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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tr>
<td>ASTRO 014</td>
<td>Solar System Astronomy</td>
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<tr>
<td>ASTRO 016</td>
<td>Stars, Galaxies, and the Origin of the Universe</td>
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<td>PHYS 007A</td>
<td>Calculus-Based General Physics for Scientists and Engineers - I</td>
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<td>PHYS 007B</td>
<td>Calculus-Based General Physics for Scientists and Engineers - II</td>
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<td>PHYS 007C</td>
<td>Calculus-Based General Physics for Scientists and Engineers - III</td>
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Total Requirements

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<th>Course</th>
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<tr>
<td>Area of Emphasis Requirements</td>
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<tr>
<td>AA applicable electives (recommended electives from area “B”)</td>
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<td>General Education Requirements</td>
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