# Bachelor of Science in Biology - Science Education Concentration

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

## Freshman Year

**Fall**  | **Spring**  
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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) or GEO 1406 | 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

## Summer

**First**  | **Second**  
--- | ---  
3 ENG 2301 or ENG 2304/2306/GTX | 1 Human Performance  
**Total:** 4 | **Total:** 0

## Sophomore Year

**Fall**  | **Spring**  
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3 STA 2381 or MTH 1322 | 3 ENG 2301 or ENG 2304/2306/GTX  
4 CHE 1301/1101 | 4 CHE 1302/1102  
4 PHY 1408/1420 | 4 PHY 1409/1430  
3 Foreign Language - 2310 (see reverse) | 3 Foreign Language - 2320 (see reverse)  
4 BIO 2306/2106 | 3 TED 2340  
**Total:** 18 | **Total:** 17

## Summer

**First**  | **Second**  
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3 History/Social Science (see reverse) | 3 History/Social Science (see reverse)  
1 Human Performance |  
**Total:** 4 | **Total:** 3

## Junior Year

**Fall**  | **Spring**  
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3 PSC 2302 | 3 CHE 3332  
3 CHE 3331 | 2 CHE 3238  
4 BIO Elective - Group 1 (see below) | 1 Human Performance  
3 TED 3349 | 4 BIO Elective - Group 2 (see below)  
3 TED 3387 | 3 TED 3341  
3 TED 3388 | 3 TED 3388  
**Total:** 16 | **Total:** 16

## Senior Year

**Fall**  | **Spring**  
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4 BIO Elective - Group 3 (see below) | 3 BIO 4333  
4 BIO Elective (see below) | 4 BIO 4001  
4 GEO 1408 or PHY 1455 | 3 TED 4325 (Teaching Secondary Science)  
4 GEO 1406 (sometimes not offered in fall) | 6 TED 4690 (Internship)  
1 Human Performance |  
**Total:** 17 | **Total:** 16

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.
- **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. The Biology Department suggests BIO 1305, 1306, or their equivalents for all Biology majors.

### Required courses:

**Group 1 - Field Courses:** BIO 3303/3103, 3243/3124, 4405, 4406, 4414, 4418, 5522, 4247, 4428  
**Group 2 - Morphology Courses:** BIO 3324/3124, 3425, 3429, 4414, 4418, 4306/4106, 4428, 4431  
**Group 3 - Physiology/Molecular Courses:** BIO 3422, 4307/4107, 4417, 4306/4106, 4431  
**BIO Electives:** Choose 4 hours of electives. A minimum of 3 hours of Individual Topics may be used for elective credit. The Biology Department suggestions BIO 4305, 4366, or one 3V90.

- **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.

*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).