

GENERAL STUDIES WITH EMPHASIS IN ASTRONOMY - ASSOCIATE IN ARTS

The AA Degree in General Studies with Emphasis in Astronomy provides a lower division science foundation for those interested in the field of astronomy. Astronomy amateurs, planetarium operator, science teachers, and future astronomy baccalaureate majors are potential students in this program. It incorporates courses in physics, requiring familiarity with the laws of physics to describe and predict astronomical events. The program outlines a course of study that emphasizes breadth in the physical sciences. This program also provides a robust foundation for students obtaining a credential in elementary science education. Students must complete each required area of emphasis course with a grade of "C" or better.

Program Learning Outcomes

- Demonstrate effective use of the language when communicating scientific information, using methodological skepticism to scrutinize knowledge and to formulate opinions about world situations.
- Analyze data collected in laboratory experimentation and formulate predictions using computer technology, mathematics, and consistent significant figures.
- Solve problems representing real world situations using classical and/or modern physics.
- Demonstrate understanding of the scientific method, by clearly identifying its use in current scientific developments, and in historical scientific revolutions.
- Show personal responsibility and social awareness by exercising ethical leadership and balanced critique of new scientific developments and public affairs.

Area of Emphasis Requirements

Course	Title	Units
ASTRO 014	Solar System Astronomy	3
ASTRO 016	Stars, Galaxies, and the Origin of the Universe	3
PHYS 007A	Calculus-Based General Physics for Scientists and Engineers - I	4
PHYS 007B	Calculus-Based General Physics for Scientists and Engineers - II	4
PHYS 007C	Calculus-Based General Physics for Scientists and Engineers - III	4

Total Requirements

Course	Title	Units
	Area of Emphasis Requirements	18
	AA applicable electives (recommended electives from area "B")	3
	General Education Requirements	39
Total Units		60