

BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Biology - Science Education Concentration

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

Freshman Year							
Fall				Spring			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
	CHA 1088	Chapel	0		CHA 1088	Chapel	0
ENGL 1301	ENG 1302	Thinking and Writing	3		ENG 1304	Thinking, Writing, and Research	3
See Reverse		Math	3	MATH 2413	MTH 1321	Calculus I	3
See Reverse		Foreign Language	4	See Reverse		Foreign Language	4
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
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
			18				18
Summer							
First				Second			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
ENGL 2322	ENG 2301	British Literature	3				
See Reverse		Lifetime Fitness	1				
			4				0
Sophomore Year							
Fall				Spring			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
MATH 2414	MTH 1322 or STA 2381	Calculus II or Introductory Statistics	3	See Reverse		History/Social Science	3
	REL 1310	Christian Scriptures	3		REL 1350	Christian Heritage	3
	PHY 1408 or 1420	General Physics I	4	PHYS 1402	PHY 1409 or 1430	General Physics II	4
See Reverse		Foreign Language	3	See Reverse		Foreign Language	3
	BIO 2306-2106	Genetics with Lab	4		TED 2340	Teaching in Secondary Schools	3
			17				16
Summer							
First				Second			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
See Reverse		History/Social Science	3	See Reverse		History/Social Science	3
See Reverse		Lifetime Fitness	1				
			4				3
Junior Year							
Fall				Spring			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
See Reverse	PSC 2302	American Constitutional Development	3	CHEM 2425	CHE 3332**	Organic Chemistry II	3
CHEM 2323	CHE 3331**	Organic Chemistry I	3		CHE 3238	Organic Chemistry Lab	2
	See Below	Biology Elective - Group 1	4	See Reverse		Lifetime Fitness	1
	TED 3340	Teaching Associate Secondary Part I	3			Biology Elective - Group 2	4
	TED 3387	Secondary Science Practicum I	3		TED 3341	Teaching Associate Secondary Part II	3
			16		TED 3388	Secondary Science Practicum II	3
							16
Summer							
First				Second			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
	BIO 4333	Parasitology	3				
			3				
Senior Year							
Fall				Spring			
TYLER	BU	Title	Hours	TYLER	BU	Title	Hours
	See Below	Biology Elective - Group 3	4		TED 4325	Teaching Science in the Secondary School	3
	See Below	Biology Elective	4		TED 4642	Internship Secondary Part I	6
GEO 1401 or PHYS 1403 and 1404	GEO 1408 or PHY 1455	Earth Science or Descriptive Astronomy	4		TED 4643	Internship Secondary Part II	6
GEO 1404	GEO 1406	Earth through Time	4				
See Reverse		Lifetime Fitness	1				
			17				15

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. 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.

- 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. Another option is to complete the internship during the fall of a 5th year if necessary.

- 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.

- Group 1 - Field Courses: BIO 3303/3103, 3324/3124, 4405, 4406, 4414, 4418, 5522, 4427, 4428

- Group 2 - Morphology Courses: BIO 3324/3124, 3425, 3429, 4414, 4416, 4308/4108, 4426, 4431

- Group 3 - Physiology/Molecular Courses: BIO 3422, 4307/4107, 4417, 4306/4106, 4431

- BIO Electives: Choose 4 hours of electives. A maximum of 3 hours of Individual Topics may be used for elective credit. The Biology Department suggestions BIO 4365, 4366, or one 3V90.

- English requirement: Students majoring in the sciences may take ENG 3300 instead of ENG 1304.

- For more information, see the Baylor Undergraduate Catalog.

*Students will do internship in either Fall (TED 4640/4641) or Spring (TED 4642/4643) of senior year with TED 4325

**CHEM 2423 and 2425 will count as CHE 2T01 and 2T02 organic chemistry I and II but will not count as advanced course work.

Please see reverse side for important information on general requirements.

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

SOUTH TEXAS COURSE	BAYLOR COURSE	BAYLOR TITLE
ENGLISH:		
ENGL 1301	ENG 1302	Thinking and Writing
	ENG 1304	Thinking, Writing & Research
ENGL 2322	ENG 2301	British Literature
ENGL 2327 or 2328	ENG 2304	American Literature
ENGL 2332 or 2333	ENG 2306	World Literature

HISTORY/SOCIAL SCIENCE:		
	ANT 1305	Introduction to Anthropology
	ANT 3301	Science, Society, and Culture
	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 1303	GEOG 1300	World Geography
	HIS 1305	World History to 1500
	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
	PHI 1306	Logic
	PHI 1307	Critical Thinking
PHIL 2306	PHI 1308	Introduction to Ethics
	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

POLITICAL SCIENCE:		
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

SOUTH TEXAS COURSE	BAYLOR COURSE	BAYLOR TITLE
SCIENCE:		
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
	ENV 1301-1101	Exploring Environmental Issues and lab
	ENV 1303-1103	Wildlife Ecology and lab

MATH:		
	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
JAPN 1411	JPN 1401	Introductory Japanese
JAPN 1412	JPN 1402	Elementary Japanese
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

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