

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 [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	
	US 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 [17 Credits]							
!	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				KAD	
	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 cumulative 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			
	GEOL 11040 How the Earth Works	3		C	■	KBS	
	GEOL 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: 2.750 cumulative 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 Laboratory²	2	■	C	■	WIC	
	GEOG 41073 Conservation of Natural Resources	3	■	C	■		
	GEOL 11042 Earth and Life Through Time	3		C	■	KBS	
	GEOL 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 cumulative GPA and minimum 2.600 major GPA; Note: apply for student teaching							
!	ADED 32142 Principles of Teaching Adolescents²	3	■	C		WIC	
!	ITEC 19525 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 cumulative 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	■		
Semester Nine [13-14 Credits]							
Requirement: minimum 2.750 cumulative 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) or PHY 36002 Applications of Modern Physics (3)	3-4	■	C	■		
Semester Ten [12 Credits]							
Requirement: minimum 2.750 cumulative 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	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
148	39	36	2.600	2.750

1. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
2. A minimum C (2.000) grade must be earned in either ADED 32142 or PHY 30020 to fulfill the writing-intensive requirement.

Special Major Notes:

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](http://www.ohio.gov/education) website for more information on assessments specific to licensure type.

University Requirements Summary

Type	Categories	Course(s) Satisfying Category	Remaining Requirements
KCM	Kent Core I. Composition Enrollment based on placement test	a grade of C must be earned for both courses; visit www.kent.edu/catalog/kent-core	6
KMC	Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test	MATH 11010	fulfilled
KHU	Kent Core III. Humanities Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement	PHIL 11001	fulfilled
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	SOC 12050, PSYC 11762	fulfilled
KBS	Kent Core VII. Basic Sciences Must include one laboratory	BSCI 10110 and 10120; CHEM 10060, 10061, 10062 and 10063; GEOL 11040 and 11041	fulfilled
KAD	Kent Core VIII. Additional May fulfill diversity requirement	MATH 12002 and PHY 23101	fulfilled
DD	Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core	SPED 23000	fulfilled
DG	Global Diversity Course Requirement Either domestic or global diversity must be from Kent Core	PHIL 11001	fulfilled
ELR	Experiential Learning Requirement Either course or non-course experience approved by the appropriate faculty member	ADED 42292, ADED 42357	fulfilled
WIC	Writing-Intensive Course Requirement Minimum C (2.000) grade	PHY 30020, ADED 32142	fulfilled