

PHYSICS

Associate of Science Degree

Science, Technology, Engineering & Math Pathway
 CCD.edu/Physics

Physics Transfer Major

The Associate of Science degree with a designation in physics is a two-year program designed for you to graduate and transfer to a four-year institution to complete a Bachelor of Arts or a Bachelor of Science degree in physics.

In this field of science, you will learn the laws of physics, which govern everything in the universe from small bits of matter to the largest star. In addition, you will explore chemistry and calculus. Physics is a prerequisite to any in-depth study of the sciences and technologies and it leads to careers in a variety of industries.

COURSE MAP

Course	Title	Credits
First Semester		
SOC 1002	Introduction to Sociology II: GT-SS3	3
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1021	English Composition I: GT-CO1 ¹	3
MAT 2410	Calculus I: GT-MA1 ²	5
Subtotal		16
Second Semester		
ENG 1022	English Composition II: GT-CO2 ¹	3
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
Choose One Elective		4-5
CHE 1112	General College Chemistry II with Lab: GT-SC1 ^{3,5}	
CSC 1060	Computer Science I: (Language) ^{4,5}	
Subtotal		17-18
Third Semester		
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	5
Choose One Mathematics Course		4-5
MAT 2430	Calculus III: GT-MA1	
MAT 2431	Calculus III with Engineer Applications: GT-MA1 ⁴	
Choose Two Arts & Humanities Courses (GT-AH1~GT-AH4)		6
ART 1110	Art Appreciation: GT-AH1	
ART 1111	Art History Ancient to Medieval: GT-AH1	
HUM 1021	Humanities: Early Civilization: GT-AH2	
PHI 1011	Intro to Philosophy: GT-AH3	
MUS 1020	Music Appreciation: GT-AH1	
PHI 1013	Logic: GT-AH3	
Subtotal		15-16
Fourth Semester		
PHY 2113	Physics III: Calculus Based Modern Physics	3
Choose One Mathematics Elective		3-4
MAT 2560	Differential Equations: GT-MA1	
MAT 2562	Differential Equations with Linear Algebra	
Choose One Arts & Humanities Course (GT-AH1~GT-AH4)		3
ART 1110	Art Appreciation: GT-AH1	
ART 1111	Art History Ancient to Medieval: GT-AH1	
HUM 1021	Humanities: Early Civilization: GT-AH2	
PHI 1011	Intro to Philosophy: GT-AH3	
MUS 1020	Music Appreciation: GT-AH1	
PHI 1013	Logic: GT-AH3	
Choose One History Course (GT-HI1)		3
HIS 2015	20th Century World History: GT-HI1	
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 1120	The World: 1500-Present: GT-HI1	
HIS 1220	U.S. History Since the Civil War: GT-HI1	
HIS 1210	U.S. History to Reconstruction: GT-HI1	

HIS 2135	Colorado History: GT-HI1	
Subtotal		12-13
Total Credits		60-63

¹ Students can take ENG 1022 and an additional GT-CO3 course instead of ENG 1021 and ENG 1022.

² Requires prerequisite coursework: MAT 1340 and MAT 1420. See an academic advisor for specific information.

³ Students planning to transfer to University of Colorado Boulder must take CHE 1112

⁴ Students planning to transfer to University of Northern Colorado must take CSC 1060.

⁵ Fort Lewis College and University of Colorado, Colorado Springs requires you take both CSC 1060 and CHE 1112.

NOTE: The faculty at Community College of Denver have chosen course elective options for this program of study based on the skills students will need to be successful in this discipline. However, for a complete list of available course options, please go to the Colorado Department of Higher Education Transfer Degree Agreement for this program.