

# Chemistry, BS

## Chemical Business Concentration

### 2026-2027 Catalog

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## 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

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### 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
CM 113	3	Public Speaking	Fall, Spring, Summer
Varies	3	Humanities/Fine Art/Literature	Fall, Spring, Summer

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## Area III: Mathematics and Sciences 12-14 credits

### Mathematics 4-6 credits

Course Number	Credits	Course Name	Semester Usually Offered
MA 171 or MA 171S or MA 150 & 151	4-6	Calculus I or Calculus I with Foundations A & B	Fall, Spring, Summer

### Natural Sciences (Lab) 8 credits

Course Number	Credits	Course Name	Semester Usually Offered
PH 111/114	3/1	Physics with Calculus I + Lab	Fall, Spring, Summer
PH 112/115	3/1	Physics with Calculus II + Lab	Fall, Spring, Summer

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## 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

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## Area V: Pre-Professional

Additional Requirements 24 credits

Course Number	Credits	Course Name	Semester Usually Offered
FYE 101S or HON 101	1	Charger Success - Science or Introduction to Honors Research	Fall
CM 113	3	Public Speaking	Fall, Spring, Summer
MA 172	4	Calculus II	Fall, Spring, Summer
BYS 119/121	3/1	Principles of Biology + Lab	Fall, Spring, Summer
BYS 120/122	3/1	Organismal Biology + Lab	Fall, Spring, Summer
BYS 219/221	3/1	Genetics and Evolution + Lab	Fall, Spring
BYS 300/300L	4	Cell & Developmental Biology + Lab	Fall, Spring, Summer

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## Major Requirements

### Chemistry Core 22 credits

Course Number	Credits	Course Name	Semester Usually Offered
CH 121/125	3/1	General Chemistry I + Lab	Fall, Spring, Summer
CH 123/126	3/1	General Chemistry II + Lab	Fall, Spring, Summer
CH 223/224	3/1	Quantitative Analysis + Lab	Fall, Spring
CH 331/335	3/1	Organic Chemistry I + Lab	Fall, Spring, Summer
CH 332	3	Organic Chemistry II	Fall, Spring, Summer
CH 401	3	Inorganic Chemistry	Fall

### Chemical Business Concentration Requirements 17 credits

Course Number	Credits	Course Name	Semester Usually Offered
CH 336	1	Organic Chemistry II Lab	Fall, Spring, Summer
CH 341 or CH 347	3	Physical Chemistry I or Biophysical Chemistry I	Fall
CH 345	1	Experimental Physical Chemistry	Fall
CH 361/362	3/1	General Biochemistry I + Lab	Fall, Spring
CH 402	1	Inorganic Chemistry Lab	Spring
CH 421/422	3/1	Instrumental Analysis + Lab	Fall

# Minor Requirements

## Required Business Minor 16 credits

Course Number	Credits	Course Name	Semester Usually Offered
ACC 210	4	Accounting for Business	Fall, Spring, Summer
Varies	3	Statistics	Fall, Spring
FIN 301	3	Principles of Finance	Fall, Spring
MGT 301	3	Managing Organizations	Fall, Spring, Summer
MKT 301	3	Principles of Marketing	Fall, Spring

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## 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) 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)
Humanities (Non-Literature)	Choose 1 or 2  One must be Public Speaking	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)

Mathematics	Choose 1	Calculus I with Foundations A & B (MA 150 & MA 151) or Calculus I (MA 171 or MA 171S)
Natural Sciences (Lab) Sequence	Required	Physics with Calculus I + Lab (PH 111/114) Physics with Calculus II + Lab (PH 112/115)
History	Choose 1 or 2	World History to 1500 (HY 103) World History since 1500 (HY 104) United States to 1877 (HY 221) United States since 1877 (HY 222)
Social & Behavioral Sciences	ECN 142/ECN 143 required for Business minor.  Choose 1 additional course or take 2 History courses	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) 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)

Students must take one literature and one history course.  
Students must also take either a second literature or history course to complete a sequence.

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## Statistics Choices

### Choose 1

- Business Statistics (MSC 287)
- Probability & Engineering Statistics (ISE 390)
- Intro to Probability & Statistics (MA 385)\*
- Psychological Statistics (PY 300)
- Statistics for Social Sciences (SOC 303)
- Elements of Statistical Analysis (MA 281)

\*Requires additional prerequisites not otherwise covered by degree plan