

# BAYLOR BOUND MAJOR ACADEMIC PLANNER

## Bachelor of Science in Biology - Ecology Concentration

*A Suggested Sequence of Required Courses for a Mclellan transfer student (2017-2018 Catalog)*

Freshman Year							
Fall				Spring			
MCLENNAN	BU	Title	Hours	MCLENNAN	BU	Title	Hours
	CHA 1088	Chapel	0		CHA 1088	Chapel	0
ENGL 1301	ENG 1302	Thinking and Writing	3	ENGL 1302	ENG 1304	Thinking, Writing, and Research	3
PHIL 1316	REL 1310	Christian Scriptures	3	PHIL 1317	REL 1350	Christian Heritage	3
See Reverse		Math	3	MATH 2413	MTH 1321	Calculus I	3
See Reverse		Foreign Language	4	See Reverse		Foreign Language	4
BIOL 1406	BIO 1305-1105	Modern Concepts of Bioscience I with Lab	4	BIOL 1407	BIO 1306-1106	Modern Concepts of Bioscience II with Lab	4
			17				17
Sophomore Year							
Fall				Spring			
MCLENNAN	BU	Title	Hours	MCLENNAN	BU	Title	Hours
ENGL 2321 or 2322	ENG 2301	British Literature	3	ENGL 2326,2327,2328 or 2331,2332,2333	ENG 2304 or 2306	American or World Literature	3
MATH 2414	MTH 1322 or STA 2381	Calculus II or Introductory Statistical Methods	3	See Reverse		History/Social Science	3
CHEM 1411	CHE 1301-1101	Basic Principles of Modern Chemistry I with Lab	4	CHEM 1412	CHE 1302-1102	Basic Principles of Mod Chemistry II with Lab	4
See Reverse		Foreign Language	3	See Reverse		Foreign Language	3
See Reverse		Lifetime Fitness	1	See Reverse		Lifetime Fitness	1
	BIO 2306	Genetics	3		See Below	Biology Elective	4
			17				18
Junior Year							
Fall				Spring			
MCLENNAN	BU	Title	Hours	MCLENNAN	BU	Title	Hours
See Reverse	PSC 2302	American Constitutional Development	3	See Reverse		Lifetime Fitness	1
	See Below	Chemistry Elective	4	ENVR 1301 or 1302	ENV 1301, 2376, or 4355	Exploring Env Issues, Env & Society, or Princ of Renewable Resource Mgt	3
	PHY 1408 or 1420	General Physics I	4	PHYS 1402	PHY 1409 or 1430	General Physics II	4
See Reverse		Lifetime Fitness	1		CHE 3332-3238 See Below	Organic Chemistry II with Lab	5
	BIO 3422, 4417, or 4431	Human Physiology, Plant Physiology, or Comparative Vertebrate Physiology	4		BIO 3303-3103	Ecology with Lab	4
			16				17
Summer							
First				Second			
MCLENNAN	BU	Title	Hours	MCLENNAN	BU	Title	Hours
	See Below	Ecology Field Station	4				0
			4				0
Senior Year							
Fall				Spring			
MCLENNAN	BU	Title	Hours	MCLENNAN	BU	Title	Hours
	BIO 3324-3124, 4323-4123, 4406, 4414, 4418, 4422, 4427 or 4428	Entomology, Parasitology, Aquatic Biology, Taxonomy of Flowering Plants, Biology of Wetlands & Aquatic Vascular Plants, or Ichthyology	4		BIO 4366	Foundations of Evolutionary Biology	3
	See Below	Biology Elective	4		BIO 4001	Achievement Test	0
GEOL 1403 or 1404	GEO 1405 or 1406	The Dynamic Earth or Earth through Time	4		See Below	Biology Elective	4
		Advanced Elective	3	See Reverse		History/Social Science	3
			3			Advanced Elective	3
			3			Elective	3
			15				16

### 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. A separate requirement is in place for students who wish to declare a prehealth care concentration (BA or BS plan) in Biology. In addition to the basic requirements above, these students must earn grades of B- or better in either BIO 1305 or 1405 and in either BIO 1306 or 1406 on their first attempt at the course. Students who transfer to Baylor with credit on record for BIO 1305-1105 or 1405 and BIO 1306-1106 or 1406 will be eligible to declare Biology as a major upon initial enrollment at Baylor provided that minimum grade requirements are met as outlined above. Students who earn a score of 5 on the AP examination in Biology will be eligible to declare Biology (all concentrations) as a major upon enrollment. Students may only remain in the pre-biology designation until completion of 90 hours. Students who have not met the admission requirement at 90 hours will not advance to the biology major and must change degree programs.

- 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 11 hours can be chosen from BIO 3300, 3340, 4310, 4365, 4381, 4386, 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 majoring in the sciences may take ENG 3300 instead of ENG 1304.

