

Bachelor of Science in Biology - Tropical Disease 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	_____ 3 MTH 1321 Calculus I
_____ 4 CHE 1301/1101 Chemistry I	_____ 4 CHE 1302/1102 Chemistry II
_____ 4 BIO 1305/1105 or 1405 (see below-Pre-Biolog	_____ 4 BIO 1306/1106 or 1406 (see below-Pre-Biolog
Total: 17	Total: 17

S o p h o m o r e Y e a r

Fall	Spring
_____ 3 BIC 2330 Social World I	_____ 3 BIC 2344 World Cultures IV
_____ 3 BIC 2334 World Cultures III	_____ 3 CHE 3332 Organic Chemistry II
_____ 3 CHE 3331 Organic Chemistry I	_____ 2 CHE 3238 Organic Chemistry Lab
_____ 3 BIO 2306/2106 Genetics	_____ 3 STA 2381 Statistical Methods
_____ 3 BIO 3303 Ecology	_____ 3-4 BIO Elective (see below)
Total: 16	Total: 14-15

J u n i o r Y e a r

Fall	Spring
_____ 3-4 Foreign Language - 1301/1401	_____ 3-4 Foreign Language - 1302/1402
_____ 4 PHY 1408/1420 Physics I	_____ 3 BIC 2340 Social World II
_____ 3-4 BIO Elective (see below)	_____ 4 BIO 4354 Neglected Tropical Diseases
_____ 4 BIO 4401 General Microbiology	_____ 3 Elective (as needed)
Total: 14-16	Total: 13-14

S u m m e r

First	Second
_____ 4 Summer Internship-Practical Experience-- Houston National School of Tropical	

S e n i o r Y e a r

Fall	Spring
_____ 3 Foreign Language - 2310 (see reverse)	_____ 3 Foreign Language - 2320 (see reverse)
_____ 4 BIO 4323-4123 Parasitology	_____ 3 BIO 4304/4104 Medical Entomology
_____ 4 PHY 1409/1430 Physics II	_____ 0 BIO 4001 Exit Examination
_____ 3 BIC 3358 Biblical Heritage/Ethics	_____ 3 ANT 4330, 4325, ENV 3314 or PUBH 3351, 4:
_____ 1 Lifetime Fitness	_____ 1 Lifetime Fitness
	_____ 3 Elective (as needed)
Total: 15	Total: 13

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 an interest in tropical disease, their etiology, and their control. It is appropriate for students considering careers in tropical medicine, epidemiology, parasitology, microbiology, global health, public health, or other biomedical-related careers.

Students wishing to pursue the B.S. in Biology with concentration in Tropical Disease Biology must apply to admission to this program in writing to the Director of Tropical Disease Biology program. To be eligible to apply, a student must have satisfied each of the requirements to advance in the major and select a concentration. Further, the student must have completed a minimum of 24 credit hours in residence at Baylor to declare the concentration in Tropical Disease Biology. The application process is initiated annually at the completion of the spring semester; students are notified of their admission prior to the beginning of the subsequent fall semester. Admission is competitive and achievement of minimum standards does not guarantee acceptance to the major. Admission to the program requires at a minimum:

1. An overall GPA of 3.5 on a 4.0 scale.
2. A written application demonstrating a commitment to understanding the biology of tropical diseases, their etiology, and control.
3. Two letters of recommendation from academic or professional mentors.

Tropical Disease Biology students must maintain a minimum cumulative of 3.0 GPA through their junior-level courses (including BIO 2306/1106) and earn no grade lower than "C" in any Biology course.

- BIO 1305/1105 or 1405; and 1306/1106 or 1406, all with grades of "C" or better, are prerequisites for all "2000" and above level courses in Biology (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 do not satisfy the minimum hours for a biology major. A maximum of 3 semester hours in Individual Topics (1V90, 3V90, 5V90) may be applied toward a major or minor in biology.

- BIO Electives -- Choose at least one course from each group:

BIO 3342, 3422, 4307 or 4431

BIO 4301, 4365, 4366, 4306-4106, 4350

- Students are required to have an approved tropical disease biology practical experience.

- 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.

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