

Roadmap: Chemistry - Chemistry - Bachelor of Science

AS-BS-CHEM-CHEM

College of Arts and Sciences Department of Chemistry and Biochemistry

Catalog Year: 2016-2017

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	Min. Grade	Major GPA	Attribute	Notes
Semester	r One [14 Credits]					
lote: Thi	s program meets the minimum requirements for certification by t	he America	n Chemic	al Societ	у	
!	CHEM 10060 General Chemistry I (4) or	4			KBS	
-	CHEM 10970 Honors General Chemistry I (4)	-				
	CHEM 10062 General Chemistry I Laboratory	1			KBS	
!	MATH 12002 Analytic Geometry and Calculus I	5			KMC	
	UC 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
	r Two [16 Credits]					
	CHEM 10061 General Chemistry II (4) or	4			KBS	
	CHEM 10971 Honors General Chemistry II (4)			_		
	CHEM 10063 General Chemistry II Laboratory	1			KBS	
!	MATH 12003 Analytic Geometry and Calculus II	5				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
emestei	r Three [16 Credits]					
	CHEM 30475 Organic Chemistry Laboratory I ²	1			ELR	
	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				
emester	r Four [14 Credits]	J				
	CHEM 30301 Inorganic Chemistry I ³	2				
	CHEM 30476 Organic Chemistry Laboratory II ⁴	1		-		
	CHEM 30482 Organic Chemistry II ⁴	3				
	PHY 23102 General University Physics II	5			KBS	
	Kent Core Requirement	3			KBS	
amaata.	•	ა				
	r Five [16 Credits] CHEM 30105 Analytical Chemistry I ⁵	2		_		
		3	C 6		14/10	
	CHEM 30107 Analytical Chemistry Laboratory I	1	C.		WIC	
	CHEM 40477 Intermediate Organic Chemistry Laboratory ⁵	1				
	CHEM 40483 Intermediate Organic Chemistry 5	1				
!	CHEM 40555 Physical Chemistry I ⁵	3				
	Foreign Language ⁷	4 - 5				
	Kent Core Requirement	3				
	r Six [15 Credits]					
!	CHEM 30106 Analytical Chemistry II ³	2				
!	CHEM 30108 Analytical Chemistry Laboratory II	2	C 6		WIC	
!	CHEM 40556 Physical Chemistry II ³	3				
!	CHEM 40568 Elementary Physical Chemistry Laboratory ³	1				
	Foreign Language ⁷	4 - 5				
	Kent Core Requirement	3				
emeste	r Seven [13 Credits]					
	CHEM 40302 Inorganic Chemistry II ⁵	2				
!	CHEM 40557 Physical Chemistry Lab ⁵	2				
	CHEM 40000-Level Elective ⁸			-		
		3				
	General Electives ⁹	6				
	r Eight [16 Credits]					
!	CHEM 30284 Introductory Biological Chemistry 4	4				
	CHEM 40303 Inorganic Chemistry III ³	2				
!	CHEM 40364 Intermediate Inorganic Chemistry Lab ³	1				
	General Electives 9	9				



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Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Minimum	
Millinum Total Hours	30000 – 40000 level course	Willing Rent Core Hours	Major GPA	Overall GPA
120	42	36	2.000	2.000

- 1. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.
- 2. Offered in fall and summer only
- 3. Offered in spring only
- 4. Offered in spring and summer only
- 5. Offered in fall only
- 6. A minimum C (2.000) grade must be earned in CHEM 30107 (offered in fall only) or CHEM 30108 (offered in spring only) to fulfill the writing-intensive requirement.
- 7. Fulfills College General Requirement
- 8. Must be approved by advisor.
- 9. Number of general elective credits required depends on meeting minimum 120 credit hours and minimum 42 upper-division hours.

University Requirements: Bachelor's degree-seeking students must meet Kent Core (general education requirements), diversity, writing-intensive and experiential learning requirements. For more information about these requirements, please read the following sections in the University Catalog: Kent Core – www.kent.edu/catalog/kent-core; Diversity Course Requirement – www.kent.edu/catalog/diversity; Writing-Intensive Course Requirement – www.kent.edu/catalog/wic; Experiential Learning Requirement – www.kent.edu/catalog/elr.

Attribute Legend: DD Diversity–Domestic; DG Diversity–Global; ELR Experiential Learning; KAD Kent Core Additional; KBS Kent Core Basic Sciences; KCM Kent Core Composition; KFA Kent Core Fine Arts: KHU Kent Core Humanities; KMC Kent Core Mathematics and Critical Reasoning; KSS Kent Core Social Sciences; WIC Writing Intensive