

## Bachelor of Arts in Biology (BIC)

*A Suggested Sequence of Required Courses (2013-2014 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	_____ 4	CHE 1301/1101* Chemistry I
_____ 3	MTH 1304 (if needed) Pre-Calculus	_____ 3	MTH 1321 Calculus
_____ 4	BIO 1305/1105* Bio I or 1405 (see below-Pre-Biology)	_____ 4	BIO 1306/1106 Bio II or 1406 (see below-Pre-Biology)
Total: 16		Total: 16	
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 1302/1102 Chemistry II	_____ 4	BIO 2306/2106 Genetics/Genetics Lab
_____ 3	MTH 1322 (if PHY 1430 planned) or STA 2381	_____ 4	PHY 1408/1420 Physics I
_____ 3-4	Foreign Language - 1401 (see reverse)	_____ 3-4	Foreign Language - 1402/2310 (see reverse)
Total: 17-18		Total: 17-18	
J u n i o r Y e a r			
Fall		Spring	
_____ 3	Foreign Language - 2310	_____ 3	Foreign Language - 2320
_____ 4	PHY 1409/1430 Physics II	_____ 3	BIC 3358 Biblical Heritage/Ethics
_____ 3-4	CHE 3331 Organic Chem. (or CHE 1341/1146)	_____ 3	CHE 3332 Organic Chem II (or CHE 1341/1146)
_____ 3	Elective	_____ 2	CHE 3238 O.Chem Lab(if taking CHE 3331/3332)
_____ 4	BIO Elective - Group 2 (see below)	_____ 3-4	BIO Elective
Total: 17-18		Total: 14-15	
S e n i o r Y e a r			
Fall		Spring	
_____ 3-4	BIO Elective (see below)	_____ 4	BIO Elective - Group 1 (see below)
_____ 3	Elective	_____ 4	BIO Elective - Group 3 (see below)
_____ 3	Advanced Elective (if needed)	_____ 0	BIO 4001 Exit Examination
_____ 3	BIC 4374 World Cultures V	_____ 3	BIC 4389 Capstone
_____ 1	Lifetime Fitness	_____ 3	Advanced Elective (if needed)
		_____ 1	Lifetime Fitness
Total: 13-14		Total: 15	

\*Petition for NW I-II

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

### Notes about major requirements:

- This program is designed for students who wish to develop an understanding of biology in the context of a broad university education.
- **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. 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.
- A grade of "C" or better in 31 hours of biology courses used for the major **AND** in all courses required in non-Biology areas 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.
- Group 1 - at least four semester hours from: BIO 3425, 3429, 4416, 4308-4108, or 4426
- Group 2 - at least four semester hours from: BIO 3422, 4307-4107, 4417, or 4431.
- Group 3 - at least four semester hours from: BIO 3303-3103, 3324-3124, 4405, 4406, 4414, 4418, 4422, 4427, 4428, or 4V04.
- BIO Electives: Choose 7 hours of electives. A maximum of 3 hours of Individual Topics may be used for elective credit.
- CHE Note: Students may take either the Organic Chem. sequence of CHE 3331/3332/3238 or they may take CHE 1341/1146. If you take CHE 1341/1146, you may not have enough upper level hours required for graduation. Consult your advisor.
- 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.**

## Bachelor of Arts

### 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 Arts.
- To complete a double major, you may not count any courses toward both majors.
- For more specific information on general requirements, see the undergraduate catalog.
- Check your degree audit often through Bearweb to ensure that you are making timely progress toward your degree.

### 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)

### Math:

- MTH 1301 (Ideas in Math) or MTH 1320\* (Pre-cal) or MTH 1321 (Calculus) or STA 1380. \*Math 1320 is intended only for students who intend to take 1321.

### Lab Science (4 hours in addition to Natural World I and II) Choose one science/lab course from below

\*Credit allowed for only one of these courses.

Area 1	Area 2	Area 3
BIO 1305/1105 Modern Concepts of Bio	*CHE 1300/1100 Intro to Chemistry	ANT 1404
BIO 1306/1106 Modern Concepts of Bio II	*CHE 1301/1101 Basic Prin of Mod Chem I	ENV 1301/1101 Exploring Env Issues
BIO 1401 General Biology	CHE 1302/1102/Basic Prin of Mod Chem II	ENV 1303/1103 Wildlife Ecology
BIO 1403 Exploring the Living World	*CHE 1405 Chemistry in Society	Or any other lab science including:
*GEO 1401 Earthquakes & Other Disasters	CHE 1341/1146 Intro to Organic Biochemistry	BIO, CHE, GEO, PHY, and FAS 1407
GEO 1402 World Oceans		
*GEO 1403 Environmental Geology	PHY 1404 Light, Vision, and Optics	
*GEO 1405 The Dynamic Earth	PHY 1405 General Physics for BA Students	
GEO 1406 Earth Through Time	PHY 1407 Sound and Acoustics	
GEO 1408 Earth Science	PHY 1408 Gen Physics-Natural & Behav Sci	
	PHY 1420 General Physics I	
NSC 1306/1106 Intro to Neuroscience	PHY 1455 Descriptive Astronomy	

### 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.

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 1320 (Pre-Calculus) or MTH 1321 (Calculus)