- For more information, see the Baylor 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.**

**BACHELOR OF SCIENCE (BS) DEGREE CHECKLIST  
(2017-2018 BAYLOR UNDERGRADUATE CATALOG)**

MCLENNAN COURSE	BAYLOR COURSE	BAYLOR TITLE
<b>ENGLISH:</b>		
ENGL 1301	ENG 1302	Thinking and Writing
ENGL 1302	ENG 1304	Thinking, Writing & Research
ENGL 2321 or 2322	ENG 2301	British Literature
ENGL 2326, 2327, 2328	ENG 2304	American Literature
ENGL 2331, 2332, 2333	ENG 2306	World Literature

<b>HISTORY/SOCIAL SCIENCE:</b>		
ANTH 2346	ANT 1305	Introduction to Anthropology
	ANT 3301	Science, Society, and Culture
ECON 1301	ECO 1305	Survey of Eco. Princ. For Non-bus. Majors
ECON 2302	ECO 2306	Principles of Microeconomics
ECON 2301	ECO 2307	Principles of Macroeconomics
GEOG 1300	GEOG 1300	World Geography
HIST 2321	HIS 1305	World History to 1500
HIST 2322	HIS 1307	World History since 1500
HIST 1301	HIS 2365	History of the U.S. to 1877
HIST 1302	HIS 2366	History of the U.S. since 1877
PHIL 2303	PHI 1306	Logic
PHIL 2374	PHI 1307	Critical Thinking
PHIL 2306	PHI 1308	Introduction to Ethics
PHIL 1301	PHI 1321	Introduction to Philosophy
	PHI 3301	Moral Philosophy
	PHI 3310	History of Philosophy: Classical
	PHI 3312	History of Philosophy: Modern Europe
GOVT 2305	PSC 1305	American National Government
GOVT 2306	PSC 1306	American State & Local Government
PSYC 2301	PSY 1305	Introductory Psychology
SOCI 1301	SOC 1305	Introduction to Sociology

<b>POLITICAL SCIENCE:</b>		
GOVT 2305 AND 2306	PSC 2302	American Constitutional Development
(Note: Both GOVT 2305 and 2306 must be complete before coming to Baylor to receive credit for PSC 2302. This course may not be transferred from another school after the student has earned hours at Baylor.)		

**LIFETIME FITNESS: Four activity courses are required**

MCLENNAN COURSE	BAYLOR COURSE	BAYLOR TITLE
<b>SCIENCE:</b>		
BIOL 1406	BIO 1305-1105	Modern Concepts of Bioscience
BIOL 1407	BIO 1306-1106	Modern Concepts of Bioscience, Continued
GEO 1403	GEO 1405	The Dynamic Earth
GEO 1404	GEO 1406	Earth Through Time
	NSC 1306-1106	Introduction to Neuroscience
CHEM 1411	CHE 1301-1101	Basic Principles of Chemistry I
CHEM 1412	CHE 1302-1102	Basic Principles of Chemistry II
	PHY 1408	Gen. Physics for Nat. & Behavioral Sci.I
PHYS 1402	PHY 1409	Gen. Physics for Nat. & Behavioral Sci.II
	PHY 1420	General Physics I
	PHY 1430	General Physics II
ENVR 1301-1101 or 1302-1102	ENV 1301-1101	Exploring Environmental Issues and lab
	ENV 1303-1103	Wildlife Ecology and lab

<b>MATH:</b>		
MATH 2412	MTH 1320	Pre-Calculus
MATH 2413	MTH 1321	Calculus I
MATH 2414	MTH 1322	Calculus II

**FOREIGN LANGUAGE: To be fulfilled with one of the following options:**  
 A. Complete ONE Modern or Classical language through the 2320 level OR  
 B. Complete TWO Classical languages through the 1302 or 1402 level.

Two languages from Latin, Greek, and Hebrew may be used. (It is strongly recommended that the language requirement be started during the first year of residence work. Chemistry, Biochemistry, and Mathematics majors are required to take a modern foreign language.)

FREN 1411	FRE 1401	Elementary French I
FREN 1412	FRE 1402	Elementary French II
FREN 2311	FRE 2310	Intermediate French I
FREN 2312	FRE 2320	Intermediate French II
SPAN 1411	SPA 1401	Elementary Spanish I
SPAN 1412	SPA 1402	Elementary Spanish II
SPAN 2311	SPA 2310	Intermediate Spanish I
SPAN 2312	SPA 2320	Intermediate Spanish II
GERM 1411	GER 1401	Elementary German I
GERM 1412	GER 1402	Elementary German II
GERM 2311	GER 2310	Intermediate German I

<b>Taught at Baylor; no equivalent course at Mclellan</b>		
Modern Languages:		Classical Languages:
Arabic (ARB)	Korean (KOR)	Latin(LAT)
Chinese (CHI)	Portuguese (POR)	Greek (GKC)
Italian (ITA)	Russian (RUS)	Hebrew (HEB)
Japanese (JPN)	Swahili (SWA)	