

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 Chemistry 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-----	53 HOURS

Minimum CQPA and MQPA required for graduation-----	2.00
MQPA Courses-----	CHEM
Major Requirements-----	75 HOURS

GENERAL EDUCATION REQUIREMENTS-----		26 HOURS	
		Cr.	Sem. Taken
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:		
ECON 120	Foundations of Economics	PSYC 101 Foundations of Psychology
HIST 120	Foundations of History	PSYC 200 Cross-Cultural Psychology
HIST 204	Historical & Phil. Found. of Education	SOCW 101 Foundations of Social Work
POLS 101	Foundations of Political Science	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, Quantitative or Logical Reasoning	3-4	(Met through major)

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

GENERAL ELECTIVES-----		27 HOURS	

CHEMISTRY CORE REQUIREMENTS-----		42 HOURS	
		Cr.	Sem. Taken
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 245	Introduction to Molecular Modeling	2	
CHEM 345	Microscopic Physical Chemistry	4	
CHEM 346	Macroscopic Physical Chemistry	4	
CHEM 406	Instrumental Analysis	4	
CHEM 422	Inorganic Synthesis Laboratory	2	
CHEM 431	Advanced Inorg/Organomettalic Chemistry	2	
CHEM 488	Chemistry Seminar (WI/SI)	1	

CHEMISTRY CONCENTRATON OPTIONS-----		10 HOURS	
No concentration: Choose any 10 hours from the Chemistry electives below.			
ACS Certified: CHEM 351, 463; and four hours of Chemistry electives from the choices below.			
Biochemistry: CHEM 351, 352, and two hours of Chemistry electives from the choices below.			
Computational Modeling (18 hours)*: COMP 220, 222; CHEM 445, 471, and eight hours of Chemistry electives from the choices below.			
Forensic Chemistry (18 hours)*: CHEM 151, 408; CHEM 351 or four hours of Chemistry electives from the choices below; STAT 131 or PSYC 201; and two of SOCI 233, 314, or PSYC 315.			
Physical Chemistry: CHEM 441, 445, and six hours of Chemistry electives from the choices below.			
Synthetic Chemistry: CHEM 453, 458, and six hours of Chemistry electives from the choices below.			

CHEMISTRY ELECTIVES			
CHEM 351	Biochemistry I	4	
CHEM 352	Biochemistry II	4	
CHEM 441	Crystal Structure Analysis	2	
CHEM 445	Advanced Computational Chemistry	2	
CHEM 453	Advanced Molecular Spectroscopy	2	
CHEM 458	Advanced Syntheses Lab	2	
CHEM 463	Polymer Chemistry	2	
CHEM 466	Advanced Organic Chemistry	2	

MAJOR RELATED REQUIREMENTS-----		23 HOURS	
MATH 161	Calculus I	4	
MATH 162	Calculus II	4	
MATH 261	Calculus III	4	
PHYS 101	Gen. Physics I or PHYS 121 College Physics I	4	
PHYS 102	Gen. Physics II or PHYS 122 College Physics II	4	
COMP 141	Computer Programming I OR		
COMP 155	Introduction to Computer Science	3	

*Students pursuing the Computational Modeling or Forensic Chemistry Concentrations will only have 19 general elective credits to complete.

SAMPLE FOUR-YEAR PLAN for the BACHELOR OF SCIENCE IN CHEMISTRY

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
MATH 161 Calculus I.....	4	MATH 162 Calculus II.....	4
PHYS 121 College Physics I or PHYS 101 Gen. Physics I.....	4	PHYS 122 College Physics II or PHYS 102 Gen. Physics II.....	4
Writing Requirement or HUMA Course.....	3	Writing Requirement or HUMA Course.....	3
HUMA 100 The Humanities: Christian Wisdom.....	<u>1</u>	General Elective.....	<u>1</u>
	16		16

Sophomore Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 227 Analytical Chemistry.....	4	CHEM 231 Descriptive Inorg/Bioinorganic Chemistry.....	2
CHEM 235 Chemistry in Context.....	1	CHEM 242 Organic Chemistry II.....	4
CHEM 241 Organic Chemistry I.....	4	CHEM 245 Introduction to Molecular Modeling.....	2
MATH 261 Calculus III.....	4	HUMA Course	3
HUMA Course	<u>3</u>	SSFT Course.....	2
	16	General Elective.....	<u>3</u>
			16

Junior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 345 Microscopic Physical Chemistry.....	4	CHEM 346 Macroscopic Physical Chemistry.....	4
COMP 155 Introduction to Computer Science.....	3	CHEM 406 Instrumental Analysis.....	4
HUMA Course	3	Chemistry Elective.....	2
Foundations of Social Science Course.....	3	HUMA Course	3
General Elective.....	<u>3</u>	General Electives.....	<u>4</u>
	16		17

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 422 Inorganic Synthesis Laboratory.....	2	Chemistry Electives.....	4
CHEM 431 Advanced Inorg/Organometallic Chemistry....	2	General Electives.....	<u>11</u>
CHEM 488 Chemistry Seminar.....	1		15
HUMA 300 Gospel and the Good Life: Christian Ethics....	2		
Chemistry Electives.....	4		
General Electives.....	<u>5</u>		
	16		

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

Students should be aware that some elective courses are only available in specific semesters - each student should check with his/her academic advisor accordingly.