120

PHYSICS - BACHELOR OF SCIENCE

A Bachelor of Science degree in physics at NMSU prepares a student well for graduate study in physics, astrophysics, or engineering or for a variety of careers in research and teaching. Students who plan to seek employment at the B.S. level are advised to take the concentration area curricula as part of their electives in addition to the general and departmental requirements. The program of study should be chosen by the student in consultation with a physics faculty advisor.

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300/3000 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework. The Bachelor of Science degree in Physics is accredited by the Applied and Natural Science Accreditation Commission (ANSAC) of ABET, https://www.abet.org (https://nam10.safelinks.protection.outlook.com/?url=https%3A %2F%2Fwww.abet.org%2F&data=05%7C02%7Cgdmart%40nmsu.edu %7C1f05aec125ce44c5a30808dcf1f7ba03%7Ca3ec87a89fb84158ba8ff11ba %7C1%7C0%7C638651293476050792%7CUnknown %7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1ha %7C0%7C%7C%7C&sdata=AG9ueMYqrAq%2FxwaQB0jjK90WuBEVGL %2FpZHDfDccblm8%3D&reserved=0), under the General Criteria with no applicable program criteria.

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Title

Prefix	Title	Credits
General Education		
Area I: Communication	s	10
English Compositio	n - Level 1 ¹	
English Compositio	n - Level 2 ¹	
Oral Communication	n ¹	
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I ²	4
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	10-11
Area III: Laboratory	Sciences Course (4 credits) 1,3	
Area IV: Social/Bel	navioral Sciences Course (3 credits) ¹	
	v: Laboratory Sciences Course or Social/ es Course (4 or 3 credits) ^{1,3}	
Area V: Humanities ¹		3
Area VI: Creative and F	ine Arts ¹	3
General Education Elec	tive	
MATH 1521G	Calculus and Analytic Geometry II	4
or MATH 1521H	Calculus and Analytic Geometry II Honors	
Viewing A Wider Worl	d ⁴	6
Departmental Require	ements ⁵	
PHYS 1111	Introductory Computational Physics	3
PHYS 2110 & 2110L	Mechanics and Experimental Mechanics	4
PHYS 2140 & 2140L	Electricity and Magnetism and Electricity & Magnetism Laboratory	4
PHYS 2120 & 2120L	Heat, Light, and Sound and Heat, Light, and Sound Laboratory	4
PHYS 315	Modern Physics	3
PHYS 325	Intermediate Experimental Physics	3

Ele	ectives, to bring the	total credits to 120 ^{5,6}	6-15
Se	cond Language Re	quirement: (required - see below)	0-8
aı ıe	CHEM 1216 & CHEM 1226	General Chemistry I Lecture and Laboratory for CHEM Majors and General Chemistry II Lecture and Laboratory for CHEM Majors	
	CHEM 1215G & CHEM 1225G	General Chemistry I Lecture and Laboratory for STEM Majors and General Chemistry II Lecture and Laboratory for STEM Majors	
Se	elect one of the follo	owing:	8
M	ATH 3160	Introduction to Ordinary Differential Equations	3
M	ATH 2530G	Calculus III	3
No	on-Departmental Re	equirements (in addition to Gen.Ed/VWW) ⁵	
	PHYS 493	Experimental Nuclear Physics	
	PHYS 475	Advanced Laboratory Practices for Materials	
	PHYS 471	Modern Experimental Optics	
Se	elect 3 credits from	the following:	3
Ad	lvanced Laboratory		
Se	elect an additional 6	credits in physics numbered 300 or above	6
PH	HYS 480	Thermodynamics	3
	HYS 462	Intermediate Electricity and Magnetism II	3
	HYS 461	Intermediate Electricity and Magnetism I	3
	IYS 455	Intermediate Modern Physics II	3
	1YS 454	Intermediate Modern Physics I	3
PI	HYS 451	Physics Intermediate Mechanics I	3
PH	HYS 395	Intermediate Mathematical Methods of	3

- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.
- MATH 1511G Calculus and Analytic Geometry I is required for the degree but students may need to take any prerequisites needed to enter MATH 1511G first.
- ³ See alternatives for meeting General Education requirements.

Total Credits

Cradite

- 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
- May not be taken S/U and must earn a grade of C- or better.
- Approved physics and technical electives are decided by Physics Advisors.

Students who plan to pursue graduate study in physics or astrophysics are strongly advised to take one or more senior-level courses in nuclear physics, space physics, condensed matter physics, astronomy, or computational physics. Students who plan to seek employment at the B.S. level are advised to select one of the following emphasis areas: Applied Physics, Computational Physics, or Materials Science. The program of study should be chosen by the student in consultation with a physics faculty advisor. Some recommended courses are listed below.

