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Roadmap: Applied Mathematics - Financial Mathematics - Bachelor of Science [AS-BS-AMTH-FMTH] College of Arts and Sciences Department of Mathematical Sciences Catalog Year: 2012-2013

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.

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General Elective (3 credits must be upper division) 6 🛛 🗖	General Elective (3 credits must be upper division)	6				



Critical requirements are boldface in shaded areas

Course Subject and Title		Upper Div.	Min. Grade	Major GPA	Important Notes	
Semester Eight: [12-14 Credit Hours]						
MATH 41021 Theory of Matrices	3				Offered in spring only	
MATH 42091 Seminar: Modeling Projects or MATH 42202 Introduction to Numerical Computing II					Select course not taken earlier; MATH 42091 fulfills writing-intensive course requirement	
Allied Area Elective	1-3				See note below	
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

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Minimum	Minimum Upper-	Minimum	Global / Domestic	Writing-	Experiential	Minii	mum
Total Hours	Division Hours	Kent Core Hours	Diversity Course	Intensive	Learning	Major GPA	Overall GPA
121	42	36	Kent Core or	MATH	Visit	2.000	2.000
121 42	42	30	General Electives	42091	www.kent.edu/catalog/elr	2.000	2.000

Kent Core Summary

Kent Core Categories	Important Notes	Remaining Credit Hours
Composition (6-8 credit hours) ENG 11011, 11002, 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. ECON 22060 is recommended to fulfill prerequisite requirement for FIN 36053	6
Basic Sciences (6-7 credit hours) Must include one laboratory	Fulfilled in this major with PHY 23102 and PHY 23102	0
Additional (6 credit hours) Must be selected from two Kent Core categories	ECON 22061 is recommended to fulfill prerequisite requirement for FIN 36053	6

Note: Allied area elective (1-3 credit hours), approved by the major advisor from approved upper-division courses for majors in the following:

1-9	ECON 32041 Intermediate Macroeconomic Theory and Policy	3
1-9	ECON 32050 Applied Econometrics	
1-9	FIN 36054 Intermediate Business Finance	3
1-9	FIN 36059 Investments	3
1-9	FIN 46054 Financial Risk Management	3
3	FIN 46055 Options and Futures Markets	3
3	FIN 46064 International Business Finance	3
	FIN 46067 Portfolio Analysis	3
	1-9 1-9 1-9 1-9 3	 1-9 ECON 32050 Applied Econometrics 1-9 FIN 36054 Intermediate Business Finance 1-9 FIN 36059 Investments 1-9 FIN 46054 Financial Risk Management 3 FIN 46055 Options and Futures Markets 3 FIN 46064 International Business Finance

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 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 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.