

Chemistry-B.A. Major & Minor without Teacher Certification



The chemistry program offers students to choose between a Bachelor of Science(B.S.) degree or a Bachelor of Arts(B.A.) degree. Students wishing to pursue a graduate degree in chemistry or employment in the chemical industry should pursue the BS degree. The BA degree is designed for those seeking secondary education certification in chemistry as well as for several pre-professional majors (pre-dental, pre-medical, pre-pharmacy, etc.). Students pursuing careers in dentistry, medicine, and pharmacy generally major in chemistry with minor in biology or the converse.

Bachelor of Arts in Chemistry

Major Requirements	39 hrs
CHE 109 Technical Writing & Lab Safety	1
CHE 111 General Chemistry I	3
CHE 112 General Chemistry II	3
CHE 113 General Chemistry I Lab	1
CHE 114 General Chemistry II Lab	2
CHE 221 Analytical Chemistry	3
CHE 223 Analytical Chemistry Lab	1
CHE 341 Organic Chemistry I	3
CHE 342 Organic Chemistry II	3
CHE 343 Organic Chemistry I Lab	1
CHE 380 Junior Seminar	1
CHE 411 Physical Chem. for Life Sci.	3
CHE 412 Phys. Chem. for Life Sci. Lab	1
CHE 480 Senior Seminar	1
<i>BA Foreign Language Requirement</i>	12 hrs
Major Electives	6 hrs
CHE 315 Research Methods	2
CHE 344 Organic Chemistry II Lab	2
CHE 350 Instrumental Analysis	4
ENV 355 Environmental Chemistry	4
CHE 370 Inorganic Chemistry	3
CHE 390 Junior Research	1-3
CHE 400 Special Topics	3
CHE 490 Senior Research	1-3

Supporting Courses	11-14 hours
MTH 123	3
MTH 210	4
and	
PHY 141, PHY 142, PHY 143, PHY 144	8
PHY 241, PHY 242, PHY 243, PHY 244	10

Minor in Chemistry

Minor Requirements	21 hrs
CHE 109 Technical Writing & Lab Safety	1
CHE 111 General Chemistry I	3
CHE 113 General Chemistry I Lab	1
CHE 112 General Chemistry II	3
CHE 114 General Chemistry II Lab	2
CHE 221 Analytical Chemistry	3
CHE 223 Analytical Chemistry Lab	1
CHE 341 Organic Chemistry I	3
CHE 343 Organic Chemistry I Lab	1
CHE 342 Organic Chemistry II	3
Minor Electives	4 hrs
CHE 315 Research Methods	2
CHE 344 Organic Chemistry II Lab	2
CHE 350 Instrumental Analysis	4
CHE 370 Inorganic Chemistry	3
CHE 380 Junior Seminar	1
CHE 390 Junior Research	1-3
CHE 400 Selected Topics	1-3
CHE 451 Physical Chemistry I	3
CHE 453 Physical Chemistry I Lab	1
CHE 452 Physical Chemistry II	3
CHE 454 Physical Chemistry II Lab	1
CHE 460 Biochemistry	3
CHE 480 Senior Seminar	1
CHE 490 Senior Research	1-3
Supporting Courses	3 hrs
MTH 111 College Algebra	3

Summary of Chemistry-B.A. Program Requirements

Chemistry Major, B.A. degree

B.A. Major Requirements	27 hrs
B.A. Major Electives	6 hrs
B.A. Foreign Language Requirement	12 hrs
B.A. Major Supporting Courses	11-14 hrs
Required Minor	21-25 hrs
General Education	38 hrs
Physical Education	3 hrs
Literature	3 hrs
Christian Studies	6 hrs
Art, Drama, Music	2 hrs
English Composition	6 hrs
Mass Communication	3 hrs
Mathematics (included in major requirements)	
Computing & Technology	3 hrs
Biological Science	3 hrs
Physical Science (included in major requirements)	
Psychology/Sociology/Culture/Economics	6 hrs
History/Political Science	3 hrs
Free Electives	5 hrs
Total Hours for Graduation	120 hrs

Chemistry Minor

Minor Requirements	21 hrs
Minor Electives	4 hrs
Minor Supporting Courses (this course can be taken as part of the general education requirements)	3 hrs
Total Hours for Minor	25 hrs

CAMPBELLVILLE UNIVERSITY

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Suggested Course Sequence

Freshman Year

	Hours
Fall Semester	
CHE 109 Technical Writing & Lab Safety	1
CHE 111 General Chemistry I	3
CHE 113 General Chemistry I Lab	1
ENG 111 Freshman Composition I	3
OR 100 Freshman Year Experience	1
MTH 210 Calculus I	4
Minor/General Education/Electives	3
Spring Semester	
CHE 112 General Chemistry II	3
CHE 114 General Chemistry II Lab	2
ENG 112 Freshman Composition II	3
MTH 211 Calculus II	4
Minor/General Education/Electives	3

Sophomore Year

	Hours
Fall Semester	
CHE 221 /223 Analytical Chemistry and Lab	4
MTH 310 Calculus III	4
B.A. Foreign Language Course	3
Minor/General Education/Electives	7
Spring Semester	
CHE 315 Research Methods	2
MTH 311 Differential Equations	3
PHY 241 General University Physics I	4
PHY 243 General University Physics I Lab	1
B.A. Foreign Language Course	3
General Education/Electives	5

Junior Year

	Hours
Fall Semester	
CHE 341/343 Organic Chemistry I and Lab	4
CHE 380 Junior Seminar	1
CHE Elective	3
B.A. Foreign Language Course	3
PHY 242 General University Physics II	4
PHY 244 General University Physics II Lab	1
Minor/General Education/Electives	2
Spring Semester	
CHE 342/344 Organic Chemistry II and Lab	5
CHE 350 Instrumental Analysis	4
MTH 331 Probability and Statistics	3
B.A. Foreign Language Course	3
Minor/General Education/Electives	3

Senior Year

	Hours
Fall Semester	
CHE 451 /453 Physical Chemistry I and Lab	4
CHE 480 Senior Seminar	1
Minor/General Education/Electives	10
Spring Semester	
CHE 452/454 Physical Chemistry II and Lab	4
CHE Elective	3
Minor/General Education/Electives	10