Applied Physics: 12 credits of upper division E E, M E, or CSCI courses;

Computational Physics: CSCI 1110 Computer Science Principles, CSCI 1115G Modern Computing in Practice, MATH 1531, and PHYS 476; Materials Science: 12 credits of upper-division courses selected from CHME 361, PHYS 450, PHYS 468, PHYS 471, PHYS 475, PHYS 488, and PHYS 489.

Second Language Requirement

For the Bachelor of Science in the Physics there is a one year second language requirement, the options to complete this requirement are listed below. The number of credits that a student needs to take may vary depending on what level they come in with. Please speak with an advisor for more information as to which courses you will need to take to fulfill the second language requirement for this degree.

Option 1:

Prefix	Title	Credits	
Complete one of the following sequences:			
FREN 1110 & FREN 1120	French I and French II	8	
GRMN 1110 & GRMN 1120	German I and German II	8	
JAPN 1110 & JAPN 1120	Japanese I and Japanese II	8	
SPAN 1110 & SPAN 1120	Spanish I and Spanish II	8	
For Heritage Speakers:			
SPAN 1220	Spanish for Heritage Learners II	3	
or SPAN 2210	Spanish for Heritage Learners III		
PORT 1110 or PORT 1120	Portuguese I Portuguese II	3	

Option 2:

Prefix	Title	!			Credits
Complete the fo	ollowing sequ	uence for	Americ	an Sign Language (w	ith a

SIGN 1110	American Sign Language I	3
SIGN 1120	American Sign Language II	3

Option 3:

Pretix	Title	Credits
Challenge the 1120 lev	el for the following courses:	

FREN 1120	French II	4
or GRMN 11	20 German II	
or JAPN 112	20 Japanese II	
or SPAN 112	20 Spanish II	
OR		

Challenge the 1110/1120/1220/2210 level for the following courses:

onunerige the 1110/1	120, 1220, 22 10 level for the following obtained.	
PORT 1110	Portuguese I	3
or PORT 1120	Portuguese II	
or SPAN 1220	Spanish for Heritage Learners II	
or SPAN 2210	Spanish for Heritage Learners III	

Option 4:

Pass a three-credit, upper-division course (numbered 300 or above) taught in a second language by the department of Languages and Linguistics.

Option 5:

Obtain college certification of completion of two years of a second language at the high school level with a grade of C- or higher in the second-year level.

Option 6:

By obtaining certification of a working knowledge of a Native American language from the American Indian program director.

Option 7:

By obtaining, from the head of the Department of Languages and Linguistics, certification of a working knowledge of a second language if such language is not taught at NMSU.

Option 8:

In the case of a foreign student who is required to take the TOEFL exam admission, the dean will automatically waive the second language

Dual Degree (BS/MS) Program

This program option is designed to provide a means for physics undergraduates to obtain an MS degree in physics after taking only an additional 18 credits for the MS. These 18 credits can be obtained in two semesters (and perhaps one summer term to write and defend an MS thesis). Students electing this option will follow the regular undergraduate BS in physics curriculum, except that they are advised to take the advanced laboratory course at the 500-level to meet both the BS and MS degree requirements. They can also apply up to nine credits of their undergraduate courses numbered 450 and above and up to twelve credits total (including 500-level courses) towards their MS degree. Students interested in this dual degree must be admitted to the MS in Physics graduate program and must fulfill all degree requirements for the MS degree in Physics.

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 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 Be	havioral Science Course ²	3
	Credits	15

