



Chemistry, BS

Pure Chemistry Concentration 2022-2023 Catalog | catalog.uah.edu

ompleted	Course Number	Credits	Course Name	Prerequisites, Corequisites and/or Prerequisites with Concurrency	Semester Usuall Offered
		· · ·	Charger Foundat		
			Area I: Freshman Composition 6 credits -	see attached for more options	
	EH 101	3	College Writing I	<u>Placement</u>	FA/SP/SU
	EH 102	3	College Writing II	EH 101 or EH 101S	FA/SP/SU
	EH 103	3	Accelerated College Writing	<u>Placement</u>	SP
	EH 105	3	Honors English Seminar	Honors	FA
			Area II: Humanities and Fin	e Arts 12 credits	
		3	Fine Art	See attached for choices	
		3	Literature	Completion of Area I	
		3	Non-Literature Humanity	See attached for choices	
		3	Humanities/Fine Arts/Literature	See attached for choices	
			Area III: Mathematics and Scie	nces 11-12 credits	
			Mathematics 4 cr	edits	
	MA 171 or MA 171S	4	Calculus A	Placement or MA 113 or MA 115	FA/SP/SU
			Natural Sciences (Lab	8 credits	
	PH 111/114	3/1	General Physics w/ Calculus I + Lab	MA 171	FA
	PH 112/115	3/1	General Physics w/ Calculus II + Lab	MA 172 and PH 111/114	SP
			Area IV: History and Social & Behav	ioral Sciences 12 credits	
		3	History	See attached for choices	
		3	Social & Behavioral Science	See attached for choices	
		3	Social & Behavioral Science	See attached for choices	
		3	History/Social & Behavioral Science	See attached for choices	
			Area V: Pre-Profes	sional	
			For Chemistry Majors	28 credits	
	FYE 101S	1	Charger Success - Science	REQUIRED	FA
	CM 113	3	Public Speaking		FA/SP/SU
	MA 172	4	Calculus B	MA 171	FA/SP/SU
	MA 201	4	Calculus C	MA 172	FA/SP/SU
	BYS 119/121	3/1	Principles of Biology + Lab		FA/SP/SU
	BYS 120/122	3/1	Organismal Biology + Lab		FA/SP/SU
	BYS 219/221	3/1	Genetics and Evolution + Lab	BYS 119, 120, (CH 101 or 121), and (MA 107 or 112)	FA/SP/SU
	BYS 300/300L	4	Cell & Developmental Biology + Lab	BYS 219 and (CH 123 or 201)	FA/SP/SU
			Major Requirem		
			Chemistry Core 22	credits	
	CH 121/125	3/1	General Chemistry I + Lab	Placement* or CH 101	FA/SP/SU
	CH 123/126	3/1	General Chemistry II + Lab	CH 121	FA/SP/SU
	CH 223/224	3/1	Quantitative Analysis + Lab	CH 126	FA/SP/SU
	CH 331/335	3/1	Organic Chemistry I + Lab	CH 123	FA/SP/SU
	CH 332	3	Organic Chemistry II	CH 331	FA/SP/SU
	CH 401	3	Inorganic Chemistry	CH 332	FA
			Pure Chemistry Concentration Requi	red Courses 20-22 credits	
	CH 336	1	Organic Chemistry Lab II	CH 335	FA/SP/SU
	CH 337	2	Organic Chemistry Lab III	CH 336	FA/SP
	CH 341	3	Physical Chemistry I	CH 123, PH 112, MA 201, PH 115	FA
	CH 342	3	Physical Chemistry II	CH 341	SP
	CH 345	1	Experimental Physical Chemistry	CH 223/224	FA
	CH 361/362	3/1	General Biochemistry + Lab	(BYS 120, CH 332, 335) or (BYS 331, CH 332, 335)	FA/SP/SU
	CH 402	1	Inorganic Chemistry Lab	CH 401 w/ conc	SP
	CH 421	4	Instrumental Analysis	CH 341 or CH 347	FA
_	CH 491	1	met amontal / maryolo		17,
	or CH 491 or CH 492 or CH 493	2 3	Intro to Chemical Research	Senior standing (91+ credit hours). Approval of supervising faculty member and Chemistry Chair.	FA/SP/SU
			General Electiv	/es	
	El	ective cour	ses can be taken from any department and do		
			Total = 120+ credits to		

Total = 120+ credits to graduate 36 of the 120 credits must be taken at 300-level or higher.



COLLEGE OF SCIENCE



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		Charger Foundations Choice	S				
I. Freshman Composition	Choose 1	College Writing I & II (EH 101 + 102) Intensive Writing & Studio & Freshman Comp II (EH 101S + 101L & EH 102) Honors English Seminar (EH 105; equivalent to EH 101 & EH 102) Accelerated College Writing (EH 103: equivalent to EH 101 & EH 102)					
II. Fine Arts	Choose 1	Ancient to Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Introduction to Drawing (ARS 160) Intro to Film Studies (FMA 123) Intro to Music Literature (MU 100) Theatre Appreciation (TH 122)					
II. Humanities (Literature)	Choose 1	Readings Literature/Culture I (EH 207) Readings Literature/Culture II (EH 208) Honors Literature/Culture I (EH 209) Honors Literature/Culture II (EH 210) 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)				
II. Humanities (Non-Literature)	Choose 1	Ancient to Medieval Art (ARH 100) Renaissance to Modern Art (ARH 101) World Art (ARH 103) Introduction to Drawing (ARS 160) Ancient & Medieval Worlds (AMS 229) Public Speaking (CM 113) Intro to Film Studies (FMA 123) Intro to Film Studies (FMA 120) Intro to Philosophy (PHL 101)	Intro to Philosophy (PHL 101) Intro to Ethics (PHL 102) Intro to Logic (PHL 103) Science, Tech & Human Values (PHL 150) Theatre Appreciation (TH 122) Intro to Women's Studies (WGS 200) Foreign Language (WLC 101) International Cinema (WLC 204)				
III. Mathematics	\rightarrow	Calculus A (MA 171 or MA 171S)					
III. Natural Sciences (Lab) Sequence	\rightarrow	General Physics w/ Calculus I (PH 111/114) General Physics w/ Calculus II (PH 112/115)					
IV. History	Choose 1	World History I (HY 103) World History II (HY 104)	United States to 1877 (HY 221) United States Since 1877 (HY 222)				
IV. Social & Behavioral Sciences	Choose 2	World Geography (AES 105) Human Geography (AES 110) Global systems & Cultures (GS 200) Macroeconomics (ECN 142) Microeconomics (ECN 143) American Gov't (PSC 101) Politics & Foreign Govt (PSC 102)	International Relations (PSC 260) General Psychology (PY 101) Life Span Development (PY 201) Intro to Sociology (SOC 100) Analysis of Social Problems (SOC 102) Intro to Criminology (SOC 103)				
Students must take one literature and one history course. Students must also take either a second literature or history/social & behavioral science course to complete a sequence.							
Area II Sequence							
OR							
Area IV Sequence Take either 2 nd History OR 3 nd Social & Behavioral Science AND Fine Arts or Non-Literature Humanities or Literature Humanities							