



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 | Min. Grade | Important Notes   |
|--|--------------|------------|---|
| <b>Semester One: [13-15 Credit Hours]</b>    |              |            |   |
| <b>US 10097 Destination Kent State: FYE</b>  | <b>1</b>     |            |   |
| Kent Core Composition**                      | 3            |            | Enrollment based on placement test  |
| Kent Core Humanities                         | 3            |            |   |
| Kent Core Mathematics and Critical Reasoning | 3-5          |            | Enrollment based on placement test ;<br>*Suggestion: MATH12002              |
| Kent Core Social Sciences                    | 3            |            |   |
| <b>Semester Two: [13-16 Credit Hours]</b>    |              |            |   |
| Career Construction                          | 1            |            | 7-½ weeks, optional   |
| Kent Core Additional                         | 3            |            |   |
| Kent Core Basic Sciences                     | 2-5          |            | *Suggestion: CHEM10060 (w/ 10062) or PHY 23101                              |
| Kent Core Basic Sciences Laboratory          | 1            |            | *Suggestion: CHEM10062 (if 10060 taken above); no lab needed with PHY 23101 |
| Kent Core Social Sciences                    | 3            |            |   |
| Kent Core Fine Arts                          | 3            |            |   |
| <b>Semester Three: [14-20 Credit Hours]</b>  |              |            |   |
| Career and Life Planning                     | 1            |            | 7-½ weeks, optional   |
| Kent Core Composition**                      | 3            |            | Enrollment based on placement test  |
| Kent Core Additional                         | 3            |            |   |
| Kent Core Basic Sciences                     | 1-5          |            | *Suggestion: CHEM10061 (lab optional), BSCI10110, BSCI10120, or PHY 23102   |
| Kent Core Humanities and Fine Arts           | 3            |            |   |
| Elective or Foreign Language (Elementary I)  | 3-5          |            |   |

### Requirements Summary

| Minimum Total Hours | Minimum Overall GPA |
|---------------------|---------------------|
| 45                  | 2.0                 |

**\*Note on suggested courses:** students may elect any courses that fulfill the Kent Core requirements. Suggestions were generated based on common major requirements within this interest area. In *some* programs, these courses may fulfill both major requirements and Kent Core requirements, while in others they will only count towards the Kent Core. Please see chart below for a detailed listing of program requirements that overlap with the Kent Core for each specific program. Students in the interest area who are heavily leaning towards a specific program are advised to consider courses listed below in lieu of suggested courses.

**\*\*Honors College students** will take HONR10197 and 10297 in *semesters 1 and 2*, in lieu of KC Composition in semesters 1 and 3.

### Kent Core Summary

| Kent Core Categories   | Important Notes                    | Remaining Credit Hours |
|--|------------------------------------|------------------------|
| <b>Additional (6 credit hours)</b><br><i>Must be selected from two Kent Core categories</i>  |                                    | 6                      |
| <b>Basic Sciences (6-7 credit hours)</b><br><i>Must include one laboratory</i>   |                                    | 6-7                    |
| <b>Composition (6-8 credit hours)</b>  | Enrollment based on placement test | 6-8                    |
| <b>Humanities and Fine Arts (9 credit hours)</b><br><i>Minimum one course from humanities in Arts and Sciences category and minimum one course from fine arts category</i> |                                    | 9                      |
| <b>Mathematics and Critical Reasoning (3-5 credit hours)</b>   | Enrollment based on placement test | 3-5                    |
| <b>Social Sciences (6 credit hours)</b><br><i>Must be selected from two curricular areas</i>   |                                    | 6                      |

**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 (2.00) grade. Visit [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic) 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.

