

[AS-BS-CHEM-CHEM] College of Arts and Sciences Department of Chemistry Catalog Year: 2010-2011

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

critical (in boldface and shaded areas) must be comple Course Subject and Title	Credit	Upper	Min.	Important Notes		
Semester One: [14 Credit Hours]	Hours	Division	Grade			
	rtification	av the Am	orioon Ch	amical Society		
This program meets the minimum requirements for ce CHEM 10060 General Chemistry I				-		
or CHEM 10960 Honors General Chemistry	4-5			Fulfills Kent Core Basic Sciences		
CHEM 10062 General Chemistry I Laboratory	0-1			Take only if CHEM 10060 is selected		
MATH 12002 Analytic Geometry and Calculus I	5			Fulfills Kent Core Mathematics and Critical Reasoning		
US 10097 Destination Kent State: FYE	1			Not required for transfer students with 25 credits		
Kent Core Requirement	3			See Kent Core Summary on page 2		
Semester Two: [16 Credit Hours]						
CHEM 10061 General Chemistry II or CHEM 10961 Honors General Chemistry	4-5			If CHEM 10060 was taken; select CHEM 10061 If CHEM 10960 was taken, select CHEM 10961		
CHEM 10063 General Chemistry II Laboratory	0-1			Take only if CHEM 10061 is selected		
MATH 12003 Analytic Geometry and Calculus II	5					
Kent Core Requirement	6			See Kent Core Summary on page 2		
Semester Three: [15 Credit Hours]						
CHEM 30475 Organic Chemistry Laboratory I	1					
CHEM 30481 Organic Chemistry I	3			Offered in fall only		
MATH 22005 Analytic Geometry and Calculus III	3					
PHY 23101 General University Physics I	5			Fulfills Kent Core Additional		
Kent Core Requirement	3			See Kent Core Summary on page 2		
Semester Four: [14 Credit Hours]						
CHEM 30301 Inorganic Chemistry I	2			Offered in spring only		
CHEM 30476 Organic Chemistry Laboratory II	1			Offered in spring only		
CHEM 30482 Organic Chemistry II	3			Offered in spring only		
PHY 23102 General University Physics II	5			Fulfills Kent Core Basic Sciences		
Kent Core Requirement	3			See Kent Core Summary on page 2		
Semester Five: [16-17 Credit Hours]						
CHEM 30105 Analytical Chemistry I	3			Offered in fall only		
CHEM 30107 Analytical Chemistry Laboratory I	1			Fulfills writing-intensive course requirement; offered in fall only; see note on page 2		
CHEM 40477 Intermediate Organic Chemistry Lab	1			Offered in fall only		
CHEM 40483 Intermediate Organic Chemistry	1			Offered in fall only		
CHEM 40555 Elementary Physical Chemistry	3			Offered in fall only		
Foreign Language (Elementary I)	4-5					
Kent Core Requirement	3			See Kent Core Summary on page 2		
Semester Six: [15-16 Credit Hours]						
CHEM 30106 Analytical Chemistry II	2			Offered in spring only		
CHEM 30108 Analytical Chemistry Laboratory II	2			Fulfills writing-intensive course requirement; offered in spring only; see note on page 2		
CHEM 40556 Elementary Physical Chemistry	3			Offered in spring only		
CHEM 40568 Elementary Physical Chemistry Lab	1			Offered in spring only		
Foreign Language (Elementary II)	4-5					
Kent Core Requirement	3			See Kent Core Summary on page 2		



Critical requirements are boldface in shaded areas

Course Subject and Title	Credit Hours	Upper Division	Min. Grade	Important Notes
Semester Seven: [15 Credit Hours]				
CHEM 40302 Inorganic Chemistry II	2			Offered in fall only
CHEM 40557 Physical Chemistry Laboratory	2			Offered in fall only
Kent Core Requirement	3			See Kent Core Summary below
CHEM 40000-Level Elective	3			Must be approved by advisor
General Electives (1 credit must be upper division)	5			
Semester Eight: [16 Credit Hours]				
CHEM 30284 Introductory Biological Chemistry	4			Offered in spring only
CHEM 40303 Inorganic Chemistry III	2			Offered in spring only
CHEM 40364 Intermediate Inorganic Chemistry Laboratory	1			Offered in spring only
General Electives (lower or upper division)	9			Number of credits required depends on meeting minimum 121 credit hours and 42 upper- division hours

Graduation Requirements Summary

Minimum	Minimum Upper-	Minimum	Diversity Course Writing-Intensive		Minimum		
Total Hours	Division Hours	Kent Core Hours	Global / Domestic	whiting-intensive	Major GPA	Overall GPA	
121	42	36*	Kent Core or General Electives	CHEM 30107 or CHEM 30108	2.0	2.0	

* In addition to the Kent Core, the College of Arts and Sciences requires for all its BS programs a minimum 8 credit hours of a foreign language.

Kent Core Summary

Kent Core Categories	Important Notes	Remaining Credit Hours
Additional (6 credit hours) Must be selected from two Kent Core categories	4 credits fulfilled in this major with PHY 23101; may fulfill diversity requirement	2
Basic Sciences (6-7 credit hours) Must include one laboratory	Fulfilled in this major with CHEM 10060 (or CHEM 10960), CHEM 10061 and PHY 23102	0
Composition (6-8 credit hours) ENG 11002, 11011, 21011; HONR 10197, 10297	Enrollment based on placement test	6-8
Humanities and Fine Arts (9 credit hours) Minimum one course from humanities in Arts and Sciences category and minimum one course from fine arts category	May fulfill diversity requirement	9
Mathematics and Critical Reasoning (3-5 credit hours)	Fulfilled in this major with MATH 12002	0
Social Sciences (6 credit hours) Must be selected from two curricular areas	May fulfill diversity requirement	6

Note: A minimum C grade must be earned in either CHEM 30107 or CHEM 30108 to fulfill the writing-intensive requirement.

Kent Core

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit www.kent.edu/catalog/kent-core for course list.

Diversity Course Requirement

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit <u>www.kent.edu/catalog/diversity</u> for course list.

Writing-Intensive Course Requirement

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.00) grade.

Visit www.kent.edu/catalog/wic for course list.

Upper-Division Requirement

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

Foreign Language

Visit www.kent.edu/catalog/foreign-languages for course list.

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