

## BAYLOR BOUND MAJOR ACADEMIC PLANNER

### Bachelor of Science in Chemistry (ACS Certified, Biochemistry Concentration)

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

| Freshman Year  |                      |   |       |                               |                  |  |       |
|----------------|----------------------|---|-------|-------------------------------|------------------|--|-------|
| Fall           |                      |   |       | Spring                        |                  |  |       |
| COLLIN         | BU                   | Title   | Hours | COLLIN                        | BU               | Title  | Hours |
|                | CHA 1088             | Chapel  | 0     |                               | CHA 1088         | Chapel   | 0     |
| ENGL 1301      | ENG 1302             | Thinking and Writing  | 3     |                               | REL 1310         | Christian Scriptures                             | 3     |
| See Reverse    |                      | Math  | 3     | MATH 2413                     | MTH 1321         | Calculus I                                       | 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                        |                  |  |       |
| COLLIN         | BU                   | Title   | Hours | COLLIN                        | BU               | Title  | Hours |
| MATH 2414      | MTH 1322             | Calculus II   | 3     |                               | MTH 2321         | Calculus III                                     | 3     |
|                | PHY 1420             | General Physics I   | 4     | PHYS 2426                     | PHY 1430         | General Physics II                               | 4     |
| See Reverse    |                      | Foreign Language  | 3     | See Reverse                   |                  | Foreign Language                                 | 3     |
| See Reverse    |                      | Lifetime Fitness  | 1     | See Reverse                   |                  | Lifetime Fitness                                 | 1     |
|                | CHE 2216             | Lab Measurements & Techniques                                       | 2     |                               | CHE 3332         | Organic Chemistry II                             | 3     |
| CHEM 2413      | CHE 3331**           | Organic Chemistry I   | 3     |                               | CHE 3238         | Organic Chemistry Lab                            | 2     |
|                |                      |   | 16    |                               |                  |  | 16    |
| Junior Year    |                      |   |       |                               |                  |  |       |
| Fall           |                      |   |       | Spring                        |                  |  |       |
| COLLIN         | BU                   | Title   | Hours | COLLIN                        | BU               | Title  | Hours |
|                | REL 1350             | Christian Heritage  | 3     | ENGL 2322                     | ENG 2301         | British Literature                               | 3     |
| BIOL 1406      | BIO 1305-1105        | Modern Concepts of Bioscience I with Lab                            | 4     | BIOL 1406                     | BIO 1306-1106    | Modern Concepts of Bioscience II with Lab        | 3     |
|                | MTH 3325 or STA 2381 | Ordinary Differential Equations or Introductory Statistical Methods | 3     |                               | CHEM 4302        | Descriptive Inorganic Chemistry                  | 3     |
|                | CHE 4321             | Physical Chemistry I  | 1     |                               | CHE 4322         | Physical Chemistry II                            | 3     |
|                | CHE 4341             | General Biochemistry  | 3     |                               | CHE 4128         | Physical Chemistry Lab II                        | 1     |
|                | CHE 4141             | Modern Biochemistry Lab   | 1     |                               | CHE 4342         | Topics in Human Biochemistry                     | 3     |
|                | CHE 4127             | Physical Chemistry Lab I  | 1     |                               | CHE 4142         | Advanced Biochemistry Lab                        | 1     |
|                |                      |   | 16    |                               |                  |  | 17    |
| Senior Year    |                      |   |       |                               |                  |  |       |
| Fall           |                      |   |       | Spring                        |                  |  |       |
| COLLIN         | BU                   | Title   | Hours | COLLIN                        | BU               | Title  | Hours |
|                | See Below            | 4000 Level Chemistry Lecture Course                                 | 2     |                               | CHE 4316         | Instrumental Analysis                            | 3     |
|                | CHE 4151             | Undergraduate Seminar I   | 1     |                               | See Below        | 4000 Level Chemistry Lab                         | 2     |
|                | ENG 3300             | Professional and Technical Writing                                  | 3     |                               | CHE 4001         | Exit Examination                                 | 0     |
| See Reverse    | PSC 2302             | American Constitutional Development                                 | 3     | ENGL 2327, 2328 or 2332, 2333 | ENG 2304 or 2306 | American or World Literature                     | 3     |
| See Reverse    |                      | History/Social Science  | 3     | See Reverse                   |                  | History/Social Science                           | 3     |
| See Reverse    |                      | Elective  | 3     |                               |                  | Advanced Elective                                | 3     |
|                |                      | Elective  | 3     |                               |                  |  |       |
|                |                      |   | 18    |                               |                  |  | 14    |

**Notes about major requirements:**

- CHE, MTH, and PHY courses in the first two years must not be deferred.
- MTH 2321 must be completed by the end of sophomore year.
- PHY 1430 must be completed by the end of sophomore year.
- CHE 4321 and 4127 must be taken in the fall of your 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.
- MTH 3325 or STA 2381 or STA 3381: MTH 3325 is recommended unless student is Pre-Health
- CHE 4000: Two semester hours selected from CHE 4207, 4217, 4237, (one hour each of CHE 4199 and 4V98).
- 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 Baylor Undergraduate Catalog.

\*\*CHEM 2423 will count as CHE 2T01 organic chemistry I 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)**

| COLLIN 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> |           |   |
|--------------------------------|-----------|---|
| ANTH 2346                      | ANT 1305  | Introduction to Anthropology              |
|                                | ANT 3301  | Science, Society, and Culture             |
| ECON 1301                      | ECO 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 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**

| COLLIN 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  |
| GEO 1403        | GEO 1405      | The Dynamic Earth                         |
| GEO 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                         |
| PHYS 2426       | PHY 1430      | General Physics II                        |
| ENVR 1401       | 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  |

**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.)

|           |          |                         |
|-----------|----------|-------------------------|
| ARAB 1411 | ARB 1401 | Elementary Arabic I     |
| ARAB 1412 | ARB 1402 | Elementary Arabic II    |
| FREN 1411 | FRE 1401 | Elementary French I     |
| FREN 1412 | FRE 1402 | Elementary French II    |
| FREN 2311 | FRE 2310 | Intermediate French I   |
| FREN 2312 | FRE 2320 | Intermediate 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     |
| ITAL 1411 | ITA 1401 | Elementary Italian I    |
| ITAL 1412 | ITA 1402 | Elementary Italian II   |
| JAPN 1411 | JPN 1401 | Introductory Japanese   |
| JAPN 1412 | JPN 1402 | Elementary Japanese     |

| <b>Taught at Baylor; no equivalent course at Collin</b> |               |                             |
|---|---------------|-----------------------------|
| <b>Modern Languages:</b>                                |               | <b>Classical Languages:</b> |
| Chinese (CHI)   | Russian (RUS) | Latin (LAT)                 |
| Korean (KOR)  | Swahili (SWA) | Greek (GKC)                 |
| Portuguese (POR)  |               | Hebrew (HEB)                |