

Major/Degree: Chemistry BS: Biochemistry

Units for the major: 88

Total: 120 units are required for a BS 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. This MAP is based on the **2020-21** catalog.

**Freshman Year**

| Fall (semester 1)     |                               |       | Spring (semester 2)      |                               |       |
|-----------------------|-------------------------------|-------|--------------------------|-------------------------------|-------|
| Description           | Course                        | Units | Description              | Course                        | Units |
| LD GE A1 [1]          | ENGL 102 (+optional ENGL 110) | 3-4   | LD GE A1 [1]             | ENGL 103 (+optional ENGL 110) | 3-4   |
| LD GE B: Math [1, 5]  | MATH 101i & MATH 1            | 4     | Prerequisite             | MATH 101T                     | 3     |
| LD GE E               | SCI 100 [recommended]         | 3     | LD GE B: Phys; Major [3] | CHEM 109 General Chemistry I  | 5     |
| LD GE A2 [1]          | COMM 100                      | 3     | LD GE D; DCG-d           | NAS 104                       | 3     |
| LD GE D [4]           |                               | 3     | LD GE A3 [1]             |                               | 3     |
| Semester Total: 16-17 |                               |       | Semester Total: 17-18    |                               |       |

**Sophomore Year**

| Fall (semester 3)                           |                               |       | Spring (semester 4)   |                      |       |
|---|-------------------------------|-------|-----------------------|----------------------|-------|
| Description                                 | Course                        | Units | Description           | Course               | Units |
| Major [Core]                                | CHEM 110 General Chemistry II | 5     | American Institutions |                      | 3     |
| LD GE B: Life Forms & Major [Concentration] | BOT 105 or BIOL 105           | 4     | Major [Core]          | PHYX 109             | 4     |
| American Institutions [2]                   |                               | 3     | Major [Core]          | MATH 110             | 5     |
| Major [Core]                                | MATH 109                      | 4     | Major [Concentration] | BIOL 105 or ZOOL 110 | 4     |
| Semester Total: 16                          |                               |       | Semester Total: 16    |                      |       |

**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]              | CHEM 324  | 3     | Major [Core]          | PHYX 211               | 4     |
| Major [Core]              | CHEM 324L | 2     | Major [Concentration] | BIOL 340 Genetics      | 3     |
| Major [Core]              | PHYX 210  | 4     | Major [Concentration] | BIOL 340L Genetics Lab | 1     |
| Major [Core]              | CHEM 341  | 5     | Major [Core]          | CHEM 325               | 3     |
| Major [Core]              | MATH 210  | 4     | Major [Core]          | CHEM 325L              | 2     |
|                           |           |       | Major [Core]          | CHEM 323               | 1     |
|                           |           |       | LD GE C1 or C2        |                        | 3     |
| Semester Total: 18        |           |       | Semester Total: 17    |                        |       |

**Senior Year**

| Fall (semester 7)     |                                |       | Spring (semester 8)               |           |       |
|-----------------------|--------------------------------|-------|-----------------------------------|-----------|-------|
|                       |                                |       | To Do: Register for commencement. |           |       |
| Description           | Course                         | Units | Description                       | Course    | Units |
| Major [Concentration] | CHEM 434                       | 3     | Major [Concentration]             | CHEM 435  | 3     |
| Major [Concentration] | CHEM 434L                      | 2     | Major [Concentration]             | CHEM 435L | 2     |
| Major [Core]          | CHEM 361                       | 3     | Major [Core]                      | CHEM 362  | 3     |
| Major [Concentration] | BIOL 412, BOT 310, OR ZOOL 310 | 4     | UD GE C [4]                       |           | 3     |
| Major [Core]          | CHEM 485                       | 1     | UD GE D [4]                       |           | 3     |
| LD GE C1 or C2 [4]    |                                | 3     | LD GE C1 or C2 [4]                |           | 3     |
| Semester Total: 16    |                                |       | Semester Total: 17                |           |       |

A1=Written Communication; A2 = Oral Communication; A3 = Critical Thinking; C1 = Arts; C2 = Humanities;

Revised: 5/26/20 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.

[5] Credit earned for support course (MATH 1) does not count toward unit requirements for graduation, GE or major.

The CHEM BS meets the requirements for UD GE B.

CHEM 310, 410, and 410L are offered every other year (fall odd numbered years and spring even numbered years), so they may need to be taken in the junior year. Please see an advisor to discuss this situation

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the Department of Chemistry

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