# Physics and Astronomy B.A.

## Degree Requirements: 124 Credit Hours

*See Core Curriculum for required courses in Area A1 through Area E.*

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>General Requirements (Core A - E)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>Area A2 -- Must take MATH 1112, MATH 1113, or MATH 1441</td>
</tr>
<tr>
<td>42</td>
<td>Area DII -- Must take MATH 1441 if not taken in Area A2 above</td>
</tr>
</tbody>
</table>

**Additional Requirements**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Area F - Courses Appropriate to Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

### Area F Courses Appropriate to Major

- ASTR 1010  Astronomy of the Solar System
- ASTR 1020  Stellar and Galactic Astronomy
- MATH 2242  Calculus II
- PHYS 2211K Principles of Physics I
- PHYS 2212K Principles of Physics II

**Major Requirements**

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Major Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>PHYS 3536  Modern Physics I</td>
</tr>
<tr>
<td>60</td>
<td>PHYS 3537  Modern Physics II</td>
</tr>
<tr>
<td>60</td>
<td>PHYS 4421  Advanced Physics Lab I</td>
</tr>
</tbody>
</table>

Select one of the following Teaching Internship Courses:

- ASTR 3790  Teaching Internship in Astronomy
- PHYS 3790  Teaching Internship in Physics

Students must complete 12 credit hours of Advisor approved upper level Astronomy or Physics courses.

**Foreign Language (2002 Level)**

Completion through 2002-level Foreign Language

**Minor**

- Select 15 credit hours of Minor

**Electives**

- Select 15-24 credit hours of Electives

Students interested in seeking Teacher Certification through the Masters of Arts in Teaching program should take introductory courses from the College of Education aimed to explore careers in teaching including:

- EDUC 2090  PPB Practicum
- EDUC 2110  Investigating Critical and Contemporary Issues in Education
- EDUC 2120  Exploring Socio-Cultural Perspectives on Diversity in Educational Contexts
- EDUC 2130  Exploring Learning and Teaching

**Total Credit Hours**

124

---

1. While Calculus I (MATH 1441) is 4 credit hours, only 3 credit hours will count toward fulfilling Area A2. The remaining credit hour will be applied toward Electives.
2. *Students must complete* Calculus I (MATH 1441) *and Calculus II (MATH 2242)*
3. May be satisfied by a secondary school background showing four (4) years or more of preparation in a single language
4. Students must complete at least 39 credit hours of upper division course work overall.