Physics (411)

Associate of Science

ABOUT OUR PROGRAM

This program is intended to provide the first two years of a four–year baccalaureate program. Majors in physics examine natural phenomena at the fundamental level. Through observation, measurement, and mathematical analysis of processes, physics seeks to discover the underlying principles and concepts.

NATURE OF WORK AND EMPLOYMENT

The four most common jobs people have one year after completion of their bachelor's degree in this major are researcher, science technician, electrical/electronics engineer, and computer analyst.

SPECIAL CONSIDERATIONS

Those interested in this field should possess a strong aptitude for mathematics and science as well as an interest and curiosity about natural phenomena. **The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements and specific university requirements in this major.** Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met. Colleges and universities have specific requirements for transfer students.

PROGRAM CONTACTS

Call Highland at 815–235–6121 for the following program contacts:

• Dr. Brendan Dutmer, Associate Dean, Natural Science and Mathematics
• David Esch, Physics/Engineering Faculty
• Thedford Jackson, Student Advisor

RECOMMENDED COURSES

The following are recommended courses for this major only. Students must still meet all requirements for the Associate of Science degree (see page 58) in order to graduate from Highland Community College. For more information, please see your student advisor.

Chemistry

*	CHEM	123	General College Chemistry I	5
*	CHEM	124	General College Chemistry II	5

Mathematics

*	MATH	168	Analytic Geometry & Calculus I	5
*	MATH	268	Analytic Geometry & Calculus II	5
*	MATH	269	Analytic Geometry & Calculus III	4
*	MATH	265	Differential Equations	3
*	MATH	270	Linear Algebra	3

Physics

*	PHYS	143	General Physics I	5
*	PHYS	144	General Physics II	5
*	PHYS	145	General Physics III	3

* Course has a prerequisite. See course descriptions.