

Rowan College of South Jersey
ARTS AND SCIENCES – PHYSICS Option
Associate in Science (A.S.) – Transfer
 Program Requirements

The Associate Degree Arts and Sciences - Physics Option will provide students two years of concentrated study for those who plan to pursue a baccalaureate degree in physics science or related disciplines. Humanities and social science electives are incorporated to provide a broad educational experience. Students who have completed the program will be able to:

- Successfully transfer to four-year institutions to continue pursuit of a scientific degree in the physics sciences or related disciplines.
- 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.

Required Core and Elective Courses

		<u>Credits</u>
<u>Communications</u>		
ENG 101	English Composition I	3
ENG 102	English Composition II	3
<u>Humanities</u>		
_____	Humanities Elective	3
<u>Social Science</u>		
SOC 130	Society and Technology	3
_____	Social Science Elective	3
<u>Free Elective</u>		2-4
<u>Mathematics</u>		
MAT 108	Calculus I	4
MAT 122	Calculus II	4
MAT 205	Differential Equations	4
MAT 202	Linear Algebra	3
MAT 221	Calculus III	4
<u>Science</u>		
CHM 111	General Chemistry I	4
CHM 112	General Chemistry II	4
PHY 121	Physics for Everyday Life	4
PHY 105	Modern Astronomy	4
PHY 201	Physics I (calculus-based)	4
PHY 202	Physics II (calculus-based)	4
PHY 203	Physics III (calculus-based)	4
<u>TOTAL MINIMUM CREDITS:</u>		60

*Students planning to transfer to Rowan University should:

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

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Four Semester Sequence of Courses

<u>FIRST YEAR - Fall Semester</u>			<u>Credits</u>
_____	ENG 101	English Composition I	3
_____	PHY 121	Physics for Everyday Life	
_____	PHY 105	Modern Astronomy	4
_____	CHM 111	General Chemistry I	4
_____	MAT 108	Calculus I	4
		or	
			15
<u>Spring Semester</u>			
_____	ENG 102	English Composition II	3
_____	PHY 201	Physics I (calculus-based)	4
_____	CHM 112	General Chemistry II	4
_____	MAT 122	Calculus II	4
			15
<u>SECOND YEAR - Fall Semester</u>			
_____	PHY 202	Physics II (calculus-based)	4
_____	MAT 221	Calculus III	4
_____	MAT 202	Linear Algebra	3
_____		Free Elective	2-4
_____	SOC 130	Society and Technology	3
			16-18
<u>Spring Semester</u>			
_____	MAT 205	Differential Equations	4
_____	PHY 203	Physics III (calculus-based)	4
_____	_____	Humanities Elective	3
_____	_____	Social Science Elective	3
			14
<u>TOTAL MINIMUM CREDITS:</u>			60

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