

# BAYLOR BOUND MAJOR ACADEMIC PLANNER

## Bachelor of Science in Biology - Prehealth Concentration

*A Suggested Sequence of Required Courses for a San Antonio transfer student (2017-2018 Catalog)*

| Freshman Year               |                                    |  |       |             |                  |  |       |
|-----------------------------|------------------------------------|--|-------|-------------|------------------|--|-------|
| Fall                        |                                    |  |       | Spring      |                  |  |       |
| SAN ANTONIO                 | BU                                 | Title  | Hours | SAN ANTONIO | BU               | Title  | Hours |
|                             | CHA 1088                           | Chapel   | 0     |             | CHA 1088         | Chapel   | 0     |
| ENGL 1301                   | ENG 1302                           | Thinking and Writing   | 3     | ENGL 1302   | ENG 1304         | Thinking, Writing, and Research                  | 3     |
| See Reverse                 |                                    | Math   | 3     | MATH 2413   | MTH 1321         | Calculus I                                       | 3     |
| See Reverse                 |                                    | Foreign Language   | 4     | See Reverse |                  | Foreign Language                                 | 4     |
| CHEM 1411                   | CHE 1301-1101                      | Basic Principles of Modern Chemistry I with Lab  | 4     | CHEM 1412   | CHE 1302-1102    | Basic Principles of Modern Chemistry II with Lab | 4     |
| BIOL 1406                   | BIO 1305-1105                      | Modern Concepts of Bioscience I with Lab   | 4     | BIOL 1407   | BIO 1306-1106    | Modern Concepts of Bioscience II with Lab        | 4     |
|                             |                                    |  | 18    |             |                  |  | 18    |
| Sophomore Year              |                                    |  |       |             |                  |  |       |
| Fall                        |                                    |  |       | Spring      |                  |  |       |
| SAN ANTONIO                 | BU                                 | Title  | Hours | SAN ANTONIO | BU               | Title  | Hours |
| MATH 2414                   | MTH 1322 or STA 2381               | Calculus II or Introductory Statistics   | 3     | See Reverse |                  | History/Social Science                           | 3     |
|                             | REL 1310                           | Christian Scriptures   | 3     |             | REL 1350         | Christian Heritage                               | 3     |
| See Reverse                 |                                    | Foreign Language   | 3     | See Reverse |                  | Foreign Language                                 | 3     |
| See Reverse                 |                                    | Lifetime Fitness   | 1     | CHEM 2325   | CHE 3332**       | Organic Chemistry II                             | 3     |
| CHEM 2323                   | CHE 3331**                         | Organic Chemistry I  | 3     |             | CHE 3238         | Organic Chemistry lab                            | 2     |
| BIOL 2416                   | BIO 2306-2106                      | Genetics with lab  | 4     |             | BIO 3422         | Human Physiology                                 | 4     |
|                             |                                    |  | 17    |             |                  |  | 18    |
| Junior Year                 |                                    |  |       |             |                  |  |       |
| Fall                        |                                    |  |       | Spring      |                  |  |       |
| SAN ANTONIO                 | BU                                 | Title  | Hours | SAN ANTONIO | BU               | Title  | Hours |
| ENGL 2327,2328 or 2332,2333 | ENG 2304 or 2306                   | American or World Literature   | 3     | See Reverse | PSC 2302         | American Constitutional Development              | 3     |
| See Reverse                 |                                    | History/Social Science   | 3     | ENGL 2322   | ENG 2301         | British Literature                               | 3     |
|                             | PHY 1408 or 1420                   | General Physics I  | 4     |             | PHY 1409 or 1430 | General Physics II                               | 4     |
| See Reverse                 |                                    | Lifetime Fitness   | 1     | See Reverse |                  | Lifetime Fitness                                 | 1     |
|                             | BIO 4307                           | Biochemistry and Physiology of the Cell  | 4     |             |                  | Biology Elective                                 | 4     |
|                             |                                    |  | 15    |             |                  |  | 15    |
| Senior Year                 |                                    |  |       |             |                  |  |       |
| Fall                        |                                    |  |       | Spring      |                  |  |       |
| SAN ANTONIO                 | BU                                 | Title  | Hours | SAN ANTONIO | BU               | Title  | Hours |
|                             | BIO 3425, 3429, 4426, or 4308-4108 | Gen Human Anat, Comp Chordate Anat, Vertebrate, Histology, or Cell & Develop Biol with lab | 4     |             | BIO 4001         | Achievement Test                                 | 0     |
| See Reverse                 |                                    | Lifetime Fitness   | 1     |             | See Below        | Biology Elective                                 | 4     |
|                             |                                    | Elective*  | 3     |             |                  | Elective*  | 3     |
|                             |                                    | Elective*  | 3     |             |                  | Advanced Elective*                               | 3     |
|                             |                                    | Advanced Elective*   | 3     |             |                  | Advanced Elective*                               | 3     |
|                             |                                    |  | 14    |             |                  | Elective*  | 3     |
|                             |                                    |  | 14    |             |                  |  | 16    |

**Notes:**

- This program is designed for students with an interest in medicine, dentistry, podiatry, or other health related professions, as well as those anticipating graduate studies in these disciplines.

