

B.S. in Space Physics

The B.S. in Space Physics engages students in the scientific side of space exploration through studies of the Earth-sun environment, atmospheric sciences, aurorae, planetary sciences, space weather, laboratory plasma physics, stellar and high-energy astrophysics, gravitational physics, exoplanets and exotic propulsion.

Space Physics students have access to campus-specific research areas such as the Laser Interferometer Gravitational-Wave Observatory (LIGO) at the Prescott Campus and the Ritchey-Chrétien reflecting telescope at the Daytona Beach Campus. Graduates of the program are prepared to work in applied research careers as contributors in the growing field of space exploration.

At the **Daytona Beach Campus**, the B.S. in Space Physics emphasizes the physics of the solar-terrestrial and distant-space environments. Students learn to study magnetic and astrophysical phenomena that occur in outer space, in the upper atmospheres of planets and on the sun.

The university houses one of the largest university-based research telescopes in the southeastern United States: a 1-meter Ritchey-Chrétien reflecting telescope. Adjacent to the telescope is a helioscope used to observe solar activity, providing students with hands-on experience using ground-based instruments to study space phenomena.

At the **Prescott Campus**, the B.S. in Space Physics allows students to explore fundamental forces in nature through the study of astrophysics, relativity and gravitation, as well as atomic, nuclear and elementary particle systems. Students are immersed in designing experiments and building equipment for physics research. Students have access to laboratories for studying optics, exotic propulsion and cosmic rays, including the Laser Interferometer Gravitational-Wave Observatory (LIGO) and the Prescott Observatory Complex.