College of Arts and Sciences 2024-2025 Degree Worksheet **B.S. BIOCHEMISTRY (ACS Approved option)**

COLLEGE of ARTS & SCIENCES Language Requirement

			ACS Approved option
require	d to	LOWE	R DIVISION
		Course	Course Title
tion-for-		CHEM	101 General Chemistry I
			101L General Chemistry I L
Credits	Sem/Yr		102 General Chemistryll
ľ		0	102L General Chemistry La
			230 Organic Chemistry I
			230L Organic Chemistry I L
TÇ.			231 Organic Chemistry II
13.			231L Organic Chemistry II
			285 Intro to the Chemical
Credits	Sem/Yr		105 Info Flow in Biological
P. Contract of the Contract of			105L Info Flow in Biologica
			106 Energy Flow in Biologi
2			157 Calculus-Analytic Geor
<u> </u>			258 Calculus-Analytic Geor
2			
3			121 Scientific Physics I la
3 [121L Scientific Physics I La
3			122 Scientific Physics II
a [PHYS	122L Scientific Physics II La
3			D D 11/1/21/21
a [R DIVISION
3			Course Title
G 111			305 Inorganic Chemistry
P. Contract of the Contract of	Sem/Yr		307 Biochemistry I
3		0	307L Biochemistry I Lab
- 1			308 Biochemistry II
3			310 Analytical Chemistry
			310L Analytical Chemistry
The state of the s	Sem/Yr		345L Advanced Biochemist
3		CHEM	356 Thermodynamics & Ki
		CHEM	356L Thermodynamics & K
y 3		CHEM	399 Advanced Topic
		CHEM	485 Seminar
Credits	Sem/Yr		
3		One of	f the following options:
carefull	lv!		488 Senior Literature Revie
	,		
		CHFM	498A Thesis I
Credits	Sem/Yr		498B Thesis II
r		CITEIVI	CHEM 498A & 498B are requ
<u> </u>			CILIVI 430A & 430D are requ
2		000	ourse from CUENA AOF AG
3			ourse from CHEM 405-48
			Course Title
3		CHEM	
r			
3		One El	ective Course from the f
		Course	Course Title
l list**		CHEM	CHEM course 405-480
	Sem/Yr	BIOL	300-400 level approved Bio
Credits.			
9 total		PHYS	300-400 level approved Ph
		PHYS	300-400 level approved Ph
		PHYS	300-400 level approved Ph
	te details tion-for- Credits TS: Credits 3 3 Credits 4	Credits Sem/Yr 3 3 3 3 Credits Sem/Yr 3 Credits Sem/Yr	te details: tion-for- Credits Sem/Yr TS: Credits

	6 total
**for list of approved RELI, Broadening & Designated coul	rses, see :
https://my.gonzaga.edu/academics/undergraduate-programs/gen	eral-degree-
requirements-procedures/university-core	

B.S. I	BIOCHEMISTRY:	71-73	CRE	DITS	
	ACS Approved option				
LOWE	R DIVISION		42 Cı	redits	
Course	Course Title		Credits	Grade	
CHEM	101 General Chemistry I		3		
CHEM	101L General Chemistry I Lab		1		
CHEM	102 General ChemistryII		3		
CHEM	102L General Chemistry Lab II		1		
CHEM	230 Organic Chemistry I		3		
CHEM	230L Organic Chemistry I Lab		1		
CHEM	231 Organic Chemistry II		3		
CHEM	231L Organic Chemistry II Lab		1		
CHEM	285 Intro to the Chemical Sciences		1		
BIOL	105 Info Flow in Biological Systems		3		
BIOL	105L Info Flow in Biological Systems I	₋ab	1		
BIOL	106 Energy Flow in Biological Systems	S	3		
MATH	157 Calculus-Analytic Geometry I		4		
MATH	258 Calculus-Analytic Geometry II		4		
PHYS	121 Scientific Physics I		4		
PHYS	121L Scientific Physics I Lab		1		
PHYS	122 Scientific Physics II		4		
PHYS	122L Scientific Physics II Lab		1		
UPPF	UPPER DIVISION 29-31 Credits				

	UPPE	R DIVISION	29-31 Cr	redits
	Course	Course Title	Credits	Grade
	CHEM	305 Inorganic Chemistry	3	
r	CHEM	307 Biochemistry I	3	
	CHEM	307L Biochemistry I Lab	1	
	CHEM	308 Biochemistry II	3	
	CHEM	310 Analytical Chemistry	3	
	CHEM	310L Analytical Chemistry Lab	1	
r	CHEM	345L Advanced Biochemistry Lab	3	
	CHEM	356 Thermodynamics & Kinetics	3	
	CHEM	356L Thermodynamics & Kinetics Lab	1	
	CHEM	399 Advanced Topic	2	
_	CHEM	485 Seminar	1	

CHEM	488 Senior Literature Review	1	
OR			
CHEM	498A Thesis I	1	
CHEM	498B Thesis II	1	

CHEM 498A & 498B are required for ACS approved degree

One Course from CHEM 405-480

Course	Course Title	Credits Grade	е
CHEM		2	\Box

One Elective Course from the following:

	Course	Course Title	Credits	Grade
	CHEM	CHEM course 405-480	2	
	BIOL	300-400 level approved Biology topic	3	
1	PHYS	300-400 level approved Physics topic	3	