

PROGRAM DESCRIPTION: The Associate in Science Degree in Physics is a program giving students the background that four-year colleges require for their own undergraduate preparation. Physics is the foundation of modern science; it is the major for a passion of understanding how things work as well as enjoying scientific experiments and mathematics. Physics is the science concerned with investigating and understanding the basic laws of nature from the domain of the very small subatomic particles to the very large astronomical objects and everything in between. Physics graduates find employment in diverse occupations such as research, medicine, software design, and finance. Physicists are involved in many fields of study including Research and Development, Aerospace and Defense, Design and Production, Medical Physics, Astronomy and Astrophysics, Geophysics, Meteorology, and Education. Physics is the science behind innovations and technological advances of the future. The semester-by-semester plans described below are general guidelines. Students should work closely with their academic advisors to develop a plan that best meets their own individual needs and goals.

PROGRAM OUTCOMES AND CURRICULUM MAP.

Minimum Credit Hours Required to Graduate = 60

Semester 1	16-17 hours
Course No.	Course Title
*ENGL-101	English I.....3
*MATH-122	Calculus and Analytical Geometry I.....5
*CHEM-109	College Chemistry I.....5
*	Personal Wellness Requirement2-3
*	Student Success Requirement.....1

Semester 2	16 hours
Course No.	Course Title
*ENGL-102	English II3
**MATH-123	Calculus and Analytical Geometry II5
***	Program Elective Course (select from list below).....5
*PHYS 101 or SOCI-102	General Psychology or Introduction to Sociology3

Semester 3	14 hours
Course No.	Course Title
*COMM-101	Public Speaking3
**PHYS-207	Engineering Physics I5
*	Humanities & Fine Arts Requirement3
	Open Elective Course3

Semester 4	14-16 hours
Course No.	Course Title
**PHYS-208	Engineering Physics II.....5
*	Humanities & Fine Arts Requirement3
*	Social Science Requirement3
***	Program Elective Course (select from list below).....3-5

*** PROGRAM ELECTIVE COURSES

Course No.	Course Title	Credit
CHEM-110	College Chemistry II5	
CSCI-102	Introduction to Programming3	
CSCI-107	Advanced Programming3	
MATH-205	Calculus and Analytical Geometry III5	
MATH-206	Differential Equations.....3	
PHSC-2053	Physical Geology Lecture3	
PHYS-205	General Physics I.....5	
PHYS-206	General Physics II.....5	

* CORE CURRICULUM REQUIREMENT
Communications, Mathematics & Natural Sciences, Social Sciences, Humanities & Fine Arts, Personal Wellness, Student Success

** REQUIRED PROGRAM COURSE

*** PROGRAM ELECTIVE COURSE
Other courses are subject for approval with submission of Graduation Substitution form.

