

# BAYLOR BOUND MAJOR ACADEMIC PLANNER

## Bachelor of Science in Applied Mathematics (Differential Equations Option)

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

Freshman Year							
Fall				Spring			
SOUTH TEXAS	BU	Title	Hours	SOUTH TEXAS	BU	Title	Hours
	CHA 1088	Chapel	0		CHA 1088	Chapel	0
ENGL 1301	ENG 1302	Thinking and Writing	3		REL 1310	Christian Scriptures	3
	See Below	Lab Science	4		See Below	Lab Science	4
See Reverse		Foreign Language	4	See Reverse		Foreign Language	4
MATH 2413	MTH 1321	Calculus I	3	MATH 2414	MTH 1322	Calculus II	3
			14				14
Sophomore Year							
Fall				Spring			
SOUTH TEXAS	BU	Title	Hours	SOUTH TEXAS	BU	Title	Hours
ENGL 2321	ENG 2301	British Literature	3	ENGL 2326 or 2331	ENG 2304 or 2306	American or World Literature	3
	REL 1350	Christian Heritage	3	See Reverse		Foreign Language	3
See Reverse		Foreign Language	3		CSI 1440	Intro to Computer Sci II with Lab	4
	CSI 1430	Intro to Computer Science I with Lab	4		MTH 2311	Linear Algebra	3
MATH 2415	MTH 2321	Calculus III	3		MTH 3325	Ordinary Differential Equations	3
			16				16
Junior Year							
Fall				Spring			
SOUTH TEXAS	BU	Title	Hours	SOUTH TEXAS	BU	Title	Hours
	ENG 3300	Professional & Technical Writing	3	See Reverse		History/Social Science	3
See Reverse		History/Social Science	3	See Reverse		Lifetime Fitness	1
See Reverse	PSC 2302	American Constitutional Development	3			Advanced Elective*	3
See Reverse		Lifetime Fitness	1			Elective*	3
	MTH 3300	Foundations of Mathematics	3		STA 3381	Probability and Statistics	3
	MTH 3326	Partial Differential Equations	3		See Below	Math Advanced Elective	3
			16				16
Senior Year							
Fall				Spring			
SOUTH TEXAS	BU	Title	Hours	SOUTH TEXAS	BU	Title	Hours
	MTH 4329	Theory of Funct of Complex Variable	3		See Below	Math Advanced Elective	3
	See Below	Math Elective	3		See Below	Math Advanced Elective	3
See Reverse		Lifetime Fitness	1	See Reverse		Lifetime Fitness	1
		Advanced Elective*	3			Advanced Elective*	3
		Elective*	3			Elective*	3
		Elective*	3			Elective*	3
			16				16

**Notes about major requirements:**

- MTH Electives: choose one from the following options based on semester availability - MTH 3312, 3323, 4314, or 4326
- MTH Advanced Electives: An additional nine semester hours of mathematics courses at the "3000" level or above are required.
- At least nine hours of the MTH Electives or MTH Advanced Electives must be at the "4000" level.
- English requirement: It is recommended that science majors take ENG 3300 their junior year rather than ENG 1304.
- Complete 8 hours of science with appropriate labs: BIO 1305/1105, 1306/1106, CHE 1301/1101, 1302/1102, ENV 1301/1101, NSC 1306/1106, PHY 1420, 1430 or GEO 1406. Only one from: GEO 1401, 1402, 1403, 1405, 1408.
- A grade of "C" or better must be earned in all 39 hours of math.
- For more information, see the Baylor Undergraduate Catalog.

\*Because of the number of electives, there is enough room for a minor with this major.

**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
<b>ENGLISH:</b>		
ENGL 1301	ENG 1302	Thinking and Writing
ENGL 1302	ENG 1304	Thinking, Writing & Research
ENGL 2321	ENG 2301	British Literature
ENGL 2326	ENG 2304	American Literature
ENGL 2331	ENG 2306	World Literature

<b>HISTORY/SOCIAL SCIENCE:</b>		
ANTH 2346	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
	ECO 2307	Principles of Macroeconomics
	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 2307	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

<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**

SOUTH TEXAS 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
GEOL 1403	GEO 1405	The Dynamic Earth
GEOL 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
PHYS 2425	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

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

<b>FOREIGN LANGUAGE: To be fulfilled with one of the following options:</b>		
A. Complete ONE Modern or Classical language through the 2320 level <b>OR</b>		
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.)		
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

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