Bachelor of Science in Physics, Option 4: Sample 4-Year Plan (2018-2020)  
Space Sciences

<table>
<thead>
<tr>
<th>Year One - Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 408C (QR flag)</td>
<td>M 408D</td>
</tr>
<tr>
<td>Majors Level AST, BIO, GEO</td>
<td>PHY 301 &amp; PHY 101L</td>
</tr>
<tr>
<td>UGS 302 or UGS 303</td>
<td>Majors Level AST, BIO, GEO</td>
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<tr>
<td>RHE 306 or Visual &amp; Performing Arts</td>
<td>RHE 306 or Visual &amp; Performing Arts</td>
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<tr>
<td>Social and Behavioral Sciences</td>
<td>GOV 310L</td>
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<table>
<thead>
<tr>
<th>Year Two - Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>M 427J</td>
<td>M 427L</td>
</tr>
<tr>
<td>PHY 316 &amp; PHY 116L</td>
<td>PHY 315 &amp; PHY 115L</td>
</tr>
<tr>
<td>CH 301</td>
<td>PHY 355</td>
</tr>
<tr>
<td>GOV 312L</td>
<td>CH 302</td>
</tr>
<tr>
<td>Elective</td>
<td>E 316L, M, N, or P</td>
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<table>
<thead>
<tr>
<th>Year Three - Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>Upper Division Mathematics</td>
<td>Upper Division Mathematics</td>
</tr>
<tr>
<td>PHY 336K</td>
<td>PHY 352K</td>
</tr>
<tr>
<td>PHY 353L (Writing flag)</td>
<td>PHY 373</td>
</tr>
<tr>
<td>ASE 3UDV</td>
<td>ASE 3UDV</td>
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<tr>
<td>U. S. History</td>
<td>US History</td>
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<thead>
<tr>
<th>Year Four - Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>PHY 369</td>
<td>PHY 362K</td>
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<tr>
<td>PHY 329</td>
<td>ASE 3UDV</td>
</tr>
<tr>
<td>ASE 3UDV</td>
<td>ASE 3UDV</td>
</tr>
<tr>
<td>Foreign Language or Culture</td>
<td>Foreign Language or Culture</td>
</tr>
<tr>
<td>Elective</td>
<td>Elective</td>
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</table>

126 total hours required for this degree

Courses that fulfill core requirements are designated in the course schedule

Flag Requirements:

- Course flags are required for graduation and may overlap with other required courses
- One of the 2 writing flags must be upper-division; only one writing flag may overlap with the core
- Course flags are designated in the Course Schedule
- Only courses taken at UT carry flags
- Ideas for fulfilling flag requirements can be found on the second page of this 4-year plan

Degree Planning Resources:

- Interactive Degree Audit: [http://registrar.utexas.edu/students/degrees/ida](http://registrar.utexas.edu/students/degrees/ida)
- Official Degree Plans: [https://cns.utexas.edu/degree-checklists](https://cns.utexas.edu/degree-checklists)
- Credit by Exam: [http://learningsciences.utexas.edu/studenttesting/](http://learningsciences.utexas.edu/studenttesting/)
- Core Curriculum: [http://ugs.utexas.edu/core/requirements](http://ugs.utexas.edu/core/requirements)
- Foreign Culture: [https://cns.utexas.edu/students/degrees-majors-advising/university-core-curriculum/foreign-culture-requirement](https://cns.utexas.edu/students/degrees-majors-advising/university-core-curriculum/foreign-culture-requirement)

Mathematics, Physics, & Astronomy  
Advising Center  
RLM 4.101, 512.471.0900  
[https://cns.utexas.edu/mpa-advising](https://cns.utexas.edu/mpa-advising)
Statements below give suggestions about how/where to get your University Flags within the requirements for your degree. A course can carry up to three flags, fulfilling multiple flag requirements. **However, the same course cannot be used to satisfy the GC and CD Flags even if the course carries both flags.** Flag courses must be taken for a grade.

**Writing (WR):** *(2 total Writing Flags are required - one must be upper division)* PHY 353L has a WR flag and is required for the Bachelor of Science in Physics, Option 4. Students can also get a WR flag from Core courses, courses for a minor or certificate they are pursuing, some foreign culture courses, or general electives.

**Quantitative Reasoning (QR):** See chart above for math and science courses that carry this flag.

**Independent Inquiry (II):** Students may get this flag from a Physics course that is not required (see "Optional Courses") or a general elective.

**Cultural Diversity in the US (CD):** Students can get this flag from a Core course (HIS, VAPA, etc.), a course for a minor or certificate they are pursuing, or a general elective.

**Global Cultures (GC):** Courses that may carry this flag include Core courses, courses for a minor or certificate, some foreign culture courses, or general electives.

**Ethics (E):** Students can get this flag from a Core course (example: certain sections of GOV 312L), a course for a minor or certificate, or a general elective.

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<table>
<thead>
<tr>
<th>Physics Courses</th>
<th>Course Title</th>
<th>WR</th>
<th>CD</th>
<th>E</th>
<th>GC</th>
<th>II</th>
<th>QR</th>
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<tbody>
<tr>
<td>PHY 301</td>
<td>Mechanics</td>
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<tr>
<td>PHY 316</td>
<td>Electricity &amp; Magnetism</td>
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<tr>
<td>PHY 315</td>
<td>Wave Motion &amp; Optics</td>
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<td></td>
<td></td>
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<td>X</td>
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<tr>
<td>PHY 353L</td>
<td>Modern Physics Laboratory</td>
<td>X</td>
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<tr>
<th>Other Required Courses</th>
<th>CH 301</th>
<th>Principles of Chemistry I</th>
<th></th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>CH 302</td>
<td>Principles of Chemistry II</td>
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<tr>
<td></td>
<td>M 408C</td>
<td>Differential &amp; Integral Calculus</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td></td>
<td>M 427J</td>
<td>Differential Equations w/ Linear Algebra</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
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| Optional Courses      | PHY 670TB | Senior Thesis | X  |    |    | X  |
|                       | PHY 371C | Individual Study in Physics |    |    |    | X  |
|                       | PHY 379H | Honors Tutorial Course | X  |    |    | X  |

X - will contain specified flag
* - may contain flag for specific instructor - check Course Schedule to verify for a given semester

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***How Can I Complete Flags Within Courses Required By My Degree?***