

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 2017

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

(REVISED 05-08-17)

Name: _____

ID# _____

Year of Anticipated Graduation: _____

Date: _____

Advisor: _____

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

General Education + Elective Requirements----- 54 HOURS

GENERAL EDUCATION REQUIREMENTS----- 25 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

_____	2	_____	_____
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FOUNDATIONS OF THE SOCIAL SCIENCES----- 3 HOURS

Choose one social science course from the following:

ECON 120 Foundations of Economics

HIST 120 Foundations of History

HIST 204 Hist/Phil Foundations of Education

POLS 101 Foundations of Political Science

PSYC 101 Foundations of Psychology

PSYC 200 Cross-Cultural Psychology

SOCI 101 Foundations of Sociology

SOCI 103 Foundations of Cultural Anthropology

SOCW 101 Foundations 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----- 2 HOURS

PHYE 101 (men) / 111 (women)	1	_____	_____
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PHYE 102 (men) / 112 (women)	1	_____	_____
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GENERAL ELECTIVES----- 29 HOURS

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

MQPA Courses-----CHEM

Major Requirements-----74 HOURS

CHEMISTRY CORE REQUIREMENTS----- 41 HOURS

	Cr.	Sem. Taken	Grade
CHEM 101	General Chemistry I	4	_____
CHEM 102	General Chemistry II	4	_____
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 431	Advanced Inorg/Organometallic Chemistry	3	_____
CHEM 488	Chemistry Seminar (WI, SI)	1	_____

CHEMISTRY CONCENTRATION 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; 352 or 458; and Chemistry electives from the choices below.

Biochemistry: CHEM 351, 352, and Chemistry electives from the choices below.

Physical: CHEM 441, 445, and Chemistry electives from the choices below.

Synthetic: CHEM 453, 458, and 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	_____

SUGGESTED 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 101 General Chemistry I.....	4	CHEM 102 General Chemistry II.....	4
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
Physical Education 101 (men)/111 (women).....	<u>1</u>	Physical Education 102 (men)/112 (women).....	<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	HUMA 303 Christianity and Civilization.....	3
HUMA 301 Civilization and the Arts.....	3	Chemistry Elective.....	2
Foundations of Social Science Course.....	3	General Electives.....	<u>7</u>
General Elective.....	<u>3</u>		16
	16		

Senior Year

<u>Fall</u>	<u>Credits</u>	<u>Spring</u>	<u>Credits</u>
CHEM 431 Advanced Inorg/Organometallic Chemistry....	3	CHEM 406 Instrumental Analysis.....	4
CHEM 488 Chemistry Seminar.....	1	Chemistry Electives.....	4
Chemistry Electives.....	4	General Electives.....	<u>8</u>
General Electives.....	<u>8</u>		16
	16		

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

Students may choose a concentration area in the chemistry major:

Biochemistry: CHEM 351, 352, and Chemistry electives from the choices below.

Physical: CHEM 441, 445, and Chemistry electives from the choices below.

Synthetic: CHEM 453, 458, and Chemistry electives from the choices below.

*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.