## **Grove City College Status Sheet**

Status Sheets are provided as a convenience for the student and may be helpful for recording completed courses. However, the College Bulletin is the controlling authority on all requirements. Questions should be directed to your academic advisor or the Registrar.

(WI)=Writing Intensive, (SI)=Speaking Intensive, (IL)=Information Literacy courses.

## B.S. in Biochemistry with Concentration in Chemical Synthesis Entering in 2024

(REVISED 04-08-2024)

ID#				Date:				
Year of Ant	ticipated Graduation:			Advisor:				
TOTAL HOURS REQUIRED FOR THIS DEGREE128 HOURS			Minimum CQPA and MQPA required for graduation			2.00		
				MQPA Cours	ses		CHE	M, BIOL
General Edu	cation + Elective Requirements		48 HOURS	Major Requirements			80 HOURS	
GENERAL ED	UCATION REQUIREMENTS		24 HOURS	BIOCHEMISTE	RY CORE REQUIREMENTS			53 HOURS
		Cr. Sem. Taken	Grade			Cr.	Sem. Taken	Grade
HUMANITIES	S CORE		15 HOURS	CHEM 111	General Chemistry I	3		
HUMA 102	Civ and the Biblical Revelation (IL)*	3		CHEM 113	General Chemistry I Lab	1		
HUMA 200	Western Civilization	3		CHEM 112	General Chemistry II	3		
<b>HUMA 202</b>	Civilization and Literature	3		CHEM 114	General Chemistry II Lab	1		
HUMA 301	Civilization and the Arts	3		CHEM 141	Beginning Biochemistry	2		
HUMA 303	Christianity and Civilization	3		CHEM 227	Analytical Chemistry	4		
*The year-	-long sequence of RELI 211 and 212 ma	y substitute for this cou	ırse.	CHEM 231	Descriptive Inorganic/Bioinorganic Chem.	2		
				CHEM 235	Chemistry in Context (IL)	1		
WRITING RE	EQUIREMENT			CHEM 241	Organic Chemistry I	4		
WRIT 101	Found. of Academic Discourse (WI/IL	.) 3		CHEM 242	Organic Chemistry II	4		
				CHEM 342	Physical Chemistry of Biological Systems	4		
STUDIES IN	SCIENCE, FAITH, & TECHNOLOGY (S	SFT)	2 HOURS	CHEM 351	Biochemistry I	4		
Choose one	course from the following:			CHEM 352	Biochemistry II	4		
COMP 205/S	SFT 205 Ethics, Faith, and the Conscion	us Mind		CHEM 451	Biochemistry: Data & Analysis	3		
PHIL 243	Science and the Human: Inquiry, Des	sign, & the Person		CHEM 487	Biochemistry Seminar (WI/SI)	1		
SSFT 210	Science & Religion			BIOL 101	General Biology I	4		
SSFT 212	Science, Faith, Technology, & Origins	3		BIOL 233	Genetics	4		
				BIOL 234	Cell Biology	4		
		2						
		<del>-</del>		MAJOR RELA	TED REQUIREMENTS			19 HOURS
FOUNDATIONS OF THE SOCIAL SCIENCES 3			3 HOURS	MATH 161	Calculus I	4		
Choose one	course from the following:			MATH 162	Calculus II	4		
ECON 120	Foundations of Economics	PSYC 101 Foundati	ons of Psychology	_				
HIST 120	Foundations of History	PSYC 200 Cross-Cu	ultural Psychology	PHYS 101	General Physics I AND			
HIST 141	World Geography	SOCI 101 Foundation	ons of Sociology	PHYS 102	General Physics II	4		
HIST 204	Hist/Phil Foundations of Education	SOCI 103 Found. of	f Cultural Anthr.	OR				
POLS 101	Foundations of Political Science	SOCW 101 Found.	of Social Work	PHYS 121	College Physics I AND	4		
				PHYS 122	College Physics II			
		_ 3						
		<del>-</del>		PSYC 201	Statistical Methods	3		
QUANTITAT	IVE/LOGICAL REASONING		0 HOURS					
College requirements met through major-related coursework.			CONCENTRA	TION REQUIREMENTS			8 HOURS	
				CHEM 422	Inorganic Synthesis Laboratory	2		
NATURAL SCIENCES (with labs)0 HOURS			0 HOURS	CHEM 431	Adv. Inorganic/Organometallic Chemistry	2		
College requi	irements met through major-related cours	sework.		CHEM 453	Adv. Molecular Spectroscopy	2		
				CHEM 458	Adv. Synthesis Laboratory	2		
PHYSICAL E	EDUCATION		1 HOURS					
PHYE 100	Healthful Living	1						
·				GENERAL EL	ECTIVES			24 HOURS
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## SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN BIOCHEMISTRY with a CHEMICAL SYNTHESIS CONCENTRATION

## Freshman Year

	Fres	anman tear					
<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>				
CHEM 111 General Chemistry I	3	CHEM 112 General Chemistry II	3				
CHEM 113 General Chemistry I Lab	1	CHEM 114 General Chemistry II Lab	1				
BIOL 101 General Biology I	4	CHEM 141 Beginning Biochemistry	2				
MATH 161 Calculus I	4	MATH 162 Calculus II	4				
WRIT 101 Foundations of Academic Discourse	3	HUMA 102 Civ and the Biblical Revelation	3				
General Elective	<u>1</u>	PHYE 100 Healthful Living	1				
	16	General Electives	<u>2</u>				
			16				
	Soph	nomore Year					
<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>				
CHEM 235 Chemistry in Context	1	CHEM 231 Descriptive Inorg/Bioinorg Chemistry	2				
CHEM 241 Organic Chemistry I	4	CHEM 242 Organic Chemistry II	4				
BIOL 233 Genetics	4	BIOL 234 Cell Biology	4				
HUMA 200 Western Civilization	3	HUMA 202 Civilization and Literature	3				
PSYC 201 Statistical Methods	<u>3</u>	Foundations of Social Science Course	<u>3</u>				
	15		16				
Junior Year							
<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>				
CHEM 227 Analytical Chemistry	4	CHEM 352 Biochemistry II	4				
CHEM 351 Biochemistry I	4	PHYS 122 College Physics II	4				
PHYS 121 College Physics I	4	CHEM 342 Physical Chemistry of Biological Systems	4				
HUMA 301 Civilization and the Arts	3	SSFT Course	2				
General Elective	<u>2</u>	General Elective	<u>2</u>				
	17		16				
	Se	nior Year					
<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>				
CHEM 422 Inorganic Synthesis Laboratory	2	CHEM 487 Biochemistry Seminar	1				
CHEM 431 Adv. Inorganic/Organometallic Chem	nistry2	CHEM 453 Adv. Molecular Spectroscopy	2				
CHEM 451 Biochemistry: Data & Analysis	3	CHEM 458 Adv. Synthesis Laboratory	<u>2</u>				
General Electives	<u>9</u>	HUMA 303 Christianity and Civilization	3				
	16	General Electives	<u>8</u>				
			16				

The schedule above satisfies the 128 required credit hours for graduation.

There is a great deal of flexibility in the Junior and Senior years.

Students should be aware that some electives are only available in specific semesters.