

Integrated Mathematics Education- Bachelor of Science in Education

The Integrated Mathematics Education major leads to a Bachelor of Science Degree in Education. Approved by the Ohio Department of Education, this program prepares graduates to teach students in grades 7-12 in the area of Mathematics. In addition to meeting requirements of the Miami Plan, students take courses in Mathematics, Teaching, Curriculum, and Educational Inquiry, and Educational Psychology. During their study, students observe and participate in urban and suburban/rural classrooms, culminating in a 15-week, full-time student teaching experience in which they work closely with mentor teachers in high schools or middle schools, eventually assuming instructional responsibilities for all classes.

Program Requirements

Code	Title	Credit Hours
Required Courses		
EDL 204	Sociocultural Studies in Education	3
EDP 201	Human Development and Learning in Social and Educational Contexts	3
EDP 256	Psychology of the Exceptional Learner	3
TCE 191	Threshold Concepts of Teaching, Curriculum, and Educational Inquiry	3
Select one of the following calculus sequences:		8-12
MTH 151 & MTH 251 & MTH 252	Calculus I and Calculus II and Calculus III	
MTH 249 & MTH 252	Calculus II and Calculus III	
MTH 251 & MTH 252	Calculus II and Calculus III	
Select the following:		
MTH 222	Introduction to Linear Algebra	3
MTH 309	Ohio Assessment for Educators Mathematics Problems Seminar	1
MTH 331	Proof: Introduction to Higher Mathematics	3
MTH 408	Mathematical Problem Solving with Technology	3
MTH 409	Secondary Mathematics from an Advanced Perspective	3
MTH 411	Foundations of Geometry	3
MTH 421	Introduction to Abstract Algebra	4
MTH 482	Great Theorems of Mathematics	3
STA 301	Applied Statistics	3
STA 401	Probability	3
Fall field block courses - take all three concurrently:		
TCE 421A	Classroom Cultures, Community, and Climate	3
TCE 446A	Integrating Literacy Across the Content Areas	3

TCE 484	AYA Integrated Math and Integrated Science Methods I	3
Spring field block courses - take all three concurrently:		
EDP 301A	Assessment and Evaluation in Educational Settings	3
TCE 430	Adolescent Mathematics II	3
TCE 454	TESOL in PK-12: Instructional Theory & Practice	3
Supervised teaching semester:		
TCE 419A	Teaching Internship- Adolescent	15
Total Credit Hours		82-86