

2018 - 2019  
Associate in Science:  
Physics Pathway

Arts and Sciences



MULTIPLE LOCATIONS | VARIED SEMESTER LENGTHS | NUMEROUS PROGRAMS | FINANCIAL AID



# 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 Matthew Fender by email at [matthewafender@abtech.edu](mailto:matthewafender@abtech.edu) or call 828-398-7316

**Total Cost Estimate**

<b>Tuition per Semester (NC Resident) (Subject to change)</b>	\$1,216.00 (16+ credit hours) \$76.00/credit hour (1-15 hours)
<b>Activity Fee</b>	\$32/semester (9+ credit hours) \$22/semester (1-8 credit hours)
<b>Computer Use and Technology Fee</b>	\$48/semester
<b>Student Insurance</b>	\$2/semester
<b>CAPS Fee</b>	\$10/semester
<b>Consumable Supply Fees</b>	\$15 Some ART, BIO, CHM, HEA, PED, and PHY courses
<b>Books</b>	cost may vary

	Course Prefix	Course Name	Credit Hours
1st Semester	ACA 122	College Transfer Success	1
	CHM 151	General Chemistry I	4
	ENG 111	Writing and Inquiry	3
	HIS 111	World Civilizations I	3
	MAT 271	Calculus I	4
2nd Semester	ENG 112	Writing/Research in the Disc	3
	HIS 112	World Civilizations II	3
	MAT 272	Calculus II	4
	PHY 251	General Physics I	4
Summer Semester	COM 231	Public Speaking	
3rd Semester	ART 111	Art Appreciation	3
	FRE 111	Elementary French I (or SPA 111)	3
	MAT 273	Calculus III	4
	PHY 252	General Physics II	4
4th Semester	ECO 251	Prin of Microeconomics	3
	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

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.