

2027 Academic Planning Form: CHEMISTRY B.S.

5/17/2023

1st course(s) recommended for Chemistry- CHM 121

| | Fall Semester | # of Credits | Spring Semester | # of Credits | Total Year Credits |
|---|---|--------------|--|--------------|--------------------|
| 1 st Year | DWC 101 (4 credit hrs; Honors 5 credit hrs) | 4 | DWC 102 (4 credit hrs; Honors 5 credits hrs) | 4 | |
| | MTH 131 Calc & Analytical Geometry I (Quantitative Reasoning Core) | 4 | MTH 132 Calc & Analytical Geometry II | 4 | |
| | CHM 121 Intro Chemistry I w/ Lab (Natural Science Core) | 4 | CHM 122 Intro Chemistry II w/ Lab | 4 | |
| | Core/Free Elective | 3 | CHM 120 Chemists to the Rescue (Intensive Writing I Proficiency & Civic Engagement Proficiency) | 3 | |
| | | 15 | | 15 | |
| 2 nd Year | DWC 201 (4 credit hrs; Honors 5 credit hrs) | 4 | DWC 202 (4 credit hrs; Honors 5 credits hrs) | 4 | |
| | CHM 221 Organic Chemistry I w/ Lab | 4 | CHM 222 Organic Chemistry II w/ Lab | 4 | |
| | EPS 101 General Physics I w/ Lab | 4 | EPS 102 General Physics II w/ Lab | 4 | |
| | Core/Free Elective | 3 | Core/Free Elective | 3 | |
| | | 15 | | 15 | |
| 3 rd Year | CHM 331 Adv. Analytical Chemistry I w/ Lab | 4 | CHM 321 Physical Chemistry I | 3 | |
| | CHM 332 Organic Analysis w/Lab | 2 | CHM 321L Physical Chemistry I Lab | 1 | |
| | CHM 432 Adv. Analytical Chemistry II w/Lab | 2 | CHM 309 Biochemistry | 3 | |
| | CHM 381 Chemistry Seminar (Oral Communication Proficiency) | 1 | CHM 382 Chemistry Seminar (Oral Communication Proficiency) | 2 | |
| | Core/Free Elective | 3 | Core/Free Elective | 3 | |
| | Core/Free Elective | 3 | Core/Free Elective | 3 | |
| | | 15 | | 15 | |
| 4 th Year | CHM 401 Inorganic Chemistry (Intensive Writing II Proficiency) | 3 | CHM 401L Inorganic Chemistry Lab | 1 | |
| | CHM 311 Chemistry of Materials w/ Lab | 2 | CHM 482 Chemistry Seminar (Oral Communication Proficiency) | 0 | |
| | CHM 322 Physical Chemistry II w/ Lab | 2 | Core/Free Elective | 3 | |
| | CHM 481 Chemistry Seminar (Oral Communication Proficiency) | 2 | Core/Free Elective | 3 | |
| | Core/Free Elective | 3 | Core/Free Elective | 3 | |
| | Core/Free Elective | 3 | Core/Free Elective | 3 | |
| | | 15 | Core/Free Elective | 3 | |
| | | | | 16 | |
| *Graduation Requirement includes a minimum of 120 credit hours* | | | Total Program of Study Credits | | 121 |

*For Study Abroad - Spring of the junior year following consultation with department chair.
Please Note CHM 311, CHM 322, CHM 332, and CHM 432 are offered alternate years.*

Core requirements include a foundational component and satisfaction of all proficiencies.

Foundational Component:

- DWC - 4 semester sequence, 16-20 cr.
- Theology (200 & 300 level) - 6 cr.
- Philosophy (1 Ethics) - 6 cr.
- Natural Science - 3 cr. (**CHM 121/121L**)
- Social Science - 3 cr.
- Quantitative Reasoning - 3 cr. (**MTH 131 or MTH 132**)
- Fine Arts - 3 cr.

Proficiencies:

- Intensive Writing - I (**CHM 120**)
- Intensive Writing - II (**CHM 401**)
- Diversity
- Civic Engagement (**CHM120**)
- Oral Proficiency (**CHM 381/382/481/482**)

Major Requirements (CHM BS Courses):

- CHM 121-122, 221-222, 311, 321-321L, 322-322L, 331, 332, 381, 382, 401, 401L, 432, 481, 482
- MTH 131-132
- EPS 101-102