

**Bachelor of Arts - Chemistry - Biochemistry Concentration**  
**First Time Freshman Academic Roadmap**

| Year 1: Freshman Year      |               |                            |       | Year Total                    |               |                         |       | 29 |
|----------------------------|---------------|----------------------------|-------|-------------------------------|---------------|-------------------------|-------|----|
| Fall Semester              | Terms Offered | Prerequisite Courses       | Units | Spring Semester               | Terms Offered | Prerequisite Courses    | Units |    |
| CHEM 2100 (GE 5A)          | Fall & Spring | College Math (Corequisite) | 4     | CHEM 2200                     | Fall & Spring | CHEM 2100               | 4     |    |
| CHEM 2100L (GE 5C)         | Fall & Spring | CHEM 2100 (Corequisite)    | 1     | CHEM 2200L                    | Fall & Spring | CHEM 2200 (Corequisite) | 1     |    |
| MATH 2210 (GE 2)           | Fall & Spring | MATH 1401                  | 4     | MATH 2220                     | Fall & Spring | MATH 2210               | 4     |    |
| CHEM 1500                  | Fall          |                            | 2     | Critical Thinking (GE 1B)     | Fall & Spring |                         | 3     |    |
| Oral Communication (GE 1C) | Fall & Spring |                            | 3     | Written Communication (GE 1A) | Fall & Spring |                         | 3     |    |
| Semester Total             |               |                            | 14    | Semester Total                |               |                         | 15    |    |

| Year 2: Sophomore Year |               |                          |       | Year Total        |               |                      |       | 32 |
|------------------------|---------------|--------------------------|-------|-------------------|---------------|----------------------|-------|----|
| Fall Semester          | Terms Offered | Prerequisite Courses     | Units | Spring Semester   | Terms Offered | Prerequisite Courses | Units |    |
| BIOL 2010 (GE 5B)      | Fall          | CHEM 2100                | 5     | BIOL 2020         | Spring        | BIOL 2010            | 5     |    |
| CHEM 3400              | Fall          | CHEM 2200 and CHEM 2200L | 5     | CHEM 3500         | Spring        | CHEM 3400            | 5     |    |
| General Education      | Fall & Spring |                          | 3     | General Education | Fall & Spring |                      | 3     |    |
| General Education      | Fall & Spring |                          | 3     | General Education | Fall & Spring |                      | 3     |    |
| Semester Total         |               |                          | 16    | Semester Total    |               |                      | 16    |    |

| Year 3: Junior Year |               |                                         |       | Year Total             |               |                         |       | 31 |
|---------------------|---------------|-----------------------------------------|-------|------------------------|---------------|-------------------------|-------|----|
| Fall Semester       | Terms Offered | Prerequisite Courses                    | Units | Spring Semester        | Terms Offered | Prerequisite Courses    | Units |    |
| CHEM 3200           | Fall & Spring | CHEM 2100 and CHEM 2200                 | 4     | CHEM 4200              | Spring        | CHEM 4100               | 3     |    |
| CHEM 4100           | Fall & Spring | CHEM 2300, 2500, or 3400; and BIOL 2010 | 3     | CHEM 4200L             | Spring        | CHEM 4200 (Corequisite) | 1     |    |
| CHEM 4100L          | Fall & Spring | CHEM 4100 (Corequisite)                 | 1     | PHYS 2010              | Fall & Spring | PHYS 2000               | 4     |    |
| PHYS 2000           | Fall & Spring | MATH 2210                               | 4     | PHYS 2010L             | Fall & Spring | PHYS 2010 (Corequisite) | 1     |    |
| PHYS 2000L          | Fall & Spring | PHYS 2000 (Corequisite)                 | 1     | General Education      | Fall & Spring |                         | 3     |    |
| General Education   | Fall & Spring |                                         | 3     | General Education (UD) | Fall & Spring |                         | 3     |    |
| Semester Total      |               |                                         | 16    | Semester Total         |               |                         | 15    |    |

| Year 4: Senior Year    |               |                                          |       | Year Total         |               |                      |       | 28 |
|------------------------|---------------|------------------------------------------|-------|--------------------|---------------|----------------------|-------|----|
| Fall Semester          | Terms Offered | Prerequisite Courses                     | Units | Spring Semester    | Terms Offered | Prerequisite Courses | Units |    |
| CHEM 4600              | Fall          | CHEM 3200, 4100/L; MATH 2220; PHYS 2010/ | 3     | CHEM 4700          | Spring        | CHEM 4600            | 3     |    |
| CHEM 4350              | Fall          | CHEM 3200 and CHEM 3500                  | 3     | CHEM Elective      | Fall & Spring | Varies               | 2     |    |
| CHEM 4750              | Fall          | CHEM 4600 (Corequisite)                  | 1     | Free Elective      | Fall & Spring |                      | 3     |    |
| CHEM 5800              | Fall & Spring | CHEM 3200 and CHEM 3500                  | 1     | Free Elective      | Fall & Spring |                      | 3     |    |
| General Education (UD) | Fall & Spring |                                          | 3     | Free Elective      | Fall & Spring |                      | 3     |    |
| General Education (UD) | Fall & Spring |                                          | 3     |                    |               |                      |       |    |
| Semester Total         |               |                                          | 14    | Semester Total     |               |                      | 14    |    |
|                        |               |                                          |       | Degree Units Total |               |                      | 120   |    |

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Last modified

8/25/2026

The roadmap is an academic planning resource. Students should refer to their PAWS Report and Academic Catalog for graduation requirements.