

**Bachelor of Science in Biology - Science Education 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	_____	4 CHE 1301/1101 Chemistry I
_____	3-4 MTH 1320 (if needed) or GEO 1406	_____	3 MTH 1321 Calculus
_____	4 <b>BIO 1305/1105 or 1405</b> (see below - Pre-Biology)	_____	4 <b>BIO 1306/1106 or 1406</b> (see below - Pre-Biology)
Total:	38-39	Total:	17

**S u m m e r**

First		Second	
_____	4 PHY 1408/1420 Physics I	_____	4 PHY 1409/1430 Physics II
Total:	4	Total:	4

**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
_____	3-4 Foreign Language - 1401/1412 (see reverse)	_____	3-4 Foreign Language - 1402/2310 (see reverse)
_____	3 STA 2381 or MTH 1322	_____	3 <b>TED 2340 Teaching in Secondary Sch.</b>
_____	4 CHE 1302/1102 Chemistry II	_____	1 <b>TED 1112 Instructional Tech Lab</b>
_____		_____	4 <b>BIO 2306/2106 Genetics</b>
Total:	16-17	Total:	17-18

**S u m m e r**

First		Second	
_____	3 CHE 3331 Organic Chemistry I	_____	3 CHE 3332 Organic Chemistry II
_____		_____	2 CHE 3238 Organic Chemistry Lab
Total:	3	Total:	5

**J u n i o r Y e a r**

Fall		Spring	
_____	3 Foreign Language - 2310 (see reverse)	_____	3 Foreign Language - 2320 (see reverse)
_____	1 Lifetime Fitness	_____	3 BIC 3358 Biblical Heritage/Ethics
_____	4 <b>BIO Elective - Group 1</b> (see below)	_____	1 Lifetime Fitness
_____	3 <b>TED 3340 Teaching Assoc. Sec. I</b>	_____	4 <b>BIO Elective - Group 2</b> (see below)
_____	3 <b>TED 3387 Secondary Sci. Practicum</b>	_____	3 <b>TED 3341 Teaching Assoc. Sec. II</b>
_____		_____	3 <b>TED 3388 Secondary Sci Practicum II</b>
Total:	14	Total:	17

**S u m m e r**

First		Second	
_____	3 <b>BIO 4333 Science Leadership</b> (alt fall)	_____	4 GEO 1408 or PHY 1455

**S e n i o r Y e a r**

Fall		Spring	
_____	4 <b>BIO Elective - Group 3</b> (see below)	_____	0 <b>BIO 4001 Exit examination</b>
_____	4 <b>BIO Elective</b> (see below)	_____	3 <b>TED 4325 (Teaching Secondary Science)</b>
_____	1 <b>BIO 3V90</b>	_____	6 <b>TED 4640 (Internship Sec Ed I)</b>
_____	4 GEO 1406 (sometimes not offered in fall)	_____	6 <b>TED 4641 (Internship Sec Ed II)</b>
Total:	13	Total:	15

*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 interested in science education and certification to teach secondary science. This plan will require summer school in order to keep the class load reasonable.
- 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.
- Secondary Education Science Minor requirements: Students will declare the minor through the advising office of the School of Education (SOE). The SOE will advise for the courses in the minor. The CASA office will advise for the major in Biology. This minor will require the completion of 24 hours in teacher education courses. The minimum GPA required to remain in the minor are: 2.6 overall; 2.6 Biology; 2.6 Teacher Education. Other requirements for recommendation for certification include: acceptable scores on the Texas Examination of Educators Standards (TExES) for both teaching area (science) and Pedagogy and Professional Responsibilities.
- Students will complete an internship during the spring of their senior year. Another option is to complete the internship during the fall of a 5th year if necessary.
- 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 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.
- Group 1 - Field Courses: BIO 3303/3103, 3324/3124, 4405, 4406, 4414, 4418, 4422, 4427, 4428
- Group 2 - Morphology Courses: BIO 3324/3124, 3425, 3429, 4414, 4416, 4308/4108, 4426
- Group 3 - Physiology/Molecular Courses: BIO 3422, 4307/4107, 4417, 4306/4106, 4431
- 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.