

PHYSICS 2.0, ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER

Physics is an attempt to understand natural phenomena, and is fundamental to related fields such as astronomy, biology, chemistry, geology and engineering. The goal of the physics program is to develop students' understanding and analysis of the physical world through mathematical techniques involving qualitative and quantitative reasoning.

Program Learning Outcomes

1. Identify and describe major concepts and theoretical principles as applied to physics.
2. Apply appropriate physical laws and mathematical techniques to analyze various physical situations.
3. Perform various scientific experiments and to analyze data to check agreement with theoretical predictions.

Requirements for the Degree

Course	Title	Units
Required Core		
Complete the following:		
PHYS C185	Calculus Based Physics: Mechanics	4
PHYS C280	Calculus Based Physics: Electricity and Magnetism	4
PHYS C285	Calculus Based Physics: Modern Physics	4
MATH C180	Calculus 1	5
MATH C185	Calculus 2	5
MATH C280	Calculus 3	5
MATH C285	Introduction to Linear Algebra and Differential Equations	5
CIS C157	Introduction to Python Programming	3
Units Required for Major		35
CalGETC pattern		34
Transfer Electives		Varies
Total Units		62-66