Roadmap: Integrated Mathematics - Bachelor of Science in Education
EH-BSE-IMTH
Education, Health and Human Services
School of Teaching, Learning and Curriculum Studies
Catalog Year: 2015-2016

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designed as critical (!) must be completed in the semester listed to ensure a timely graduation.

Critical	Course Subject and Title	Credit Hours	Min. Grade	Major GPA	Attribute	Notes
Semester One [16 Credits]						
!	**CULT 29535 Education in a Democratic Society**	**3**	**C**			
	COMM 15000 Introduction to Human Communication	3			KAD	
	US 10097 Destination Kent State: First Year Experience [1]	1				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Two [17 Credits]						
Requirement: pass Praxis Core Reading (156 score), Writing (162 score) and Mathematics (150 score)						
!	**MATH 12002 Analytic Geometry and Calculus I**	**5**	**C**	■	**KMC**	
	PSYC 11762 General Psychology	3			DD/KSS	
	Kent Core Requirement	3				
	Kent Core Requirement	3				
	Kent Core Requirement	3				
Semester Three [17 Credits]						
Requirement: minimum 2.750 cumulative GPA by end of term; minimum 2.600 major GPA						
	ITEC 19525 Educational Technology	3	C			
	MATH 12003 Analytic Geometry and Calculus II	5	C	■	KMC	
	MATH 34001 Fundamental Concepts of Algebra	3	C	■		
	PHIL 21002 Introduction to Formal Logic	3			KMC	
	Kent Core Requirement	3				
Semester Four [16 Credits]						
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA						
Note: apply online for Advanced Study before the second Friday of the term						
!	**EPSY 29525 Educational Psychology**	**3**	**C**			
	MATH 22005 Analytic Geometry and Calculus III	4	C	■		
	MATH 30011 Basic Probability and Statistics	3	C	■		
	MATH 34002 Fundamental Concepts of Geometry	3	C	■		
	Kent Core Requirement	3				
Semester Five [16 Credits]						
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA						
Note: apply for student teaching						
!	**ADED 32142 Principles of Teaching Adolescents**	**3**	**C**		**WIC**	
!	**CS 10051 Introduction to Computer Science**	**4**	**C**	■	**KMC**	
	MATH 21001 Linear Algebra With Applications	3	C	■		
	MATH 31011 Discrete Mathematics	3	C	■		
	SPED 23000 Introduction to Exceptionalities	3	C		DD	
Semester Six [15 Credits]						
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA						
!	**ADED 32268 The Secondary School Mathematics Curriculum**	**3**	**C**			
	HED 42575 Health and Learning: Strategies for Students and Teachers	3	C			
	Group A [2]	6	C	■		
	Group B [3]	3	C	■		
Semester Seven [12 Credits]						
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA						
Note: Apply for graduation.						
!	**ADED 42268 Teaching of Mathematics in Secondary Schools**	**3**	**C**			
!	**ADED 42292 Field Work Practicum**	**3**	**C**		**ELR**	
	MATH 47021 History of Mathematics	3	C	■		
	Group B [3]	3	C	■		
Semester Eight [12 Credits]						
Requirement: minimum 2.750 cumulative GPA; minimum 2.600 major GPA						
!	**ADED 42357 Secondary Student Teaching**	**9**	**S**		**ELR**	
!	**ADED 49525 Inquiry into Professional Practice**	**3**	**C**			

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Graduation Requirements Summary

Minimum Total Hours	Minimum Upper-Division Hours 30000 – 40000 level course	Minimum Kent Core Hours	Minimum	
			Major GPA	Overall GPA
121	39	36	2.600	2.750

1. US 10097 is not required of transfer students with 25 credits (excluding College Credit Plus and dual-enrollment credit) or students age 21+ at time of admission.

2. Group A: MATH electives (6 credit hours)

Choose from the following	
MATH 41001 Introduction to Modern Algebra I (3) *ELR/WIC*	MATH 41002 Introduction to Modern Algebra II (3) *ELR/WIC*
MATH 41021 Theory of Matrices (3)	MATH 47011 Theory of Numbers (3)
Any 30000-40000 level MATH elective (3)	

3. Group B: MATH electives (6 credit hours)

Choose from the following	
MATH 42021 Graph Theory and Combinatorics (3)	MATH 42024 Numbers and Games (3)
MATH 45021 Euclidean Geometry (3)	MATH 45022 Linear Geometry (3)
MATH 46001 Elementary Topology (3)	

Special Major Notes:

- Minimum C grade must be earned in both Kent Core Composition courses.

- Licensure Requirement (not required for graduation):
  Candidates seeking Ohio licensure are required to pass specific assessments in order to apply for licensure. See Ohio Department of Education-Educator Preparation website for more information on assessments specific to licensure type. Taking and passing the licensure tests prior to graduation is encouraged but not required.

University Requirements: Bachelor's degree-seeking students must meet Kent Core (general education requirements), diversity, writing-intensive and experiential learning requirements. For more information about these requirements, please read the following sections in the University Catalog: Kent Core – www.kent.edu/catalog/kent-core; Diversity Course Requirement – www.kent.edu/catalog/diversity; Writing-Intensive Course Requirement – www.kent.edu/catalog/wic; Experiential Learning Requirement – www.kent.edu/catalog/elr.

Attribute Legend: **DD** Diversity–Domestic; **DG** Diversity–Global; **ELR** Experiential Learning; **KAD** Kent Core Additional; **KBS** Kent Core Basic Sciences; **KCM** Kent Core Composition; **KFA** Kent Core Fine Arts: **KHU** Kent Core Humanities; **KMC** Kent Core Mathematics and Critical Reasoning; **KSS** Kent Core Social Sciences; **WIC** Writing Intensive