

TWO DEGREES, ONE PATH

TRANSFER PATHWAY GUIDE 2024-2025

Associate of Science in Pre-Middle Childhood Education-Mathematics and Natural Sciences at UC Clermont College to

Bachelor of Arts in Middle Grades Education – Mathematics and Science at Northern Kentucky University

Overview

Completion of the following curriculum will satisfy the requirements for the Associate of Science (AS) in Pre-Middle Childhood Education-Mathematics and Natural Sciences degree at UC Clermont College and leads to the Bachelor of Arts (BA) in Middle Grades Education – Mathematics and Science degree at Northern Kentucky University (NKU).

Degree Requirements for UC Clermont

To earn a degree at UC Clermont, a student must complete a minimum of 60 credit hours, attain a minimum cumulative GPA of 2.0, and earn a minimum of 15 credit hours at the institution awarding the degree.

Admission Requirements for NKU

Students completing an associate degree with a cumulative GPA of 2.0 or higher will be accepted into NKU.

In addition, students must meet the following requirements for admission into Education. (Courses in parentheses are UC Clermont course equivalents)

- A minimum overall GPA of 2.75
- A minimum grade of "B" in CMST 101 (COMM 1071) and ENG 102 (ENGL 2089)
- A minimum grade of "C" in all other pre-admission courses and required EDU and EDS courses which include EDU 300 (PSYC 2005 and PSYC 2007), EDU 305 (EDST 1001), EDU 313 (CI 1001), and EDS 360 (SPED 1001).

- Meet the entrance exam requirement through an approved combination of passing scores on the ACT and/or Praxis I Core Academic Skills for Educators exams
 - o ACT Comp. 22 -OR-
 - o Reading (ACT: 20 -or- Praxis I: 156) and
 - o Eng./Writing (ACT: 18 -or- Praxis I: 162) and
 - o Mathematics (ACT: 19 -or- Praxis I: 150)

ACT scores must be less than 5 years old at time of admissions semester

- Pass criminal background check
- 60 semester hours completed
- An acceptable portfolio

Degree Requirements for NKU

To earn a bachelor's degree at NKU, students must complete a minimum of 120 credit hours with at least 45 credit hours numbered 300 and above. In addition, at least 25% of the credit hours required for the degree and the last 30 credit hours must be completed at NKU. Students majoring in Middle Grades Education must maintain a GPA of 2.75 overall and in major courses and earn a minimum grade of C in all education courses. Students must meet the pre-requisites for each course. No minor is required for this major.

UC CLERMONT COLLEGE AS IN PRE-MIDDLE CHILDHOOD EDUCATION MATHEMATICS AND NATURAL SCIENCES TO NKU BA IN MIDDLE GRADES EDUCATION – MATHEMATICS AND SCIENCE CHECKLIST

Category 1: UC Clermont Requirements for the AS in Pre-Middle Childhood Education

UC Clermont Course	Course or Category	Credits	NKU Course	Completed
PRFS 1100	First Year Experience UC Clermont	1	UNV 100T	
	College	1	0110 1001	
Education Courses				
CI1001	Educational Technology	3	EDU 313	
SPED1001	Individuals with Exceptionalities	3	EDS 360	
EDST1001	Introduction to Education	3	EDU 305	
EDST1002	Educational Psychology	3	PSY 300T	
EDCT2002	Pre-Adolescent through	3	EDU 300	
EDST2003	Adolescent Development	3	EDU 300	
EDST2000	Critical Pedagogy in Education	3	Waive EDU 309 and	
EDST2099		3	EDU 104	
EDST2010	Classroom Management and	3	Waive	
LD312010	Learning		EDU 318	
EDST2081	Cooperative Learning and	3	Waive	
LD312001	Differentiation		EDS 323	
CI3003	Teaching and Learning in Diverse Classrooms	3	EDU 316	
Mathematics Courses				
			(MAT 102 or	
MATH1021	College Algebra	3	MAT 103) +	
			MAT 100T	
MATH1026	Pre-Calculus	5	MAT 119	
MATH1044	Applied Calculus I	3	MAT 112	
Natural Science				
Courses				
BIOL1021	How Life Works: Introductory Biology I	3	BIO 120	
BIOL1021L	Introductory Biology I Lab	1	BIO 120L	
BIOL1081	Biology I	3	BIO 150	
BIOL1081L	Biology I Lab	1	BIO 150L	
General Education				
Courses				
ENGL1001	English Composition	3	ENG 101	
ENGL2089	Intermediate Composition	3	ENG 102	
PSYC1001	Introduction to Psychology	3	PSY 100	
COMM1071	Introduction to Effective	2	CMCT 101	
	Communication	3	CMST 101	
HIST1002	United States History II	3	HIS 103	

