

Biochemistry

(Applies to Students enrolling during the Academic Year beginning in August 2026) Total Credits in Program: 130. - 131.

Semester 1	Cr	Semester 2	Cr
SRH 101 – Search Sem-Enduring Questions or HNR 160 – Honor Search-Enduring Questions	3	BIO 104 – Principles of Biology II	4
BIO 103 – Principles of Biology I	4	BIO 104L – Principles of Biology II Laboratory	0
BIO 103L – Principles of Biology I Laboratory	0	CHE 105 – General Chemistry II	3
CHE 104 – General Chemistry I	3	CHE 111L – General Chemistry Laboratory II	1
CHE 110L – General Chemistry Laboratory I	1	MAT 180 – Calculus I	4
CHE 107 – Laboratory Safety	1	MAT 180L – Calculus I Recitation	0
MAT 131 – Precalculus or Gen Ed	3	THE 105 or PHI 105	3
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
TOTAL CREDITS	15	TOTAL CREDITS	15
Semester 3	Cr	Semester 4	Cr
CHE 201 – Organic Chemistry I	3	CHE 202 – Organic Chemistry II	3
CHE 210L – Organic Chemistry Laboratory I	1	CHE 211L – Organic Chemistry Laboratory II	1
PHY 200 – Physics I	4	PHY 201 – Physics II	4
PHY 200L – Physics I Laboratory	0	PHY 201L – Physics II Laboratory	0
MAJOR ELECTIVE	3-4	Gen Ed	3
COM 101	3	Gen Ed	3
PHI 105 or THE 105	3	Gen Ed	3
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
TOTAL CREDITS	17-18	TOTAL CREDITS	17
Semester 5	Cr	Semester 6	Cr
BIO 303 – Genetics	3	BIO 221 – Gen. Microbiology	4
BIO 309L – Genetics Laboratory	1	BIO 221L – Gen. Microbiology Laboratory	0
MAT 209 – Probability & Statistics	3	BIO 304 – Cell Biology or Elective	3
MAT 220 – Math/Statistics Computer Lab	1	BIO 311L – Cell Biology Laboratory (if BIO 304 taken)	1
Gen Ed	3	Gen Ed	3
Gen Ed	3	Gen Ed	3
Gen Ed	3	Elective	3
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
TOTAL CREDITS	17	TOTAL CREDITS	17
Semester 7	Cr	Semester 8	Cr
CHE 301 – Physical Chemistry I	3	SCI 402 – Senior Seminar	2
CHE 310L – Physical Chemistry I Lab	1	SCI 407 – Research II or SCI 480 Internship	3
CHE 314 – Biochemistry	3	CHE 302 – Physical Chemistry II	3
CHE 314L – Biochemistry Laboratory	1	CHE 311L – Physical Chemistry II Lab	1
SCI 406 – Research I or SCI 480 Internship	3	Elective	3
Elective or BIO 409 (if BIO 304/311L was not taken)	3	Elective	3
Elective	3		
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
TOTAL CREDITS	17	TOTAL CREDITS	15

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Student Notes

- Students must enroll in courses required for second majors and minors when available, as shown in the Academic Completion Plans. Academic Completion Plans may not be accurate for declared second majors, depending upon the semester you declare. Completion of such additional major(s) could increase time to degree completion.
- You must meet with your minor advisor and consult the published Course Rotation Schedules to determine when the necessary classes are offered for your minor. You may not add additional time to degree completion beyond the completion of your major courses to complete the minor. Graduation may not be delayed after major requirements are met to complete a minor. Students making the decision to complete a minor or additional major may incur additional costs, financial aid adjustments, and elongated time to graduation (when such elongation is not prohibited by financial aid considerations).
- The Alvernia 15.4460 Graduation Policy published on Alvernia's policy webpage and the current Alvernia Course Catalog detail graduation requirements, honors at graduation, and eligibility to participate in the Commencement Ceremony.
- The Graduation Application is available on-line in myAlvernia in the 'Student Resources' tab under 'Registrar's Office'. Seniors must submit the online Graduation Application form by the following applicable date: October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation.

Advising Notes for Students, Faculty, Navigators and GAE Student Success Advisors

Course Catalogs (published on Alvernia's webpage)

Students must refer to the Course Catalog for the year they enrolled (matriculated) at Alvernia for program requirements. Students may elect to move to a later year with permission from the Department Chair and Dean by completing and submitting the published online form to the Registrar. General academic policies in the Course Catalog may be revised by Alvernia during a student's student's matriculation based on continuously improved practices or federal and state laws and regulations. All such changes will apply to students regardless of matriculation year.

Academic Completion Plans & Course Rotation Schedules (published on myAlvernia)

Academic Completion Plans (formerly 8-semester plans) provide the course timing by semester for each program. Course Rotation Schedules provide multi-year information listing specific course offerings by term. Courses will be scheduled based on the Academic Completion Plans and students must enroll in the specific courses listed during the semester indicated.

AUAdvise (available on myAlvernia logins)

Degree Audit uAchieve remains the official source for each student's curriculum audit and provides the opportunity to use the "what if" function to run scenarios for major changes or additions of minors.

EAB Navigate (available on myAlvernia for faculty and advisors, on app for students)

EAB Navigate is the official tool that faculty, advisors, navigators, GAE Student Success Advisors and administrators use for alerts as well as student meetings and advising session discussion notes. This tool, together with the student's degree audit from uAchieve comprise the student file that follows the student throughout their matriculation and is accessible by advisors, navigators, and other administrators for official purposes.

Additional Program Requirements and Progression Notes

Diversity graduation requirement cannot be fulfilled through major courses; students should fulfill this with a Gen Ed class
Math & Science students can enroll for an optional Math & Science internship for 6 credits any time after they reach Junior standing.