

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 2021

(REVISED 01-01-2021)

Name: _____

ID#: _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

General Education + Elective Requirements-----46 HOURS

GENERAL EDUCATION REQUIREMENTS-----24 HOURS

	Cr.	Sem. Taken	Grade
HUMANITIES CORE-----15 HOURS			
HUMA 102 Civ and the Biblical Revelation (IL)*	3	_____	_____
HUMA 200 Western Civilization	3	_____	_____
HUMA 202 Civilization and Literature	3	_____	_____
HUMA 301 Civilization and the Arts	3	_____	_____
HUMA 303 Christianity and Civilization	3	_____	_____

*The year-long sequence of RELI 211 and 212 may substitute for this course.

WRITING REQUIREMENT-----3 HOURS

WRIT 101 Found. of Academic Discourse (IL)	3	_____	_____
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STUDIES IN SCIENCE, FAITH, & TECHNOLOGY (SSFT)-----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

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

Choose one course from the following:

ECON 120 Foundations of Economics PSYC 101 Foundations of Psychology

HIST 120 Foundations of History PSYC 200 Cross-Cultural Psychology

HIST 141 World Geography SOCI 101 Foundations of Sociology

HIST 204 Hist/Phil Foundations of Education SOCI 103 Found. of Cultural Anthr.

POLS 101 Foundations of Political Science SOCW 101 Found. of Social Work

_____	3	_____	_____
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QUANTITATIVE/LOGICAL REASONING-----0 HOURS

College requirements met through major-related coursework.

NATURAL SCIENCES (with labs)-----0 HOURS

College requirements met through major-related coursework.

PHYSICAL EDUCATION-----1 HOURS

PHYE 100 Healthful Living	1	_____	_____
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Minimum CQPA and MQPA required for graduation-----2.00

MQPA Courses-----CHEM, BIOL

Major Requirements-----82 HOURS

BIOCHEMISTRY CORE REQUIREMENTS-----55 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 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 102 General Biology II	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	4	_____	_____
PHYS 122 College Physics II			

PSYC 201 Statistical Methods	3	_____	_____
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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	BIOL 102 General Biology II.....	4
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.....	<u>1</u>
	16		16

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 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 342 Physical Chemistry of Biological Systems.....	4
CHEM 351 Biochemistry I.....	4	CHEM 352 Biochemistry II.....	4
PHYS 121 College Physics I.....	4	PHYS 122 College Physics II.....	4
SSFT Course.....	2	HUMA 303 Christianity and Civilization.....	<u>3</u>
General Elective.....	<u>3</u>		15
	17		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 451 Biochemistry: Data & Analysis.....	3	CHEM 487 Biochemistry Seminar.....	1
HUMA 301 Civilization and the Arts.....	3	CHEM 453 Adv. Molecular Spectroscopy.....	2
CHEM 422 Inorganic Synthesis Laboratory.....	2	CHEM 458 Adv. Synthesis Laboratory.....	2
CHEM 431 Adv. Inorganic/Organometallic Chemistry.....	2	General Electives.....	<u>11</u>
General Electives.....	<u>7</u>		16
	17		

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.