Semester 1		Total Credits	120
Semester 1 CHEM 1215G General Chemistry Lecture and Laboratory for or CHEM 1215G or CHEM 1215G or General Chemistry Lecture and Laboratory for CHEM Majors or General Chemistry Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III 3 4 4 4 4 4 4 4 4 4	Licetive Courses	Credits	12-10
Semester 1		ou atory	
Semester CHEM 1215G			
Semester 1		latarra di ta Madarra Dh	
Semester 1		Credits	15
Semester 1	Elective Courses		6
Semester 1	Physics Upper-Division	n Elective Courses ¹	6
Semester 1			3
Semester 1	Semester 1		
Semester 1	Fourth Year		
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors 1 or General Chemistry I Lecture and Laboratory for CHEM 1250G Calculus III 1 3 PHYS 2120 Heat, Light, and Sound 4 8 2120L and Heat, Light, and Sound Laboratory 1 PHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3 Credits 15 Semester 2 CHEM 1225G General Chemistry II Lecture and Laboratory or CHEM 1226 for STEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM 1226 for STEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 sor General Chemistry II Lecture and Laboratory for CHEM Majors 2 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory 5 or General Chemistry II Lecture and Laboratory 6 or General Chemistry II Lecture and Laboratory 6 or STEM Majors 3 or General Chemistry II Lecture and Laboratory 6 or STEM Majors 3 or General Chemistry II Lecture and Laboratory 9 or General Chemistry II Lecture and Laboratory 1 or General Chemistry		Credits	15-16
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors 1 or General Chemistry I Lecture and Laboratory for CHEM 1250G Calculus III 1 3 PHYS 2120 Heat, Light, and Sound 4 8 2120L and Heat, Light, and Sound Laboratory 1 PHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3 Credits 15 Semester 2 CHEM 1225G General Chemistry II Lecture and Laboratory or CHEM 1226 for STEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM 1226 for STEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 or General Chemistry II Lecture and Laboratory or CHEM Majors 1 sor General Chemistry II Lecture and Laboratory for CHEM Majors 2 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory for CHEM Majors 3 or General Chemistry II Lecture and Laboratory 5 or General Chemistry II Lecture and Laboratory 6 or General Chemistry II Lecture and Laboratory 6 or STEM Majors 3 or General Chemistry II Lecture and Laboratory 6 or STEM Majors 3 or General Chemistry II Lecture and Laboratory 9 or General Chemistry II Lecture and Laboratory 1 or General Chemistry	Next Course in Second	l Language Series ¹	3-4
Semester 1			3
Chem 1215G General Chemistry Lecture and Laboratory for or CHEM 1216 STEM Majors or General Chemistry Lecture and Laboratory for CHEM 1216 STEM Majors			3
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors \(^1\) or General Chemistry I Lecture and Laboratory for OF CHEM Majors MATH 2530G Calculus III \(^1\) 33 PHYS 2120 Heat, Light, and Sound 48 2120L and Heat, Light, and Sound Laboratory \(^1\) UPHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3 Credits 15 Semester 2 CHEM 1225G General Chemistry II Lecture and Laboratory or General Chemistry II Lecture and Laboratory for CHEM Majors MATH 3160 Introduction to Ordinary Differential Equations 3 PHYS 315 Modern Physics \(^1\) 33 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 395 Intermediate Electricity and Magnetism I \(^1\) 3 PHYS 395 Intermediate Mathematical Methods of Physics \(^1\) 1 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			3
CHEM 1215G General Chemistry Lecture and Laboratory for or CHEM 1216 STEM Majors or General Chemistry Lecture and Laboratory for CHEM 1250G Calculus III 3	PHYS 462		3
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors 1 or General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III 1 33 PHYS 2120 Heat, Light, and Sound 4 2120L and Heat, Light, and Sound Laboratory 1 4 33 PHYS 2121 Supplemental Instruction to PHYS 2120 1 1 2 3 3 3 3 3 3 4 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3 4 3 3 4 3	Semester 2	Credits	15-16
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Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors ¹ or General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III ¹ 3 PHYS 2120 Heat, Light, and Sound 4 & 2120L and Heat, Light, and Sound Laboratory ¹ PHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3 Credits 15 Semester 2 CHEM 1225G General Chemistry II Lecture and Laboratory or General Chemistry II Lecture and Laboratory or General Chemistry II Lecture and Laboratory or General Chemistry II Lecture and Laboratory for CHEM Majors	MATH 3160	Introduction to Ordinary Differential Equations	3
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors ¹ or General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III ¹ 39 PHYS 2120 Heat, Light, and Sound 4 2120L and Heat, Light, and Sound Laboratory ¹ PHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3 Credits 15 Semester 2 CHEM 1225G General Chemistry II Lecture and Laboratory 4	MATU 0160	Laboratory for CHEM Majors	
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Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors ¹ or General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III ¹ PHYS 2120 Heat, Light, and Sound 4 & 2120L and Heat, Light, and Sound Laboratory ¹ PHYS 2121 Supplemental Instruction to PHYS 2120 1 COMM 1115G Introduction to Communication 3		Credits	15
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors ¹ or General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III ¹ 3 PHYS 2120 Heat, Light, and Sound 4 & 2120L and Heat, Light, and Sound Laboratory ¹ PHYS 2121 Supplemental Instruction to PHYS 2120 1	COMM 1115G		
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 or General Chemistry I Lecture and Laboratory for General Chemistry I Lecture and Laboratory for CHEM Majors MATH 2530G Calculus III 1 3 PHYS 2120 Heat, Light, and Sound 4		• •	
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Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors 1 or General Chemistry I Lecture and Laboratory for CHEM Majors			
Semester 1 CHEM 1215G General Chemistry I Lecture and Laboratory for or CHEM 1216 STEM Majors 1 4 4 4 4 4 4 5 6 6 7 7 7 8 7 7 7 7 7 7 7 7 7	MATH 2530G	_ · · · · · · · · · · · · · · · · · · ·	3
Semester 1		STEM Majors ¹	4
		General Chemistry I Lecture and Laboratory for	1
01/	Second Year		

These courses may have prerequisites and/or co-requisites, and it is the students responsibility for checking and fulfilling all those requirements.

- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.
- 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.