UC Clermont Course	Course or Category	Credits	NKU Course	Completed
	Total Associate Degree Hours	62		

Grade of A or B in MATH 1021 equates to MAT 103 + MAT 100T. Grade of C or D in MATH 1021 equates to MAT 102 + MAT 100T.

Northern Kentucky University

Students must complete the following courses for a BA in Middle Grades Education with certifications to teach mathematics and Science.

Category 2: NKU Requirements for the BA in Middle Grades Education – Mathematics and Science

NKU Course	Course	Credits	UC Clermont Course	Taken at UC Clermont
EDU 104	Orientation: Education Profession/Program	1	Waived	x
EDU 300	Human Growth and Development	3	ESDT 2003	x
EDU 304	Reading and Writing Across the Curriculum: Middle Grades	3		
EDU 305	Introduction to Education	2	EDST 1001	х
EDU 309	Admission Field Experience Middle Grades	2	EDST 2099	х
EDU 313	Instructional Technology	3	CI 1001	х
EDU 316	Education in a Multicultural Society	3	CI 3003	х
EDU 318	Classroom Climate Management: Middle School	2	EDST 2010 (Substitution)	х
EDU 334	Portfolio Development	1		
EDU 343	Educational Assessment Middle Schools	2		
EDU 344	Fundamentals of Middle Grades Education	2		
EDU 391	Middle Grades Field Experience I	2		
EDU 394	Middle Grades Field Experience II	2		
EDU 495	Clinical Experience Middle Grades	12		
EDS 323	Instructional Planning for Inclusive Middle Level Classrooms	3	EDST 2081 (Substitution)	x
EDS 360	Students with Exceptionalities in Schools	3	SPED 1001	х
PSY 100	Introduction to Psychology	3	PSYC 1001	х
CMST 101	Public Speaking	3	COMM 1071	х
ENG 102	Advanced College Writing	3	ENGL 2089	х
EDU 346	Teaching Science in Middle Grades	3		
EDU 347	Teaching Math in Middle Grades	3		
MAT 110	Introduction to Probability	3		
MAT 112	Applied Calculus	3	MATH 1044	х
MAT 116	Arithmetic Structures for Middle Grades Teachers	3		
MAT 117	Algebra for Middle Grades Teachers	3		
MAT 141	Geometry I for K-8 Teachers	3		
MAT 240	Geometry /I for K-8 Teachers	3		

