PHYSICS - BACHELOR OF SCIENCE

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1511G Calculus and Analytic Geometry I and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change. Full-time students are usually required to take at least 15 credits per semester.

First Year		
Semester 1		**Credits**
ENGL 1110G	Composition I [1]	4
MATH 1511G	Calculus and Analytic Geometry I [1]	4
PHYS 1111	Introductory Computational Physics [1]	3
PHYS 2110 & 2110L	Mechanics and Experimental Mechanics [1]	4
PHYS 2111	Supplemental Instruction to PHYS 2110 [1]	1
	Credits	**16**
Semester 2		
ENGL 2210G	Professional and Technical Communication Honors [1]	3
MATH 1521G or MATH 1521H	Calculus and Analytic Geometry II [1] or Calculus and Analytic Geometry II Honors	4
PHYS 2140 & 2140L	Electricity and Magnetism and Electricity & Magnetism Laboratory [1]	4
PHYS 2141	Supplemental Instruction to PHYS 2140 [1]	1
Area IV: Social and Behavioral Science Course [2]		3
	Credits	**15**
Second Year		
Semester 1		
CHEM 1215G or CHEM 1216	General Chemistry I Lecture and Laboratory for STEM Majors [1] or General Chemistry I Lecture and Laboratory for CHEM Majors	4
MATH 2530G	Calculus III [1]	3
PHYS 2120 & 2120L	Heat, Light, and Sound and Heat, Light, and Sound Laboratory [1]	4
PHYS 2121	Supplemental Instruction to PHYS 2120	1
COMM 1115G	Introduction to Communication	3
	Credits	**15**
Semester 2		
CHEM 1225G or CHEM 1226	General Chemistry II Lecture and Laboratory for STEM Majors [1] or General Chemistry II Lecture and Laboratory for CHEM Majors	4
MATH 3160	Introduction to Ordinary Differential Equations [1]	3
PHYS 315	Modern Physics [1]	3
PHYS 316	Supplemental Instructions to PHYS 315	1
PHYS 325	Intermediate Experimental Physics [1]	3
Area V: Humanities Course [2]		3
	Credits	**17**
Third Year		
Semester 1		
PHYS 451	Intermediate Mechanics I [1]	3
PHYS 461	Intermediate Electricity and Magnetism I [1]	3
PHYS 395	Intermediate Mathematical Methods of Physics [1]	3
VWW: Viewing a Wider World Course [3]		3
First Course in Second Language Series		3-4
	Credits	**15-16**
Semester 2		
PHYS 462	Intermediate Electricity and Magnetism II [1]	3
PHYS 480	Thermodynamics [1]	3
Area VI: Creative and Fine Arts Course [2]		3
VWW: Viewing a Wider World Course [3]		3
Next Course in Second Language Series [1]		3-4
	Credits	**15-16**
Fourth Year		
Semester 1		
PHYS 454	Intermediate Modern Physics I [1]	3
Physics/Geophysics Upper-Division Elective Courses [1]		6
Elective Courses		6
	Credits	**15**
Semester 2		
PHYS 455	Intermediate Modern Physics II [1]	3
Advanced Physics Laboratory [1]		3
Elective Courses		6-4
	Credits	**12-10**
	Total Credits	**120**

1. These courses may have prerequisites and/or co-requisites, and it is the students responsibility for checking and fulfilling all those requirements.
2. See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.
3. See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses.