

CHEMISTRY, B.S. (40 HOURS)

This Bachelor of Science degree in Chemistry requires 40 credits in chemistry, and does not require any minor or second major. This degree is approved by the American Chemical Society for the training of professional chemists.

The following courses are required for the 40 Credit BS degree. This degree is approved by the American Chemical Society Committee for Professional Training. Physics and Calculus, including Differential Equations, is also required.

Course	Lecture Hr	Lab Hr	Credits
General Chemistry I (Chem121 or 131)	3	3	4
General Chemistry II (Chem122 or 132)	3	3	4
Intro to Research (Chem190)	0	2	1
Organic Chemistry I (Chem221)	3	3	4
Organic Chemistry II (Chem222)	3	3	4
Quantitative Analysis (Chem230)	3	4	4
Biochemistry I (Chem315)	3	0	3
Physical Chemistry I (Chem321)	4	3	5
Physical Chemistry II (Chem322)	4	3	5
Adv. Inorganic Chemistry (Chem421)	3	0	3
Inorganic Chemistry Lab (Chem422)	0	4	1
Special Problems (Chem495)	0	6	2
Total	;		41

Suggested Curriculum for Chemistry Majors

Fall	Spring	Notes
------	--------	-------

Department of Chemistry - Valparaiso University

First Year				
General Chem 121 (or 131)	4	General Chem 122 (or 132)	4	Other = P.E., Social Analysis, or Area Studies. (P.E. can be taken any time.)
Chem Seminar 493	0	Intro Chem Res 190	1	
Math 131 or 151	4	Chem Seminar 493	0	
Freshman Core	5	Math 132 or 152	4	
Other	1-4	Freshman Core	5	
		Other	0-3	
Second Year				
Organic Chem 221	4	Organic Chem 222	4	Other = ENG 200, Social Analysis or Theology Level 2.
Chem Seminar 493	0	Quant Analysis 230	4	
Phys 141	4	Chem Seminar 493	0	
Math 234	4	Phys 142	4	
Other	3	Other	3	
Third Year				
Physical Chem 321	5	Physical Chem 322	5	Other = Social Analysis, Theology Level 2 or 3 Area Studies, and other electives.
Chem Seminar 493	0	Chem Seminar 493	0	
Chem Research 495*	1	Chem Research 495*	1	
Other	9-12	Other	9-12	
Fourth Year				
Biochemistry 315**	4	Inorg Chem Lab 422	1	Other = Theology Level 3,
Inorganic Chem 421	3	Chem Seminar 493	0	

Department of Chemistry - Valparaiso University

Chem Seminar 493	0	Chem Research 495*	1	and other electives.
Chem Research 495*	1	Other	12-15	
Other	9-12			

* Could be taken either third or fourth year. Minimum 2 credits.

** Could be taken either third or fourth year.

General Education Requirements - Freshman Core 10 Cr, Theology 6 Cr, Social Analysis 6 Cr, English 200 3 Cr, Area Studies 6-11 Cr, Physical Education 1 Cr. Also, U.S. Diversity and Global Diversity courses which may also be used for other requirements.

The PDF Footer