Bachelor of Science in Physics, Option I: Physics  
2016 - 2018 Catalog

Core Curriculum Requirements* (27 hrs)  
___ UGS 302 or 303 First-Year Signature Course  
___ RHE 306 Rhetoric & Composition  
___ E 316P/N/M/L/K Literature  
___ American History 1  
___ American History 2  
___ American Government  
___ Government 2  
___ Social & Behavioral Science  
___ Visual & Performing Arts  
✔ Mathematics (fulfilled by M 408N/C)  
✔ Science Sequence, 6 hrs (fulfilled by major requirement)  
✔ Science, 3 additional hours (fulfilled by major requirement)  
✔ Writing flag (from course not fulfilling core curriculum)  
*Courses that fulfill above core curriculum requirements are designated in course schedule.

Foreign Language or Culture Requirement (minimum 6 hrs)  
___ 3-6 hrs foreign language or approved culture course  
___ 3-6 hrs foreign language or approved culture course

Course Flag Requirements  
✔ Upper division writing flag (WR)  
✔ Additional writing flag (WR) *1 WR flag must not overlap with core  
___ Independent Inquiry flag (II)  
✔ Quantitative Reasoning flag (QR) (fulfilled by M 408N/C)  
___ Cultural Diversity flag (CD)  
___ Global Cultures flag (GC)  
___ Ethics & Leadership flag (EL)  

Physics Requirements (40 hrs)  
___ PHY 301 & 101L Mechanics and lab  
___ PHY 316 & 116L Electricity & Magnetism and lab  
___ PHY 315 & 115L Wave, Motion, & Optics and Lab  
___ PHY 336K Classical Dynamics  
___ PHY 352K Classical Electrodynamics I  
___ PHY 353L Modern Physics Laboratory  
___ PHY 355 Modern Physics  
___ PHY 362K Quantum Physics II  
___ PHY 362L Quantum Physics III  
___ PHY 369 Thermodynamics & Statistical Mechanics  
___ PHY 373 Quantum Physics I  
___ PHY 474 Advanced Laboratory I

Additional Major Requirements (34 hrs)  
___ CH 301 Principles of Chemistry I  
___ CH 302 Principles of Chemistry II  
___ 6 hrs majors-level coursework chosen from BIO, GEO, or AST  
___ M 408C Differential & Integral Calculus  
___ M 408D Sequences, Series, & Multivariable Calculus  
___ M 427J Differential Equations with Linear Algebra  
___ M 427L Advanced Calculus for Applications II  
___ 6 additional hrs of upper-division mathematics (recommended: M 340L, 361, and 362K)

General Electives* (19 hrs+)  
___ 126 hours total *Physical activity courses (PED or KIN) and non-majors science courses will not count toward the required 120 hours. Only 6 hours of pass/fail coursework will count toward the required 120 hours.  
*May need fewer elective hours depending on courses selected for the foreign language/foreign culture requirement

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>Credit</th>
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<tbody>
<tr>
<td>Language, score of 3-5</td>
<td>RHE 306</td>
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<tr>
<td>Literature, 4-5</td>
<td>E 316P</td>
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<tr>
<td>US History, 3-5</td>
<td>HIS 315L (American History 2)</td>
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<tr>
<td>American Government, 3-5</td>
<td>GOV 310L (American Government)</td>
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<tr>
<td>Psychology, Human Geography or Macro/Microeconomics, 3-5</td>
<td>Social &amp; Behavioral Science</td>
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<tr>
<td>Music Theory or Art History, 3-5</td>
<td>Visual and Performing Arts</td>
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<tr>
<td>Computer Science A, 4-5</td>
<td>C S 312</td>
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<tr>
<td>Chemistry, 4-5</td>
<td>Chemistry 301 &amp; 302</td>
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<tr>
<td>Biology, 5</td>
<td>Biology 311C &amp; 311D</td>
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<tr>
<td>Physics C: Mechanics, 3-5</td>
<td>Physics 303K &amp; 103M or 301 &amp; 101L</td>
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<tr>
<td>Physics C: E &amp; M, 3-5</td>
<td>Physics 303L &amp; 103N or 316 &amp; 116L</td>
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<tr>
<td>Calculus, AB or BC</td>
<td>Varies</td>
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For planning purposes only; please consult your academic advisor for degree requirements and progress

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