: Note the two smaller eruptions before the big one. The Sun’s upper atmosphere (corona) is shown here. (CC BY-SA 3.0 Unported; Patrick McCauley/From Quarks to Quasars/SDO via Wikipedia).*