### BS Physics in 4 Years 2016-2017

**Department of Physics & Astronomy**

Catalog Year: Fall 2016 - 2017  ♦  Catalog Expires: Summer 2027  ♦  Graduation: Spring 2020

<table>
<thead>
<tr>
<th>1st Year</th>
<th>2nd Year</th>
<th>3rd Year</th>
<th>4th Year</th>
<th>5th Year</th>
<th>6th Year</th>
<th>7th Semester</th>
<th>8th Semester</th>
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<tbody>
<tr>
<td><strong>First Semester</strong></td>
<td><strong>Second Semester</strong></td>
<td><strong>Third Semester</strong></td>
<td><strong>Fourth Semester</strong></td>
<td><strong>Fifth Semester</strong></td>
<td><strong>Sixth Semester</strong></td>
<td><strong>Seventh Semester</strong></td>
<td><strong>Eighth Semester</strong></td>
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<tr>
<td>ENG 101 English Composition I</td>
<td>ENG 102 Composition II</td>
<td>PHYS 180 Engineering Physics I</td>
<td>PHYS 181 Engineering Physics II</td>
<td>PHYS 411 Modern Physics I</td>
<td>PHYS 413 Intermediate Lab I</td>
<td>PHYS 414 Intermediate Lab II</td>
<td>PHYS 493 Special Problems (1-3 credits)</td>
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<tr>
<td>MATH 181 Calculus I*</td>
<td>MATH 182 Calculus II</td>
<td>PHYS 180L Engineering Physics I lab</td>
<td>PHYS 181 Engineering Physics II lab</td>
<td>PHYS 421 Electricity &amp; Magnetism I</td>
<td>PHYS 424 Electricity &amp; Magnetism II</td>
<td>PHYS 467 Thermodynamics</td>
<td>Science, Computer Science or Engineering course</td>
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<tr>
<td>CHEM 121/121L General Chemistry</td>
<td>CHEM122/122L General Chemistry II</td>
<td>MATH 283 Calculus III</td>
<td>PHYS 182 Engineering Physics III</td>
<td>PHYS 423 Mechanics I</td>
<td>PHYS 425 Mechanics II</td>
<td>PHYS 481 Quantum Mechanics I</td>
<td>PHYS 493 Special Problems (1-3 credits)</td>
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<tr>
<td>Choose Social Science Field 1***</td>
<td>HIST 100 or PSC 101 US NV Constitution</td>
<td>Choose Second Year Seminar</td>
<td>Choose Humanities Field 2**</td>
<td>Science, Computer Science or Engineering course</td>
<td>Science, Computer Science or Engineering course</td>
<td>Science, Computer Science or Engineering course</td>
<td>upper division course</td>
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<td>Science, Computer Science or Engineering course</td>
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<tr>
<td><strong>Total First Semester:</strong> 16</td>
<td><strong>Total Second Semester:</strong> 15</td>
<td><strong>Total Third Semester:</strong> 15</td>
<td><strong>Total Fourth Semester:</strong> 14</td>
<td><strong>Total Fifth Semester:</strong> 15</td>
<td><strong>Total Sixth Semester:</strong> 15</td>
<td><strong>Total Seventh Semester:</strong> 15</td>
<td><strong>Total Eighth Semester:</strong> 15</td>
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</table>

### Notes

- course has a prerequisite—see reverse side for course sequences or go to the UNLV online catalog at [http://catalog.unlv.edu/](http://catalog.unlv.edu/)

- A minimum of six (6) credits are required, to be composed of a three-credit multicultural course and a three-credit international course that may simultaneously fulfill other general education requirements. A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor!

- The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2016 - 2017 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

- A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in their last 30 UNLV resident credits.

- In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.
LOWER DIVISION PREREQUISITE COURSE SEQUENCES FOR BS PHYSICS & BS PHYSICS/APPLIED MAJORS

Lower Division Math Sequence

- MATH 126: Intermediate Algebra (3 credits) Grade ≥ C
- MATH 127: Precalculus I (3 credits) Grade ≥ C
- MATH 128: Precalculus and Trigonometry (5 credits) Grade ≥ C

Recommended for Math Majors only

Lower Division Physics Sequence

- PHYS 180L: Engineering Physics Lab (1 credit) Grade ≥ C
- PHYS 181L: Engineering Physics Lab (1 credit) Grade ≥ C
- PHYS 182L: Engineering Physics Lab (1 credit) Grade ≥ C

Lower Division Chemistry Sequence

- CHEM 103: Preparatory Chemistry (3 credits) Grade ≥ C
- CHEM 121A: General Chemistry I Lecture (4 credits) Grade ≥ C
- CHEM 121L: General Chemistry I Laboratory (1 credit) Grade ≥ C

Lower Division Engineering Physics Sequence

- MATH 181: MATH 181 Engineering Physics I (3 credits) Grade ≥ C
- MATH 182: MATH 182 Engineering Physics II (3 credits) Grade ≥ C
- MATH 182L: MATH 182 Engineering Physics Lab (1 credit) Grade ≥ C

Lower Division English Sequence

- ENG 101: English Composition I (3 credits) Grade ≥ C
- ENG 102: English Composition II (3 credits) Grade ≥ C

Read the UNLV Catalog for Upper Division Course Prerequisites http://catalog.unlv.edu/