

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester One:					
PHYS 1310 & 1310L (General Physics, 160 & 160L)	4	4	4		C
PHYS 1311* (Prob in Gen Physics, 167)					CR
MATH 1512 (Calculus I, 162)	4	4	3		C
CHEM 1215 & 1215L (Gen Chem I, 121 & 123L)	4	4	3		C
Gen Ed Choice (1st English Composition, ENGL 1110)	3		3		C
Total:	15	12	13	0	
<i>Advisement: Try a Freshman Learning Community - 2 core classes combined</i>					
<i>At time of registration</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Three:					
PHYS 2310 & 2310L (General Physics, 262 & 262L)	4	4			C
PHYS 2311* (Prob in Gen Physics, 267)					CR
MATH 2530 (Calculus III, 264)	4	4			C
Gen Ed Communication (COMM 1130, ENGL 2210 or 2120, PHIL 1120)	3		3		C
Gen Ed Second Language	3		3		C
Total	14	8	6	0	
<i>Transition to Major Status (once semester grades are in)</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Five:					
PHYC 303 (Analytical Mechanics I)	3	3		3	C
PHYC 313* (Prob in Analytical Mechanics I)					CR
PHYC 302 (Introduction to Photonics)	3	3		3	C
PHYC 366 (Mathematical Methods of Physics)	4	4		4	CR
MATH 314 (Linear Algebra with Applications)	3	3		3	C
Elective Any Level	3				D-
Total	16	13	0	13	
<i>Visit Career Services</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Seven:					
PHYC 406 (Electricity & Magnetism II)	3	3		3	C
PHYC 416* (Prob in E&M II)					CR
PHYC 301 (Thermodynamics and Stat Mech)	3	3		3	C
PHYC 311* (Prob in Thermodynamics and Stat Mech)					CR
Optics Elective I	3	3		3	C
Science/Math/Engg Elective I	3	3			C
Elective Any Level (if recitations not taken)	3				D-
Total	15	12	0	9	
<i>Advisement: Departmental Check-In / Senior Visit</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Two:					
PHYS 1320 & 1320L (General Physics, 161 & 161L)	4	4			C
PHYS 1321* (Prob in Gen Physics, 168)					CR
MATH 1522 (Calculus II, 163)	4	4			C
CHEM 1225 & 1225L (Gen Chem II, 122 & 124L)	4	4			C
Gen Ed Communication (2nd English Composition, ENGL 1120)	3		3		C
Total:	15	12	3	0	
<i>Advisement: Enhanced Degree Audit skills</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Four:					
PHYS 2415 (Computational Physics, 290)	3	3			C
PHYC 330 (Intro Modern Physics)	3	3		3	C
PHYC 331* (Prob in Modern Physics)					CR
MATH 316 (Applied Ordinary Diff Equas)	3	3		3	C
Gen Ed Humanities	3		3		C
Gen Ed Social and Behavioral Sciences	3		3		C
Total	15	9	6	6	

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Six:					
PHYC 304 (Analytical Mechanics II)	3	3		3	C
PHYC 314* (Prob in Analytical Mechanics II)					CR
PHYC 405 (Electricity and Magnetism I)	3	3		3	C
PHYC 415* (Prob in Electricity and Magnetism I)					CR
PHYC 302L (Optics Lab)	3	3		3	CR
Gen Ed Arts and Design	3		3		C
Elective Any Level (if recitations not taken)	3				D-
Total	15	9	3	9	
<i>Complete Graduation Workshop & Apply for degree (after 4th week)</i>					
<i>Advisement: Departmental Check-In</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
Semester Eight:					
Science/Math/Engg elective II	3	3		3	C
Optics Elective II	3	3		3	C
Elective Any Level (if recitations not taken)	3				D-
Upper Division Elective	3			3	D-
Upper Division Elective	3			3	D-
Total	15	6	0	12	
<i>Advisement: Senior Visit</i>					
<i>Visit Graduation Fair</i>					

Degree Total	120	81	31	49
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The New Mexico General Education Curriculum (31 units)

Communication: (6 credit hours)
Mathematics and Statistics: (3 credit hours)
Physical and Natural Sciences: (4 credit hours)
Social and Behavioral Sciences: (3 credit hours)
Humanities: (3 units)
Second Language: (3 credit hours)
Arts and Design: (3 credit hours)
Student Choice: (6 credit hours)

Arts and Sciences College Minimum Requirements

Total credit hours = 120
300/400 level credit hours = 48
Minimum credit hours taught in A&S = 90

University Residence Requirements

- Minimum hours = 30
- Senior standing = 15 past 92
- In major = One half
- In minor = One quarter

Minimum graduation GPA = 2.00

Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.0 cumulative grade point average for admission to and graduation from the College of Arts and Sciences. Minimums listed for the individual courses do NOT meet the

For more information see the catalogue at www.unm.edu

Contact Information

Major Advisor:	Email:	Website: physics.unm.edu
Minor Advisor:	Email:	Website:
College Advisor:	Email:	Website: artsci.unm.edu/advisement/index.html

*Physics 1311, 1321, 2311, 331, 311, 313, 311, 415, 416, 496, and 497 are all one credit hour Recitation Sections associated with Physics 1310, 1320, 2310, 330, 301, 303, 304, 405, 406, 491, and 492, respectively. These recitation sessions are practice in solving problems from the associated lecture courses. They are very useful and strongly recommended for the major.

Departmental Honors Program

The Departmental Honors Program requires 2 semesters of an Honors Section of Physics 456. The student and faculty mentor present a mutually-agreeable topic to the department for approval. Also, the University requires a GPA of at least a GPA of at least 3.25. See the Honors web page for more information at physics.unm.edu/pandaweb/undergraduate/programs/honors.php

Minor options

No minor is required for the B.S. in Physics, although an optional minor or second major may be selected.

Notes

Optics Elective I - one of ECE 475, PHYC 463, PHYC 464, ASTR 426
Optics Elective II - one of PHYC 430, PHYC 477L, PHYC 493L, PHYC 554

Either ECE475 or PHYC430 or both must be taken to ensure breadth in material physics

One of Science/Math/Engg electives must be at 200-500 level, all others at 300-500 level