

**Major/Degree: Biology BS: Microbiology Concentration**

**This major requires 75 units. A total of 120 units are required for a bachelor's degree.**

Major Academic Plans (MAP) show a general recommended pathway to graduation. Meet with your major advisor each semester to discuss your progress and degree plan for future semesters. Consult the HSU catalog for complete list of major program courses. See the current schedule of classes for courses offered in General Education, American Institutions, and Diversity & Common Ground requirements.

**Academic Year: 2020-21**

**Freshman Year**

Fall (semester 1)			Spring (semester 2)		
Description	Course	Units	Description	Course	Units
LD GE E	SCI 100	3	LD GE A1 or A2 [1]	ENGL 104 (+opt. ENGL 110) or COMM 100	3-4
LD GE B: Math [1]	MATH 102	4	LD GE A3 [1]		3
LD GE B: Life Forms & Physical Univ	Major: BOT 105 or & Major: CHEM 109	4	Major	MATH 105 or MATH 109	3-4
LD GE D & DCG-d	NAS 104	3	LD GE B: Phys. Univ.; Major	CHEM 109 or	5
			LD GE B: Life Forms; Major	BOT 105 or	4
			Major [Core]	CHEM 110 (if CHEM 109 taken previous fall)	5
Semester Total: 14-15			Semester Total: 14-16		

**Sophomore Year**

Fall (semester 3)			Spring (semester 4)		
Description	Course	Units	Description	Course	Units
LD GE A1 or A2 [1]	ENGL 104 (+opt. ENGL 110) or COMM 100	3-4	American Institutions		3
LD GE C1 or C2 [4]		3	LD GE C1 or C2		3
LD GE B: Life; Major	BIOL 105	4	Major [Core]	ZOOL 110	4
Major [Core]	CHEM 110 or BOT 105	0-5 0-4	Major	STAT 109	4
Semester Total: 14-16			Semester Total: 14		

**Junior Year**

Fall (semester 5)			Spring (semester 6)		
To Do: Apply to graduate.			To Do: Take the GWPE.		
Description	Course	Units	Description	Course	Units
American Institutions		3	DCG [4]	Only if DCG was not fulfilled by taking a double c	0-3
LD GE C1 or C2		3	UD GE C or D [4]		3
LD GE D [4]		3	Major	PHYX 106	4
Major [Core]	BIOL 340	4	Major [Concentration]	BIOL 330	4
Major [Concentration]	CHEM 228	4	Major [Concentration]	BIOL 412	4
Semester Total: 17			Semester Total: 15-18		

**Senior Year**

Fall (semester 7)			Spring (semester 8)		
			To Do: Register for commencement.		
Description	Course	Units	Description	Course	Units
UD GE B	Evolution	4	UD GE C or D		3
Major [Concentration]	BIOL 418 or BIOL 433/433D	3-4	Major [Concentration]	UD Restricted Elective [6,7]	3
Major [Concentration]	UD Restricted Elective [6,7]	2-4	Major [Concentration]	BIOL 440 or BIOL 490 or BIOL 499	1-2
Major [Concentration]	PHYX 118 or 107	1/4	Elective		0-4
Elective		0-3			
Semester Total: 10-16			Semester Total: 1-14		

A1=Oral Communication; A2 = Written Communication; A3 = Critical Thinking; C1 = Arts; C2 = Humanities; DCG = Diversity & Common Ground; GE = General Education; LD = Lower Division; UD = Upper Division; See page 2 for notes.

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**Notes**

[1] Requirement: Complete LD GE A1, A2, A3 & B: Math with C- or higher in each course; Complete by 60 units earned.

[2] One American Institution course will also count for LD GE D.

[3] Science Lab Requirement: Take one science course with a lab.

[4] Complete 2 DCG courses, (one must be domestic) with courses that also meet GE. DCG units can be reduced with double count GE/

[5] Credit earned for math support course does not count toward unit requirements for graduation, GE, or major.

[6] Select major elective in consultation with major advisor.

[7] Take six units of the following: CHEM 438, BIOL 350, BIOL 440 (if not already taken), BIOL 450, BIOL 564, BOT 356, BOT 358 or upper division Statistics courses with the approval of your advisor.

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the Department of Biological Sciences

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