## SUGGESTED THREE-YEAR GRADUATION PLAN



## Integrated Mathematics - Bachelor of Science in Education

[EH-BSE-IMTH]

College of Education, Health, and Human Services School of Teaching, Learning and Curriculum Studies Catalog Year: 2013-2014

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.

nd shaded areas) must be completed in the semester listed t	o ensure	e a time	ely grad	luation				
Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes			
Post-Secondary Coursework or Credit By Exa	amina	tion U	Jpon	Entry	as a Freshman: [32 Credit Hours]			
CULT 29535 Education in a Democratic Society	3		С					
MATH 12002 Analytic Geometry and Calculus I	5		С	•	Fulfills Kent Core Mathematics and Critical Reasoning; students not placed into course must take MATH 11010 and 11022			
PSYC 11762 General Psychology	3				Fulfills Kent Core Social Sciences and domestic diversit			
Kent Core Composition	6		С		Con Kart Core automora an anna 2			
Kent Core Humanities and Fine Arts	9				See Kent Core summary on page 2			
Kent Core Social Sciences	3				See list of Kent Core courses that can be earned throug			
Kent Core Basic Sciences	3				AP, CLEP, or CBE exams on page 4			
Semester One: [18 Credit Hours]								
Requirement: pass Praxis I Reading (174 score), Writing	(172 sc	ore) ar	nd Matl	hemat	ics (174 score); minimum 2.750 cumulative GPA by end			
of term; minimum 2.600 major GPA COMM 15000 Introduction to Human Communication	3				Fulfills Kent Core Additional			
TEC 19525 Educational Technology	3		С		Non one reduction			
MATH 12003 Analytic Geometry and Calculus II	5		С		Fulfills Kent Core Additional			
MATH 34001 Fundamental Concepts of Algebra	3		С		Talling North Octo Additional			
PHIL 21002 Introduction to Formal Logic	3	_		_	Fulfills Kent Core Additional			
JS 10097 Destination Kent State: First Year Experience	1				Not required of transfer students with 25 credits			
Semester Two: [16 Credit Hours]	·				The required of training states in the Lorentz and the Lorentz			
Requirement: minimum 2.750 cumulative GPA; minimum	1 2.600 ı	maior (	GPA					
Note: apply online for Advanced Study before the secon								
EPSY 29525 Educational Psychology	3		С					
MATH 22005 Analytic Geometry and Calculus III	4		С	•				
MATH 30011 Basic Probability and Statistics	3	•	С					
MATH 34002 Fundamental Concepts of Geometry	3	•	С					
Kent Core Requirements (including laboratory)	3				See Kent Core Summary on page 2			
Semester Three: [16 Credit Hours]								
Requirement: minimum 2.750 cumulative GPA; minimum	า 2.600 เ	major (	GPA					
Note: apply for student teaching								
ADED 32142 Principles of Teaching Adolescents	3	•	С		Fulfills writing-intensive course requirement.			
CS 10051 Introduction to Computer Science	4		С		Fulfills Kent Core Mathematics and Critical			
MATH 21001 Linear Algebra	3		С	•				
MATH 31011 Discrete Mathematics	3		С					
SPED 23000 Introduction to Exceptionalities	3		С		Fulfills domestic diversity course requirement			
Semester Four: [15 Credit Hours]								
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA								
ADED 32268 The Secondary Mathematics Curriculum	3		С					
HED 42575 Health and Learning: Strategies for Students and Teachers	3		С					
MATH Electives from Group A	6		С		See note 1 on page 2; choose 2 courses from Group A			
MATH Electives from Group B	3		С		See note 2 on page 2; choose 1 course from Group B			

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Critical requirements are boldface in shaded areas.

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Course Subject and Title	Credit Hours	Upper Div.	Min. Grade	Major GPA	Important Notes			
Semester Five: [12 Credit Hours]								
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA								
Note: Apply for graduation.								
ADED 42268 Teaching Mathematics in Secondary Schools	3	•	С					
ADED 42292 Field Work Practicum  MATH 47021 History of Mathematics  MATH Electives from Group B		-	С		Fulfills experiential learning requirement			
			С					
		-	С	-	See note 2 below; choose one course from Group B			
Semester Six: [12 Credit Hours]								
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA								
ADED 42357 Secondary Student Teaching	Fulfills experiential learning requirement							
ADED 49525 Inquiry into Professional Practice	3		С					

**Graduation Requirements Summary** 

ſ	Minimum	Minimum Upper-	Minimum	Global / Domestic	Writing-	Experiential	Min	Minimum	
	Total Hours	Division Hours	Kent Core Hours	Diversity Course	Intensive	Learning	Major GPA	Overall GPA	
	121	39	36	Kent Core / SPED 23000	ADED 32142	ADED 42292 and ADED 42357	2.600	2.750	

**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; grade of C required in both courses	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 and minimum one course from fine arts	May fulfill diversity requirement	9
Social Sciences (6 credit hours)  Must be selected from two curricular areas	3 credit hours fulfilled in this major with PSYC 11762	3
Basic Sciences (6-7 credit hours) Must include one laboratory		6-7
Additional (6 credit hours)	Fulfilled in this major with COMM 15000, MATH 12003 and PHIL 21002	0

### **Special Notes for Licensure:**

- 1. Pass Praxis II "Principles of Learning and Teaching grades 7-12" and Praxis II specialty test by the end of this semester.
- 2. Apply for teaching license (pick up licensure packet in 304 White Hall).
- 3. Semester 4 Study for and take the Praxis II Mathematics test after this semester.