**Foreign Language**

Visit [www.kent.edu/catalog/foreign-languages](http://www.kent.edu/catalog/foreign-languages) for course list.

| Major  | Degree | Minimum Hours for Graduation | Courses in this major that fulfill Kent Core requirements   | Milestone Courses in the first 3 semesters   |
|--|--------|------------------------------|---|--|
| Anthropology                                     | BA     | 121                          | ANTH18210; ANTH18420  | S1: ANTH18210 or 18420<br>S2: ANTH18210 or 18420   |
| Anthropology (Archaeology)                       | BS     | 121                          | ANTH18210; ANTH18420; CHEM10060; CHEM10062; MATH12002; GEOG10160; CHEM10061; CHEM10063; GEOL11040; GEOL11041  | S1: ANTH18210 or 18420<br>S2: ANTH18210 or 18420   |
| Anthropology (Biological Anthropology)           | BS     | 121                          | ANTH18210; ANTH18420; CHEM10060; CHEM10062; MATH12002; BSCI10120; CHEM10061; CHEM10063  | S1: ANTH18210 or 18420<br>S2: ANTH18210 or 18420   |
| Applied Mathematics (Applied Mathematics)        | BS     | 121                          | MATH12002; CS 10051; PHY 23101; PHY 23102   | S1: MATH12002<br>S2: MATH12003<br>S3: MATH22005  |
| Applied Mathematics (Computational Mathematics)  | BS     | 121                          | MATH12002; CS 10051; PHY 23101; PHY 23102   | S1: MATH12002<br>S2: MATH12003<br>S3: MATH22005  |
| Applied Mathematics (Probability and Statistics) | BS     | 121                          | MATH12002; CS 10051; PHY 23101; PHY 23102   | S1: MATH12002<br>S2: MATH12003<br>S3: MATH22005  |
| Biology  | BA     | 121                          | BSCI10110; BSCI10120; CHEM10060; CHEM10061; CHEM10062; CHEM10063; MATH11010   | S1: BSCI10110<br>S2: BSCI10120<br>S3: CHEM10060, 10062   |
| Biology (Molecular/Cellular Biology)             | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060; CHEM10061; CHEM10062; CHEM10063; MATH12002; PHY 13001 AND PHY 13021 OR PHY 23101; PHY 13002 AND PHY 13022 OR PHY 23102 | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: CHEM20481 or 30481; CHEM 20482 or 30475; BSCI30140 |



| Major  | Degree | Minimum Hours for Graduation | Courses in this major that fulfill Kent Core requirements   | Milestone Courses in the first 3 semesters   |
|--|--------|------------------------------|---|--|
| Biology (Organismal Biology)   | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060; CHEM10061; CHEM10062; CHEM10063; MATH12002; PHY 13001 AND PHY 13021 OR PHY 23101; PHY 13002 AND PHY 13022 OR PHY 23102 | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: CHEM20481 or 30481; CHEM 20482 or 30475 or 30482                                   |
| Biology-Pre-Medicine/Pre-Osteopathy/Pre-Dentistry                          | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060; CHEM10061; CHEM10062; CHEM10063; MATH12002; PHY 13001 AND PHY 13021 OR PHY 23101; PHY 13002 AND PHY 13022 OR PHY 23102 | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: BSCI30140  |
| Biotechnology  | BS     | 121                          | BSCI10120; CHEM10060; CHEM10062; MATH12002 OR MATH12021; CHEM10061; CHEM10063; PHIL21001; CS 10051; PHY 13001; PHY 13021                                | S1: BSCI10120; CHEM10060; CHEM10062  |
| Botany   | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060; CHEM10061; CHEM10062; CHEM10063; MATH12002; PHY 13001 AND PHY 13021 OR PHY 23101; PHY 13002 AND PHY 13022 OR PHY 23102 | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: CHEM20481 or 30481   |
| Chemistry  | BA     | 121                          | CHEM10060 AND CHEM10062; CHEM10061 AND CHEM10063; MATH11010; MATH12002; PHY 13001; PHY 13002; PHY 13021; PHY 13022                                      | S1: CHEM10060 or 10960; CHEM10062; MATH11010, 11022<br>S2: CHEM10061 or 10961; CHEM10063; MATH12002<br>S3: CHEM20481 or 30481; CHEM30475; PHY 13001, 13021   |
| Chemistry (Biological Chemistry)   | BS     | 121                          | CHEM10060 AND CHEM10062; CHEM10061 AND CHEM10063; BSCI10120; MATH12021; PHY 13001; PHY 13002; PHY 13021; PHY 13022                                      | S1: BSCI10120; CHEM10060 or 10960; CHEM10062; MATH12021<br>S2: CHEM10061 or 10961; CHEM10063; MATH12022<br>S3: BSCI30156; CHEM30475, 30481; PHY 13001, 13021 |
| Chemistry (Biological Chemistry-Pre-Medicine/Pre-Osteopathy/Pre-Dentistry) | BS     | 121                          | CHEM10060; CHEM10062; CHEM10061; CHEM10063; BSCI10120; MATH12021  | S1: BSCI10120; CHEM10060 or 10960, CHEM10062; MATH12021<br>S2: CHEM10061 or 10961, CHEM10063; MATH12022<br>S3: BSCI30156; CHEM30475, 30481; PHY 13001, 13021 |
| Chemistry (Chemistry)  | BS     | 121                          | CHEM10060 AND CHEM10062; CHEM10061 AND CHEM10063; MATH12002; PHY 23101; PHY 23102   | S1: CHEM10060 or 10960; CHEM10062; MATH12002<br>S2: CHEM10061 or 10961; CHEM10063; MATH12003<br>S3: CHEM30475, 30481; MATH22005; PHY 23101                   |



