

## Bachelor of Science in Biology - Ecology Concentration

*A Suggested Sequence of Required Courses (2012-2013 Catalog)*

F r e s h m a n Y e a r			
Fall		Spring	
_____ 0	Chapel (CHA 1088)	_____ 0	Chapel (CHA 1088)
_____ 3	ENG 1302 or FAS 1302	_____ 3	ENG 1304 (see below)
_____ 3	REL 1310	_____ 3	REL 1350
_____ 3	MTH 1304 (if needed)	_____ 3	MTH 1321
_____ 3-4	Foreign Language 1401/1412 (see reverse)	_____ 3-4	Foreign Language 1402/2310 (see reverse)
_____ 4	BIO 1305/1105 or 1405 (see below - Pre-Biology)	_____ 4	BIO 1306/1106 or 1406 (see below - Pre-Biology)
Total: 16-17		Total: 16-17	
S o p h o m o r e Y e a r			
Fall		Spring	
_____ 3	ENG 2301 or ENG 2304/2306/GTX	_____ 3	ENG 2301 or ENG 2304/2306/GTX
_____ 3	MTH 1322 or STA 2381	_____ 3	History/Social Science (see reverse)
_____ 4	CHE 1301/1101	_____ 4	CHE 1302/1102
_____ 3	Foreign Language - 2310 (see reverse)	_____ 3	Foreign Language - 2320 (see reverse)
_____ 1	Human Performance	_____ 1	Human Performance
_____ 3	BIO 2306		
Total: 17		Total: 14	
J u n i o r Y e a r			
Fall		Spring	
_____ 3	PSC 2302	_____ 3	History/Social Science (see reverse)
_____ 3	CHE Elective (see below)	_____ 3	ENV 1301, 2375, or 4355
_____ 4	PHY 1408/1420	_____ 4	PHY 1409/1430
_____ 1	Human Performance	_____ 3-4	BIO Elective (see below)
_____ 4	BIO 3422, 4417, or 4431	_____ 4	BIO 3303/3103
Total: 15		Total: 17-18	
S u m m e r			
First		Second	
_____ 4	Chapala Ecology Field Station		
Total: 4	(or other approved field station - see below)	Total: 0	
S e n i o r Y e a r			
Fall		Spring	
_____ 4	BIO 3324/3124, 4406, 4414, 4422, or 4427	_____ 3-4	BIO Elective (see below)
_____ 3-4	BIO Elective (see below)	_____ 0	BIO 4001
_____ 4	GEO 1405 or 1406	_____ 3-4	BIO Elective (see below)
_____ 3	Advanced Elective	_____ 1	Human Performance
_____ 3	Elective (Variable depending on hours)	_____ 3	Advanced Elective
		_____ 3	Elective (Variable depending on hours)
Total: 17-18		Total: 13-15	

*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 "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 to 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. 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, all with grades of "C" or better, on their record will be eligible to declare biology as a major upon initial enrollment at Baylor. Students who receive 5 on the AP examination will be eligible to declare biology as a major upon initial enrollment at Baylor even if they elect to take the introductory course sequence.
- **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 31 hours of biology 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 in biology. 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 cannot be used to satisfy the minimum number of semester hours required for a major in biology.
- BIO Electives: At least 14 hours can be chosen from BIO 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.
- English requirement: Students are allowed to take either ENG 1304 or FAS 1118, 1128, and 1138. 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.

\*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 1303, 1304 or 1305, or 3 courses from FAS 1115, 1125, 1135.
- 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.

**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 1304 (Pre-Calculus) with a grade of B or better.
- Chemistry: In order to register for CHE 1301 students must have either a satisfactory math score on the ACT or SAT or have a minimum grade of B in CHE 1300 AND a minimum grade of B in either MTH 1304 (Pre-Calculus) or MTH 1321 (Calculus).