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 2021

(REVISED 03-01-2021)

Name: _____

ID# _____ **Date:** _____

Year of Anticipated Graduation: _____ **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---------- 24 HOURS

HUMANITIES CORE---------- 15 HOURS

		Cr.	Sem. Taken	Grade
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		

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			
_____		2		

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

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		

GENERAL ELECTIVES---------- 29 HOURS

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CHEMISTRY CORE REQUIREMENTS---------- 42 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 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/Organometallic Chemistry	2		
CHEM 488	Chemistry Seminar (WI, SI)	1		

CHEMISTRY CONCENTRATON OPTIONS---------- 10 HOURS

Choose 10 hours from one of the following options:

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; MATH 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 21 general elective credits to complete.

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

Freshman Year

Fall	Credits	Spring	Credits
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*	4	PHYS 122 College Physics II*	4
WRIT 101 Foundations of Academic Discourse	3	HUMA 102 Civ and the Biblical Revelation	3
PHYE 100 Healthful Living	1	General Elective	1
	16		16

Sophomore Year

Fall	Credits	Spring	Credits
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 202 Civilization and Literature	3
HUMA 200 Western Civilization	3	SSFT Course	2
	16	General Elective	3
			16

Junior Year

Fall	Credits	Spring	Credits
CHEM 345 Microscopic Physical Chemistry	4	CHEM 346 Macroscopic Physical Chemistry	4
COMP 155 Introduction to Computer Science	3	HUMA 303 Christianity and Civilization	3
HUMA 301 Civilization and the Arts	3	Chemistry Elective	2
Foundations of Social Science Course	3	General Electives	7
General Elective	3		16
	16		

Senior Year

Fall	Credits	Spring	Credits
CHEM 422 Inorganic Synthesis Laboratory	2	CHEM 406 Instrumental Analysis	4
CHEM 431 Advanced Inorg/Organometallic Chemistry	2	Chemistry Electives	4
CHEM 488 Chemistry Seminar	1	General Electives	8
Chemistry Electives	4		16
General Electives	7		
	16		

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

*Students choosing to take PHYS 101 and 102 for their physics requirement should check with his/her advisor for schedule planning.

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