### Bachelor of Arts in Astrophysics

#### A Suggested Sequence of Required Courses for a Blinn transfer student (2014-2015 Catalog)

<table>
<thead>
<tr>
<th>Freshman Year</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
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<tr>
<td>Blinn BU Title Hours</td>
<td>Blinn BU BU Title Hours</td>
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<tr>
<td>ENGL 1301 Thinking and Writing 3</td>
<td>REL 1350 Christian Heritage 3</td>
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<tr>
<td>MATH 2413 Calculus 3</td>
<td>CHE 1411 CHE 1301 Basic Principles of Mod Chemistry 3</td>
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<tr>
<td>See reverse Foreign Language 4</td>
<td>See reverse Foreign Language 4</td>
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<tr>
<td>REL 1310 Christian Scriptures 3</td>
<td>MATH 2414 MTH 1322 Calculus II 3</td>
</tr>
<tr>
<td>PHY 1420 General Physics I 4</td>
<td>PHY 1430 General Physics II 4</td>
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<tr>
<th>Sophomore Year</th>
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<td>Fall</td>
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<tr>
<td>Blinn BU Title Hours</td>
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<tr>
<td>CHA 1088 Chapel 0</td>
<td>CHA 1088 Chapel 0</td>
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<tr>
<td>MATH 2311 Linear Algebra 3</td>
<td>ENGL 2322 ENGL 2301 British Literature 3</td>
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<tr>
<td>MATH 2321 Calculus III 3</td>
<td>CSI 1430 Intro to Computer Science w/Lab 4</td>
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<tr>
<td>See reverse Foreign Language 3</td>
<td>See reverse Foreign Language 3</td>
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<tr>
<td>PHY 2350 Modern Physics 3</td>
<td>MTH 3325 Ordinary Differential Equations 3</td>
</tr>
<tr>
<td>PHY 2455 Foundations of Astronomy 4</td>
<td>PHY 2360 Math and Computational Physics 3</td>
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<th>Junior Year</th>
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<td>Fall</td>
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<tr>
<td>Blinn BU Title Hours</td>
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<tr>
<td>See reverse ENGL 2304 or ENGL 2306 American or World Literature 3</td>
<td>Eng 3300 Professional and Technical Writing 3</td>
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<tr>
<td>See reverse Fine Arts 3</td>
<td>See reverse Fine Arts 3</td>
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<tr>
<td>See reverse Lifetime Fitness 1</td>
<td>See reverse Social Science 3</td>
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<tr>
<td>MTH 3326 Partial Differential Equations 3</td>
<td>See reverse Lifetime Fitness 1</td>
</tr>
<tr>
<td>PHY 3320 Intermediate Classical Mechanics 3</td>
<td>PHY 3330 Inter Electricity &amp; Magnetism 3</td>
</tr>
<tr>
<td>PHY 3372 Intro to Quantum Mechanics I 3</td>
<td>PHY 3350 Topics in Astronomy 3</td>
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<thead>
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<th>Senior Year</th>
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<td>Blinn BU Title Hours</td>
<td>Blinn BU BU Title Hours</td>
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<tr>
<td>PHY 4350 Intro to Stellar Structures 3</td>
<td>PHY 4351 Intro to Modern Cosmology 3</td>
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<tr>
<td>PHY 4001 Exit Exam 0</td>
<td>See reverse Fine Arts 3</td>
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<tr>
<td>See reverse Social Science 3</td>
<td>See reverse Social Science 3</td>
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<td>See reverse History 3</td>
<td>See reverse History 3</td>
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<tr>
<td>See reverse PSC 2302 American Constitutional Development 3</td>
<td>See reverse Lab Science - Area 1 4</td>
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<tr>
<td>See reverse Lifetime Fitness 1</td>
<td>See reverse Lifetime Fitness 1</td>
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<tr>
<td>Advanced Elective 3</td>
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### Notes about major requirements:

- **MTH/Science requirement**: Complete 9 hours from: BIO, CHE, CSI, GEO, MTH or STA. Some of these hours (at least 2 courses) may need to be advanced level courses to fulfill the 3000-4000 level course requirement.
- **English requirement**: It is recommended that science majors take ENG 3300 during their junior year rather than ENG 1304.
- **Prior to taking PHY 4190, students are expected to make substantial progress on a research project. Research typically begins when PHY 2190 is taken in the sophomore year. Students involved in research during their junior year should enroll in PHY 3V95 (Undergraduate Research). In addition, students are strongly encouraged to participate in summer research opportunities.**
- **Many required courses are offered only one time each year in either the fall semester or the spring semester.**
- **For more information, see the undergraduate catalog.**

Please see reverse side for important information on general requirements.
### BACHELOR OF ARTS (BA) DEGREE CHECKLIST

(2014-2015 BAYLOR UNDERGRADUATE CATALOG)

