

BS CHEMISTRY CURRICULUM (132-136 units)

Institute of Chemistry

College of Science

University of the Philippines, Diliman

FIRST YEAR, First Semester

GE 1 Eng 13 (Writing as Thinking)	3
GE 2 Kas 1* (Kasaysayan ng Pilipinas)	3
GE 3 Arts 1 (Critical Perspective in the Arts)	3
Chem 16 (General Chemistry I)	3
Chem 16.1 (General Chemistry I Lab.)	2
Geol 11 (Principles of Geology)	3
PE	(2)
NSTP ¹	(3)
17	

FIRST YEAR, Second Semester

GE 4 Speech 30 (Public Speaking and Persuasion)	3
Chem 17 (General Chemistry II)	3
Chem 17.1 (General Chemistry II Lab.)	2
Math 21 (Elementary Analysis I)	4
Biology 11 (Fundamentals of Biology I)	3
Biology 11.1 (Fundamentals of Biology I Lab.)	2
PE	(2)
NSTP ¹	(3)
17	

SECOND YEAR, First Semester

Chem 28 (Fundamental of Analytical Chem.)	3
Chem 33 (Fundamentals of Organic Chem.)	3
Chem 101.1 (Lab. Techniques for Organic and Analytical Chemistry)	3
Math 22 (Elementary Analysis II)	5
Physics 71 (Elementary Physics I)	4
PE	(2)
NSTP ¹	(3)
18	

SECOND YEAR, Second Semester

GE 5 Philo 1 (Philosophical Analysis)	3
Chem 34 (Organic Reactions and Spectroscopy)	3
Chem 123 (Advanced Analytical Chemistry)	3
Chem 105 (Mathematical Methods for Chem.)	3
Chem 101.2 (Organic Reactions and Instrumental Methods of Analysis)	3
Physics 71.1 (Elementary Physics Lab. I)	1
PE	(2)
NSTP ¹	(3)
16	

THIRD YEAR, First Semester

GE 6 Fil 40* (Wika, Kultura, at Lipunan)	3
Chem 145 (Principles of Biochemistry)	3
Chem 145.1 (Laboratory Techniques in Biochemistry)	1
Chem 153 (Physical Chemistry: Foundations of Thermodynamics)	3
Physics 72 (Elementary Physics II)	4
Physics 72.1 (Elementary Physics II Lab.)	1
15	

THIRD YEAR, Second Semester

GE 7 Soc Sci 3 (Exploring Gender and Sexuality)	3
Chem 146 (Biochemistry of Metabolism and Informational Pathways)	3
Chem 112 (Principles of Inorganic Chem. and their Application to Representative Elements)	3
Chem 102.1 (Integrated Laboratory for Biochem., Inorg. Chem., and Phy. Chem.)	3
Chem 154 (Physical Chem. of Real Systems)	3
15	

SUMMER: Chem 197 (Special Topics in Applied Chemistry) - 3 units**FOURTH YEAR, First Semester**

Chem 113 (Transition and Rare Earth Elements and their Compounds)	3
Chem 102.2 (Advanced Integrated Lab. for Biochem., Inorg. Chem., and Phy. Chem.)	3
Chem 156 (Introduction to Quantum Chem.)	3
Chem 196 (Undergraduate Seminar)	1
Chem 200 (Undergraduate Thesis)	2
Elective ²	3-5
15-17	

FOURTH YEAR, Second Semester

GE 8 STS 1 (Science, Technology, and Society)	3
GE 9 Elective (Free Choice)	3
GE 10 Elective (Free Choice)	3
Chem 200 (Undergraduate Thesis)	2
PI 100 (The Life and Works of Jose Rizal)	3
Elective ²	3-5
17-19	

¹ Choice of CMT (may be taken Starting first year) or CWTS (may be taken starting second year) Note: As a requirement for graduation, all students are required to take six (6) units in one of the National Service Training Program (NSTP) components. ROTC & Civic Welfare Training Service are offered by UPD.

² Two (2) course electives equivalent to a minimum of 6 units, at least 3 units of which are science electives.

*Kas 1 and Fil 40 satisfy the 6 - unit Philippine Studies requirement