

PHYSICS OPTION – N014

A.S. in Arts and Science

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COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
GENERAL EDUCATION REQUIREMENTS			20		
Language and Literature I	ENG 101	Appropriate score on Placement Tests, or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099	3		
Language and Literature II	ENG 102	ENG 101	3		
Social Sciences (B)			3		
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Physics for Engineering and Science Majors I (Fall)	PHS 111	MTH 113	4		
Physics for Engineering and Science Majors II (Spring)	PHS 112	PHS 111 and MTH 114	4		
PROGRAM REQUIREMENTS			42		
Calculus I	MTH 113	MTH 108 or adequate score on the Mathematics Placement Exam	4		
Calculus II	MTH 114	MTH 113	4		
Calculus III	MTH 213	MTH 114	4		
Principles of Chemistry I <u>or</u> Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II <u>or</u> Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
Humanities Elective (C)			3		
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Physics for Engineers and Science Majors III (Spring)	PHS 201	PHS 112 Co-requisite: MTH 213 previously or concurrently	4		
Social Science Elective (B)			3		
Differential Equations	MTH 214	MTH 212 or MTH 213 previously or concurrently	3		
Linear Algebra	MTH 205	MTH 112 or MTH 114, previously or concurrently	3		
Total Credits			62		

PROGRAM OVERVIEW

The Physics Option prepares students for transfer to public or private four-year colleges or universities with a major in physics. This option satisfies the requirements of the MassTransfer Program, facilitating transfer to four-year baccalaureate programs at state universities and the University of Massachusetts. Physicists find employment opportunities in industry, government and education in fields, such as, physics, engineering, computer software, and business.