



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: [15 Credit Hours]</b>  |              |            |            |           |   |
| <b>MATH 12002 Analytic Geometry and Calculus I</b>  | 5            |            |            | ■         | <b>Fulfills Kent Core Mathematics and Critical Reasoning</b>  |
| CS 10051 Introduction to Computer Science   | 4            |            |            | ■         | Fulfills Kent Core Additional   |
| US 10097 Destination Kent State: FYE  | 1            |            |            |           | Not required of transfer students with 25 credits   |
| Kent Core Requirement   | 2            |            |            |           | See Kent Core Summary on page 2   |
| Kent Core Requirement   | 3            |            |            |           | ECON 22060 is recommended   |
| <b>Semester Two: [15 Credit Hours]</b>  |              |            |            |           |   |
| <b>MATH 12003 Analytic Geometry and Calculus II</b>   | 5            |            |            | ■         |   |
| CS 23021 Computer Science I: Programming and Problem Solving  | 4            |            |            | ■         |   |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2   |
| Kent Core Requirement   | 3            |            |            |           | ECON 22061 is recommended   |
| <b>Semester Three: [16-17 Credit Hours]</b>   |              |            |            |           |   |
| <b>MATH 22005 Analytic Geometry and Calculus III</b>  | 4            |            |            | ■         |   |
| PHY 23101 General University Physics I  | 5            |            |            | ■         | Fulfills Kent Core Basic Sciences   |
| Foreign Language (Elementary I)   | 4-5          |            |            |           |   |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2   |
| <b>Semester Four: [15-16 Credit Hours]</b>  |              |            |            |           |   |
| <b>MATH 21001 Linear Algebra with Applications</b>  | 3            |            |            | ■         |   |
| <b>PHY 23102 General University Physics II</b>  | 5            |            |            | ■         | <b>Fulfills Kent Core Basic Sciences</b>  |
| Foreign Language (Elementary II)  | 4-5          |            |            |           |   |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2   |
| <b>Semester Five: [15 Credit Hours]</b>   |              |            |            |           |   |
| <b>ACCT 23020 Introduction to Financial Accounting</b>  | 3            |            |            | ■         |   |
| <b>MATH 32044 Introduction to Ordinary Differential Equations</b>   | 3            | ■          |            | ■         |   |
| <b>MATH 40011 Introduction to Probability Theory and Applications</b>   | 3            | ■          |            | ■         |   |
| <b>MATH 42031 Mathematical Models and Dynamical Systems or MATH 42201 Introduction to Numerical Computing I</b> | 3            | ■          |            | ■         | <b>Both courses are required; take whichever course is offered within this semester</b>   |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2   |
| <b>Semester Six: [15 Credit Hours]</b>  |              |            |            |           |   |
| <b>FIN 36053 Business Finance</b>   | 3            | ■          |            | ■         |   |
| <b>MATH 40012 Introduction to Statistical Concepts</b>  | 3            | ■          |            | ■         |   |
| <b>MATH 42045 Introduction to Partial Differential Equations</b>  | 3            | ■          |            | ■         | <b>Offered in spring only every two years (2014, 2016, 2018;); consult with department</b>  |
| <b>MATH 42091 Seminar: Modeling Projects or MATH 42202 Introduction to Numerical Computing II</b>               | 3            | ■          |            | ■         | <b>Both courses are required; take whichever course is offered within this semester; a minimum C (2.0) grade is required in MATH 42091 to fulfill the writing-intensive course requirement.</b> |
| General Elective (upper division)   | 3            | ■          |            |           |   |
| <b>Semester Seven: [15 Credit Hours]</b>  |              |            |            |           |   |
| <b>MATH 40051 Topics in Probability Theory and Stochastic Processes</b>   | 3            | ■          |            | ■         | <b>Offered in fall only</b>   |
| <b>MATH 42031 Mathematical Models and Dynamical Systems or MATH 42201 Introduction to Numerical Computing I</b> | 3            | ■          |            | ■         | <b>Select course not taken earlier</b>  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2   |
| General Elective (3 credits must be upper division)   | 6            | ■          |            |           |   |



