

Bachelor of Science
Chemistry major with Preprofessional and Paramedical Concentration
214E

Checksheet for Chemistry Majors

- I. Core Curriculum Requirements: Courses totaling 32 s.h. must be completed in addition to the 12 s.h. of courses required for the major that will also meet core curriculum requirements (CHE 1101, 1110, 1102, 1120 and MAT 1110). 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), 6 s.h. of social science courses selected from two different areas and 2 s.h. of physical activity/wellness courses. 44

Recommended humanities course: P&R 1100, Logic I (3 s.h.)

Recommended social science course: ECO 2030, Principles of Economic Price Theory (3 s.h.)

- II. Major Requirements (Preprofessional and Paramedical Concentration) (31 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 4580	Biochemistry I	_____	[3 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 Science (6-8 s.h.) _____

An additional 6-8 s.h. selected from either astronomy, biology, geology, or physics. (Physics courses at the 1000 level, and PHY 3350, are not accepted).

Biology (23 s.h.)

BIO 1110 Concepts of Biology _____ [4 s.h.]

BIO 2001 Introduction to Zoology _____ [4 s.h.]

BIO 3301 (ND, W) Animal Physiology _____ [4 s.h.]

BIO 3306 (ND) Genetics _____ [3 s.h.]

BIO 3307 (ND, W) Genetics Laboratory _____ [1 s.h.]

BIO 3308 Bacteriology _____ [4 s.h.]

BIO 3309 Developmental Biology _____ [4 s.h.]

(Appropriate substitutions will be permitted with departmental approval)

Recommended:

BIO 3314 Comparative Vertebrate Zoology _____ [3 s.h.]

BIO 3800 (ND, W, C) Molecular Biology _____ [4 s.h.]

78-80

Core Curr. -12

- III. Minor (optional)

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

10-12

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