Select 1: MAT 114 Finite Mathematics MAT 119 Pre-Calculus Mathematics MAT 128 Calculus A MAT 129 Calculus I MAT 127 Calculus I MAT 128 Introductory Discrete Mathematics MAT 129 Calculus B MAT 129 Calculus B MAT 129 Calculus B MAT 129 Calculus B MAT 120 MATH 1060 MATH 1071 MAT 127 Calculus B BIO 120 Understanding the Living World with Lab	NKU Course	Course	Credits	UC Clermont Course	Taken at UC Clermont
MAT 114 Finite Mathematics Pre-Calculus Mathematics MAT 119 Pre-Calculus Mathematics MAT 128 Calculus A Select 1: Select one course: BIO 150/150L BIO 151/151L BIO 208/208L BIO 121/121L Cigyry 115 General Physics I with Lab GLY 110 General Physics I with Lab GLY 110 This Dangerous Earth with Lab GLY 110 This Dangerous Earth with Lab GLY 110 This Dangerous Earth with Lab GLY 120 This Dangerous Earth with Lab GLY 120 This Dangerous Earth with Lab GLY 121 This Dangerous Earth with Lab GLY 123 General Physics I with Lab GLY 123 General Physics I with Lab GLY 124 GEOL 1003/L Stars, Galaxies, and Cosmology with Lab GLY 125 Stars, Galaxies, and Cosmology with Lab GLY 120 This Dangerous Earth with Lab GLY 120 This Dangerous Earth with Lab GLY 115 Stars, Galaxies, and Cosmology with Lab GLY 115 Subtotal Major Credit Hours Taken at UC Clermont	STA 204	Statistics for Middle Grades Teachers	3		
MAT 119 Pre-Calculus Mathematics Calculus A Calculus I MAT 129 Calculus I Introductory Discrete Mathematics MAT 227 Calculus B BIO 120 BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab 4 AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab BIO 150/150L BIO 150/150L BIO 123 BIO 123 BIO 120L OHE 28/208L BIO 150/151L BIO 151/151L BIO 28/208L BIO 123 BIO 121/121L SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 123 General Physics I with Lab GLY 125 Stars, Galaxies, and Cosmology with Lab BIO Subtotal Major Credit Hours Taken at UC Clermont MATH 1026 MATH 1060 MATH 1061 MATH 1060 MATH 1061 MATH 1060 MATH 1061 MATH 1061 MATH 1061 MATH 1061 MATH 1060 MATH 1061 MATH 1060 MATH 1061 MATH 1061 MATH 1060 MATH 1061 MATH 1060 MATH 1061 MATH 1061 MATH 1061 MATH 1061 MATH 1060 MATH 1061 MATH 1060 MATH 1061 MATH	Select 1:	Select one course:			
MAT 128 Calculus A MAT 129 Calculus I Introductory Discrete Mathematics MAT 185 Introductory Discrete Mathematics Calculus B BIO 120 BIO 120 BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab BIO 150/150L BIO 151/151L BIO 208/208L BIO 123 Human Anatomy and Physiology I with Lab BIO 123 Human Ecology BIO 121/121L SCI 110 General Physics I with Lab CHE 112/121L SCI 110 This Dangerous Earth with Lab BIO 123 History of the Earth SCI 110 This Dangerous Earth with Lab BIO 121/121L SCI 150 Select One Course: BIO 150/150L BIO 123 Human Anatomy and Physiology I with Lab BIO 123 Human Ecology BIO 121/121L SCI 110 Seases and the Systems They Affect Integrative Science PHY 211 General Physics I with Lab BIO 1003/L A Subtotal Major Credit Hours Taken at UC Clermont	MAT 114	Finite Mathematics		MATH 1022	
MAT 129 MAT 185 MAT 185 Introductory Discrete Mathematics Calculus B BIO 120 BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab 4 AST 110 Solar System Astronomy with Lab Select 1: BIO 150/150L BIO 151/151L BIO 208/208L BIO 123 BIO 123 BIOL 1021L X BIOL 1021L A BIOL 1021L A BIOL 1081/L BIOL 1082/L BIOL 1081/L B	MAT 119	Pre-Calculus Mathematics		MATH 1026	
