

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

Critical	Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Type	Term Taken
Semester One [14 Credits]							
!	CHEM 10060 General Chemistry I and CHEM 10062 General Chemistry I Laboratory or CHEM 10960 Honors General Chemistry	5			■	KBS	
!	MATH 12002 Analytic Geometry and Calculus I	5			■	KMC	
	US 10097 Destination Kent State: First Year Experience ¹	1					
	Kent Core Requirement	3					
Semester Two [16 Credits]							
!	CHEM 10061 General Chemistry II and CHEM 10063 General Chemistry II Laboratory or CHEM 10961 Honors General Chemistry	5			■	KBS	
!	MATH 12003 Analytic Geometry and Calculus II	5			■		
	Kent Core Requirement	3					
	Kent Core Requirement	3					
Semester Three [16 Credits]							
!	CHEM 30475 Organic Chemistry Laboratory I ²	1	■		■		
!	CHEM 30481 Organic Chemistry I ²	3	■		■		
!	MATH 22005 Analytic Geometry and Calculus III	4			■		
!	PHY 23101 General University Physics I	5			■	KBS	
	Kent Core Requirement	3					
Semester Four [16 Credits]							
!	CHEM 30050 Introduction to Materials Chemistry ³	2	■		■		
!	CHEM 30301 Inorganic Chemistry I ²	2	■		■		
!	CHEM 30476 Organic Chemistry Laboratory II ⁵	1	■		■		
!	CHEM 30482 Organic Chemistry II ⁵	3	■		■		
!	PHY 23102 General University Physics II	5			■	KBS	
	Kent Core Requirement	3					
Semester Five [15 Credits]							
!	CHEM 30105 Analytical Chemistry I ⁶	3	■		■		
!	CHEM 40302 Inorganic Chemistry II ⁶	2	■		■		
!	CHEM 40451 Organic Materials Chemistry ⁷	3	■		■		
!	CHEM 40555 Elementary Physical Chemistry ⁶	3	■		■		
	Foreign Language ⁸	4 - 5					
Semester Six [16 Credits]							
!	CHEM 40303 Inorganic Chemistry III ⁴	2	■		■		
!	CHEM 40352 Inorganic Materials Chemistry ⁷	3	■		■		
!	CHEM 40364 Intermediate Inorganic Chemistry Lab ⁴	1	■		■		
!	CHEM 40556 Elementary Physical Chemistry ⁴	3	■		■		
	Foreign Language ⁸	4 - 5					
	Kent Core Requirement	3					
Semester Seven [13 Credits]							
!	CHEM 40557 Physical Chemistry Lab ⁶	2	■		■		
	Kent Core Requirement	3					
	CHEM Electives ⁹	1 - 2	■		■		
	General Elective ¹⁰	7					
Semester Eight [14 Credits]							
!	CHEM 30106 Analytical Chemistry II ⁴	2	■		■		
!	CHEM 30284 Introductory Biological Chemistry ⁴	4	■		■		
!	CHEM 40053 Materials Chemistry Laboratory ³	2	■		■		
	General Elective ¹⁰	6					

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
120	42	36	2.000	2.000

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
2. Offered in fall and summer only
3. Contact department for offerings
4. Offered in spring only
5. Offered in spring and summer only
6. Offered in fall only

7. Offered every other year; contact department for details

8. Fulfills College General Requirement

9. Chemistry elective (1-2 credits)

Choose from the following:

CHEM 30107 Analytical Chemistry Laboratory I (1) ^{F,W}	CHEM 30108 Analytical Chemistry Laboratory II (2) ^{F,W}
CHEM 40477 Intermediate Organic Chemistry Laboratory (1)	CHEM 40483 Intermediate Organic Chemistry (1)
CHEM 40568 Elementary Physical Chemistry Laboratory (1)	CHEM 40571 Surface Chemistry (2)
CHEM 40796 Individual Investigation (1 - 2)	^W Fulfills writing-intensive requirement

F offered in Fall only

10. Lower or upper-division credit hours. Credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division credit hours.

University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	Kent Core I. Composition Enrollment based on placement test	visit www.kent.edu/catalog/kent-core	6
KMC	Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test	MATH 12002	fulfilled
KHU	Kent Core III. Humanities Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFA	Kent Core IV. Fine Arts Minimum one course from the fine arts; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	3
KFH	Kent Core V. Humanities or Fine Arts One additional course from either the humanities or fine arts category, may fulfill diversity requirement.	visit www.kent.edu/catalog/kent-core	3
KSS	Kent Core VI. Social Sciences Must be selected from two curricular areas; may fulfill diversity requirement	visit www.kent.edu/catalog/kent-core	6
KBS	Kent Core VII. Basic Sciences Must include one laboratory	CHEM 10060, CHEM 10062, PHY 23102	fulfilled
KAD	Kent Core VIII. Additional May fulfill diversity requirement	CHEM 10061, PHY 23101	fulfilled
DD	Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
DG	Global Diversity Course Requirement Either domestic or global diversity must be from Kent Core	visit www.kent.edu/catalog/diversity	one course
ELR	Experiential Learning Requirement Either course or non-course experience approved by the appropriate faculty member	visit www.kent.edu/catalog/elr	one course or activity
WIC	Writing-Intensive Course Requirement Minimum C (2.000) grade	May be fulfilled with CHEM 30107 or CHEM 30108 if taken	one course