**ENGLISH:**
- ENGL 1301: Thinking and Writing
- ENGL 1304: Thinking, Writing & Research
- ENGL 2301: British Literature
- ENGL 2304: American Literature
- ENGL 2306: World Literature

**FINE ARTS:** Three courses, each from different areas (i.e., ART, THEA, MUS, etc.):
- ART 1300: Introduction to Art
- ART 2302: History of Art I
- ART 2303: History of Art II
- CLA 3380: Classical Mythology
- FCS 3313: Historical Design I
- FCS 4313: Historical Design II
- FAS 1306: Introduction to Mass Communication
- MUSI 1306: Introduction to Music
- MUS 3322: American Popular Music
- MUS 3323: History of Jazz
- SPCH 1311 or 1315: Fundamentals of Public Communications
- SPCH 1321: Speech for Business & Professional Students
- DRAM 1310: Theatre Appreciation
- THEA 2374: History of Theatre I

**HISTORY:**
- HIST 2321: World History to 1500
- HIST 2322: World History since 1877
- HIST 2305: History of the U.S. to 1877
- HIST 1301: History of the U.S. to 1877

**SOCIAL SCIENCES:** Three courses, each from different areas (i.e., ANT, SOC, MUS, etc.):
- ANTH 2346: Introduction to Anthropology
- ANT 3301: Science, Society, and Culture
- ECO 2305: Survey of Econ Princ. For Non-bus. Majors
- ECO 2306: Principles of Microeconomics
- ECO 2307: Principles of Macroeconomics
- FAS 1303: World Geography
- FAS 1305: World Geography
- GEOG 1303: World Geography
- HNR 3100: World History
- HNR 3101: World History
- HNR 3200: World History
- HNR 3204: World History
- PHIL 2303: Logic
- PHIL 1306: Logic
- PHIL 1307: Critical Thinking
- PHIL 2306: Introduction to Ethics
- PHIL 1301: Introduction to Philosophy
- PHIL 3301: Moral Philosophy
- PHIL 3312: History of Philosophy: Classical
- PHIL 3322: History of Philosophy: Modern Europe
- PSC 2305: American National Government
- PSC 2306: American State & Local Government
- PSYC 2301: Introduction to Psychology
- PSYC 1305: Introduction to Sociology
- GOVT 2305 AND 2306: American Constitutional Development

Note: Both GOVT 2305 and 2306 must be complete before coming to Baylor to receive credit for PSC 2302. This course may not be transferred from another school after the student has earned hours at Baylor. This substitution is not available for Political Science majors.

**LAB SCIENCE:** One course from each area:
- BIOL 1408: Current Issues in Human Biology
- BIOL 1403: Exploring the Living World
- BIOL 1406: Modern Concepts of Bioscience
- BIOL 1407: Modern Concepts of Bioscience, Continued
- GEO 1401*: Earthquakes & other Natural Disasters
- GEO 1402: World Oceans
- GEO 1403*: Environmental Geology
- GEO 1404: Earth Through Time
- GEO 1408: Earth Science
- NSC 1306-1106: Introduction to Neuroscience

* Credit allowed for only one of these courses.

**FOREIGN LANGUAGE:** To be fulfilled with one of the following options:
A. Complete ONE Modern or Classical language through the 2320 level
B. Complete TWO Classical languages through the 1302 or 1402 level.

Two languages from Latin, Greek, and Hebrew may be used. (It is strongly recommended that the language requirement be started during the first year of residence work. Chemistry, Biochemistry, and Mathematics majors are required to take a modern foreign language.)

**MATH:**
- MATH 1332: Ideas in Mathematics
- MATH 2413: Calculus I
- MATH 1342: Elementary Statistics

**PHYS:**
- PHYS 1404: Light, Vision and Optics
- PHYS 1405: General Physics for BA Students
- PHYS 1407: Sound and Acoustics
- PHYS 1410: General Physics I
- PHYS 1411: Descriptive Astronomy

**CLASSICAL LANGUAGES:**
- Classical Languages:
  - Arabic (ARB)
  - Portuguese (POR)
  - Latin (LAT)
  - Chinese (CHI)
  - Russian (RUS)
  - Greek (GK)
  - Italian (ITA)
  - Spanish (SPA)
  - Hebrew (HEB)
  - Japanese (JPN)
  - Swahili (SWA)

**MODERN LANGUAGES:**
- Modern Languages:
  - Arabic (AR)
  - Portuguese (PO)
  - Latin (LA)

**LIFETIME FITNESS:** Four activity courses are required

Taught at Baylor; no equivalent course at Blinn

**A.** Complete ONE Modern or Classical language through the 2320 level

**B.** Complete TWO Classical languages through the 1302 or 1402 level.

Note: Both GOVT 2305 and 2306 must be complete before coming to Baylor to receive credit for PSC 2302. This course may not be transferred from another school after the student has earned hours at Baylor. This substitution is not available for Political Science majors.