



**LSC AAS in Biotechnology
to Sam Houston State University
Bachelor of Applied Arts and Sciences Concentration
in Biotechnology**



4 – Year Suggested Academic Plan for Transfer, 2025-2026 Catalog Year							
It is important to satisfy all prerequisite and/or corequisite requirements prior to registering for certain courses							
First Year - Freshman							
Fall Semester				Spring Semester			
LSC	SHSU	Course Name	Hrs	LSC	SHSU	Course Name	Hrs
EDUC 1300 or any ACGM (1)	Core 090 (1)	Learning Framework: 1st Year Experience or any ACGM course	3	SCIT 1313*	Block Credit	Workplace Microbiology	3
BIOL 1414*	Block Credit	Introduction to Biotechnology	4	CHEM 1411 (2)	CHEM 1411	General Chemistry I	4
MATH 1314	MATH 1314	College Algebra	3	Soc. Beh. Sci.	Core 080	Choose from LSC Core Curriculum	3
BITC 1240*	Block Credit	Quality Assurance for the Biosciences	2	ENGL 1301	ENGL 1301	Composition & Rhetoric I	3
Creative Arts	Core 050	Choose from LSC Core Curriculum	3	BITC 1250*	Block Credit	Special Studies & Bioethical Issues of Biotech.	2
Total			15				15
Second Year - Sophomore							
Fall Semester				Spring Semester			
LSC	SHSU	Course Name	Hrs	LSC	SHSU	Course Name	Hrs
BIOL 1415*	Block Credit	Introduction to Biotechnology II	4	BITC 2431*	Block Credit	Cell Culture Techniques	4
BITC 2411*	Block Credit	Biotechnology Laboratory Instrumentation	4	BITC Option*	Block Credit	Choose from BITC 2445 or BITC 2475	4
BITC 2350*	Block Credit	Bioinformatics	3	BITC 2377*	Block Credit	Capstone: Product Development to Commercialization	3
CHEM 1412 (2)	CHEM 1412	General Chemistry II	4	BITC 2441*	Block Credit	Molecular Biology Techniques	4
Total			15	Total			15
Lone Star College total credit hours: 60							
Third Year - Junior							
SHSU			Hrs	SHSU			Hrs
ENGL 1302	Composition II		3	Adv. BIOL (3)	Advanced BIOL Electives		4
BIOL 2440	Introductory Cell Biology		4	BIOL 3450	Introductory Genetics		4
HSTY 1301	U.S. History to 1876		3	BIOL 3470	General Microbiology		4
Core 040	Core Curriculum 040: Language, Philosophy, and Culture		3	CHEM 2323	Organic Chemistry I: Lecture		3
Adv. BIOL (3)	Advanced BIOL Electives		4	CHEM 2123	Organic Chemistry I: Lab		1
Total			17	Total			16
Fourth Year - Senior							
SHSU			Hrs	SHSU			Hrs
POLS 2305	American Government		3	POLS 2306	Texas Government		3
Adv. BIOL (3)	Advanced BIOL Electives		4	Adv. BIOL (3)	Advanced BIOL Electives		8
BIOL 4110 or BIOL 4111	Undergraduate Seminar		1	BIOL 4480	Molecular Genetics		4
BIOL 4381	Advanced Molecular Biology		3	Core 090 (1)	Core Curriculum 090: Comp. Area Option (unless prev. at LSC)		1
HSTY 1302	U.S. History Since 1876		3				
Total			14	Total			16
Sam Houston State University total credit hours: 63							

- Notes:**
- (1) EDUC 1300 is required for First Time in College (FTIC) students only and fulfills LSC and SHSU's core 090 requirement. If not FTIC, students may complete any ACGM course, but are encouraged to choose a course from the core 090 options. Consult Advisor for course selection.
 - (2) CHEM 1411 and CHEM 1412 are required for transfer into the BAAS degree. Note: MATH 1314 and CHEM 1405 are prerequisites for CHEM 1411. Please consult your advisor for more information.
 - (3) Advanced BIOL Electives - Select five (5) courses from the Advanced BIOL Electives course listing found here.

AAS degree requirements: Students must complete the following with a "C" or better to qualify for the capstone/internship course: all BITC courses required in the program; BIOL 1415 - Introduction to Biotechnology II; CHEM 1412 - General Chemistry II (if taken), and SCIT 1313 - Workplace Microbiology.

***36 hours of workforce classes will transfer in-block to Sam Houston State University. (BIOL 1414 and 1415 are ACGM courses at LSC but will transfer as Block Credit to SHSU)**



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Sam Houston State University Transfer Information

Program Specific Information:

Bachelor of Applied Arts and Sciences: Biotechnology Concentration

- Students must earn a 2.0 minimum overall GPA in all coursework.
- 36 semester hours of advanced coursework (3000 or 4000 level) are the absolute minimum. Minimum number of semester hours in residence: 30 semester hours, of which 24 must be advanced.
- Additional information: Reference the [Program Landing Page](#) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Transfer of Credit & Student Benefits:

- Reverse transfer of credit.
- [Be A Bearkat - Transfer \(shsu.edu\)](#)
- Bearkat Transfer Scholarship available to full-time students:
 - Please refer to <https://www.shsu.edu/cost-aid/types-of-aid/scholarships> for Transfer Scholarship Conditions and Renewal Scholarship Conditions
- LSC Honors students admitted to SHSU:
 - will be accepted to SHSU's Honors College. Students must have a minimum GPA of 3.25 and satisfy other Honors College admission criteria (such as full-time enrollment of at least 12 hours)
 - may transfer up to 12 hours of LSC Honors credits
 - will be eligible for additional scholarships
 - may develop their LSC Honors thesis (if completed) into an SHSU Honors thesis (and thereby graduate "with Highest Honors")
 - will be eligible, if space permits, to live in SHSU's dorms

