

Biological Sciences

2026-2027 Catalog

Charger Foundations

Area I: Freshman Composition

Course Number	Credits	Course Name	Semester Usually Offered
EH 101 and 102	6	College Writing I and II	Fall, Spring, Summer
EH 103	3	Accelerated College Writing	Fall, Spring
EH 105	3	Honors English Seminar	Fall

Area II: Humanities and Fine Arts

Course Number	Credits	Course Name	Semester Usually Offered
Varies	3	Fine Art	Fall, Spring, Summer
Varies	3	Literature	Fall, Spring, Summer
Varies	3	Non-Literature Humanity	Fall, Spring, Summer
Varies	3	Humanities/Fine Art/Literature	Fall, Spring, Summer

Area III: Mathematics and Sciences 11 credits

Mathematics 4-6 credits

Course Number	Credits	Course Name	Semester Usually Offered
MA 112 or higher	3	Precalculus Algebra	Fall, Spring, Summer

Natural Sciences (Lab) 8 credits

Course Number	Credits	Course Name	Semester Usually Offered
CH 101/105 or CH 121/125	3/1	Intro to Chemistry + Lab or General Chemistry I + Lab	Fall, Spring, Summer
CH 201/205 or CH 331/335	3/1	Elementary Organic Chemistry + Lab or Organic Chemistry I + Lab	Fall, Spring Fall, Spring, Summer

Area IV: History and Social and Behavioral Sciences 12 credits

Course Number	Credits	Course Name	Semester Usually Offered
Varies	3	History	Fall, Spring, Summer
Varies	3	Social & Behavioral Science	Fall, Spring
Varies	3	Social & Behavioral Science	Fall, Spring
Varies	3	History/Social and Behavioral Science	Fall, Spring, Summer

Area V: Pre-Professional

Additional Requirements 14 credits

Course Number	Credits	Course Name	Semester Usually Offered
FYE 101S or HON 101	1	Charger Success - Science or Introduction to Honors Research	Fall
Varies	3	Computer Programming	Fall, Spring
PH 101/101L or PH 111/114	4	General Physics I + Lab or General Physics with Calculus I + Lab	Fall Fall, Spring, Summer
Varies	3	Statistics	Fall, Spring
EH 301	3	Technical Writing	Fall, Spring, Summer

Major Requirements

Biological Sciences Core 18 credits

Course Number	Credits	Course Name	Semester Usually Offered
BYS 119/121	4	Principles of Biology + Lab	Fall, Spring, Summer
BYS 120/122	4	Organismal Biology + Lab	Fall, Spring, Summer
BYS 219/221	2	Genetics and Evolution + Lab	Fall, Spring
BYS 300/300L	3	Cell and Developmental Biology + Lab	Fall, Spring, Summer
BYS 490	2	Senior Capstone	Fall, Spring, Summer

Biological Sciences Electives 18 credits

Choose enough BYS courses not listed above to reach 18 credit hours.

General Electives

Elective courses can be taken from any department and do not have to be taken in your major or minor. Only 4 HPE credits can apply.

Graduation Requirements

- Minimum of 120 credits required for graduation
 - At least 36 credits must be completed at the 300 level or higher
 - All prerequisite courses must be completed with a grade of C- or higher
 - The UAH Catalog is the final authority for all degree requirements
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Charger Foundations Choices

Freshman Composition	Choose 1	College Writing I & II (EH 101 + 102) Accelerated College Writing (EH 103; equivalent to EH 101 & EH 102) Honors English Seminar (EH 105; equivalent to EH 101 & EH 102)
Fine Arts	Choose 1	Ancient & Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Drawing: Foundations (ARS 160) Intro to Film Studies (FMA 1230) Intro to Music Literature (MU 100) Theatre Appreciation (TH 122)
Literature	Choose 1 or 2	Readings in Literature & Culture I (EH 207) Readings in Literature & Culture II (EH 208)

		<p>Literature without Borders (EH 241) Mythology (EH 242) Protest Literature (EH 243) Heroes &/or Monsters (EH 244) Love &/or Romance (EH 245) Speculative Realities (EH 246)</p>
Humanities (Non-Literature)	Choose 1 or 2	<p>Ancient & Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Drawing: Foundations (ARS 160) Intro to Film Studies (FMA 123) Intro to Music Literature (MU 100) Theatre Appreciation (TH 122) Ancient & Medieval Worlds (AMS 229) Public Speaking (CM 113) Intro to Philosophy (PHL 101) Intro to Ethics (PHL 102) Intro to Logic (PHL 103) Tech, Science, & Human Values (PHL 150) Intro to Women's Studies (WGS 200) Foreign Language (WLC 101) International Cinema (WLC 204)</p>
Mathematics	Choose 1	<p>Precalculus Algebra (MA 112) or higher Note: Math through MA 151/ Calculus I w/ Foundations B or MA 171/ Calculus I is required to take Chemistry courses beyond CH 101/105 and CH 201/205.</p>
Natural Sciences (Lab) Sequence	Choose 1 sequence	<p>Intro to Chemistry + Lab (CH 101/105) and Elementary Organic Chemistry + Lab (CH 201/205) General Chemistry I + Lab (CH 121/125) and Organic Chemistry I + Lab (CH 331/335)</p>
History	Choose 1 or 2	<p>World History to 1500 (HY 103) World History since 1500 (HY 104) United States to 1877 (HY 221) United States since 1877 (HY 222)</p>
Social & Behavioral Sciences	Choose 2 or 3	<p>World Geography (AES 105) Human Geography (AES 110) Global Systems & Cultures (GS 200) Macroeconomics (ECN 142) Microeconomics (ECN 143) Intro to American Government (PSC 101) Intro to Comparative Politics (PSC 102)</p>

		Intro to International Relations (PSC 260) General Psychology I (PY 101) Life-Span Development (PY 201) Intro to Sociology (SOC 100) Intro to Criminology (SOC 103) Intro Justice & Equity Studies (JES 200)
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Students must take one literature and one history course.
Students must also take either a second literature or history course to complete a sequence.

Computer Programming, Physics, and Statistics Choices

Computer Programming	Choose 1	Intro to CS Using Python (CS 104) Coding Algorithms for Biology (BYS 205)
Physics	Choose 1	General Physics I + Lab (PH 101/101L) General Physics with Calculus I + Lab (PH 111/114)
Statistics	Choose 1	Elements of Statistical Analysis (MA 281) Intro Probability & Statistics (MA 385) Psychological Statistics (PY 300) Statistics for Social Sciences (SOC 303)

Consult your Academic Advisor to determine substitute/additional courses to take if you are interested in a degree with a specific concentration.

- Biochemistry
- Ecology & Evolution
- Pre-Professional Health Careers