



2026 - 2027

# Associate in Science: Physics Pathway

Arts and Sciences / University Transfer

MULTIPLE LOCATIONS

| VARIED SEMESTER LENGTHS

| NUMEROUS PROGRAMS

| FINANCIAL AID



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# Associate in Science: Physics Pathway

**All Pathways are designed to transfer to a four-year institution for eventual completion of a BA/BS degree.**

Physics is the study of the physical world; what it's like, what it's made of, and how it all fits together. In physics, you study everything from the innermost workings of the atom to the interactions between entire galaxies in the universe, and more. Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. Physics is the most basic and fundamental science.

Students of physics are trained to use mathematics and problem-solving techniques, along with fundamental physics principles, to understand and solve problems dealing with mechanics, electricity and magnetism, thermodynamics, electronics, relativity, and quantum mechanics. In this way, one is able to come to understand this physical universe of ours, and come to appreciate how it all fits together.

A major in physics can prepare students for a career in areas such as engineering, computer science, mathematics, astronomy, medicine, law, business, and education.

## For More Information:

Contact Susan Schwarz by email at [susanjschwarz@abtech.edu](mailto:susanjschwarz@abtech.edu) or call 828-398-7630

## Total Cost Estimate

|                                                       |                                                                    |
|-------------------------------------------------------|--------------------------------------------------------------------|
| <b>Tuition per Semester (NC Resident)</b>             | \$1,216.00 (16+ credit hours)<br>\$76.00/credit hour (1-15 hours)  |
| <b>Computer Use and Technology Fee</b>                | \$48/semester                                                      |
| <b>Activity Fee</b>                                   | Fall and Spring semesters only,<br>Main campus and Online, \$45.00 |
| <b>CAPS Fee (Campus Access, Parking and Security)</b> | \$30/semester                                                      |
| <b>Matriculation Fee</b>                              | \$25/semester                                                      |
| <b>Student Insurance</b>                              | \$2/Semester                                                       |
| <b>Consumable Supply Fees</b>                         | \$20 Some ART, BIO, CHM, HEA, PED, and PHY courses                 |
| <b>Books</b>                                          | cost may vary                                                      |

AA and AS degrees require completion of a minimum of 60 semester hours of credit, but pathways may include extra hours to meet university baccalaureate degree plans.

Completion of hours beyond 60 may not be required to meet AA or AS graduation requirements but is recommended based on programs offered by intended transfer institutions.

|              | Course Prefix | Course Name                       | Credit Hours |
|--------------|---------------|-----------------------------------|--------------|
| 1st Semester | ACA 122       | College Transfer Success          | 1            |
|              | CHM 151       | General Chemistry I               | 4            |
|              | COM 231       | Public Speaking                   | 3            |
|              | ENG 111       | Writing and Inquiry               | 3            |
|              | MAT- 271      | Calculus I                        | 4            |
| 2nd Semester | ART 111       | Art Appreciation                  | 3            |
|              | ENG 112       | Writing/Research in the Disc      | 3            |
|              | HIS 112       | World Civilizations II            | 3            |
|              | MA 272        | Calculus II                       | 4            |
| 3rd Semester | MAT 273       | Calculus III                      | 4            |
| 4th Semester | ECO 251       | Prin of Microeconomics            | 3            |
|              | FRE 111       | Elementary French I (or SPA 111)  | 3            |
|              | HIS 111       | World Civilizations I             | 3            |
|              | PHY 251       | General Physics I                 | 4            |
| 5th Semester | FRE 112       | Elementary French II (or SPA 112) | 3            |
|              | HUM 220       | Human Values and Meaning          | 3            |
|              | MAT 285       | Differential Equations            | 3            |
|              | PED 110       | Fit and Well for Life             | 2            |
|              | PHY 252       | General Physics II                | 4            |