



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.

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
<b>Semester One: [17 Credit Hours]</b>					
<b>BSCI 10110 Biological Diversity</b>	<b>4</b>		<b>C</b>	<b>■</b>	<b>Fulfills Kent Core Basic Sciences</b>
MATH 11010 Algebra for Calculus	3				Course may be waived based on placement; fulfills Kent Core Mathematics and Critical Reasoning
PSYC 11762 General Psychology	3				Fulfills Kent Core Social Sciences and domestic diversity course requirement
US 10097 Destination Kent State: FYE	1				Not required of transfer students with 25 credits
Kent Core Requirements	3				See Kent Core Summary page 2
Kent Core Requirements	3				
<b>Semester Two: [16 Credit Hours]</b>					
<b>Note: successful completion of Praxis I in Reading (174 score), Writing (172 score) and Mathematics (174 score)</b>					
<b>BSCI 10120 Biological Foundations</b>	<b>4</b>		<b>C</b>	<b>■</b>	<b>Fulfills Kent Core Basic Sciences</b>
<b>CULT 29535 Education in a Democratic Society</b>	<b>3</b>		<b>C</b>		
MATH 11022 Trigonometry	3				Course may be waived based on placement; fulfills Kent Core Mathematics and Critical Reasoning
SOC 12050 Introduction to Sociology	3				Fulfills Kent Core Social Sciences and domestic diversity course requirement
SPED 23000 Introduction to Exceptionalities	3		<b>C</b>		Fulfills domestic diversity course requirement
<b>Semester Three: [17 Credit Hours]</b>					
<b>Requirement: minimum 2.600 major GPA</b>					
<b>Note: minimum 2.750 cumulative GPA by end of term</b>					
<b>CHEM 10060 General Chemistry I</b>	<b>4</b>		<b>C</b>	<b>■</b>	<b>Fulfills Kent Core Basic Sciences</b>
<b>CHEM 10062 General Chemistry I Laboratory</b>	<b>1</b>		<b>C</b>	<b>■</b>	
<b>MATH 12002 Analytical Geometry and Calculus I</b>	<b>5</b>				<b>Fulfills Kent Core Additional</b>
GEOL 11042 Earth History	3		<b>C</b>	<b>■</b>	Fulfills Kent Core Additional
GEOL 11043 Earth History Laboratory	1		<b>C</b>	<b>■</b>	Fulfills Kent Core Basic Sciences
Kent Core Requirement	3				See Kent Core Summary on page 2
<b>Semester Four: [18 Credit Hours]</b>					
<b>Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA</b>					
<b>Note: apply online for Advanced Study before the second Friday of the term</b>					
<b>CHEM 10061 General Chemistry II</b>	<b>4</b>		<b>C</b>	<b>■</b>	<b>Fulfills Kent Core Basic Sciences</b>
<b>CHEM 10063 General Chemistry II Laboratory</b>	<b>1</b>		<b>C</b>	<b>■</b>	
<b>EPSY 29525 Educational Psychology</b>	<b>3</b>		<b>C</b>		
BSCI 30156 Elements of Genetics	3	<b>■</b>	<b>C</b>	<b>■</b>	
PHIL 11001 Introduction to Philosophy	3				Fulfills Kent Core Humanities and global diversity course requirement
BSCI Organismal Elective	4		<b>C</b>	<b>■</b>	
<b>Semester Five: [18 Credit Hours]</b>					
<b>Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA</b>					
<b>Note: apply for student teaching</b>					
<b>ADED 32142 Principles of Teaching Adolescents</b>	<b>3</b>		<b>C</b>		<b>Fulfills writing-intensive course requirement; offered in fall only</b>
<b>ITEC 19525 Instructional Technology</b>	<b>3</b>		<b>C</b>		
CHEM 20481 Basic Organic Chemistry I	4		<b>C</b>	<b>■</b>	
CI 47330 Reading and Writing in Adolescence/ Adulthood	3	<b>■</b>	<b>C</b>		
PHY 13001 General College Physics I	4			<b>■</b>	Fulfills Kent Core Basic Sciences
PHY 13021 General College Physics I Laboratory	1			<b>■</b>	


