Degree Worksheet for the College of Arts and Sciences: 2023-2024 B.A. CHEMISTRY

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COLLEGE of ARTS & SCIENCES Language Requirement			B.A. CHEMISTRY:	55 CREDITS
All students who major in the College of Arts & Sciences are demonstrate competence in a second language. For complete	•		LOWER DIVISION	37 Credits
https://www.gonzaga.edu/college-of-arts-sciences/about/informat			Course Course Title	Credits Grade
students/language-requirement-information		-	CHEM 101 General Chemistry	3
	Credits	Sem/Yr	CHEM 101L General Chemistry Lab	1
			CHEM 205 Inorganic Chemistry	3
			CHEM 230 Organic Chemistry I	4
			CHEM 230L Organic Chemistry I Lab	1
UNIVERSITY CORE REQUIREMENT	S:		CHEM 231 Organic Chemistry II	3
FUNDAMENTAL CORE COURSES	•••		CHEM 231L Organic Chemistry II Lab	1
Year 1: Understanding & Creating		<u> </u>	CHEM 245 Biochemistry	3
Writing	Credits	Sem/Yr	CHEM 245L Biochemistry Lab	1
ENGL 101 Writing (fulfills 3 credits Writing Enriched)*	3		CHEM 270 Career Development I	1
Reasoning			MATH 157 Calculus-Analytic Geometry I	4
PHIL 101 Reasoning	3		MATH 258 Calculus-Analytic Geometry II	4
First Year Seminar			MATT 250 calculus Analytic Geometry in	
Dept. 193	3		One of the following sets of two cours	sec.
Communication & Speech			Course Course Title	Credits Grade
	2			
COMM 100 Communication & Speech	3		PHYS 111 General Physics I	4
Math	2		PHYS 112 General Physics II	4
MATH (must be above Math 100)	3			,
Scientific Inquiry (2cr + 1cr lab)	-		PHYS 121 Scientific Physics I	4
BIOL or CHEM or PHYS 104/104L (taken year 1 or 2)	3		PHYS 122 Scientific Physics II	4
Year 2: Being & Becoming				
		Sem/Yr		
RELI (see approved list)**	3		UPPER DIVISION	18 Credits
Philosophy of Human Nature			Course Course Title	Credits Grade
PHIL 201 Philosophy of Human Nature	3		CHEM 310 Analytical Chemistry	3
Year 3: Caring & Doing			CHEM 310L Analytical Chemistry Lab	2
World/Comparative Religion	Credits	Sem/Yr	CHEM 355 Physical Chemistry	3
RELI (see approved list)** (fulfills 3cr Global Studies)*	3		CHEM 355L Physical & Inorganic Chemistr	ry Lab 1
Ethics		·	CHEM 370 Career Development II	1
PHIL 301 Ethics or RELI 330 Principles-Christian Morality	3		CHEM 399 Advanced Topic	2
Year 4: Imagining the Possible			CHEM 485 Seminar	1
Core Integration Seminar	Credits	Sem/Yr	CHEM 488 Senior Literature Review	1
Dept. 432	3			
NOTE: some courses have pre-requisites, check the catalog	-			
NOTE. Some courses have pre-requisites, theth the catalog (cureju	11 y :	One Course in CHEM 405 425 (Plack 1	1
			One Course in CHEM 405-435 (Block 1	•
BROADENING COURSES - see approved list**			Course Course Title	Credits Grade
Social & Behavioral Science		Sem/Yr	CHEM	2
	3			
Literature				
	3		One Course in CHEM 455-480 (Block 2	2)
History			Course Course Title	Credits Grade
	2			
	3		CHEM	2
Fine Arts & Design	-			
	3			
REQUIRED COURSE DESIGNATIONS - see approved I				
*Writing Enriched		Sem/Yr		
	total			
Social Justice		;		
	total			
*Global Studies				
	total			
**for list of approved RELI, Broadening & Designated cours				
https://mv.gonzaga.edu/academics/undergraduate-programs/gene	eral-de	aree-		

College of Arts and Sciences: 2023-2024 B.A. CHEMISTRY - <u>SAMPLE</u> Yearly Progression

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55 credits required for the Major

Freshman

	riesiinan		
FALL		SPRING	
Course Course Title	Credit: Grade	Course Course Title	Credit: Grade
CHEM 101 General Chemistry	3	CHEM 230 Organic Chemistry I	4
CHEM 101L General Chemistry Lab	1	CHEM 230L Organic Chemistry I Lab	1
MATH 157 Calculus-Analytic Geometry I	4	MATH 258 Calculus-Analytic Geometry II	4
CORE ⁽¹⁾	3	CORE ⁽¹⁾	3
CORE ⁽¹⁾	3	CORE ⁽¹⁾	3
	14		15

Sophomore								
FALL		-		SPRING				
Course	Course Title	Credit: Gi	irade	Course Course Title	Credit	Grade		
CHEM	231 Organic Chemistry II	3		CHEM 270 Career Development I	1			
CHEM	231L Organic Chemistry II Lab	1		CHEM 310 Analytical Chemistry	3			
CHEM	205 Inorganic Chemistry	3		CHEM 310L Analytical Chemistry Lab	2			
	CORE ⁽²⁾	3		CORE ⁽²⁾	3			
	CORE ⁽²⁾	3		CORE ⁽²⁾	3			
	CORE ⁽²⁾	3		CORE ⁽²⁾	3			
		16			15			
		Junio	r					
FALL				SPRING				
Course	Course Title	Credit: Gi	irade	Course Course Title	Credit	Grade		
CHEM	245 Biochemistry	3		CHEM 370 Career Development II	1			
CHEM	245L Biochemistry Lab	1		CHEM xxx ⁽⁶⁾ Advanced Topic/Special Topic	2			
PHYS	103 ⁽⁵⁾ Scientific Physics I	4		PHYS 204 ⁽⁵⁾ Scientific Physics II	4			
	CORE ⁽³⁾	3		CORE ⁽³⁾	3			
	CORE ⁽³⁾	3		CORE ⁽³⁾	3			
		14			13			
Senior								
FALL				SPRING				
Course	Course Title	Credit: G		Course Course Title	Credits	Grade		
CHEM	485 Seminar	1		CHEM xxx ⁽⁶⁾ Advanced Topic/Special Topic	2			
CHEM	488 Senior Literature Review	1		CHEM xxx ⁽⁶⁾ Advanced Topic/Special Topic	2			
	355 Physical Chemistry	3		CORE ⁽⁴⁾	3			
CHEM	355L Physical & Inorganic Chemistry Lab	1		CORE ⁽⁴⁾	3			
	CORE ⁽⁴⁾	3		CORE ⁽⁴⁾	3			
	CORE ⁽⁴⁾	3			13			
		12						

NOTES:

- 1. Students must take the First Year Seminar (*DEPT* 193) in their first year, and they are encouraged to take COMM 100, PHIL 101, and ENGL 101 in their first year.
- 2. Students are encouraged to complete the 2nd year Core courses in their second year.
- 3. Students are encouraged to complete the 3rd year Core courses in their third year.
- 4. Students are encouraged to complete the Core Integration Seminar (CIS) (DEPT 432) in their fourth year.
- 5. Students may take the PHYS 101/102 sequence instead of the PHYS 103/204 sequence.
- 6. Students must complete one Advanced Topic (CHEM 399) course, one Special Topic-Block 1 (CHEM 405-435) course, and one Special Topic-Block 2 (CHEM 455-480) course.