### Note 1: Group A: MATH electives (6 credit hours), choose from the following:

MATH 41001 Introduction to Modern Algebra I	3	MATH 47011 Theory of Numbers	3
MATH 41002 Introduction to Modern Algebra II	3	Any 30000-40000 level MATH elective	3
MATH 41021 Theory of Matrices			

### Note 2: Group B: MATH electives (6 credit hours), choose from the following:

MATH 42021 Graph Theory and Combinatorics	3	MATH 45022 Linear Geometry	3
MATH 42024 Number and Games	3	MATH 46001 Elementary Topology	3
MATH 45021 Euclidean Geometry	3		

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### **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 <a href="https://www.kent.edu/catalog/kent-core">www.kent.edu/catalog/kent-core</a> 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 <a href="www.kent.edu/catalog/diversity">www.kent.edu/catalog/diversity</a> 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**

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 <a href="www.kent.edu/catalog/elr">www.kent.edu/catalog/elr</a> 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.

# Kent Core Courses That Can Be Earned Through Exams

	LEGEND:	<b>G</b> – Globa	al Diversity; <b>D</b> – Domestic Diversity; <b>LAB</b> – Laboratory	Minimum <b>AP</b> score	Minimum CLEP score	Minimum CBE score
	COMPO	SITION				1
	ENG	11011	College Writing I (3)	3	50	С
	ENG		College Writing II (3)	-		C
			AND CRITICAL REASONING		1	
	CS		Introduction to Computer Science (4)	3		
	MATH	11010	, , ,		50	
	MATH	11012	Intuitive Calculus (3)		- 00	С
	MATH				50	C
		12001	Algebra and Trigonometry (5)	-	50	
	MATH		Analytic Geometry and Calculus I (5)	3	50	С
	MATH	14001	Basic Mathematical Concepts I (4)			С
	MATH	14002	Basic Mathematical Concepts II (4)			С
			D FINE ARTS			
	Humanit	ies in Ar	ts and Sciences			
	ENG	22073	Major Modern Writers: British and United States (3)	3	50	
G	HIST	11050	World History: Ancient and Medieval (3)	3		С
	HIST	11051	World History: Modern (3)	3		С
	HIST	12070	History of the United States: The Formative Period (3)	3	50	C
	HIST	12071	History of the United States: The Modern Period (3)	3	50	C
					50	C
	HIST	1xxxx	European History (3)	3	1	<b> </b>
	Fine Arts					ļ
	ARCH	10012	Survey of Architectural History II (3)			С
	ARTH	22006	Art History I: Ancient and Medieval Art (3)	3		
	MUS	22111	The Understanding of Music (3)	-		С
	MUS	22121	Music as a World Phenomenon (3)		†	C
	SOCIAL				1	
				1 0	F0	
	ECON	22060	Principles of Microeconomics (3)	3	50	С
	ECON	22061	Principles of Macroeconomics (3)	3	50	С
	GEOG	10160	Introduction to Geography (3)			С
G	GEOG	17063	World Geography (3)			С
	GEOG	17064	Geography of the United States and Canada (3)			С
	GEOG	22061	Human Geography (3)	3		
	POL	10004	Comparative Politics (3)	3	1	
					50	
	POL	10100	American Politics (3)	3	50	
	PSYC	11762	General Psychology (3)	3	50	
D	PSYC	20651	Child Psychology (3)		50	
D	SOC	12050	Introduction to Sociology (3)		50	
	BASIC S	CIENCE	S	•		•
	BSCI	10001	Human Biology (3)			С
	BSCI	10002	Life on Planet Earth (3)			C
	BSCI	10110		3	50	
					50	
	BSCI	10120	Biological Foundations (4)	4	50	
	BSCI		Anatomy and Physiology I for Allied Health (3)			С
	BSCI	11020	Anatomy and Physiology II for Allied Health (3)			С
	BSCI	20020	Biological Structure and Function (5)			С
	CHEM		Chemistry in Our World (3)			С
	CHEM	10050	Fundamentals of Chemistry (3)		1	C
	CHEM	10050	Introduction to Organic Chemistry (2)		1	C
		10052			+	C
	CHEM		General and Elementary Organic Chemistry (5)			
	CHEM	10060	General Chemistry I (4)	3	50	С
	CHEM	10061	General Chemistry II (4)	5	50	С
LAB	CHEM	10062	General Chemistry I Laboratory (1)	4		
	GEOL	11040	Earth Dynamics (3)			С
	GEOL	11042	Earth History (3)		1	C
	GEOL	21062	Environmental Geology (3)	3	+	C
				3	+	
	GEOL	21080	Oceanography (3)		1	С
	PHY	11030	Seven Ideas that Shook the Universe (3)		<b></b>	С
	PHY	12201	Technical Physics I (3)			С
	PHY	12202	Technical Physics II (3)			С
	PHY	13001	General College Physics I (4)	3		С
	PHY	13002	General College Physics II (4)	3		C
	PHY	13011	College Physics I (2)		1	C
			College Dhysics II (2)		1	
	PHY	13012	College Physics II (2)		<b>_</b>	С
LAB		13021	General College Physics Laboratory I (1)	3		
LAB	PHY	13022	General College Physics Laboratory II (1)	3		
	PHY	21040	Physics in Entertainment and the Arts (3)			С
	PHY	21430	Frontiers in Astronomy (3)		1	C
	PHY	23101	General University Physics I (5)	3	+	C
	PHY PHY	23101	General University Physics I (5)  General University Physics II (5)	3	+	C
			General Linuversity Physics II (5)	. 3		