

2025 Academic Completion Plan

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

BS Mechanical Engineering

Semester 1	Credits	Semester 2	Credits
SRH 101: Search Seminar or HNR 160: Honors Search	3	PHY 200/L: Physics I with Lab	4
CHE 104: General Chemistry	3	MAT 231: Calculus II	4
CHE 110L: General Chemistry I Lab	1	EGR 110: Engineering Design I	1
EGR 107: Engineering Lab Safety	1	THR 244: Computer-Assisted Design	3
EGR 260: Undergraduate Engineering Colloquium	0.25	COM 101: Composition & Research	3
MAT 230: Calculus I	4	THE 105 or PHI 105	<u>3</u>
CS 115: Intro to Object-Oriented Programming	<u>3</u>		
TOTAL	15.25	TOTAL	18
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 3	Credits	Semester 4	Credits
EE 200: Circuit Theory I	3	MAT 322: Differential Equations	3
EE 271L: Circuit Theory I Lab	1	EGR 210: Engineering Design II	1
PHY 201/L: Physics II with Lab	4	EGR 260: Undergraduate Engineering Colloquium	0.25
EGR 201: Engineering Statics	3	ME 201: Strength of Materials	3
THE 105 or PHI 105	3	ME 271L: Strength of Materials Lab	0.5
MAT 232: Calculus III	<u>4</u>	ME 211: Thermodynamics	3
		ME 202: Dynamics	3
		Gen Ed SEARCH	<u>3</u>
TOTAL	18	TOTAL	16.75
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 5	Credits	Semester 6	Credits
Gen Ed SEARCH	3	ME 341: Machine Design	3
Gen Ed SEARCH	3	ME 331: Heat Transfer	3
EGR 260: Undergraduate Engineering Colloquium	0.25	ME 372L: Heat Transfer Lab	0.5
ME 310: Fluid Mechanics	3	EGR 306: Measurement and Dynamic Response	3
ME 371L: Fluid Mechanics Lab	0.5	EGR 371L: Measurement and Dynamic Response Lab	0.5
PHY 304/L: Modern Physics w/Lab	4	EGR 310: Engineering Design III	3
MAT 345: Applied Probability & Linear Methods	<u>4</u>	PHI 208: Ethics and Technology	<u>3</u>
TOTAL	16	TOTAL	16
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
Semester 7	Credits	Semester 8	Credits
ME 4xx: ME Elective	3	ME 4xx: ME Elective	3
ME 47xL: ME Elective Lab	0.5	XE 4xx: Engineering Elective	3
XE 4xx: Engineering Elective	3	EGR 481: Capstone Design II	2
EGR 260: Undergraduate Engineering Colloquium	0.25	Gen Ed SEARCH	3
EGR 480: Capstone Design I	2	Gen Ed SEARCH	<u>3</u>
Gen Ed SEARCH	3		
Gen Ed SEARCH	<u>3</u>		
TOTAL	14.75	TOTAL	14
Complete 5 hours of Community Service		Complete 5 hours of Community Service	
ADDITIONAL GRADUATION REQUIREMENTS	RESIDENCY REQUIREMENTS	GRADUATION CREDITS EARNED	
<input type="checkbox"/> SRH 101/HNR 160: FIRST YEAR SEMINAR <input type="checkbox"/> HUMAN DIVERSITY <input type="checkbox"/> COMMUNITY SERVICE HOURS <input type="checkbox"/> OVERALL GPA = 2.0 or higher <input type="checkbox"/> GPA IN MAJOR = 2.0 or higher <input type="checkbox"/> 2.5 in Writing Courses <input type="checkbox"/> SENIOR CAPSTONE: met with EGR 480/481 <input type="checkbox"/> WRITING ENHANCED COURSE	<input type="checkbox"/> Minimum of 123 non-remedial credits earned <input type="checkbox"/> 45 of last 60 credits <input type="checkbox"/> Minimum of 12 Alvernia credits in the major <input type="checkbox"/> Minimum of 9 Alvernia credits in the minor (if applicable)	Liberal Arts Core credits earned	
		Major and Related Area credits earned	
		Elective and/or Minor credits earned	
		SUBTOTAL	
		SUBTRACT CREDITS EARNED FOR MAT 100, and if applicable COM 100	
		TOTAL GRADUATION CREDITS	

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.