

BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Astronomy

A Suggested Sequence of Required Courses for a South Texas transfer student (2017-2018 Catalog)

| Freshman Year | | | | | | | |
|-------------------|----------------------|-----------------------------------|-------|-------------|-----------|-------------------------------------|-------|
| Fall | | | | Spring | | | |
| SOUTH TEXAS | BU | Title | Hours | SOUTH TEXAS | BU | Title | Hours |
| | CHA 1088 | Chapel | 0 | | CHA 1088 | Chapel | 0 |
| | REL 1310 | Christian Scriptures | 3 | | REL 1350 | Christian Heritage | 3 |
| See Reverse | | Foreign Language | 4 | CHEM 1411 | CHE 1301 | Basic Principles of Mod Chemistry | 3 |
| ENGL 1301 | ENG 1302 | Thinking and Writing | 3 | See Reverse | | Foreign Language | 4 |
| MATH 2413 | MTH 1321 | Calculus I | 3 | MATH 2414 | MTH 1322 | Calculus II | 3 |
| PHYS 2425 | PHY 1420 | General Physics I | 4 | | PHY 1430 | General Physics II | 4 |
| | | | 17 | | | | 17 |
| Sophomore Year | | | | | | | |
| Fall | | | | Spring | | | |
| SOUTH TEXAS | BU | Title | Hours | SOUTH TEXAS | BU | Title | Hours |
| See Reverse | | Foreign Language | 3 | See Reverse | | Foreign Language | 3 |
| | MTH 2311 | Linear Algebra | 3 | ENGL 2321 | ENG 2301 | British Literature | 4 |
| MATH 2315 | MTH 2321 | Calculus III | 3 | | CSI 1430 | Intro to Computer Science with Lab | 3 |
| | PHY 2350 | Modern Physics | 3 | | MTH 3325 | Ordinary Differential Equations | 3 |
| | PHY 2455 | Foundations of Astronomy | 4 | | PHY 2190 | Introduction to Research | 1 |
| | | | 16 | | PHY 2360 | Math and Computational Physics | 3 |
| | | | 16 | | | | 17 |
| Junior Year | | | | | | | |
| Fall | | | | Spring | | | |
| SOUTH TEXAS | BU | Title | Hours | SOUTH TEXAS | BU | Title | Hours |
| ENGL 2326 or 2331 | ENG 2304 or ENG 2306 | American or World Literature | 3 | | ENG 3300 | Professional and Technical Writing | 3 |
| See Reverse | | History/Social Science | 3 | See Reverse | | History/Social Science | 3 |
| See Reverse | | Lifetime Fitness | 1 | See Reverse | PSC 2302 | American Constitutional Development | 3 |
| | MTH 3326 | Partial Differential Equations | 3 | See Reverse | | Lifetime Fitness | 1 |
| | PHY 3320 | Intermediate Classical Mechanics | 3 | | See Below | Math/Science | 3 |
| | PHY 3455 | Observational Astronomy | 4 | | PHY 3350 | Topics in Astronomy | 3 |
| | | | 17 | | | | 16 |
| | | | 17 | | | | 16 |
| Senior Year | | | | | | | |
| Fall | | | | Spring | | | |
| SOUTH TEXAS | BU | Title | Hours | SOUTH TEXAS | BU | Title | Hours |
| | PHY 4190 | Dissemination of Research Results | 1 | | PHY 4351 | Intro to Modern Cosmology | 3 |
| | PHY 4350 | Intro to Stellar Structures | 3 | | | Upper Level Physics Course | 3 |
| | PHY 4150 | Instructional Observing | 1 | | See Below | Math/Science | 3 |
| | PHY 4001 | Exit Exam | 0 | See Reverse | | Lifetime Fitness | 1 |
| | | Upper Level Physics Course | 3 | | | Advanced Elective | 3 |
| | See Below | Math/Science | 3 | | | | |
| See Reverse | | Lifetime Fitness | 1 | | | | |
| | | Elective | 3 | | | | |
| | | | 15 | | | | 13 |

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.

