



2026-2027

CHEMISTRY - BIOCHEMISTRY MAJOR, B.S.

Biology & Chemistry Department; Shaw School of Sciences

Students must complete all Foundations requirements and major requirements, as well as any additional General Electives needed to reach the minimum of 124 total credits required for a Bachelor's degree.

MAJOR REQUIREMENTS (79)

Cross-Disciplinary Requirements (29)

| | | | | |
|------|-----|-----|------------------------------|--------|
| __ 3 | BIO | 201 | General Biology I | |
| __ 3 | BIO | 202 | General Biology II | |
| __ 1 | BIO | 203 | General Biology Lab I | |
| __ 1 | BIO | 204 | General Biology Lab II | |
| __ 2 | BIO | 341 | Ethical Issues | |
| | | | | |
| __ 4 | MAT | 181 | Calculus I | __ Lab |
| __ 4 | MAT | 182 | Calculus II | __ Lab |
| | | | | |
| __ 4 | PHY | 201 | Intro Physics I | __ Lab |
| __ 4 | PHY | 202 | Intro Physics II | __ Lab |
| | | | | |
| __ 3 | PSY | 315 | Stats for Behavioral Science | |

Choose one:

| | | | |
|------|-----|-----|------------|
| __ 3 | BIO | 322 | Genetics |
| | BIO | 379 | Immunology |

Choose one additional 4-credit Science 300 or higher with lab:

__ 4 BIO/CHE _____

Chemistry Requirements (35)

| | | | | |
|------|-----|-----|------------------------------|--------|
| __ 3 | CHE | 121 | Gen College Chemistry I | |
| __ 3 | CHE | 122 | Gen College Chemistry II | |
| __ 1 | CHE | 123 | Gen College Chemistry Lab I | |
| __ 1 | CHE | 124 | Gen College Chemistry Lab II | |
| __ 3 | CHE | 221 | Organic Chemistry I | |
| __ 3 | CHE | 222 | Organic Chemistry II | |
| __ 1 | CHE | 223 | Organic Chemistry Lab I | |
| __ 1 | CHE | 224 | Organic Chemistry Lab II | |
| __ 4 | CHE | 321 | Analytical Chemistry | __ Lab |
| __ 3 | CHE | 361 | Biochemistry | |
| __ 1 | CHE | 363 | Biochemistry Lab | |
| __ 3 | CHE | 382 | Inorganic Chemistry | |
| __ 1 | CHE | 399 | Intro to Chem Research | |
| __ 2 | CHE | 400 | Senior Research | |
| __ 4 | CHE | 421 | Physical Chemistry | __ Lab |
| __ 1 | CHE | 475 | Senior Seminar | |

Biochemistry Track (15)

| | | | | |
|------|-----|-----|------------------------------|--|
| __ 3 | BIO | 352 | Physiology | |
| __ 1 | BIO | 354 | Physiology Lab | |
| __ 3 | BIO | 372 | Cell & Molecular Biology | |
| __ 1 | BIO | 374 | Cell & Molecular Biology Lab | |

Plus FOUNDATIONS REQUIREMENTS (49)

(3 credits Math and 4 credits Science + Lab satisfied by required major courses.)

Plus GENERAL ELECTIVES if needed to reach minimum 124 credits