

Bachelor of Science in Biology - Cell and Molecular Biology Concentration (BIC)

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

F r e s h m a n Y e a r

Fall	Spring
_____ 0 Chapel (CHA 1088)	_____ 0 Chapel (CHA 1088)
_____ 2 BIC 1212 Examined Life I	_____ 3 BIC 1324 World Cultures II
_____ 3 BIC 1314 World Cultures I	_____ 3 BIC 1323 Rhetoric II
_____ 4 BIC 1413 Rhetoric I	_____ 3 MTH 1321 Calculus
_____ 4 CHE 1301 Chemistry I/CHE 1101	_____ 4 CHE 1302 Chemistry II/CHE 1102
_____ 4 BIO 1305/1105 or 1405 (see below - Pre-Biol)	_____ 4 BIO 1306/1106 or 1406 (see below - Pre-Biol)
Total: 17	Total: 17

S o p h o m o r e Y e a r

Fall	Spring
_____ 3 BIC 2330 Social World I	_____ 3 BIC 2340 Social World II
_____ 3 BIC 2334 World Cultures III	_____ 3 BIC 2344 World Cultures IV
_____ 3 CHE 3331 Organic Chemistry I	_____ 3 CHE 3332 Organic Chemistry II
_____ 3 MTH 1322 or STA 2381	_____ 2 CHE 3238 Organic Chem Lab
_____ 4 BIO 2306/2106 Genetics	_____ 3-4 BIO Elective (see below)
Total: 16	Total: 15

J u n i o r Y e a r

Fall	Spring
_____ 3-4 Foreign Language - 1401 (see reverse)	_____ 3-4 Foreign Language - 1402 (see reverse)
_____ 4 PHY 1408/1420 Physics I	_____ 4 PHY 1409/1430 Physics II
_____ 1 Lifetime Fitness	_____ 3 BIC 3358 Biblical Heritage/Ethics
_____ 3 BIO 3342 Molecular Cell Biology	_____ 3 BIO 4365 Topics in Evolution
_____ 1 BIO Lab/Topics Course (see below)	
Total: 14-16	Total: 14-15

S e n i o r Y e a r

Fall	Spring
_____ 3 Foreign Language - 2310 (see reverse)	_____ 3 Foreign Language - 2320 (see reverse)
_____ 3-4 BIO Elective (see below)	_____ 0 BIO 4001 Exit Examination
_____ 1 Lifetime Fitness	_____ 3 Elective* (Variable depending on hours)
_____ 3 Elective* (Variable depending on hours)	_____ 3 Elective*
_____ 3 Elective* (Variable depending on hours)	_____ 3 Elective* (Variable depending on hours)
Total: 14	Total: 12

*All students must graduate with a minimum of 124 hours,
36 of which must be at the 3000/4000 level.*

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.

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 a 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 prerequisite to all "2000" and above level courses (with the exception of BIO 2401 and 2402). Non-biology majors are held to the same prerequisite standards as the biology

– 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.

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

– BIO Electives: Choose at least 3 hours from each group:

1. BIO 4401, 4426, 4308-4108, 4352.

2. BIO 3330, 3350, 4301, 4303, 4306-4106, 4307

– 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