

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

**This major requires 75-87 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 [1]	ENGL 102 (+optional ENGL 110)	3-4
LD GE B: Math [1, 5]	MATH 101 or (MATH 101i & MATH 1)	3-4	LD GE B: Math [1]	MATH 101T	3
LD GE B: Life; Major	BOT 105	4	LD GE B: Phys; Major	CHEM 109	5
LD GE D & DCG-d	NAS 104	3	LD GE C1 or C2 [4]		3
			LD GE A3 [1]		3
Semester Total: 13			Semester Total: 17-18		

**Sophomore Year**

Fall (semester 3)			Spring (semester 4)		
Description	Course	Units	Description	Course	Units
LD GE A1 [1]	ENGL 103 (+optional ENGL 110)	3-4	LD GE A2 [1]	COMM 100	3
LD GE B: Life; Major	BIOL 105	4	LD GE B: Math; Major	STAT 109	4
Major [Core]	CHEM 110	5	Major [Core]	ZOOL 110	4
LD GE B: Math; Major	MATH 105 or MATH 109	3-4	LD GE C1 or C2 [4]		3
			American Institutions [2]		3
Semester Total: 15-17			Semester Total: 17-18		

**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 330	4	LD GE C1 or C2 [4]		3
Major [Concentration]	CHEM 228	4	LD GE B: Phys; Major	PHYX 106	4
Major [Concentration]	Major Elective [6,7]	3-4	Major [Core]	BIOL 340	4
LD GE D [4]		3	Major [Concentration]	UD Statistics Course [6,8]	4
American Institutions		3	DCG [4] if requirement	was not fulfilled by taking a double count GE	0-3
Semester Total: 17-18			Semester Total: 15-18		

**Senior Year**

Fall (semester 7)			Spring (semester 8)		
			To Do: Register for commencement.		
Description	Course	Units	Description	Course	Units
Major [Concentration]	BIOL 434	4	UD GE C or D [4]		3
Major [Concentration]	UD Cells/Physiol Elec [6,11]	2	UD GE B; Major	BIOL 307	4
Major [Concentration]	PHYX 107 or PHYX 118 [6]	1-4	Major [Concentration]	UD Biodiversity Course [6,9]	2-5
Major [Concentration]	UD Biol. Science Course [6,10]	3-4	Major [Concentration]	UD Biol. Science Course [6,10]	3-4
UD GE C or D [4]		3	Major [Concentration]	UD Biol. Science Course [6,10]	3-4
Semester Total: 13-17			Semester Total: 15-20		

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 dou
- [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] Complete one of the following for major requirement: FISH 320, GEOG 106, GEOL 109, OCN 109/109L, SOIL 260.
- [8] Take one of the following: STAT333 or STAT 406
- [9] Take at least 3 units from the following: BIOL 412, BOT 350, BOT 354, BOT 355, BOT 356, BOT 358, BOT 359, FISH 310, WLDF 365, ZOO 314, ZOO 316, ZOO 354, ZOO 356, ZOO 358, ZOO 556.
- [10] Three UD Biological Sciences courses totaling at least 7 units chosen in consultation with advisor.
- [11] Take one of the following: (BIOL 350 and BIOL 440 or BIOL 450), BIOL 412 (if not taken above), BOT 310, or ZOO 310.

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