BACHELOR OF SCIENCE (BS) DEGREE CHECKLIST
(2017-2018 BAYLOR UNDERGRADUATE CATALOG)

| SOUTH TEXAS COURSE | BAYLOR COURSE | BAYLOR TITLE |
|--------------------|---------------|------------------------------|
| ENGLISH: | | |
| ENGL 1301 | ENG 1302 | Thinking and Writing |
| ENGL 1302 | ENG 1304 | Thinking, Writing & Research |
| ENGL 2321 | ENG 2301 | British Literature |
| ENGL 2326 | ENG 2304 | American Literature |
| ENGL 2331 | ENG 2306 | World Literature |

| HISTORY/SOCIAL SCIENCE: | | |
|--------------------------------|-----------|---|
| ANTH 2346 | ANT 1305 | Introduction to Anthropology |
| | ANT 3301 | Science, Society, and Culture |
| | ECO 1305 | Survey of Eco. Princ. For Non-bus. Majors |
| ECON 2302 | ECO 2306 | Principles of Microeconomics |
| | ECO 2307 | Principles of Macroeconomics |
| | GEOG 1300 | World Geography |
| HIST 2321 | HIS 1305 | World History to 1500 |
| HIST 2322 | HIS 1307 | World History since 1500 |
| HIST 1301 | HIS 2365 | History of the U.S. to 1877 |
| HIST 1302 | HIS 2366 | History of the U.S. since 1877 |
| PHIL 2303 | PHI 1306 | Logic |
| | PHI 1307 | Critical Thinking |
| PHIL 2306 | PHI 1308 | Introduction to Ethics |
| PHIL 2307 | PHI 1321 | Introduction to Philosophy |
| | PHI 3301 | Moral Philosophy |
| | PHI 3310 | History of Philosophy: Classical |
| | PHI 3312 | History of Philosophy: Modern Europe |
| GOVT 2302 or 2305 | PSC 1305 | American National Government |
| GOVT 2301 or 2306 | PSC 1306 | American State & Local Government |
| PSYC 2301 | PSY 1305 | Introductory Psychology |
| SOCI 1301 | SOC 1305 | Introduction to Sociology |

| POLITICAL SCIENCE: | | |
|---|----------|-------------------------------------|
| GOVT 2305 AND 2306 | PSC 2302 | 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.) | | |

LIFETIME FITNESS: Four activity courses are required

| SOUTH TEXAS COURSE | BAYLOR COURSE | BAYLOR TITLE |
|--------------------|---------------|---|
| SCIENCE: | | |
| BIOL 1406 | BIO 1305-1105 | Modern Concepts of Bioscience |
| BIOL 1407 | BIO 1306-1106 | Modern Concepts of Bioscience, Continued |
| GEOL 1403 | GEO 1405 | The Dynamic Earth |
| GEOL 1404 | GEO 1406 | Earth Through Time |
| | NSC 1306-1106 | Introduction to Neuroscience |
| CHEM 1411 | CHE 1301-1101 | Basic Principles of Chemistry I |
| CHEM 1412 | CHE 1302-1102 | Basic Principles of Chemistry II |
| | PHY 1408 | Gen. Physics for Nat. & Behavioral Sci.I |
| | PHY 1409 | Gen. Physics for Nat. & Behavioral Sci.II |
| PHYS 2425 | PHY 1420 | General Physics I |
| | PHY 1430 | General Physics II |
| | ENV 1301-1101 | Exploring Environmental Issues and lab |
| | ENV 1303-1103 | Wildlife Ecology and lab |

| MATH: | | |
|--------------|----------|--------------|
| | MTH 1320 | Pre-Calculus |
| MATH 2413 | MTH 1321 | Calculus I |
| MATH 2414 | MTH 1322 | Calculus II |

| FOREIGN LANGUAGE: To be fulfilled with one of the following options: | | |
|---|----------|-------------------------|
| A. Complete ONE Modern or Classical language through the 2320 level OR | | |
| 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.) | | |
| SPAN 1411 | SPA 1401 | Elementary Spanish I |
| SPAN 1412 | SPA 1402 | Elementary Spanish II |
| SPAN 2311 | SPA 2310 | Intermediate Spanish I |
| SPAN 2312 | SPA 2320 | Intermediate Spanish II |

| Taught at Baylor; no equivalent course at South Texas | | |
|--|------------------|-----------------------------|
| <u>Modern Languages:</u> | | <u>Classical Languages:</u> |
| Arabic (ARB) | Japanese (JPN) | Hebrew (HEB) |
| Chinese (CHI) | Korean (KOR) | Greek (GKC) |
| French (FRE) | Portuguese (POR) | Latin (LAT) |
| German (GER) | Russian (RUS) | |
| Italian (ITA) | Swahili (SWA) | |