MAT 185 MAT 227 Calculus B BIO 120 BIO 120L Understanding the Living World with Lab CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab Select 1: BIO 150/150L BIO 151/151L BIO 208/208L BIO 123 BIO 121/121L SCI 110 Chemistry and Society with Lab BIO 151/151L SCI 110 General Physics I with Lab GLY 121 General Physics I with Lab GLY 121 GLY 121 GSCH 121 GSCH 121 GSCH 122 GSCH 123 GSCH 124 GSCH 125 GSCH 125 GSCH 126 GSCH 126 GSCH 127 GSCH 126 GSCH 127 GSCH	MAT 128	Calculus A	3-4	MATH 1060	х
BIO 120 BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 BIO 150/150L BIO 151/151L BIO 208/208L BIO 121/121L SCI 110 Diseases and the Systems They Affect SCI 110 BIO 121/121L SCI 110 General Physics I with Lab GLY 120 GLY 120 BIO 1201/20L GLY 135 GLY 120/120L GLY 155 BIO 150/150L BIO 33-5 BIO 121/121L SCI 110 BIO 208/208L BIO 121/121L SCI 110 BIO 1201C BIO 1082/L BIOL 1082/L BIOL 2001C BIOL 1082/L BIOL 1082/L BIOL 2001C BIOL	MAT 129	Calculus I		MATH 1061	
BIO 120 BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab Select 1: BIO 150/150L BIO 151/151L BIO 208/208L BIO 123 BIO 121/121L SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 120 GLY 120 GLY 120 GLY 120 GLY 120 GLY 121 GENERAL PHYS 1052/L GLY 120/120L GLY 125 GLY 126 GLY 126 GLY 127 GENERAL PHYSIOS I With Lab BIO 1203/L GLY 120/120L GLY 125 Subtotal Major Credit Hours Taken at UC Clermont A BIOL 1021 A BIOL 1081/L BIOL 1081/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 2001C BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1003/L BIOL 1081/L BIOL 10	MAT 185	Introductory Discrete Mathematics		MATH 1071	
BIO 120L CHE 112/112L Chemistry and Society with Lab PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab Select 1: BIO 150/150L BIO 151/151L BIO 208/208L BIO 123 Human Anatomy and Physiology I with Lab BIO 121/121L SCI 110 PHY 211 General Physics I with Lab GLY 120/120L GLY 115 AST 115 Subtotal Major Credit Hours Taken at NKU PHY 245 AST 126 BIOL 1021L X BIOL 1081/L BIOL 1082/L BIOL 2001C BIOL 1082/L BIOL 2001C BIOL 20	MAT 227	Calculus B			
CHE 112/112L Chemistry and Society with Lab 4 PHY 110 Introduction to Physics with Lab 4 AST 110 Solar System Astronomy with Lab 4 GLY 110 The Face of the Earth with Lab 4 Select 1: Select one course: BIO 150/150L Introduction to Biology I with Lab BIOL 1081/L BIO 208/208L Human Anatomy and Physiology I with Lab BIOL 2001C BIO 123 Human Ecology Diseases and the Systems They Affect SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 120/120L This Dangerous Earth with Lab History of the Earth AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont BIOL 1021/L BIOL 1081/L BIOL 1081/L BIOL 1081/L BIOL 1081/L BIOL 1081/L BIOL 1081/L BIOL 1082/L BIOL 1003/L BIOL 1081/L BIOL 1081/L BIOL 1081/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1082/L BIOL 1083/L BIOL 1081/L BIOL	BIO 120	Hadaataadaatka Hadaatii iyo Madaayiikk Lab	4	BIOL 1021	
PHY 110 Introduction to Physics with Lab AST 110 Solar System Astronomy with Lab GLY 110 The Face of the Earth with Lab Select 1: Select one course: BIO 150/150L Introduction to Biology I with Lab BIO 151/151L Introduction to Biology II with Lab BIO 208/208L Human Anatomy and Physiology I with Lab BIO 208/208L Human Ecology BIO 121/121L Diseases and the Systems They Affect SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 120/120L This Dangerous Earth with Lab GLY 115 History of the Earth AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont 45	BIO 120L	Understanding the Living World With Lab	4	BIOL 1021L	X