- **Pre-Biology:** Students interested in biology as a major will choose the pre-biology designation upon enrollment at Baylor. To declare a major in Biology (BA or BS, all concentrations), a student must complete, with grades of "C" or better, either BIO 1305-1105 or 1405 and either BIO 1306-1106 or 1406 or their equivalents. Students may transfer credit for these courses as long as the courses were taken prior to initial matriculation to Baylor. Students may repeat each of these prerequisite courses only once if they fail to make a "C-" or better the first time they take the course. A separate requirement is in place for students who wish to declare a prehealth care concentration (BA or BS plan) in Biology. In addition to the basic requirements above, these students must earn grades of B- or better in either BIO 1305 or 1405 and in either BIO 1306 or 1406 on their first attempt at the course. Students who transfer to Baylor with credit on record from BIO 1305-1105 or 1405 and BIO 1306-1106 or 1406 will be eligible to declare Biology (all concentrations) as a major upon enrollment. Students may only remain in the pre-biology designation until completion of 90 hours. Students who have not met the admission requirement at 90 hours will not advance to the biology major and must change degree programs.

- A grade of "C" or better in 31 hours of biology courses used for the major **AND** in all courses required in non-Biology area of your audit.
- BIO 1305-1105 and 1306-1106 are prerequisite to all "2000" and above level courses in biology. Non-biology majors may be admitted to upper-level courses without these prerequisites with consent of instructor and department chair.
- BIO 1401, 1402, 1403, 2401, and 2402 cannot be used to satisfy the minimum number of semester hours required for a major in biology.
- BIO Electives: Choose 8 hours of electives. A maximum of 3 hours of Individual Topics may be used for elective credit.
- English requirement: Students majoring in the sciences may take ENG 3300 instead of ENG 1304.
- For more information, see the Baylor Undergraduate Catalog.

\*Because of the number of electives, there is enough room for a minor with this major. Students interested in teaching should contact the School of Education for more information about the Science Education minor.

\*\*CHEM 2423 and 2425 will count as CHE 2T01 and 2T02 organic chemistry I and II but will not count as advanced course work.

**Please see reverse side for important information on general requirements.**

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

| ST PHILIPS COURSE | BAYLOR COURSE | BAYLOR TITLE                 |
|-------------------|---------------|------------------------------|
| <b>ENGLISH:</b>   |               |                              |
| ENGL 1301         | ENG 1302      | Thinking and Writing         |
| ENGL 1302         | ENG 1304      | Thinking, Writing & Research |
| ENGL 2322         | ENG 2301      | British Literature           |
| ENGL 2327 or 2328 | ENG 2304      | American Literature          |
| ENGL 2332 or 2333 | ENG 2306      | World Literature             |

| <b>HISTORY/SOCIAL SCIENCE:</b> |           |   |
|--------------------------------|-----------|---|
|                                | ANT 1305  | Introduction to Anthropology              |
|                                | ANT 3301  | Science, Society, and Culture             |
| ECON 1301                      | ECON 1305 | Survey of Eco. Princ. For Non-bus. Majors |
|                                | ECO 2306  | Principles of Microeconomics              |
|                                | ECO 2307  | Principles of Macroeconomics              |
| GEOG 1303                      | GEOG 1300 | World Geography                           |
| HIST 2321                      | HIS 1305  | World History to 1500                     |
| HIST 2321 or 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 1301                      | 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                 |

| <b>POLITICAL SCIENCE:</b>   |          |                                     |
|---|----------|-------------------------------------|
| 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**

| ST PHILIPS COURSE | BAYLOR COURSE | BAYLOR TITLE                              |
|-------------------|---------------|---|
| <b>SCIENCE:</b>   |               |   |
| 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 |
|                   | 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                  |

| <b>MATH:</b> |          |              |
|--------------|----------|--------------|
|              | MTH 1320 | Pre-Calculus |
| MATH 2413    | MTH 1321 | Calculus I   |
| MATH 2414    | MTH 1322 | Calculus II  |

| <b>FOREIGN LANGUAGE: To be fulfilled with one of the following options:</b>   |               |                             |
|---|---------------|-----------------------------|
| A. Complete ONE Modern or Classical language through the 2320 level <u>OR</u>   |               |                             |
| 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.) |               |                             |
| ARAB 1411   | ARB 1401      | Elementary Spoken Arabic I  |
| ARAB 1412   | ARB 1402      | Elementary Spoken Arabic II |
| CHIN 1411   | CHI 1401      | Elementary Chinese I        |
| CHIN 1412   | CHI 1402      | Elementary Chinese II       |
| FREN 1411   | FRE 1401      | Elementary French I         |
| FREN 1412   | FRE 1402      | Elementary French II        |
| 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     |
| GERM 1411   | GER 1401      | Elementary German I         |
| GERM 1412   | GER 1402      | Elementary German II        |
| ITAL 1411   | ITA 1401      | Elementary Italian I        |
| ITAL 1412   | ITA 1402      | Elementary Italian II       |
| JAPN 1411   | JPN 1401      | Introductory Japanese I     |
| JAPN 1412   | JPN 1412      | Elementary Japanese II      |
| <b>Taught at Baylor; no equivalent course at St. Philips</b>  |               |                             |
| <u>Modern Languages:</u>  |               | <u>Classical Languages:</u> |
| Korean (KOR)  | Russian (RUS) | Hebrew (HEB)                |
| Portuguese (POR)  | Swahili (SWA) | Greek (GRK)                 |
|   |               | Latin (LAT)                 |