

Bachelor of Science
Chemistry major with Environmental Concentration
214G

Checksheet for Chemistry Majors

- I. Core Curriculum Requirements: Courses totaling 26 s.h. must be completed in addition to the 18 s.h. of courses required for the major that will also meet core curriculum requirements (CHE 1101, 1110, 1102, 1120, MAT 1110, ECO 2030 and GHY 1010). Must complete ENG 1000 and 1100, HIS 1101 and 1102, 12 s.h. of humanities (courses must be from three different areas, including one literature course and one fine arts course), and 2 s.h. of physical activity/wellness courses. 44

- II. Major Requirements (Environmental Concentration) (32 s.h. of Chemistry)
Note: A 2.0 average must be maintained in the major. (All courses in section II.)

CHE 1101 (ND)	Introductory Chemistry I	_____	[3 s.h.]
CHE 1110	Introductory Chemistry I Lab	_____	[1 s.h.]
CHE 1102 (ND)	Introductory Chemistry II	_____	[3 s.h.]
CHE 1120	Introductory Chemistry II Lab	_____	[1 s.h.]
CHE 2201	Organic Chemistry I	_____	[3 s.h.]
CHE 2203	Organic Chemistry I Lab	_____	[1 s.h.]
CHE 2202	Organic Chemistry II	_____	[3 s.h.]
CHE 2204 (W)	Organic Chemistry II Lab	_____	[1 s.h.]
CHE 2210 (W)	Quantitative Analysis	_____	[4 s.h.]
CHE 3000 (S)	Introduction to Chemical Research	_____	[1 s.h.]
CHE 3301 (C)	Physical Chemistry I	_____	[3 s.h.]
CHE 3303 (W)	Physical Chemistry I Laboratory	_____	[1 s.h.]
CHE 3404	Inorganic Chemistry	_____	[3 s.h.]
CHE 4560 (W)	Instrumental Methods of Analysis	_____	[4 s.h.]

Major Designators

2 Writing (W) ___ ___
1 Speaking (S) ___
Communication Proficiency ___

Other Designators

4 Writing (W) ___ ___ ___ ___
(ENG 1000/1100 will count as 2 W)
4 Multi Cultural (MC) ___ ___ ___ ___
(HIS 1101/1102 will count as 2 MC)
1 Cross Disciplinary (CD) ___
2 Numerical Data (ND) ___ ___
2 Computer (C) ___ ___

Physics (10 s.h.)

PHY 1150 (W, ND) Analytical Physics I _____ PHY 1151 (W, ND) Analytical Physics II _____

Mathematics* (8 s.h.)

MAT 1110 (ND) Calculus with Analytic Geometry I _____ MAT 1120 (ND) Calculus with Analytic Geometry II _____

*Students taking a college algebra course before MAT 1110 should enroll in MAT 1025, Algebra and Elementary Functions

Other Sciences (8 s.h.) BIO 1110 Concepts of Biology _____ GLY 1101 (ND) Physical Geology _____

Environmental Concentration:Science and Mathematics (13 s.h.)

CHE 4620	Environmental Chemistry	_____	[4 s.h.]	Prerequisites: CHE 3301, CHE 4560, STT 2810
BIO 3302 (ND, C)	Ecology	_____	[3 s.h.]	
GLY 1103 (ND)	Intro. to Environmental & Applied Geology	_____	[3 s.h.]	
STT 2810 (ND, C)	Intro. to Data Analysis & Stat. Inference	_____	[3 s.h.]	

Social Science (9 s.h.)

ECO 2030	Principles of Economics Price Theory	_____	[3 s.h.]
GHY 1010	Intro. to Physical Geography	_____	[3 s.h.]
GHY 3100	Weather and Climate	_____	[3 s.h.]

One of the following (3 s.h.)

PS 2130	State and Local Government	_____	[3 s.h.]
PS 3280 (W)	Public Policy Analysis	_____	[3 s.h.]

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Core Curr. -18

III. Electives

Recommended Electives:

P&R 1100 Logic I
GHY 3110 Vegetation, Soils, and Landforms
GHY 4820 Geographical Hydrology
GLY 4620 (ND) Hydrogeology
CHE 3302 (C) Physical Chemistry II
CHE 3304 (W) Physical Chemistry II Laboratory
C S 1440 (C) Programming Fundamentals

IV. Minor (optional)

- V. Free electives to total a minimum of 122 s.h.
(2 s.h. of free electives must be outside the major discipline.)