A Bachelor of Science degree in physics at NMSU prepares a student well for graduate study in physics, geophysics, 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 an 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 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, Inc.

Students who plan to pursue graduate study in physics or geophysics are strongly advised to take one or more senior-level courses in optics, nuclear physics, space physics, condensed matter physics, geophysics, or computational physics.

Select an additional 6 credits in physics or geophysics numbered 300 or above

Advanced Laboratory
Select 3 credits from the following:
- PHYS 471 Modern Experimental Optics
- PHYS 475 Advanced Physics Laboratory
- PHYS 493 Experimental Nuclear Physics

Non-Departmental Requirements (in addition to Gen.Ed/VWW)
- MATH 2530G Calculus III
- MATH 392 Introduction to Ordinary Differential Equations
Select one of the following:
-CHEM 1215G & CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors and General Chemistry II Lecture and Laboratory for STEM Majors
- CHEM 1216 & CHEM 1226 General Chemistry I Lecture and Laboratory for CHEM Majors and General Chemistry II Lecture and Laboratory for CHEM Majors

Second Language Requirement (required - see below)
Electives, to bring the total credits to 120

Total Credits 120

1. See the General Education section of the catalog for a full list of courses.
2. 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.
4. See the Viewing a Wider World section of the catalog for a full list of courses.
5. May not be taken S/U and must earn a grade of C- or better.
6. Approved physics and technical electives are decided by Physics Advisors.

Students who plan to pursue graduate study in physics or geophysics are strongly advised to take one or more senior-level courses in optics, nuclear physics, space physics, condensed matter physics, geophysics, or computational physics.

Select an additional 6 credits in physics or geophysics numbered 300 or above

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<table>
<thead>
<tr>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 1110 &amp; FREN 1120</td>
<td>French I and French II</td>
<td>8</td>
</tr>
<tr>
<td>GRMN 1110 &amp; GRMN 1120</td>
<td>German I and German II</td>
<td>8</td>
</tr>
<tr>
<td>JAPN 1110 &amp; JAPN 1120</td>
<td>Japanese I and Japanese II</td>
<td>8</td>
</tr>
<tr>
<td>SPAN 1110 &amp; SPAN 1120</td>
<td>Spanish I and Spanish II</td>
<td>8</td>
</tr>
</tbody>
</table>

For Heritage Speakers:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 1220</td>
<td>Spanish for Heritage Learners II</td>
<td>3</td>
</tr>
<tr>
<td>or SPAN 2210</td>
<td>Spanish for Heritage Learners III</td>
<td></td>
</tr>
<tr>
<td>PORT 1110</td>
<td>Portuguese I</td>
<td>3</td>
</tr>
<tr>
<td>or PORT 1120</td>
<td>Portuguese II</td>
<td></td>
</tr>
</tbody>
</table>

**Option 2:**

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<tr>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
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</table>
| Complete the following sequence for American Sign Language (with a C- or better):
  
  SIGN 1110 | American Sign Language I | 3 |
  
  SIGN 1120 | American Sign Language II | 3 |

**Option 3:**

<table>
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<tr>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Challenge the 1120 level for the following courses:
  
  CHIN 1120 | Mandarin Chinese II | 4 |
  
  or FREN 1120 | French II | |
  
  or GRMN 1120 | German II | |
  
  or JAPN 1120 | Japanese II | |
  
  or SPAN 1120 | Spanish II | |

OR

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Challenge the 1110/1120/1220/2210 level for the following courses:
  
  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 three 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 requirement.