

Roadmap: Chemistry - Bachelor of Arts

[AS-BA-CHEM]

College of Arts and Sciences
Department of Chemistry and Biochemistry
Catalog Year: 2010-2011

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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.

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Course Subject and Title	Credit Hours	Upper Division	Min. Grade	Important Notes
Semester One: [14 Credit Hours]				
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 11010 Algebra for Calculus	3			Fulfils Kent Core Mathematics and Critical Reasoning
MATH 11022 Trigonometry	2			
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 12002 Analytic Geometry and Calculus I	5			Fulfills Kent Core Additional
Kent Core Requirement	6			See Kent Core Summary on page 2
Semester Three: [16-18 Credit Hours] CHEM 20481 Basic Organic Chemistry I or CHEM 30481 Organic Chemistry I	3-4			CHEM 20481 typically offered in fall and summer only; CHEM 30481 offered in fall only
CHEM 30475 Organic Chemistry Laboratory I	1			
PHY 13001 General College Physics I	4			Fulfills Kent Core Additional
PHY 13021 General College Physics Laboratory I	1			Fulfills Kent Core Basic Sciences
Foreign Language (Elementary I)	4-5			
Kent Core Requirement	3			See Kent Core Summary on page 2
Semester Four: [14-16 Credit Hours]				
CHEM 20482 Basic Organic Chemistry II or CHEM 30482 Organic Chemistry II	2-3			If CHEM 20481 was taken; select CHEM 20482; If CHEM 30481 was taken; select CHEM 30482; both are typically offered in spring only
CHEM 30301 Inorganic Chemistry I	2			Offered in spring only
CHEM 30476 Organic Chemistry Laboratory II	1			Offered in spring only
PHY 13002 General College Physics II	4			Fulfills Kent Core Basic Sciences
PHY 13022 General College Physics Laboratory II	1			Fulfills Kent Core Basic Sciences
Foreign Language (Elementary II)	4-5			
Semester Five: [17-19 Credit Hours]				
CHEM 40567 Basic Concepts of Physical Chemistry	4			Offered in fall only
CHEM 30105 Analytical Chemistry I	3			Offered in fall only
CHEM 30107 Analytical Chemistry Laboratory I	1		С	Fulfills writing-intensive course requirement; offered in fall only
Foreign Language (Intermediate I)	3-5			
Kent Core Requirement	6			See Kent Core Summary on page 2
Semester Six: [14-16 Credit Hours]				
CHEM 30284 Introductory Biological Chemistry	4			Offered in spring only
CHEM 40568 Elementary Physical Chemistry Laboratory	1	•		Offered in spring only
Foreign Language (Intermediate II)	3-5			
Kent Core Requirement	6			See Kent Core Summary on page 2



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Critical requirements are boldface in shaded areas

Course Subject and Title	Credit Hours	Upper Division	Min. Grade	Important Notes
Semester Seven: [15-16 Credit Hours]				
CHEM 40302 Inorganic Chemistry II	2	•		Offered in fall only
CHEM Electives (upper division)	1-3	•		See note below
General Electives (upper division)	12			
Semester Eight: [15 Credit Hours]				
General Electives (upper division)	15	•		Number of credits required depends on meeting minimum 121 credit hours and 42 upperdivision hours

Graduation Requirements Summary

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

^{*} The above hours include an additional Kent Core course each in Basic Sciences and Social Sciences as required by the College of Arts and Sciences for its BA programs. In addition to the Kent Core, the college requires for all its BA programs a minimum 14 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	Fulfilled in this major with MATH 12002 and PHY 13001	0
Basic Sciences (9-10 credit hours) Must include one laboratory	Fulfilled in this major with CHEM 10060 (or CHEM 10960), PHY 13001, PHY 13002, PHY 13021 and PHY 13022; includes additional course as required by the college for its BA programs	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 11010	0
Social Sciences (9 credit hours) Must be selected from two curricular areas	Includes additional course as required by the college for its BA programs; may fulfill diversity requirement	9

CHEM electives (1-3 credit hours), choose from the following: Note:

CHEM 30050 Introduction to Materials Chemistry	2	CHEM 40477 Intermediate Organic Chemistry	1
CHEM 30106 Analytical Chemistry II S	2	Laboratory ^F	
CHEM 40248 Advanced Biological Chemistry ^F 3		CHEM 40483 Intermediate Organic Chemistry F	
CHEM 40303 Inorganic Chemistry III ^S 2		CHEM 40796 Individual Investigation	
F Offered in fall only S Offered in spring only		CHEM department-approved electives	1-3

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 www.kent.edu/catalog/diversity 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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