SCiences & Mathematics

Associate in Science

Liberal Arts and Science: Physics Option

<table>
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<td>English Composition I</td>
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<td>PHY-101</td>
<td>Physics I or Computer Literacy</td>
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<td>MTH-140</td>
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<td>LFO-101</td>
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Total Minimum Credits: 62

1 A student who has completed 2 years of high school physics should select an alternate course.

Program Description
This program is designed for students with a strong interest in either physics, engineering, or photonics. The credits in this program are transferable to four-year colleges for majors in physics and any branch of engineering.

Program Goals
- To provide students with a foundation in science with a concentration of course work appropriate for a physics major.
- To prepare students to use theoretical principles and experimental equipment and to apply them to solve specific problems in physics and related areas.
- To instill in the students a commitment to lifelong learning which fosters in them a desire to transfer credits to a baccalaureate program in physics, astronomy or any branch of engineering.

Special Course Requirement
Mathematics at the level of Intermediate Algebra (MTH-109) is a prerequisite for this program.

Program Student Learning Outcomes
At the end of the program, the graduate will be able to:
1. Explain the fundamental concepts of physics.
2. Design and conduct experiments demonstrating physics principles.
3. Apply mathematics to solve physics application problems.

Employment Opportunities
- Advanced physics
- Astronomy
- Biophysics
- Biotechnology
- Chemical engineering
- Electrical, optical engineering
- Material science
- Lasers
- Fiber optics
- Education

Transfer Opportunities:
Students in this program transfer to many institutions including:
Drexel University
Rowan University
Rutgers University
Temple University

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