

Bachelor of Science in Biology - Ecology Concentration (BIC)

A Suggested Sequence of Required Courses (2017-2018 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 I |
| _____ 3 MTH 1320 (if needed) PreCalculus | _____ 4 BIO 1306/1106 or 1406 (see below-Pre-Biology) |
| _____ 4 BIO 1305/1105 or 1405 (see below-Pre-Biology) | _____ 1 Lifetime Fitness |
| Total: 16 | Total: 14 |

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 |
| _____ 4 CHE 1301/1101 Chemistry I | _____ 4 CHE 1302/1102 Chemistry II |
| _____ 3-4 Foreign Language - 1401 (see reverse) | _____ 3 MTH 1322 or STA 2381 |
| _____ 3 BIO 2306 Genetics | _____ 3-4 Foreign Language - 1402 (see reverse) |
| Total: 16-17 | Total: 16-17 |

J u n i o r Y e a r

| Fall | Spring |
|--------------------------------------------------------|-----------------------------------------------------------|
| _____ 3 Foreign Language - 2310 (see reverse) | _____ 3 Foreign Language - 2320 (see reverse) |
| _____ 3-4 (CHE Elective: 3331 OR 1341/1146--see below) | _____ 3 ENV 1301, 2375, or 4355 |
| _____ 4 PHY 1408/1420 Physics I | _____ 5 CHE 3332/3238 (see below)* |
| _____ 4 BIO 3422, 4417, or 4431 | _____ 4 BIO 3303/3103 Ecology |
| _____ 1 Lifetime Fitness | _____ *If CHE 1341/1146 option chosen; take PHY 1409 here |
| Total: 15-16 | Total: 15 |

S u m m e r

| First | Second |
|--------------------------------------------------|--------|
| _____ 4 Four hour approved Ecology Field Station | |

S e n i o r Y e a r

| Fall | Spring |
|---------------------------------------------------------------|------------------------------------------------------------|
| _____ 4 BIO 3324/3124, 4406, 4414, 4422, 4427, or 4427 | _____ 3 BIO 4366 Found of Evol Biology |
| _____ 3 BIO Elective (see below) | _____ 0 BIO 4001 Exit Examination |
| _____ 4 PHY 1409/1430 Physics II | _____ 3-4 BIO Elective (3000-4000 level, see below) |
| _____ 3 BIC 3358 Biblical Heritage/Ethics | _____ 4 GEO 1405 or 1406 |
| _____ 1 Lifetime Fitness | _____ 3 Elective (Variable depending on hours) |
| Total: 15 | Total: 13-14 |

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 interests in field studies, especially for those considering a career in subjects such as fisheries and wildlife, forestry, conservation, pollution assessment and related areas and/or those anticipating graduate studies in ecology and environmental biology. Students will be advised to take courses representing systems ecology, physiological ecology, and organismal biology.
- **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 a "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 (assuming grades of "C-" or better) as long as the courses were taken prior to initial matriculation at Baylor. Students may repeat each of these introductory courses only once if they fail to make a "C-" or better the first time they take the course. Students may only remain in the pre-biology designation until completion of 60 hours. 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 have not met the admission requirement at 60 hours will not advance to the biology major and must change degree programs. Students who transfer credit to Baylor for BIO 1305-1105 or 1405 and BIO 1306-1106 or 1406 will be eligible to declare biology as a major upon initial enrollment at Baylor provided that minimum grade requirements are met as outlined above. Students who receive 5 on the AP examination (all concentrations) will be eligible to declare biology as a major upon enrollment at Baylor. 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.
- Field Station requirement: A unique feature of this program is the requirement of full-time off-campus studies through courses taken at an academically recognized Field Station sponsored by a national or international university. BIO 4V04, taken for four hours credit, may be substituted for the field station requirement. This course substitution must be approved, in advance, by the Ecology Track Director and department chair.
- A grade of "C-" or better in 37 hours of BIO 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. 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 do not satisfy the minimum hours for a biology major.
- a major in biology.
- BIO Electives: At least 11 hours can be chosen from BIO 3300, 3340, 4310, 4365, 4381, 4405, 4416, 4418, 4428 (or any of those classes within the semesters above that you did not choose when given a choice).
- CHE Elective: Students may either take CHE 1341 and 1146 OR CHE 3238, 3331 and 3332.
- 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.
- Students interested in teaching should contact the School of Education about the Science Education minor.