

AST 3162: HighEnergy Astrophysics Topics

Classes of astronomical sources detected at ultraviolet, X-ray, and gamma-ray wavelengths and the physical processes behind these emissions: stellar coronae and stellar flares, cataclysmic binaries, supernovae, accretion disks around neutron stars and black holes, X-ray bursters, active galactic nuclei, QSO's, BL Lac objects, and gamma-ray bursters. Prereq: One year of mathematics or university level physics, plus 2120.

Credits: 3.0

Prerequisites:

PHY 2410

PHY 2412

AST 2120

PHY 2410 :D- and PHY 2412 :D- and AST 2120 :D-

Program: Astrophysics and Planetary Science