

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.

and shaded areas) must be completed in the semester listed to			/ gradu			
Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes	
Semester One: [15 Credit Hours]			I	1		
CS 10061 Introduction to Computer Programming or DSCI 15310 Computational Thinking and Programming	3					
MATH 12002 Analytic Geometry and Calculus I	5				Fulfills Kent Core Mathematics and Critical Reasoning	
US 10097 Destination Kent State: First Year Experience	1				Not required for transfer students with 25 credits	
Kent Core Requirement	3				Cas Kast Care Summary on same 2	
Kent Core Requirement	3				See Kent Core Summary on page 2	
Semester Two: [16 Credit Hours]						
MATH 12003 Analytic Geometry and Calculus II	5					
PHY 23101 General University Physics I	5				Fulfills Kent Core Basic Sciences	
Kent Core Requirement	3					
Kent Core Requirement	3				See Kent Core Summary on page 2	
Semester Three: [17-18 Credit Hours]						
MATH 21001 Linear Algebra with Applications	3					
MATH 22005 Analytic Geometry and Calculus III	4					
Foreign Language (Elementary I)	4-5				Fulfills College General Requirement	
Kent Core Requirement	3					
Kent Core Requirement	3				See Kent Core Summary on page 2	
Semester Four: [16 Credit Hours]						
MATH 40011 Introduction to Probability Theory and Application	3					
Foreign Language (Elementary II)	4-5				Fulfills College General Requirement	
Kent Core Requirement	3				Cas Kast Care Summer on near 2	
Kent Core Requirement	3				See Kent Core Summary on page 2	
Allied Area Elective	3				See note 1 on page 2	
Semester Five: [16 Credit Hours]						
MATH 30055 Mathematic Theory of Interest	3					
MATH 40012 Statistical Concepts	3					
Kent Core Requirement	4				See Kent Core Summary on page 2	
Allied Area Elective	3				See note 1 on page 2	
General Electives (lower or upper division)	3					
Semester Six: [16 Credit Hours]						
MATH 40055 Actuarial Mathematics I	4					
MATH 41021 Theory of Matrices	3				Offered in spring only	
Allied Area Electives	6				See note 1 on page 2	
General Electives (lower or upper division)	3					
Semester Seven: [15 Credit Hours]						
MATH 40056 Actuarial Mathematics II	4					
MATH 42001 Introduction to Analysis I	3		С		Fulfills writing-intensive course requirement	
Allied Area Elective	3				See note 1 on page 2	
General Electives (lower or upper division)	5					
Semester Eight: [10 Credit Hours]						
MATH 40091 Actuarial Seminar	2					
MATH 42002 Introduction to Analysis II	3		С		Fulfills writing-intensive course requirement	
General Electives (lower or upper division)	5					



## **Graduation Requirements Summary**

Minimum	Minimum Upper-	Minimum	Global / Domestic	Writing-	Experiential	Mini	mum
Total Hours	Division Hours	Kent Core Hours	Diversity Course	Intensive	Learning	Major GPA	Overall GPA
			PHIL 21002/Kent	MATH	Visit		
121	42	36	Core or General	42001 or	www.kent.edu/catalog/elr	2.000	2.000
			Electives	42002	www.kem.edu/catalog/en		

# Kent Core Summary

Kent Core Categories	Important Notes	Remaining Credit Hours
Composition (6-8 credit hours) ENG 11002, 11011, 21011; HONR 10197, 10297	Enrollment based on placement test	6-8
Mathematics and Critical Reasoning (3-5 credit hours)	Fulfilled in this major with MATH 12002	0
Humanities and Fine Arts (9 credit hours) Minimum one course from humanities in Arts and Sciences category and minimum one course from fine arts category	May fulfill diversity requirement	9
Social Sciences (6 credit hours) Must be selected from two curricular areas	May fulfill diversity requirement	6
Basic Sciences (6-7 credit hours) Must include one laboratory	5 credits fulfilled in this major with PHY 23101	1-2
Additional (6 credit hours) Must be selected from two Kent Core categories	May fulfill diversity requirement	6

### Note 1: Allied area electives (15 credit hours), approved by the major advisor from the following:

ACCT upper division courses *	1-15	GEOL upper-division courses	1-15
BMRT courses *	1-15	MATH upper-division courses *	1-15
BSCI upper-division courses	1-15	MIS upper-division courses	1-15
BUS courses *	1-15	PHY upper-division courses	1-15
CHEM upper-division courses	1-15	PHIL 31045 Formal Logic	3
CS upper-division courses	1-15	PHIL 41035 Philosophy of Science	3
ECON upper-division courses *	1-15	PHIL 41045 Metalogic	3
FIN upper-division courses *	1-15		

\* Course may satisfy the professional achievement requirements (e.g., for Fellow status) set by the Society of Actuaries and the Casualty Actuarial Society..

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 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 <u>www.kent.edu/catalog/diversity</u> 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 <u>www.kent.edu/catalog/wic</u> for course list.

## **Experiential Learning Requirement (ELR)**

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 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 for course list.