

Major/Degree: Biology BS: Cellular/Molecular Biology Concentration

This major requires 67-76 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 B: Math [1, 5]	MATH 101 or [MATH 101i & MATH 1]	3	LD GE A1 [1]	ENGL 104 (+optional ENGL 110)	3-4
LD GE E	SCI 100	3	LD GE B: Math [1]	MATH 101T	3
LD GE B & Major	BOT 105 or CHEM 109	4/5	LD GE B & Major	CHEM 109 or BOT 105	4-5
LD GE D & DCG-d	NAS 104	3	LD GE A3 [1]		3
			LD GE C1 or C2 [4]		3
Semester Total: 13-14			Semester Total: 16-18		

Sophomore Year

Fall (semester 3)			Spring (semester 4)		
Description	Course	Units	Description	Course	Units
LD GE A2 [1]	COMM 100	3	Major [Core]	ZOOL 110	4
LD GE B: Life; Major	BIOL 105	4	LD GE B: Math; Major	STAT 109	4
Major [Core]	CHEM 110	5	LD GE D [4]		3
LD GE B: Math; Major	MATH 105 or 109	3-4	LD GE C1 or C2 [4]		3
			LD GE C1 or C2 [4]		3
Semester Total: 15-16			Semester Total: 17		

Junior Year

Fall (semester 5)			Spring (semester 6)		
To Do: Apply to graduate.			To Do: Take the GWPE.		
Description	Course	Units	Description	Course	Units
Major [Core]	BIOL 340	4	UD GE C or D [4]		3
Major [Concentration]	CHEM 228 or CHEM324/L	4-5	LD GE B: Phys; Major	PHYX 107 or 118	1-4
LD GE B: Phys; Major	PHYX 106	4	Major [Concentration]	CHEM325/L or Elective	3-5
DCG [4] if requirement	was not fulfilled by taking a double count course	0-3	UD GE B; Major	BIOL 307	4
American Institutions		3	Major [Concentration]	BIOL 350	3
Semester Total: 15-19			Semester Total: 14-19		

Senior Year

Fall (semester 7)			Spring (semester 8)		
			To Do: Register for commencement.		
Description	Course	Units	Description	Course	Units
Major [Concentration]	Physiology Elective [6,7]	4	UD GE C or D [4]		3
Major [Concentration]	UD Molecular Techniques Lab [6,9]	2	Major [Concentration]	UD Restricted Elective [6,8]	1-4
Major [Concentration]	UD Restricted Elective [6,8]	1-4	Major [Concentration]	UD Restricted Elective [6,8]	1-4
Major [Concentration]	UD Restricted Elective [6,8]	1-4	Major [Concentration]	UD Restricted Elective [6,8]	1-4
American Institutions		3	Elective		3
Semester Total: 11-17			Semester Total: 9-18		

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 one of the following: BOT 310, ZOO 310, or ZOO 312.
- [8] Take 12 units from the following courses. No more than 2 units may be BIOL 490 or 499: BIOL 412, BIOL 440, BIOL 450, BIOL 544, BIOL 544L, BIOL 490, BIOL 499, BIOL 564, CHEM 434, CHEM 434L, CHEM 435, CHEM 435L, CHEM 438, ZOO 476.
- [9] Take one of the following: BIOL 440 or BIOL 450.

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