| Major  | Degree | Minimum Hours for Graduation | Courses in this major that fulfill Kent Core requirements  | Milestone Courses in the first 3 semesters   |
|--|--------|------------------------------|--|--|
| Chemistry (Materials Chemistry)              | BS     | 121                          | CHEM10060 AND CHEM10062;<br>CHEM10061 AND CHEM10063;<br>MATH12002; PHY 23101; PHY 23102  | S1: CHEM10060 or 10960; CHEM10062;<br>MATH12002<br>S2: CHEM10061 or 10961; CHEM10063;<br>MATH12003<br>S3: CHEM30475, 30481; MATH22005; PHY 23101                         |
| Computer Science                             | BS     | 121                          | CS 10051; MATH12002  | S1: CS 10051<br>S2: CS 23021, 23022; MATH12002<br>S3: CS 33001, 35101; MATH12003   |
| Conservation                                 | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060;<br>CHEM10061; CHEM10062;<br>CHEM10063; GEOG11040;<br>GEOG11041; MATH12002   | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S2: BSCI30360  |
| Earth Science                                | BA     | 121                          | GEO11040; GEO11041;<br>GEO11042; GEO11043;<br>GEO121080; PHY 24001; BSCI10110;<br>CHEM10060; CHEM10062;<br>MATH11010; PHY 13001 AND PHY 13021 OR PHY 23101 | S1: GEO11040; GEO11041<br>S2: GEO11042; GEO11043<br>S3: CHEM10060, 10062; GEO123063  |
| Exercise Science (Exercise Physiology)       | BS     | 121                          | GERO14029; NUTR23511;<br>PSYC11762; MATH11009 OR<br>MATH11010; CHEM10060;<br>CHEM10061; CHEM10062;<br>CHEM10063  |  |
| Exercise Science (Exercise Specialist)       | BS     | 121                          | GERO14029; NUTR23511;<br>PSYC11762; MATH11009 OR<br>MATH11010; CHEM10050;<br>CHEM10052; CHEM10053  |  |
| Geography (Environmental Geography)          | BA     | 121                          | GEOG17063; GEOG17064;<br>GEOG21062; GEOG21063  | S1: GEOG17063<br>S2: GEOG21062, 21063<br>S3: GEOG17064   |
| Geology                                      | BA     | 121                          | GEO11040; GEO11041;<br>GEO11042; GEO11043; BSCI10110;<br>CHEM10060; CHEM10062;<br>MATH11010  | S1: GEO11040; GEO11041<br>S2: GEO11042; GEO11043<br>S3: CHEM10060, 10062; GEO123063  |
| Horticulture Technology                      | BAH    | 126                          | COMM15000; GEO121062;<br>ARTH22007; GEOG17064;<br>MATH11009 OR MATH11010;<br>PHIL21001   | S1: BSCI16001; HORT16001<br>S2: BSCI26003; Tech Elective (see Roadmap)<br>Summer I: HORT26018; HORT26011 OR 26021 OR 26031<br>S3: BSCI26004; GEOG16001; HORT26001, 26016 |
| Medical Technology                           | BS     | 122                          | BSCI10110; BSCI10120; CHEM10060;<br>CHEM10061; CHEM10062;<br>CHEM10063; MATH11010  | S1: BSCI1011; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: BSCI30140; CHEM20481  |
| Nutrition and Food (Nutrition and Dietetics) | BS     | 123                          | BSCI20020; CHEM10060;<br>CHEM10061; COMM15000;<br>COMM26000; MATH11009;<br>PSYC11762; SOC 12050  | S1: CHEM10060; NUTR23112   |



