

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 2025
(REVISED 02-28-2025)

Name: _____
ID# _____
Year of Anticipated Graduation: _____

Date: _____
Advisor: _____

TOTAL HOURS REQUIRED FOR THIS DEGREE----- 128 HOURS

General Education + Elective Requirements----- 48 HOURS

GENERAL EDUCATION REQUIREMENTS----- 26 HOURS

	Cr.	Sem. Taken	Grade
HUMANITIES CORE-----			18 HOURS
HUMA 100 The Humanities: Christian Wisdom	1		
HUMA 200 Western Civilization	3		
HUMA 202 Civilization and Literature	3		
HUMA 204 Civilization and the Arts	3		
HUMA 261 Scripture & Theology for the Chr. Life I	3		
HUMA 271 Scripture & Theology for the Chr. Life II	3		
HUMA 300 Gospel & the Good Life: Christian Ethics	2		

WRITING REQUIREMENT----- 3 HOURS

WRIT 101 Found. of Academic Discourse (WI/IL) 3 _____

FOUNDATIONS OF THE SOCIAL SCIENCES*----- 3 HOURS

Choose one course from the following:

PSYC 101 Foundations of Psychology	
PSYC 200 Cross-Cultural Psychology	
PSYC 101 Foundations of Social Work	
SOCI 101 Foundations of Sociology	
SOCI 103 Found. of Cultural Anthr.	

3 _____

NATURAL SCIENCE (with lab)/ QUANTITATIVE/LOGICAL REASONING---- 0 HOURS

(1) Natural Science with lab 4 (Met through major)

(2) Quantitative/Logical Reasoning 3-4 (Met through major)

(3) Third course in Natural Science, 3-4 (Met through major)
Quantitative or Logical Reasoning

STUDIES IN SCIENCE, FAITH, & TECHNOLOGY ----- 2 HOURS

Choose one course from the following:

COMP 205/SSFT 205 Ethics, Faith, and the Conscious Mind

PHIL 243 Science and the Human: Inquiry, Design, & the Person

SSFT 210 Science & Religion

SSFT 212 Science, Faith, Technology, & Origins

2 _____

Minimum CQPA and MQPA required for graduation-----2.00

MQPA Courses-----CHEM, BIOL

Major Requirements-----80 HOURS

BIOCHEMISTRY CORE REQUIREMENTS----- 53 HOURS

	Cr.	Sem. Taken	Grade
CHEM 111 General Chemistry I	3		
CHEM 113 General Chemistry I Lab	1		
CHEM 112 General Chemistry II	3		
CHEM 114 General Chemistry II Lab	1		
CHEM 141 Beginning Biochemistry	2		
CHEM 227 Analytical Chemistry	4		
CHEM 231 Descriptive Inorganic/Bioinorganic Chem.	2		
CHEM 235 Chemistry in Context (IL)	1		
CHEM 241 Organic Chemistry I	4		
CHEM 242 Organic Chemistry II	4		
CHEM 342 Physical Chemistry of Biological Systems	4		
CHEM 351 Biochemistry I	4		
CHEM 352 Biochemistry II	4		
CHEM 451 Biochemistry: Data & Analysis	3		
CHEM 487 Biochemistry Seminar (WI/SI)	1		
BIOL 101 General Biology I	4		
BIOL 233 Genetics	4		
BIOL 234 Cell Biology	4		

MAJOR RELATED REQUIREMENTS----- 19 HOURS

MATH 161 Calculus I 4 _____

MATH 162 Calculus II 4 _____

PHYS 101 General Physics I **AND**

PHYS 102 General Physics II 4 _____

OR

PHYS 121 College Physics I **AND**

PHYS 122 College Physics II 4 _____

PSYC 201 Statistical Methods 3 _____

CONCENTRATION REQUIREMENTS----- 8 HOURS

CHEM 422 Inorganic Synthesis Laboratory 2 _____

CHEM 431 Adv. Inorganic/Organometallic Chemistry 2 _____

CHEM 453 Adv. Molecular Spectroscopy 2 _____

CHEM 458 Adv. Synthesis Laboratory 2 _____

GENERAL ELECTIVES----- 22 HOURS

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN BIOCHEMISTRY with a CHEMICAL SYNTHESIS CONCENTRATION

Freshman Year

<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
Writing Requirement or HUMA Course.....	3	Writing Requirement or HUMA Course.....	3
HUMA 100 The Humanities: Christian Wisdom.....	<u>1</u>	General Electives.....	<u>2</u>
	16		15

Sophomore 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 Course	3	HUMA Course	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 Course	3	SSFT Course.....	2
General Elective.....	<u>2</u>	General Elective.....	<u>3</u>
	17		17

Senior 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 Chemistry.....	2	CHEM 453 Adv. Molecular Spectroscopy.....	2
CHEM 451 Biochemistry: Data & Analysis.....	3	CHEM 458 Adv. Synthesis Laboratory.....	2
HUMA Course	3	HUMA 300 Gospel and the Good Life: Christian Ethics.....	2
General Electives.....	<u>6</u>	General Electives.....	<u>9</u>
	16		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.