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GLY 110 The Face of the Earth with Lab Select 1: BIO 150/150L Introduction to Biology I with Lab BIO 208/208L Human Anatomy and Physiology I with Lab BIO 123 Human Ecology BIO 121/121L SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 120/120L GLY 115 History of the Earth AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at NKU Select one course: BIOL 1081/L BIOL 1082/L BIOL 2001C BIOL 1082/L BIOL 2001C PHYS 1051/L PHYS 1052/L GEOL 1003/L A SELECT TO Select one course: BIOL 1081/L BIOL 1082/L BIOL 1003/L PHYS 1051/L PHYS 1052/L GEOL 1003/L A SELECT TO S	PHY 110	Introduction to Physics with Lab	4		
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BIO 123 BIO 121/121L SCI 110 PHY 211 PHY 213 GLY 120/120L GLY 115 AST 115 Subtotal Major Credit Hours Taken at UC Clermont Human Ecology Diseases and the Systems They Affect Integrative Science General Physics I with Lab GEOL 1003/L PHYS 1051/L PHYS 1052/L GEOL 1003/L RHYS 1051/L PHYS 1052/L GEOL 1003/L SEDITION OF THE STATE AND GEOL 1003/L AST 115 Subtotal Major Credit Hours Taken at UC Clermont AST 115 Subtotal Major Credit Hours Taken at UC Clermont	BIO 151/151L	Introduction to Biology II with Lab		BIOL 1082/L	
BIO 121/121L SCI 110 PHY 211 PHY 213 General Physics I with Lab GLY 120/120L GLY 115 AST 115 Subtotal Major Credit Hours Taken at UC Clermont Subtotal Major Credit Hours Taken at UC Clermont SUBTOTION PHYS 1051/L PHYS 1052/L GEOL 1003/L GEOL 1003/L AST 105 PHYS 1051/L PHYS 10	BIO 208/208L	Human Anatomy and Physiology I with Lab		BIOL 2001C	
SCI 110 Integrative Science PHY 211 General Physics I with Lab GLY 120/120L GLY 115 History of the Earth AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont SCI 110 PHYS 1052/L GEOL 1003/L GEOL 1003/	BIO 123	Human Ecology			
PHY 211 PHY 213 General Physics I with Lab GLY 120/120L GLY 115 AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont PHYS 1052/L GEOL 1003/L	BIO 121/121L	Diseases and the Systems They Affect	2.5	PHYS 1051/L	
PHY 213 GLY 120/120L This Dangerous Earth with Lab GLY 115 History of the Earth AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at NKU Subtotal Major Credit Hours Taken at UC Clermont 45	SCI 110	Integrative Science	3-5	PHYS 1052/L	X
GLY 120/120L GLY 115 History of the Earth Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont This Dangerous Earth with Lab History of the Earth Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at UC Clermont 45	PHY 211	General Physics I with Lab		GEOL 1003/L	
GLY 115 AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at NKU Subtotal Major Credit Hours Taken at UC Clermont 45	PHY 213	General Physics II with Lab			
AST 115 Stars, Galaxies, and Cosmology with Lab Subtotal Major Credit Hours Taken at NKU Subtotal Major Credit Hours Taken at UC Clermont 45	GLY 120/120L	This Dangerous Earth with Lab			
Subtotal Major Credit Hours Taken at NKU 64 Subtotal Major Credit Hours Taken at UC Clermont 45	GLY 115	History of the Earth			
Subtotal Major Credit Hours Taken at UC Clermont 45	AST 115	Stars, Galaxies, and Cosmology with Lab			
Clermont 45		Subtotal Major Credit Hours Taken at NKU	64		
		1	45		
Lotal Credit Hours Required for the Maior 109		Total Credit Hours Required for the Major	109		
Total Baccalaureate Degree Credit Hours 126					

EDU 104 and EDU 309 are waived if student completes EDST 2099 and provides documentation of 50 hours of field experience in an education setting. If EDU 104 and EDU 309 are waived, student must complete EDU 334: Portfolio Development (1 credit).

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