**Critical requirements are boldface in shaded areas.**

Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes
<b>Semester Six: [18 Credit Hours]</b>					
<b>Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA</b>					
<b>ADED 32277 Teaching Science in Secondary Schools</b>	<b>3</b>	<b>■</b>	<b>C</b>		<b>Offered in spring only</b>
BSCI 40163 Organic Evolution	3	■	C	■	
CHEM 30284 Introduction to Biological Chemistry	4	■	C	■	
PHY 13002 General Physics I	4			■	Fulfills Kent Core Basic Sciences
PHY 13022 General Physics I Laboratory	1			■	
Kent Core Requirement	3				See Kent Core Summary page 2
<b>Semester Seven: [17 Credit Hours]</b>					
<b>Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA</b>					
<b>Note: apply for graduation</b>					
<b>ADED 42277 Topics in Secondary School Science</b>	<b>3</b>	<b>■</b>	<b>C</b>		
<b>ADED 42292 Field Work Practicum</b>	<b>3</b>	<b>■</b>	<b>C</b>		<b>Fulfills experiential learning requirement</b>
BSCI 30140 Cell Biology	4	■	C	■	
BSCI 30360 General Ecology	4	■	C	■	
MATH 10041 Elementary Probability and Statistics or MATH 30011 Basic Probability and Statistics	3				
<b>Semester Eight: [12 Credit Hours]</b>					
<b>Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA</b>					
<b>Requirement: apply for graduation</b>					
<b>ADED 42357 Student Teaching</b>	<b>9</b>	<b>■</b>	<b>S</b>		<b>Fulfills experiential learning requirement</b>
<b>ADED 49525 Inquiry into Professional Practice</b>	<b>3</b>	<b>■</b>	<b>C</b>		

**Graduation Requirements Summary**

Minimum Total Hours	Minimum Upper-Division Hours	Minimum Kent Core Hours	Global / Domestic Diversity Course	Writing-Intensive	Experiential Learning	Minimum Major GPA	Minimum Overall GPA
133	39	36	PHIL 11001 / SPED 23000	ADED 32142	ADED 42292 and 42357	2.600	2.750

**Kent Core Summary**

Kent Core Categories	Important Notes	Remaining Credit Hours
<b>Composition (6-8 credit hours)</b> <i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>	Enrollment based on placement test; a grade of C must be earned for both courses	6-8
<b>Mathematics and Critical Reasoning (3-5 credit hours)</b>	Fulfilled in this major MATH 11010 or MATH 11022	0
<b>Humanities and Fine Arts (9 credit hours)</b> <i>Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts</i>	3 credit hours are fulfilled in this major with PHIL 11001	6
<b>Social Sciences (6 credit hours)</b> <i>Must be selected from two curricular areas</i>	Fulfilled in this major PSYC 11762 and SOC 12050	0
<b>Basic Sciences (6-7 credit hours)</b> <i>Must include one laboratory</i>	Fulfilled in the major with BSCI 10110 and 10120; GEOL 11041; PHY 13001, 13002, 13021, 13022; and CHEM 10060, 10051, 10062, 10063	0
<b>Additional (6 credit hours)</b> <i>Must be selected from two Kent Core categories</i>	Fulfilled in this major with GEOL 11042 and MATH 12002	0

**Note 1: Biological Science Organismal Elective, choose from the following (4):**

BSCI 20560 Invertebrate Zoology	4	BSCI 30582 Ornithology	4
BSCI 30275 Local Flora	4	BSCI 40364 Limnology	4
BSCI 30518 Vertebrate Anatomy	4	BSCI 40556 Vertebrate Zoology	4
BSCI 30580 Entomology	4		

**Notes on Licensure:**

- Complete Praxis II "Principles of Learning and Teaching grades 7-12" (passing score 165) and Praxis II specialty test.
- Apply for teaching license (pick up licensure packet in 304 White Hall).



**Kent Core**

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](http://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](http://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 (2.000) grade. Visit [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic) for course list.

**Experiential Learning Requirement**

To provide students with direct engagement in learning experiences that promote academic relevance, meaning and an understanding of real-world issues, students must complete this requirement at Kent State, either as a for-credit course or as a non-credit, non-course experience approved by the appropriate faculty member. Visit [www.kent.edu/catalog/elr](http://www.kent.edu/catalog/elr) 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.

