

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 One [15 Credits]						
	CHEM 10060 General Chemistry I	4	C	■	KBS	
	CHEM 10062 General Chemistry I Laboratory	1	C	■	KBS	
	MATH 11010 Algebra for Calculus	3			KMC	
	PSYC 11762 General Psychology	3			DD/KSS	
	UC 10097 Destination Kent State: First Year Experience ¹	1				
	Kent Core Requirement	3				
Semester Two [14 Credits]						
Note: pass Praxis Core Reading (score 156), Writing (score 162) and Mathematics (score 150)						
!	CULT 29535 Education in a Democratic Society	3	C			
	CHEM 10061 General Chemistry II	4	C	■	KBS	
	CHEM 10063 General Chemistry II Laboratory	1	C	■	KBS	
	MATH 11022 Trigonometry	3			KMC	
	SOC 12050 Introduction to Sociology	3			DD/KSS	
Semester Three [17Credits]						
!	PHY 23101 General University Physics I	5	C	■	KBS	
	CHEM 20481 Basic Organic Chemistry I	4	C	■		
	MATH 12002 Analytic Geometry and Calculus I	5			KMC	
	Kent Core Requirement	3				
Semester Four [17 Credits]						
!	MATH 12003 Analytic Geometry and Calculus II	5	C	■		
!	PHY 23102 General University Physics II	5	C	■	KBS	
	BSCI 10110 Biological Diversity	4	C	■	KBS	
	PHIL 11001 Introduction to Philosophy	3			DG/KHU	
Semester Five [17 Credits]						
Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA						
	BSCI 10120 Biological Foundations	4	C	■	KBS	
	EPSY 29525 Educational Psychology	3	C			
	GEOG 11040 How the Earth Works	3	C	■	KBS	
	GEOG 11041 How the Earth Works Laboratory	1	C	■	KBS	
	PHY 21430 Frontiers in Astronomy	3	C	■	KBS	
	Kent Core Requirement	3				
Semester Six [15 Credits]						
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA						
Note: apply online and be accepted for Advanced Study by the second Friday of the term						
!	PHY 30020 Intermediate Physics Laboratory	2	C	■	WIC	
	GEOG 41073 Conservation of Natural Resources	3	C	■		
	GEOG 11042 Earth and Life Through Time	3	C	■	KBS	
	GEOG 11043 Earth and Life Through Time Laboratory	1	C	■	KBS	
	SPED 23000 Introduction to Exceptionalities	3	C		DD	
	Kent Core Requirement	3				
Semester Seven [12 Credits]						
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA; Note: apply for student teaching						
!	ADED 32142 Principles of Teaching Adolescents	3	C		WIC	
	ITEC 39525 Educational Technology	3	C			
	CI 47330 Reading and Writing in Adolescence/Adulthood	3	C			
	GEOG 31062 Fundamentals of Meteorology	3	C	■		
Semester Eight [16 Credits]						
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA						
!	ADED 32277 Teaching Science in Secondary Schools	3	C			
	BSCI 30140 Cell Biology	4	C	■		
	BSCI 30156 Elements of Genetics	3	C	■		
	MATH 10041 Introductory Statistics (4) or MATH 30011 Basic Probability and Statistics (3)	3-4			KMC	
	PHY 36001 Introductory Modern Physics	3	C	■		

Critical	Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Attribute	Notes
Semester Nine [13-14 Credits]						
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA						
!	ADED 42277 Topics in Secondary School Science Teaching	3	C			
!	ADED 42292 Field Work Practicum	3	C		ELR	
	CHEM 40567 Basic Concepts of Physical Chemistry	4	C	■		
	PHY 32511 Electronics (4) <i>or</i> PHY 36002 Applications of Modern Physics (3)	3-4	C	■		
Semester Ten [12 Credits]						
Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA						
!	ADED 42357 Secondary Student Teaching	9	S		ELR	
!	ADED 49525 Inquiry into Professional Practice	3	C			

Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours 30000 – 40000 level course	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
148	39	36	2.600	2.750

1. UC 10097 is not required of transfer students with 25 credits (excluding College Credit Plus) or students age 21+ at time of admission.

Special Major Notes:

- Minimum C grade must be earned in both Kent Core Composition courses.
- The Integrated Science major is designed to be completed in five years.
- *Licensure Requirement (not required for graduation):*
Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

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