

2025 Academic Completion Plan

(Applies to Students enrolling during the Academic Year beginning in August 2025)

BS Data Science

Semester 1	Credits	Semester 2	Credits
Diversity graduation requirement cannot be fulfilled through major courses; students should fulfill this with a Gen Ed SEARCH class. Writing Enhanced graduation requirement cannot be fulfilled through major courses; students should fulfill this with a Gen Ed SEARCH class.			
SRH 101: Search Sem-Enduring Questions or HNR 160: Honor Search-Enduring Questions THE 105 or PHI 105 CS 115: Intro to Programming CS 120: Intro to IT MAT 131 Pre-calculus or Gen Ed if MAT 131 is not needed.	3 3 3 3 <u>3</u>	CS 155: Object-Oriented Programming CS 162: Database Systems MAT 230: Calculus I THE 105 or PHI 105 Gen Ed	3 3 4 3 <u>3</u>
TOTAL	15	TOTAL	16
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 3	Credits	Semester 4	Credits
DS 110: Introduction to Data Science CS 140: Introduction to Networking CS 212: Project Management MAT 250: Discrete Mathematics Gen Ed (Foreign Language suggested)	3 3 3 3 <u>3</u>	DS 210: Data Visualization & Methods of Data Science CS 220: Data Structures and Algorithms MAT 209: Probability & Statistics Gen Ed Gen Ed (Foreign Language suggested) Elective	3 3 3 3 3 <u>3</u>
TOTAL	15	TOTAL	18
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 5	Credits	Semester 6	Credits
DS 310: Data Mining & Machine Learning CS 320: Algorithm Design and Analysis DS Elective or Gen Ed Gen Ed (Lab Course Suggested) Gen Ed	3 3 3 4 <u>3</u>	DS 410: Advanced Methods of Data Science MAT 240: Linear Algebra Gen Ed or DS Elective Gen Ed (MAT if MAT 131 was not needed) Gen Ed	3 3 3 3 <u>3</u>
TOTAL	16	TOTAL	15
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 7	Credits	Semester 8	Credits
CS 417: Governance, Risk, and Compliance DS Elective SCI 406: Research I or SCI 480: Internship Gen Ed Gen Ed	3 3 3 3 <u>3</u>	DS Elective CS 420: Computer Science Seminar SCI 407: Research II or SCI 480: Internship Gen Ed Elective	3 3 3 3 <u>3</u>
TOTAL	15	TOTAL	15
Complete 5 hours of Community Service		Complete 5 hours of Community Service	

NOTES:

- 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.
- Minors must be declared by the time specified in the current Alvernia Course Catalog and you must meet with your *minor advisor* to determine when the necessary classes are offered since you may not add additional time to degree completion beyond the completion of your major courses to complete the minor.
- The Alvernia 15.4460 Graduation Policy 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 on the 'Academics' tab. Seniors must submit the Graduation Application to the Registrar's Office as follows: **October 1 for May Graduation; December 1 for August graduation; and March 1 for December graduation.**

Additional Curriculum Information Resources

Course Catalogs

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 and notice to the Registrar. General academic policies in the Course Catalog may be revised by Alvernia during a 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

Academic Completion Plans (formerly 8-semester plans) provides the course timing by semester for each program. Courses will be scheduled based on the Academic Completion Plans and students must enroll in the specific courses listed during the semester indicated.

AUAdvise

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

[EAB Navigate](#) is the official tool that faculty, advisors, navigators, 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.