## Bachelor of Science in Biology - Integrative Biology Concentration

### A Suggested Sequence of Required Courses (2018-2019 Catalog)

### Freshman Year

#### Fall
- 0 Chapel (CHA 1088)
- 3 ENG 1302 (see below)
- 3 Math (see reverse)
- 3-4 Foreign Language 1401/1412 (see reverse)
- 4 CHE 1301/1101
- 4 BIO 1305/1105 or 1405

#### Spring
- 0 Chapel (CHA 1088)
- 3 ENG 1304 (see below)
- 3 MTH 1321
- 3-4 Foreign Language 1402/2310 (see reverse)
- 4 CHE 1302/1102
- 4 BIO 1306/1106 or 1406

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### Sophomore Year

#### Fall
- 3 MTH 1322 or STA 2381
- 3 REL 1310
- 3 Foreign Language 2310 (see reverse)
- 1 Lifetime Fitness
- 3 CHE 3331
- 4 BIO 2306/2106

#### Spring
- 3 ENG 2301 or ENG 2304/2306/GTX
- 3 History/Social Science (see reverse)
- 1 Lifetime Fitness
- 1 BIO Lab/Topics Course (see below)
- 4 BIO 3303

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### Junior Year

#### Fall
- 3-4 BIO Elective (see below)
- 3-4 BIO Elective (see below)
- 3 History/Social Science (see reverse)
- 3 Advanced Elective* (variable depending on adv hrs)
- 3 Elective (see below)

#### Spring
- 0 BIO 4001
- 3-4 BIO Elective (see below)
- 3 PSC 2302
- 1 Lifetime Fitness
- 3 Advanced Elective* (variable depending on adv hrs)
- 3 Elective* (Variable depending on hours)

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### Senior Year

#### Fall
- 3-4 BIO Elective (see below)
- 3-4 BIO Elective (see below)
- 3 History/Social Science (see reverse)
- 3 Elective (see below)

#### Spring
- 0 BIO 4001
- 3-4 BIO Elective (see below)
- 3 PSC 2302
- 1 Lifetime Fitness
- 3 Advanced Elective* (variable depending on adv hrs)
- 3 Elective* (Variable depending on hours)

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### Notes:

- This program is designed for students who desire a strong, diverse background in the biological sciences. It is designed to introduce students to the wholeness of biology through an integrative perspective of the structure and function of biological systems with strong training in information analysis. It is appropriate for students who wish to attend graduate or professional schools.

Students interested in Biology as a major can select the Biology designation upon enrollment at Baylor. However, students who have not met the criteria listed below by 60 hours in residence will not advance in the Biology major and must change degree programs. To advance in the major, a student must meet the following criteria:

A. Complete with grades of "C" or better either BIO 1305/1105 or 1405; and either BIO 1306/1106 or 1406; or their equivalents. A grade of "C-" or lower is not acceptable.

B. Students may transfer credit for these courses as long as the courses were taken prior to matriculation at Baylor.

C. Students may repeat each of these prerequisite courses only once if they fail to earn a "C" or better the first time they take the course. Withdrawing from the course counts as one of the two allowed attempts.

D. Current Baylor students from units other than the College of Arts and Sciences must have a minimum 3.5 cumulative GPA and at least 12 hours in residence to request to major in Biology.

E. Students may change to a major in Biology only at the end of a full semester.

- BIO 1305-1105 or 1405; and 1306-1106 or 1406, all with grades of "C" or better, are prerequisites for all "2000" and above level courses in biology (with the exception of BIO 2401 and 2402). Non-biology majors are held to the same prerequisite standards as the biology majors.

- BIO 1102, 1302, 1401, 1403, 2401, and 2402 cannot be used to satisfy the minimum number of semester hours required for a major in biology. A maximum of 3 semester hours in Individual Topics (1V90, 3V90, 5V90) may be applied toward a major or minor in biology.

- BIO Lab/Topics Course --- Choose at least one hour from: BIO 3100, 3103, 3300, 3V90, 4199 or 4V04.

- BIO Electives --- Choose at least 3 hours from each group:
  1. BIO 3324-3124, 3429, 4301, 4304-4104, 4308-4108, 4323-4123, 4401, 4416, 4422, 4428.
  2. BIO 3342, 3422, 4307, 4417, 4431, 4418.
  3. BIO 3320, 4310, 4360, 4365, 4381, 4405, 4406.
  4. BIO 3350, 4306-4106, 4335, 4402, 4403.

- English requirement: Freshman Academic Seminars (FAS) may be substituted for ENG 1302. These seminars introduce first year students to the world of academics and the scholarly community through exploration of topics of significant cultural/social importance. Emphasizes critical inquiry and thinking, research, writing, and problem solving. May substitute for a basic requirement on certain degrees only in the College of Arts and Sciences.

*Note: Students majoring in the sciences may take ENG 3300 instead of ENG 1304.

- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

- For more information, see the 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.

Please see reverse side for important information on general requirements.
Notes about General Requirements:
• Course selection is subject to availability within each semester.
• Please keep in mind that this is only a suggested sequence. Actual sequence will vary according to possible second major, minor, other program of study (including pre-health), and individual circumstances (ex., transfer credit, dual credit, and credit by exam).
• In order to complete your degree, you must fulfill all requirements in your major and general requirements for the Bachelor of Science.
• To complete a double major, you may not count any courses toward both majors.
• For more specific information on general requirements, see your undergraduate catalog.
• Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

History/Social Science (choose 2 courses from the following areas - 6 hours):
- Anthropology, Economics, History, Honors, Philosophy, Political Science, Psychology, Sociology, GEOG 1300, FAS 1304 or 1305...
- Check your major to determine if special courses are needed.

Foreign Language:
- Option A: One modern language through 2320 level:
  Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, and Swahili
- Option B: One classical language through 2320 level or two classical through 1302 level:
  Latin, Greek, Hebrew (If available, Akkadian, Aramaic, Syriac, and/or Ugaritic may be used)
  *Chemistry majors must take a modern foreign language; German or Russian are strongly recommended.

Math & Science:
- You must complete a minimum of 34 hours of math and science courses. See the undergraduate catalog for a more detailed explanation or refer to your audit for specific science/math courses that may be required by your major.
- ALEKs placement exams are used by the Baylor Math Department for placement in MTH 1320 (Pre-calculus) and MTH 1321 (Calculus I). Please refer to the Math Department website for information and full instructions on the exam process.

Fine Arts: None required for this degree.

Biology/Chemistry Prerequisite Policies:
- Biology: In order to register for BIO 1305 and 1306 students must have either a satisfactory math score on the ACT or SAT OR have completed MTH 1320 (Pre-Calculus) with a grade of B or better OR MTH 1321 with a grade of C or better.
- Chemistry: In order to register for CHE 1301, students must have either a satisfactory math score on the ACT (24) or SAT (550). If you do not meet one of these requirements, you will be asked to complete the ALEKS (Assessment and Learning in Knowledge Spaces) course and earn 85% mastery or higher.