

CHEMISTRY, BACHELOR OF SCIENCE WITH A CONCENTRATION IN PHARM D (B.S.)

Course	Title	Credit Hours
Freshman Year		
CHEM 161 & CHEM 163	Chemistry I and Chemistry Laboratory I	4
CHEM 162 & CHEM 164	Chemistry II and Chemistry Laboratory II	4
ENGL 110	Composition I	3
ENGL 111	Composition II	3
MATH 260	Calculus I	4
MATH 261	Calculus II	4
CHEM 132	Professional Practices in CHEM	2
STAT 210	Elementary Statistics I	3
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		3
Credit Hours		30
Sophomore Year		
CHEM 218 & CHEM 219	Analytical Chemistry I and Analytical Chemistry Lab I	4
CHEM 318 & CHEM 319	Analytical Chemistry II and Analytical CHEM Laboratory II	4
CHEM 305 & CHEM 307	Organic Chemistry I and Organic Chemistry Lab I	4
BIOL 120	Principles Of Biology I	4
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		3
CHEM 214	Inorganic Chemistry	3
BIOL 121	Principles Of Biology II	4
BIOL 202	Terminology for the Health Sci	3
BIOL 318	Hum Anatmy/Physiol (Nurs) ^{AND LAB}	4
Credit Hours		33
Junior Year		
PHYS 105 or PHYS 112	Introduction to Physics I or General Physics I	3
PHYS 105 or PHYS 112	Introduction to Physics I or General Physics I	1
PHYS 106 or PHYS 113	Introduction to Physics II or General Physics II	3
PHYS 106 or PHYS 113	Introduction to Physics II or General Physics II	1
CHEM 401	Physical Chemistry I	3
CHEM 214 & CHEM 215	Inorganic Chemistry and Inorganic Chemistry Laboratory	4
CHEM 418	Advanced Organic Chemistry	3
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		2
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		3
PHIL 275	Ethics	3
CHEM 306 & CHEM 308	Organic Chemistry II and Organic Chemistry Lab II	4
Credit Hours		30
Senior Year		
CHEM 422 & CHEM 423	Biochemistry I and Biochemistry Laboratory I	4

CHEM 424 & CHEM 425	Biochemistry II and Biochemistry Laboratory II	4
SPEE 214	Introduction To Public Speakin	3
BIOL 241	Introduction To Microbiology ^{AND LAB}	4
Unrestricted Elective	Transferred from Howard University	4
Restricted Elective	Transferred from Howard University	3
CHEM 330	Intro Chemical Research	2
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		3
Credit Hours		27
Total Credit Hours		120

General Education Requirements for the B.S. Degree

Code	Title	Credit Hours
GE English Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geenglishelectivestext)		
GE Global Studies Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geglobalstudiestext)		
GE History Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gehistoryelectivestext)		
GE Humanities Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geselectivestext)		
GE Literature Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#geliteratureelectivestext)		
GE Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gescienceelectivestext)		
GE Social Science Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gesocialscienceelectivestext)		
GE Wellness/Health Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gewellnesshealthtext)		
GE Mathematics Electives (http://catalog.vsu.edu/undergraduate/general-education-programs/#gemathematicselectivestext)		

Total Requirements Semester Hours: 33

A single course may simultaneously fulfill a general education requirement and a departmental or major/minor requirement. A single course cannot be used to fulfill more than one general education requirement. Department or major/minor areas may opt to exceed the minimum credit hour requirements above.