| Major                                      | Degree | Minimum Hours for Graduation | Courses in this major that fulfill Kent Core requirements   | Milestone Courses in the first 3 semesters  |
|--|--------|------------------------------|---|---|
| Physics                                    | BA     | 121                          | MATH12002; PHY 23101; PHY 23102   | S1: MATH12002; PHY 12000<br>S2: MATH12003; PHY 23101<br>S3: MATH32051; PHY 23102  |
| Physics (Applied Physics)                  | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23102   | S1: MATH12002; PHY 12000, 23101<br>S2: MATH12003; PHY 23102<br>S3: CHEM10060, 10062; MATH32051  |
| Physics (Phys Inter-App Math/Comp Science) | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23104;<br>CS 10051  | S1: CS 10051; MATH12002; PHY 12000<br>S2: CS 23021; MATH12003; PHY 23101<br>S3: CS 23022; MATH32051; PHY 23102                          |
| Physics (Physics Inter-Biological Science) | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23105;<br>BSCI10110; BSCI10120  | S1: CHEM10060, 10062; MATH12002; PHY 12000<br>S2: CHEM10061, 10063; MATH12003; PHY 23101<br>S3: BSCI10110; MATH32051; PHY 23102         |
| Physics (Physics Inter-Chemistry)          | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23106   | S1: CHEM10060, 10062; MATH12002; PHY 12000<br>S2: CHEM10061, 10063; MATH12003; PHY 23101<br>S3: CHEM20481 or 30481; MATH32051; PHY23102 |
| Physics (Physics Inter-Mathematics)        | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23108;<br>CS 10051  | S1: CHEM10060, 10062; MATH12002; PHY 12000<br>S2: CHEM10061, 10063; MATH12003; PHY 23101<br>S3: CS 10051; MATH32051; PHY 23102          |
| Physics (Research)                         | BS     | 121                          | CHEM10060; CHEM10061;<br>CHEM10062; CHEM10063;<br>MATH12002; PHY 23101; PHY 23110   | S1: MATH12002; PHY 12000, 23101<br>S2: MATH12003; PHY 23102<br>S3: CHEM10060, 10062; MATH32051  |
| Political Science (General)                | BA     | 121                          | POL 10100; POL 10004; POL 10500   |   |
| Pre-Dentistry                              | PX     | 121                          | Varies by Major   | Varies by Major   |
| Pre-Med /Pre-Osteopathy                    | PX     | 121                          | Varies by Major   | Varies by Major   |
| Pre-Pharmacy                               | PX     | 121                          | Varies by Major   | Varies by Major   |
| Pre-Veterinary Medicine                    | PX     | 121                          | Varies by Major   | Varies by Major   |
| Psychology                                 | BA     | 121                          | PSYC11762; PHYS20651; PSYC21211   | S1: PSYC11762<br>S2: PSYC20651 or 21211<br>S3: PSYC21621  |
| Zoology                                    | BS     | 121                          | BSCI10110; BSCI10120; CHEM10060;<br>CHEM10061; CHEM10062;<br>CHEM10063; MATH12002; PHY 13001 AND PHY 13021 OR PHY 23101; PHY 13002 AND PHY 13022 OR PHY 23102 | S1: BSCI10110; CHEM10060, 10062<br>S2: BSCI10120; CHEM10061, 10063<br>S3: BSCI30156; CHEM20481 or 30481                                 |