## Degree Requirements Checklist

This option is designed to provide the necessary foundation for the student who plans a career or further study in space sciences. This checklist below provides a summary of the requirements for the degree and major indicated above. For complete information, you should consult the Undergraduate Catalog 2006-2008 or 2008-2010. If you have any questions, please speak with an academic advisor at RLM 4.101.

### Prescribed Work: These courses must be taken on a letter-grade basis.

1. **English:**
   - RHE 306
   - E 316K

2. **Substantial Writing Component:**
   - One upper-division course*
   - One additional course
   *This requirement can be fulfilled by completion of PHY 329 and 453.
   These two courses may satisfy other degree requirements. They can be any number of semester hours. Consult the Course Schedule for a complete listing of writing component courses for a particular semester.

3. **Foreign Language:**
   - Choose from one the following options:
     - Second semester proficiency in a single foreign language at the college level:
       - 506 and 507 (or equivalent) or
       - 506 and a foreign culture course from the same culture area, or
     - Two foreign culture courses from approved list

4. **Government:**
   - 6 semester hours of American Government
   - GOV 310L
   - GOV 312L
   *See your Academic Advisor for transfer combinations that may be acceptable

5. **U.S. History:**
   - 6 semester hours of American History
     - 3 hours of Texas History may be used toward one of the U.S. History requirements

6. **Anthropology**
   - Economics
   - Geography
   - Linguistics
   - Psychology
   - Sociology

### Prescribed Work for Option IV: All major requirements must be taken on a letter-grade basis. A grade of at least C- and a grade point average of 2.0 is required in the mathematics and science courses listed below.

- CH 301
- CH 301
- 6 semester hours in Biology, Geology or Astronomy (AST 307 ok)

Note: A course may not be used to fulfill this requirement if it cannot be counted toward major requirements in the department that offers it.

- PHY 301, PHY 101L
- PHY 316, PHY 116L
- PHY 315, PHY 115L
- PHY 319

Only courses at the level of calculus or above may be counted toward the total number of hours required for the degree.

- M 408C
- M 408D
- M 427K
- M 427L

Nine additional semester hours of upper division coursework in Mathematics. The following courses are recommended:

- M 340L
- M 361
- M 362K

### Upper-Division Physics:

- 21 semester hours of upper-division physics courses consisting of:
  - PHY 329 Introduction to Computational Physics
  - PHY 336K Classical Dynamics I
  - PHY 352K Classical Electrodynamics I
  - PHY 353L Modern Physics Laboratory-W
  - PHY 369 Thermodynamics and Statistical Mechanics
  - PHY 373 Quantum Mechanics I: Foundations
  - PHY 362K Quantum Mechanics II: Atoms and Molecules
**ADDITIONAL OPTION REQUIREMENTS:**

- 15 semester hours of upper division coursework in Aerospace Engineering:
  
  ![ ] ![ ] ![ ] ![ ] ![ ]

- OR-
  
  - 13 semester hours in Aerospace Engineering and 3 additional hours of upper division coursework in Physics:
    
    ![ ] ![ ] ![ ] ![ ] ![ ]

**SAMPLE COURSE PLAN**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>NOTES</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 2</strong></td>
</tr>
<tr>
<td>M 408C</td>
<td>M 408D</td>
</tr>
<tr>
<td>PHY 110C or 1 hr elv</td>
<td>PHY 301/PHY 101L</td>
</tr>
<tr>
<td>CH 301</td>
<td>PHY 110C or 1 hr elv</td>
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<tr>
<td>RHE 306</td>
<td>CH 302</td>
</tr>
<tr>
<td>Social science requirement (3 hrs)</td>
<td>General Culture (3hrs)</td>
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<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 2</strong></td>
<td><strong>Summer</strong></td>
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<tr>
<td>M 427K</td>
<td>M 427L</td>
<td></td>
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<tr>
<td>M340L</td>
<td>PHY 315/PHY 115L</td>
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<tr>
<td>PHY 316/PHY 116L</td>
<td>PHY 110C or 1 hr elv</td>
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</tr>
<tr>
<td>PHY 110C or 1 hr elv</td>
<td>Social science requirement (HIS/GOV)</td>
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</tr>
<tr>
<td>E 316K</td>
<td>Social science requirement (HIS/GOV)</td>
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<th>JUNIOR YEAR</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
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<tr>
<td>PHY 319</td>
<td>PHY 352K</td>
</tr>
<tr>
<td>PHY 336K</td>
<td>PHY 373</td>
</tr>
<tr>
<td>PHY 353L1</td>
<td>M 361</td>
</tr>
<tr>
<td>M 362K</td>
<td>3 hrs upper division A E</td>
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<tr>
<td>3 hrs upper division A E</td>
<td>3 hrs major level AST, BIO or GEO</td>
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<tr>
<th>SENIOR YEAR</th>
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<tbody>
<tr>
<td><strong>Semester 1</strong></td>
<td><strong>Semester 2</strong></td>
</tr>
<tr>
<td>PHY 362K</td>
<td>PHY 369</td>
</tr>
<tr>
<td>PHY 3294</td>
<td>3 hrs upper division A E</td>
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<tr>
<td>3 hrs upper division A E</td>
<td>Foreign culture requirement (3 hrs)</td>
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<tr>
<td>3 hrs upper division A E</td>
<td>Elective (4 hrs)</td>
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<tr>
<td>Foreign culture requirement (3 hrs)</td>
<td>Social science requirement (HIS)</td>
</tr>
</tbody>
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**ELECTIVES**

- Electives are necessary to complete the **126-semester-hour requirement** for the B. S. in Physics.
- Once 30 hours of college credit is earned, up to 16 semester hours of electives may be taken pass/fail.
- Only two courses per semester may be taken pass/fail.

**GENERAL DEGREE REQUIREMENTS:** You must satisfy all of the following conditions in order to graduate.

- Minimum cumulative UT GPA of 2.0
- 60 semester hours must be completed in residence (in the classroom at UT).
- 24 of the last 30 semester hours counted toward the degree must be in residence.
- 18 upper-division semester hours must be completed in residence.
- 12 semester hours of upper-division coursework in the major must be completed in residence.
- 36 semester hours of the coursework must be upper-division.

The following courses will not count toward this degree: M301, KIN 119 or PED one-hour activity courses. No more than 12 semester hours of Bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.

Link to Interactive Degree Audit
http://www.utexas.edu/student/registrar/ida