## MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS CHEMISTRY** Option: **BIOCHEMISTRY** 

Major Field Requirements: **52.0 Credits** Other Requirements: **29.0-30.0 Credits** 

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the
Liberal Arts Core subject to normal distribution rules.

111 112 188 231	Intro Chemistry I Intro Chemistry II		)	RE	OUIR	ED RELATED (29.0-30.0	) anadita)
112 188 231	Intro Chemistry II	4.0	REQUIRED CHEMISTRY COURSES (47.0 Credits)				
112 188 231	Intro Chemistry II	4.0			Ma	thematics (12.0 credits)	
188 231	•	4.0		MATH		Calculus I	4.0
	Freshman Seminar	1.0		MATH	211	Calculus II	4.0
232	Organic Chem I	4.0		MATH	311	Calculus III	4.0
	Organic Chem II	4.0					
251	Inorganic Chem I	3.0			Phys	ics (10.0 credits)	
265	Quant Analysis	4.0		PHYS	231	Physics I with Calc	5.0
326	Biochemistry I	4.0		PHYS	232	Physics II with Calc	5.0
327	Biochemistry II	4.0					
328	Analytical Biochem Lab	1.0			BIOI	LOGY (7.0-8.0 credits)	
341	Physical Chem I	4.0		Den	onstra	ate competency in Biology	100*
342	Physical Chem II	4.0		BIOL	364	Fndns Genetics/Mole	4.0
465	Analytical Chemistry	4.0					
487	Seminar in Chem I	0.5		Select or	ne add	litional course from the fo	ollowing:
488	Seminar in Chem II	0.5		BIOL	362	Cell/Devel Biology	4.0
498	Independent Study	1.0		BIOL	461	General Microbiol	3.0
				BIOL	462	Molecular Biology	4.0
CHEMISTRY ELECTIVES (5.0 Credits)				*Competency may be demonstrated by one of the			
312	Chem in Nanotech	3.0		_	-	•	
300	Cooperative Educ	3.0			-	de of "A" or "B" in AP Bio	ology
	=	3.0		2) a score of 3 or better in the national AP exam			
375	Environmental Chem	4.0		3) a successful score on the CLEP exam			
381	Polymer Chemistry I	4.0		4) a passing grade for General Biology (BIOL 100):			
391	Advanced Lab I	1.0		required for 300 or 400-level courses. B- or higher			
392	Advanced Lab II*	1.0		is require	ed if c	hanging to biology major.	
435	Advanced Organic Chem	3.0		_			
452	Inorganic Chem II	3.0			(	General Electives (as neces	ssary)
476	Environmental Chem II	4.0					
482	Polymer Chemistry II	3.0					
486	Topics in Chemistry	1.0-4.0	)				
498	Independent Study **	1.0-3.0	)				
489	Department Honors	1.0-3.0					
499	Department Honors	1.0-3.0					
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ACS certification in Biochemistry.							
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1	326 327 328 341 342 465 487 488 498 <b>IIST</b> 312 300 400 375 381 392 435 446 486 498 489 499 etive ficati	Biochemistry I Biochemistry II Biochemistry II Biochemistry II Biochemistry II Biochemistry II Biochem Lab Analytical Chem I Physical Chem II Analytical Chemistry Seminar in Chem II Seminar in Chem II Independent Study  IISTRY ELECTIVES (5.0 Credits) Cooperative Educ Cooperative Educ Cooperative Educ Final Polymer Chemistry I Advanced Lab II Advanced Lab II Advanced Companic Chem Inorganic Chem II Environmental Chem II Folymer Chemistry II Companic Chem II Companic Chem II Companic Chem II Companic Chemistry Companic Chemist	Biochemistry I 4.0 Biochemistry II 4.0 Biochem II 6.5 Beminar in Chem II 6.5 Beminar in Chem II 6.5 Beminar in Chem II 6.5 Biochem II 6.5 Biochemistry 1.0 Biochemistry 1.0 Biochemistry II 6.0 Biochemistry I 7.0 Biochemistry II 7.0 Bioch	326 Biochemistry I	326 Biochemistry I 4.0	Second   S	326 Biochemistry I 327 Biochemistry II 328 Analytical Biochem Lab 329 Analytical Biochem Lab 320 Physical Chem I 320 Physical Chem I 321 Physical Chem II 322 Physical Chem II 323 Analytical Biochemistry 324 Physical Chem II 325 Advanced Lab 326 Analytical Chem II 327 Biochemistry 328 Analytical Biochemistry 329 BIOL 364 Finding Genetics/Mole 320 Select one additional course from the form of the selection of the