

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester One:</b>					
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
Gen Ed Choice (1st English Composition, ENGL 1110)	3		3		C
Gen Ed Second Language	3		3		C
<b>Total:</b>	<b>14</b>	<b>8</b>	<b>13</b>	<b>0</b>	
<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
<b>Semester Three:</b>					
ASTR 2110 & 2110L (General Astro I and Lab, 270 & 270L)	4	4			C
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
<b>Total</b>	<b>15</b>	<b>12</b>	<b>3</b>	<b>0</b>	
<i>Transition to Major Status</i>					
<i>(once semester grades are in)</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Five:</b>					
PHYC 301 (Thermodynamics and Stat Mech)	3	3		3	C
PHYC 311* (Prob in Thermodynamics and Stat Mech)					CR
PHYC 303 (Analytical Mechanics I)	3	3		3	C
PHYC 313* (Prob in Analytical Mechanics I)					CR
PHYC 366 (Mathematical Methods of Physics)	4	4		4	C
ASTR 421 (Concepts of Astrophysics I)	3	3		3	C
Gen Ed Arts and Design	3		3		C
<b>Total</b>	<b>16</b>	<b>13</b>	<b>3</b>	<b>13</b>	
<i>Visit Career Services</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Seven:</b>					
PHYC 491 or 406 (Inter. Quant. Mech. I or Elect and Mag. II)	3	3		3	C
PHYC 496 or 416* (Prob. in Inter. QM I or Prob. in E&M II)					CR
Astrophysics elective 1	3	3		3	C
Gen Ed Choice	3		3		C
Elective Any Level (if recitations not taken)	3				D-
Upper Division Elective	3			3	D-
<b>Total</b>	<b>15</b>	<b>6</b>	<b>3</b>	<b>9</b>	
<i>Advisement: Departmental Check-In / Senior Visit</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Two:</b>					
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
Gen Ed Communication (2nd English Composition, ENGL 1120)	3		3		C
Gen Ed Social and Behavioral Sciences	3		3		C
<b>Total:</b>	<b>14</b>	<b>8</b>	<b>6</b>	<b>0</b>	
<i>Advisement: Enhanced Degree Audit skills</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Four:</b>					
ASTR 2115 & 2115L (General Astro II and Lab, 271 & 271L)	4	4			C
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. Equations)	3	3		3	C
Gen Ed Humanities	3		3		C
<b>Total</b>	<b>16</b>	<b>13</b>	<b>3</b>	<b>6</b>	

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Six:</b>					
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
ASTR 422 (Concepts of Astrophysics II)	3	3		3	C
MATH 314 (Prereq for PHYC 491) or Upper Division Elective	3			3	C
Elective Any Level	3				D-
<b>Total</b>	<b>15</b>	<b>9</b>	<b>0</b>	<b>12</b>	
<i>Complete Graduation Workshop &amp; Apply for degree</i>					
<i>(after 4th week)</i>					
<i>Advisement: Departmental Check-In</i>					

Course Subject and Title	Credit Hrs.	Major	Gen Ed	Upper Div.	Min. Grade
<b>Semester Eight:</b>					
Astrophysics elective 2	3	3		3	C
Elective Any Level (if recitations not taken)	3				D-
Elective Any Level (if recitations not taken)	3				D-
Upper Division Elective	3			3	D-
Upper Division Elective	3			3	D-
<b>Total</b>	<b>15</b>	<b>3</b>	<b>0</b>	<b>9</b>	
<i>Advisement: Senior Visit</i>					
<i>Visit Graduation Fair</i>					

**Degree Total** **120 72 31 49**

## 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

a. Minimum hours = 30

b. Senior standing = 15 past 92

c. In major= One half

d. 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 cumulative minimum. Scholarships will have different requirements. Please see your advisor for ..

For more information see the catalogue at [www.unm.edu](http://www.unm.edu)

## Contact Information

Major Advisor:	Email:	Website: <a href="http://physics.unm.edu">physics.unm.edu</a>
Minor Advisor:	Email:	Website:
College Advisor:	Email:	Website: <a href="http://artsci.unm.edu/advisement/index.html">artsci.unm.edu/advisement/index.html</a>

\*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](http://physics.unm.edu/pandaweb/undergraduate/programs/honors.php)

## Minor options

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

Astrophysics electives are normally chosen from ASTR 423-427.

There is room for three more astro electives if the Upper Division Electives are used.