

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 [14 Credits] | | | | | | |
| | BSCI 10120 Biological Foundations | 4 | 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 [16 Credits] | | | | | | |
| Requirement: successful completion of Praxis Core Reading (score 156), Writing (score 162) and Mathematics (score 150) | | | | | | |
| ! | BSCI 10110 Biological Diversity | 4 | C | ■ | KBS | |
| ! | CULT 29535 Education in a Democratic Society | 3 | C | | | |
| | MATH 11022 Trigonometry | 3 | | | KMC | |
| | SOC 12050 Introduction to Sociology | 3 | | | DD/KSS | |
| | Kent Core Requirement | 3 | | | | |
| Semester Three [13 Credits] | | | | | | |
| ! | CHEM 10060 General Chemistry I | 4 | C | ■ | KBS | |
| ! | CHEM 10062 General Chemistry I Laboratory | 1 | C | ■ | KBS | |
| ! | MATH 12002 Analytic Geometry and Calculus I | 5 | | | KMC | |
| | Kent Core Requirement | 3 | | | | |
| Semester Four [14 Credits] | | | | | | |
| ! | CHEM 10061 General Chemistry II | 4 | C | ■ | KBS | |
| ! | CHEM 10063 General Chemistry II Laboratory | 1 | C | ■ | KBS | |
| ! | EPSY 29525 Educational Psychology | 3 | C | | | |
| | BSCI 30156 Elements of Genetics | 3 | C | ■ | | |
| | PHIL 11001 Introduction to Philosophy | 3 | | | DG/KHU | |
| Semester Five [16 Credits] | | | | | | |
| Requirement: minimum 2.750 overall GPA required by end of term and minimum 2.600 major GPA | | | | | | |
| | BSCI 30140 Cell Biology | 4 | C | ■ | | |
| | CHEM 20481 Basic Organic Chemistry I | 4 | C | ■ | | |
| | CHEM 30475 Organic Chemistry Laboratory I | 1 | C | ■ | ELR | |
| | GEOL 11040 How the Earth Works | 3 | C | ■ | KBS | |
| | GEOL 11041 How the Earth Works Laboratory | 1 | C | ■ | KBS | |
| | Kent Core Requirement | 3 | | | | |
| Semester Six [16 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 | | | | | | |
| | CHEM 30284 Introductory Biological Chemistry | 4 | C | ■ | | |
| | CHEM 30301 Inorganic Chemistry I | 2 | C | ■ | | |
| | GEOL 11042 Earth and Life Through Time | 3 | C | ■ | KBS | |
| | GEOL 11043 Earth and Life Through Time Laboratory | 1 | C | ■ | KBS | |
| | PHY 21430 Frontiers in Astronomy | 3 | C | ■ | KBS | |
| | SPED 23000 Introduction to Exceptionalities | 3 | C | | DD | |
| Semester Seven [14 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 | | | |
| | CHEM 30105 Analytical Chemistry I | 3 | C | ■ | | |
| | PHY 13001 General College Physics I | 4 | C | ■ | KBS | |
| | PHY 13021 General College Physics Laboratory I | 1 | C | ■ | KBS | |
| Semester Eight [14 Credits] | | | | | | |
| Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA | | | | | | |
| ! | ADED 32277 Teaching Science in Secondary Schools | 3 | C | | | |
| | CI 47330 Reading and Writing in Adolescence/Adulthood | 3 | C | | | |
| | GEOG 41073 Conservation of Natural Resources | 3 | C | ■ | | |
| | PHY 13002 General College Physics II | 4 | C | ■ | KBS | |
| | PHY 13022 General College Physics Laboratory II | 1 | C | ■ | KBS | |

| Critical | Course Subject and Title | Credit Hours | Min. Grade | Major GPA | Attribute | Notes |
|---|---|--------------|------------|-----------|------------|-------|
| Semester Nine [16 Credits] | | | | | | |
| Requirement: minimum 2.750 overall GPA and minimum 2.600 major GPA; Note: apply for graduation | | | | | | |
| ! | ADED 42277 Topics in Secondary School Science Teaching | 3 | C | | | |
| ! | ADED 42292 Field Work Practicum | 3 | C | | ELR | |
| | CHEM 40567 Physical Chemistry for Life Sciences | 4 | C | ■ | | |
| | GEOG 31062 Fundamentals of Meteorology | 3 | C | ■ | | |
| | MATH 10041 Introductory Statistics (4) <i>or</i> MATH 30011 Basic Probability and Statistics (3) | 3 | | | KMC | |
| 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 |
| 145 | 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](http://www.ohio.gov/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