

Major Map

BULLETIN YEAR: 2021-2022 Degree: BA; BS

Major: BIOCHEMISTRY

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and a department's tentative plans for scheduling courses. This document provides general direction. For more specific advice and up to date schedules, it is expected that students will regularly discuss their plans of study with academic advisors and monitor the current class schedules as students are responsible for ensuring that all requirements for graduation have been met.

| Course | Cr. Hrs. | Course | Cr. Hrs. |
|--|----------|---|----------|
| FIRST YEAR | | | |
| Semester: Fall Total Credit Hours: 15 | | Semester: Spring Total Credit Hours: 15 | |
| BIO 111 | 4 | BIO 112 | 4 |
| CHM 131 | 4 | CHM 132 | 4 |
| MTH 132 (Math Comp) | 4 | MTH 133 | 4 |
| ENG 101 Freshman Composition | 3 | General Studies (UP WI) | 3 |
| | | | |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| SOPHOMORE YEAR | | | |
| Semester: Fall Total Credit Hours: 16 | | Semester: Spring Total Credit Hours: 15 | |
| CHM 211QR | 4 | CHM 348 | 2 |
| CHM 343 | 4 | CHM 349 | 2 |
| Option A: PHY 130QR & PHY 170 or Option B: PHY 145QR & PHY 175 | 5 | Option A: PHY 131 & PHY 171 or Option B: PHY 146 & PHY 176 | 5 |
| General Studies (UP WI) | 3 | ENG 201 Intermediate Composition | 3 |
| | | Oral English Competency | 3 |
| | | | |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| JUNIOR YEAR | | | |
| Semester: Fall Total Credit Hours: 11 | | Semester: Spring Total Credit Hours: 12-14 | |
| CHM 521 | 3 | CHM 522 | 3 |
| CHM 527 | 1 | CHM 528 | 2 |
| BIO 211 | 4 | ¹ BIO 325WI | 3 |
| General Studies (UP) | 3 | ² Elective: 300 level or above (to meet 71 hour total requirement, selected in consultation with program advisor – See list in Bulletin) | 1-3 |
| (Pre-Med/Pre-Pharmacy may need a CHM/BIO elective prior to taking MCAT/PCAT exam.) | | General Studies (UP) | 3 |
| | | | |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| SENIOR YEAR | | | |
| Semester: Fall Total Credit Hours: 12-14 | | Semester: Spring Total Credit Hours: 3 | |
| ³ CHM 491WI | 3 | General Studies (UP) | 3 |
| Option A: CHM 355 (fall only) or Option B: CHM 353 (fall only) | 3-5 | | |
| General Studies (UP) | 3 | | |
| General Studies (UP) | 3 | | |
| | | | |
| | | | |
| Course | Cr. Hrs. | Course | Cr. Hrs. |
| FIFTH YEAR (IF NEEDED) | | | |
| Semester: Total Credit Hours: | | Semester: Total Credit Hours: | |
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120 hours minimum required for graduation

40 hours 300 level or above required

¹ BIO 325 may be taken as a writing intensive (WI) course.

² CHM/BIO electives may be taken as soon as their prerequisites are completed, must be approved by advisor.

³ CHM 491WI may be taken in an earlier semester or during summer by arrangement. Students are encouraged to initiate research early on in their studies (e.g., first year or sophomore year).

Arrange to meet with the biochemistry major advisor and sign your major as early as possible. Your career goal may affect the best pathway through the major. Contact biochemistry major advisor Dr. Sharma at sharm1a@cmich.edu or 989-774-3303.