# Baylor Bound Major Academic Planner
## Bachelor of Science in Physics

A Suggested Sequence of Required Courses for a Midland Community College transfer student (2015-2016 Catalog)

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>MIDLAND BU</td>
<td>Title</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Thinking and Writing</td>
</tr>
<tr>
<td>MATH 2413</td>
<td>Calculus</td>
</tr>
<tr>
<td>See reverse</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>REL 1310</td>
<td>Christian Scriptures</td>
</tr>
<tr>
<td>PHY 1420</td>
<td>General Physics I</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>MIDLAND BU</td>
<td>Title</td>
</tr>
<tr>
<td>CHA 1088</td>
<td>Chapel</td>
</tr>
<tr>
<td>See reverse</td>
<td>Foreign Language</td>
</tr>
<tr>
<td>See reverse</td>
<td>History/Social Science</td>
</tr>
<tr>
<td>MTH 2311</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MTH 2321</td>
<td>Calculus III</td>
</tr>
<tr>
<td>PHY 2135</td>
<td>Basic Electronics Lab</td>
</tr>
<tr>
<td>PHY 2350</td>
<td>Modern Physics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>MIDLAND BU</td>
<td>Title</td>
</tr>
<tr>
<td>See reverse</td>
<td>ENG 2304 or ENG 2306</td>
</tr>
<tr>
<td>See reverse</td>
<td>Lifetime Fitness</td>
</tr>
<tr>
<td>MTH 3326</td>
<td>Partial Differential Equations</td>
</tr>
<tr>
<td>PHY 3175</td>
<td>Intermediate Physics Lab I</td>
</tr>
<tr>
<td>PHY 3320</td>
<td>Intermediate Classical Mechanics</td>
</tr>
<tr>
<td>PHY 3372</td>
<td>Intro to Quantum Mechanics I</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>MIDLAND BU</td>
<td>Title</td>
</tr>
<tr>
<td>PHY 4190</td>
<td>Dissemination of Research Results</td>
</tr>
<tr>
<td>PHY 4340</td>
<td>Statistical &amp; Thermal Physics</td>
</tr>
<tr>
<td>PHY 4372, 4373, or 4374</td>
<td>Intro to Solid State Physics, Intro to Nuclear &amp; Particle Physics, or Intro to Relativistic Quantum Mechanics</td>
</tr>
<tr>
<td>PHY 4001</td>
<td>Exit Exam</td>
</tr>
<tr>
<td>See reverse</td>
<td>Math/Science</td>
</tr>
<tr>
<td>See reverse</td>
<td>American Constitutional Development</td>
</tr>
<tr>
<td>See reverse</td>
<td>Lifetime Fitness</td>
</tr>
</tbody>
</table>

Notes about major requirements:

- **MTH/Science requirement** - Complete 9 hours from: BIO, CHE, CSI, GEO, MTH or STA. Some of these hours 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 Baylor Undergraduate Catalog.

Please see reverse side for important information on general requirements.
<table>
<thead>
<tr>
<th>MIDLAND COURSE</th>
<th>BAYLOR COURSE</th>
<th>BAYLOR TITLE</th>
<th>MIDLAND COURSE</th>
<th>BAYLOR COURSE</th>
<th>BAYLOR TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>ENG 1302</td>
<td>Thinking and Writing</td>
<td>ENGL 1304</td>
<td>ENG 1304</td>
<td>Thinking, Writing &amp; Research</td>
</tr>
<tr>
<td>ENGL 2322</td>
<td>ENG 2301</td>
<td>British Literature</td>
<td>ENGL 2326</td>
<td>ENG 2304</td>
<td>American Literature</td>
</tr>
<tr>
<td>ENGL 2332 OR 2333</td>
<td>ENG 2306</td>
<td>World Literature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCIENCE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 1406</td>
<td>BIO 1305-1105</td>
<td>Modern Concepts of Bioscience</td>
<td>BIOL 1407</td>
<td>BIO 1306-1106</td>
<td>Modern Concepts of Bioscience, Continued</td>
</tr>
<tr>
<td>GEOL 1403</td>
<td>GEO 1405</td>
<td>The Dynamic Earth</td>
<td>GEOL 1404</td>
<td>GEO 1406</td>
<td>Earth Through Time</td>
</tr>
<tr>
<td>NSC 1306-1106</td>
<td></td>
<td>Introduction to Neuroscience</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 1411</td>
<td>CHE 1301-1101</td>
<td>Basic Principles of Chemistry I</td>
<td>CHEM 1412</td>
<td>CHE 1302-1102</td>
<td>Basic Principles of Chemistry II</td>
</tr>
<tr>
<td>GEOL 1405</td>
<td>ENV 1301-1101</td>
<td>Exploring Environment at Issues and lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENV 1303-1103</td>
<td></td>
<td>Wildlife Ecology and lab</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HISTORY/SOCIAL SCIENCE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANT 1305</td>
<td></td>
<td>Introduction to Anthropology</td>
<td>ANT 3301</td>
<td></td>
<td>Science, Society, and Culture</td>
</tr>
<tr>
<td>GEOG 1303</td>
<td>GEOG 1300</td>
<td>World Geography</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIS 2321</td>
<td>HIS 1305</td>
<td>World History to 1500</td>
<td>HIS 2322</td>
<td>HIS 1307</td>
<td>World History since 1500</td>
</tr>
<tr>
<td>HIST 1301</td>
<td>HIS 2365</td>
<td>History of the U.S. to 1877</td>
<td>HIST 1302</td>
<td>HIS 2366</td>
<td>History of the U.S. since 1877</td>
</tr>
<tr>
<td>PHIL 2303</td>
<td>PHI 1306</td>
<td>Logic</td>
<td>PHI 1307</td>
<td></td>
<td>Critical Thinking</td>
</tr>
<tr>
<td>PHI 1301</td>
<td>PHI 1321</td>
<td>Introduction to Philosophy</td>
<td>PHI 1302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHI 3310</td>
<td>History of Philosophy: Classical</td>
<td></td>
<td>PHI 3312</td>
<td>History of Philosophy: Modern Europe</td>
<td></td>
</tr>
<tr>
<td>GOVT 2302 OR 2305</td>
<td>PSC 1305</td>
<td>American National Government</td>
<td>GOVT 2301 OR 2306</td>
<td>PSC 1306</td>
<td>American State &amp; Local Government</td>
</tr>
<tr>
<td>PSYC 2301</td>
<td>PSY 1305</td>
<td>Introductory Psychology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCI 1301</td>
<td>SOC 1305</td>
<td>Introduction to Sociology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GOVT 2305 AND 2306</td>
<td>PSC 2302</td>
<td>American Constitutional Development</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIFETIME FITNESS: Four activity courses are required</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>