**Critical requirements are boldface in shaded areas**

| Course Subject and Title  | Credit Hours | Upper Div. | Min. Grade | Major GPA | Important Notes  |
|---|--------------|------------|------------|-----------|--|
| <b>Semester Eight: [14 Credit Hours]</b>  |              |            |            |           |  |
| <b>MATH 41021 Theory of Matrices</b>  | 3            | ■          |            | ■         | <b>Offered in spring only</b>  |
| <b>MATH 42091 Seminar: Modeling Projects or MATH 42202 Introduction to Numerical Computing II</b> | 3            | ■          |            | ■         | <b>Select course not taken earlier; a minimum C (2.0) grade is required in MATH 42091 to fulfill the writing-intensive course requirement.</b> |
| <b>Allied Area Elective</b>   | 3            | ■          |            | ■         | <b>See note below</b>  |
| General Electives (lower or upper division)   | 5            |            |            |           | Number of credits required depends on meeting minimum 121 credit hours and minimum 42 upper-division credit hours                              |

**Graduation Requirements Summary**

| Minimum Total Hours | Minimum Upper-Division Hours | Minimum Kent Core Hours | Diversity Course Global / Domestic | Writing-Intensive | Minimum Major GPA | Minimum Overall GPA |
|---------------------|------------------------------|-------------------------|------------------------------------|-------------------|-------------------|---------------------|
| 121                 | 42                           | 36                      | Kent Core or General Electives     | MATH 42091        | 2.0               | 2.0                 |

**Kent Core Summary**

| Kent Core Categories   | Important Notes  | Remaining Credits |
|--|--|-------------------|
| <b>Composition (6-8 credit hours)</b><br><i>ENG 11011, 11002, 21011; HONR 10197, 10297</i>   | Enrollment based on placement test   | 6-8               |
| <b>Mathematics and Critical Reasoning (3-5 credit hours)</b>   | Fulfilled in this major with MATH 12002  | 0                 |
| <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> | May fulfill diversity requirement  | 9                 |
| <b>Social Sciences (6 credit hours)</b><br><i>Must be selected from two curricular areas</i>   | May fulfill diversity requirement. ECON 22060 is recommended to fulfill prerequisite requirement for FIN 36053     | 6                 |
| <b>Basic Sciences (6-7 credit hours)</b><br><i>Must include one laboratory</i>   | Fulfilled in this major with PHY 23102 and PHY 23102   | 0                 |
| <b>Additional (6 credit hours)</b><br><i>Must be selected from two Kent Core categories</i>  | Fulfilled in this major with CS 10051. ECON 22061 is recommended to fulfill prerequisite requirement for FIN 36053 | 3                 |

**Note:** Allied area elective (3 credit hours), approved by the major advisor from approved upper-division courses for majors in the following:

|   |     |   |   |
|---|-----|---|---|
| BSCI upper-division courses                                   | 1-9 | ECON 32041 Intermediate Macroeconomic Theory and Policy | 3 |
| CHEM upper-division courses                                   | 1-9 | ECON 32050 Applied Econometrics                         | 3 |
| CS upper-division courses                                     | 1-9 | FIN 36054 Intermediate Business Finance                 | 3 |
| MATH upper-division courses                                   | 1-9 | FIN 36059 Investments                                   | 3 |
| PHY upper-division courses                                    | 1-9 | FIN 46054 Financial Risk Management                     | 3 |
| ECON 32025 Money, Credit and Banking                          | 3   | FIN 46055 Options and Futures Markets                   | 3 |
| ECON 32040 Intermediate Microeconomic Theory and Applications | 3   | FIN 46064 International Business Finance                | 3 |
|   |     | FIN 46067 Portfolio Analysis                            | 3 |

**Note:** All courses taken from the list of major program requirements are used in the calculation of the major GPA.

**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.

