



## Arts and Sciences: Physics Option, A.S.

[AS-ASC-PHY; CIP Code 24.0101]

### Associate in Science (A.S.) – Transfer

The Arts and Sciences: Physics Option will provide students two years of concentrated study for those who plan to pursue a baccalaureate degree in physics or related disciplines. Humanities and social science electives are incorporated to provide a broad educational experience.

#### Program Learnings

Students who have completed the program will be able to:

- Understand and apply fundamental principles to the study of science overall including the health sciences
- Develop and demonstrate the basic skill set, techniques and procedures required to do laboratory work in the physics and physics-related sciences

#### Program Contact

Dr. Nasra Sultana, Assistant Professor  
[nsultana@rcsj.edu](mailto:nsultana@rcsj.edu)

✦ Are you ready to get  
started at RCSJ?  
Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll)  
and complete the  
interest form. ✦

#### FIRST YEAR – Fall Semester

|   |          |
|---|----------|
| <input type="checkbox"/> ENG 101 English Composition I                                    | 3        |
| <input type="checkbox"/> PHY 121 Physics for Everyday Life or<br>PHY 105 Modern Astronomy | 4        |
| <input type="checkbox"/> CHM 111 General Chemistry I                                      | 4        |
| <input type="checkbox"/> MAT 108 Calculus I   | 4        |
|   | <hr/> 15 |

#### Spring Semester

|   |          |
|---|----------|
| <input type="checkbox"/> ENG 102 English Composition II     | 3        |
| <input type="checkbox"/> PHY 201 Physics I (calculus-based) | 4        |
| <input type="checkbox"/> CHM 112 General Chemistry II       | 4        |
| <input type="checkbox"/> MAT 122 Calculus II                | 4        |
|   | <hr/> 15 |

#### SECOND YEAR – Fall Semester

|  |             |
|--|-------------|
| <input type="checkbox"/> PHY 202 Physics II (calculus-based) | 4           |
| <input type="checkbox"/> MAT 221 Calculus III                | 4           |
| <input type="checkbox"/> MAT 202 Linear Algebra              | 3           |
| <input type="checkbox"/> ___ ___ Free elective               | 2-4         |
| <input type="checkbox"/> SOC 130 Society and Technology      | 3           |
|  | <hr/> 16-18 |

#### Spring Semester

|   |          |
|---|----------|
| <input type="checkbox"/> MAT 205 Differential Equations       | 4        |
| <input type="checkbox"/> PHY 203 Physics III (calculus-based) | 4        |
| <input type="checkbox"/> ___ ___ Humanities elective          | 3        |
| <input type="checkbox"/> ___ ___ Social Science elective      | 3        |
|   | <hr/> 14 |

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

Students planning to transfer to Rowan University should:

1. Take a non-PHI class for the Humanities elective
2. Take a non-SOC class for the Social Science elective
3. Take PHYS 00300 Modern Physics, on Rowan University's campus in Spring semester of their second year