

# BAYLOR BOUND MAJOR ACADEMIC PLANNER

## Bachelor of Science in Chemistry (ACS Certified)

*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     |
| ENGL 1301      | ENG 1302                        | Thinking and Writing  | 3     | MATH 2413         | MTH 1321         | Calculus I                                       | 3     |
| See Reverse    |                                 | Math  | 3     | See Reverse       | REL 1310         | Christian Scriptures                             | 3     |
| See Reverse    |                                 | Foreign Language  | 4     | See Reverse       |                  | Foreign Language                                 | 4     |
| See Reverse    |                                 | Lifetime Fitness  | 1     | See Reverse       |                  | Lifetime Fitness                                 | 1     |
| 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     |
|                |                                 |   | 15    |                   |                  |  | 15    |
| Sophomore Year |                                 |   |       |                   |                  |  |       |
| Fall           |                                 |   |       | Spring            |                  |  |       |
| SOUTH TEXAS    | BU                              | Title   | Hours | SOUTH TEXAS       | BU               | Title  | Hours |
| MATH 2414      | MTH 1322                        | Calculus II   | 3     | MATH 2425         | MTH 2321         | Calculus III                                     | 3     |
| See Reverse    |                                 | Foreign Language  | 3     | See Reverse       |                  | Foreign Language                                 | 4     |
| PHYS 2425      | PHY 1420                        | General Physics I   | 4     | See Reverse       | PHY 1430         | General Physics II                               | 3     |
| See Reverse    |                                 | Lifetime Fitness  | 1     | See Reverse       |                  | Lifetime Fitness                                 | 1     |
|                | CHE 2216                        | Lab Measurements & Techniques   | 2     |                   | CHE 3238         | Organic Chemistry Lab                            | 2     |
| CHEM 2323      | CHE 3331**                      | Organic Chemistry I   | 3     | CHEM 2325         | CHE 3332**       | Organic Chemistry II                             | 3     |
|                |                                 |   | 16    |                   |                  |  | 16    |
| Junior Year    |                                 |   |       |                   |                  |  |       |
| Fall           |                                 |   |       | Spring            |                  |  |       |
| SOUTH TEXAS    | BU                              | Title   | Hours | SOUTH TEXAS       | BU               | Title  | Hours |
|                | REL 1350                        | Christian Heritage  | 3     | See Reverse       |                  | History/Social Science                           | 3     |
| ENGL 2321      | ENG 2301                        | British Literature  | 3     |                   |                  | Elective   | 3     |
| See Reverse    | PSC 2302                        | American Constitutional Development   | 3     |                   | CHE 4322         | Physical Chemistry II                            | 3     |
|                | MTH 3325, STA 2381, or STA 3381 | Ordinary Diff Equations, Intro Statistical Methods, or Probability & Statistics | 3     |                   | CHE 4128         | Physical Chemistry Lab II                        | 1     |
|                | CHE 4321                        | Physical Chemistry I  | 3     |                   | CHE 4302         | Descriptive Inorganic Chemistry                  | 3     |
|                | CHE 4127                        | Physical Chemistry Lab I  | 1     |                   | See Below        | 4000 Level Chemistry Course                      | 2     |
|                |                                 |   | 16    |                   |                  |  | 15    |
| Senior Year    |                                 |   |       |                   |                  |  |       |
| Fall           |                                 |   |       | Spring            |                  |  |       |
| SOUTH TEXAS    | BU                              | Title   | Hours | SOUTH TEXAS       | BU               | Title  | Hours |
|                | CHE 4307                        | Advanced Inorganic Chemistry  | 3     |                   | CHE 4316         | Instrumental Analysis                            | 3     |
|                | See Below                       | 4000 Level Chemistry Course   | 2     |                   | CHE 4341         | General Biochemistry                             | 3     |
|                | CHE 4151                        | Undergraduate Seminar I   | 1     |                   | See Below        | 4000 Level Chemistry Course                      | 2     |
|                |                                 | Elective  | 3     |                   | CHE 4001         | Exit Examination                                 | 0     |
|                | ENG 3300                        | Professional and Technical Writing  | 3     | ENGL 2326 or 2326 | ENG 2304 or 2306 | American or World Literature                     | 3     |
| See Reverse    |                                 | History/Social Science  | 3     |                   |                  | Elective   | 3     |
|                |                                 |   | 15    |                   |                  | Elective   | 3     |
|                |                                 |   | 15    |                   |                  |  | 17    |

**Notes about major requirements:**

- CHE, MTH, and PHY courses in the first two years must not be deferred.
- MTH 2321 must be completed by end of sophomore year.
- PHY 1430 must be complete by end of sophomore year.
- CHE 4321 and 4127 must be taken in fall of junior year. Prerequisites are MTH 2321 and PHY 1430.
- 4000 level chemistry courses, except 4341, are taught only once per year, in the semesters indicated.
- CHE 4000: Students must complete six semester hours from CHE 4207, 4217, 4237, (one hour each of CHE 4199 and 4V98).
- MTH 3325 or STA 2381 or STA 3381: MTH 3325 is recommended unless student is Pre-Health
- English requirement: It is recommended that science majors take ENG 3300 their junior or senior year rather than ENG 1304.
- For more information, see the undergraduate catalog.

\*\*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)

| SOUTH TEXAS COURSE | BAYLOR COURSE | BAYLOR TITLE                 |
|--------------------|---------------|------------------------------|
| <b>ENGLISH:</b>    |               |                              |
| 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             |

| <b>HISTORY/SOCIAL SCIENCE:</b> |           |   |
|--------------------------------|-----------|---|
| 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                 |

| <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**

| SOUTH TEXAS 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 |
| 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                  |

| <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 <b>OR</b>   |          |                         |
| 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 |

| <b>Taught at Baylor; no equivalent course at South Texas</b> |                  |                             |
|--|------------------|-----------------------------|
| <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)    |                             |