

# GENERAL STUDIES WITH EMPHASIS IN ASTRONOMY - ASSOCIATE IN ARTS

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The Associate in Arts 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 operators, 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 good focus for students interested in 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 010	Introduction to Astronomy	3
ASTRO 010L	Introductory Astronomy Lab	1
ASTRO 014	Solar System Astronomy	3
ASTRO 016	Stars, Galaxies, and the Origin of the Universe	3
PHYS 004B	General Physics	5
PHYS 004C	General Physics	5

## Total Requirements

Course	Title	Units
	Area of Emphasis Requirements	20
	General Education Requirements	39
	Physical Activity	1
	<b>Total Units</b>	<b>60</b>