

BAYLOR BOUND MAJOR ACADEMIC PLANNER

Bachelor of Science in Physics - Pre-Health Care Concentration

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

Freshman Year							
Fall				Spring			
COLLIN	BU	Title	Hours	COLLIN	BU	Title	Hours
	CHA 1088	Chapel	0		CHA 1088	Chapel	0
See Reverse		Foreign Language	4	See Reverse		Foreign Language	4
See Reverse		Lifetime Fitness	1	ENGL 1301	ENG 1302	Thinking and Writing	3
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
MATH 2413	MTH 1321	Calculus I	3	MATH 2414	MTH 1322	Calculus II	3
	PHY 1420	General Physics I	4	PHYS 2426	PHY 1430	General Physics II	4
			16				18
Sophomore Year							
Fall				Spring			
COLLIN	BU	Title	Hours	COLLIN	BU	Title	Hours
See Reverse		Foreign Language	3	See Reverse		Foreign Language	3
CHEM 1411	CHE 1301-1101	Basic Principles of Modern Chemistry I with Lab	4	CHEM 1312	CHE 1302-1102	Basic Principles of Modern Chemistry II with Lab	4
MATH 2318	MTH 2311	Linear Algebra	3		CSI 1430	Intro to Computer Science I w/Lab	4
	MTH 2321	Calculus III	3		MTH 3325	Ordinary Differential Equations	3
	PHY 2135	Basic Electronics Lab	1		PHY 2190	Intro to Research	1
	PHY 2350	Modern Physics	3		PHY 2360	Math and Computational Physics	3
			17				18
Junior Year							
Fall				Spring			
COLLIN	BU	Title	Hours	COLLIN	BU	Title	Hours
	See Below	Upper Level Biology Course	4		ENG 3300	Professional and Technical Writing	3
	MTH 3326	Partial Differential Equations	3	See Reverse		Lifetime Fitness	1
CHEM 2423	CHE 3331**	Organic Chemistry I	3		CHE 3238	Organic Chemistry Lab	2
	PHY 3175	Intermediate Physics Lab I	1		CHE 3332	Organic Chemistry II	3
	PHY 3320	Intermediate Classical Mechanics	3		PHY 3330	Inter. Electricity & Magnetism	3
	PHY 3372	Intro to Quantum Mechanics I	3		PHY 3373	Intro to Quantum Mechanics II	3
			17				15
Senior Year							
Fall				Spring			
COLLIN	BU	Title	Hours	COLLIN	BU	Title	Hours
	PHY 4190	Dissemination of Research Results	1		See Below	Upper Level Biology Course	3
	PHY 4340	Statistical & Thermal Physics	3	See Reverse	PSC 2302	American Constitutional Development	3
	PHY 4001	Exit Exam	0		REL 1350	Christian Heritage	3
	REL 1310	Christian Scriptures	3	ENGL 2327, 2328 or 2332, 2333	ENG 2304 or 2306	American or World Literature	3
ENGL 2322	ENG 2301	British Literature	3	See Reverse		History/Social Science	3
See Reverse		History/Social Science	3	See Reverse		Lifetime Fitness	1
See Reverse		Lifetime Fitness	1				
			14				16

Notes about major requirements:

- This concentration is designed for students with an interest in medicine, dentistry, or other health related professions, and it satisfies the medical/dental preprofessional program requirements.
 - BIO 3000-4000 level electives: Pre-Med/Pre-Dent admissions require that two additional upper-level biology courses be completed beyond the basic 1305-1105 and 1306-1106. CHE 4341 (General Biochemistry) is also recommended.
 - English requirement: It is recommended that science majors take ENG 3300 during their junior year rather than ENG 1304.
 - Prior to taking PHY 4190, students are expected to make substantial progress on a research project. Research typically begins when PHY 2190 is taken in the sophomore year. Students involved in research during their junior year should enroll in PHY 3V95 (Undergraduate Research). In addition, students are strongly encouraged to participate in summer research opportunities.
 - Many required courses are offered only one time each year in either the fall semester or the spring semester.
 - For more information, see the Baylor Undergraduate Catalog.
- **CHEM 2423 will count as CHE 2T01 organic chemistry I 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)**

COLLIN COURSE	BAYLOR COURSE	BAYLOR TITLE
ENGLISH:		
ENGL 1301	ENG 1302	Thinking and Writing
ENGL 1302	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:		
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
	ECO 2306	Principles of Microeconomics
	ECO 2307	Principles of Macroeconomics
GEOG 1303	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
	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 2302 or 2305	PSC 1305	American National Government
GOVT 2301 or 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

COLLIN 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
	PHY 1409	Gen. Physics for Nat. & Behavioral Sci.II
	PHY 1420	General Physics I
PHYS 2426	PHY 1430	General Physics II
ENVR 1401	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.)

ARAB 1411	ARB 1401	Elementary Arabic I
ARAB 1412	ARB 1402	Elementary Arabic II
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
ITAL 1411	ITA 1401	Elementary Italian I
ITAL 1412	ITA 1402	Elementary Italian II
JAPN 1411	JPN 1401	Introductory Japanese
JAPN 1412	JPN 1402	Elementary Japanese

Taught at Baylor; no equivalent course at Collin		
Modern Languages:		Classical Languages:
Chinese (CHI)	Russian (RUS)	Latin (LAT)
Korean (KOR)	Swahili (SWA)	Greek (GKC)
Portuguese (POR)		Hebrew (HEB)