

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.

B.S. in Chemistry Entering in 2024

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

(REVISED 04-09-2024)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

General Education + Elective Requirements----- 53 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 (WI/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

_____	2	_____	_____
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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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GENERAL ELECTIVES----- 29 HOURS

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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

MQPA Courses-----CHEM

Major Requirements-----75 HOURS

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 CONCENTRATION 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 21 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
WRIT 101 Foundations of Academic Discourse.....	3	HUMA 102 Civ and the Biblical Revelation.....	3
PHYE 100 Healthful Living.....	<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 202 Civilization and Literature.....	3
HUMA 200 Western Civilization.....	<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 301 Civilization and the Arts.....	3	Chemistry Elective.....	2
Foundations of Social Science Course.....	3	HUMA 303 Christianity and Civilization.....	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
Chemistry Electives.....	4		
General Electives.....	<u>7</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.