

Integrated Mathematics Education- Master of Arts in Teaching

For information, contact:

Director of Graduate Studies

Department of Teaching, Curriculum and Educational Inquiry

401 McGuffey Hall, 513-529-6443

www.MiamiOH.edu/tce

Master of Arts in Teaching (M.A.T.) programs combine graduate and undergraduate study and enables a student with a baccalaureate degree to earn teaching licensure and a master's degree in approximately four or five semesters of full-time study, depending upon academic background, experience, and teaching field.

Program Requirements

Requirements consist of

1. general requirements, common to all M.A.T. programs,
2. content course requirements and retention requirements, specific to each licensure area and
3. successful completion of benchmarks established for program accreditation compliance.
4. passing score on the OAE content test for the licensure area and passing score on the OAE pedagogy test.

A student who has satisfied all or most of the content course requirements can expect to complete an M.A.T. program in four semesters or in three semesters and one summer; others can expect that additional semesters will be necessary in proportion to the number of content courses that must be satisfied.

Admission

In addition to admission requirements previously listed for all master's programs within the department, candidates must have a baccalaureate degree.

Cohort

We encourage anyone with a degree who wants to be a teacher to contact us about our MAT programs. When you are admitted to the program, you are automatically admitted to the cohort. A cohort is a group of students in a common teaching field, taking the same methods courses and student teaching in specific academic years.

A cohort is identified by its general subject area and an academic year; for example, integrated mathematics 2017-18, English language arts 2018-19, and chemistry education 2016-17 are separate cohorts. The cohort year indicates the academic year the student is scheduled for methods courses, and the following academic year when the student is scheduled for student teaching.

You should schedule a pre-application counseling appointment with the Department of Teaching, Curriculum and Educational Inquiry Graduate coordinator or advisor, 513-529-6443.

General Requirements

Code	Title	Credit Hours
Required courses:		
EDL 621	Foundations of Multi-Cultural Education	3
EDP 601 or EDP 603	Advanced Educational Psychology Theories of Human Learning	3
EDP 607	Educational Measurement and Evaluation	3
EDP 656	Education of Individuals with Exceptionalities	3
EHS 649	Action Research for Educators	3
FSW 581	Adolescent Development in Diverse Families: Ages 13-25	3
TCE 519A	Teaching Internship- Adolescent	12
TCE 521A	Classroom Cultures, Community, and Climate	3
TCE/EDL 648	Data-Informed Decision Making in Education	3
Choose one of these		3
EDP 547	eLearning in K-12 Education	3
EDP 636	Diversity, Learning & Technology	
EDP 639	Trends in Learning Design and Analytics	
Take one--depending on program		3
TCE 346A	Reading Instruction for Adolescents (Language Arts only)	3
TCE 546A	Integrating Literacy Across the Content Areas (Mathematics, Social Studies, and Science)	
TCE 546L	Reading in the Secondary School (Foreign Language programs only)	3
Total Credit Hours		42

Integrated Mathematics Education

Program Requirements

Code	Title	Credit Hours
Requirements		
(take TCE 584 fall semester with TCE 521A and TCE 546A, shown above)		
TCE 530	Teaching Adolescent Mathematics (spring semester following TCE 584)	3
TCE 584		3
Content Course Requirements		
Select one of the following calculus sequences:		8-12
MTH 151 & MTH 251 & MTH 252	Calculus I and Calculus II and Calculus III	3
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 331	Proof: Introduction to Higher Mathematics	3
MTH 508	Mathematical Problem Solving with Technology	3
MTH 509	Secondary Mathematics from an Advanced Perspective	3
MTH 511	Foundations of Geometry	3
MTH 521	Introduction to Abstract Algebra	4
MTH 482	Great Theorems of Mathematics	3
STA 301 & STA 501	Applied Statistics and Probability	6
Total Credit Hours		42-46

Retention Requirements

Methods Checkpoint (for Admission to TCE 584 and TCE 530):

- Admission to appropriate adolescent mathematics cohort
- Completion of transcript credit for one of the designated calculus sequences, MTH 508, and at least nine credit hours of 300-600 level mathematics, statistics, or mathematics education courses approved by your academic advisor
- Content course GPA at least 2.50
- Overall GPA at least 3.00 in all graduate content course-work in your plan of study earned at Miami

Supervised Teaching Checkpoint (for Admission to TCE 519A):

- Admission to appropriate adolescent mathematics cohort
- Completion of TCE 584, TCE 530, and the Adolescent Field Block courses
- Completion of or transfer credit for MTH 511, MTH 521, and STA 501 and at least nine credit hours of graduate-level mathematics, statistics, or mathematics education courses approved by your academic advisor
- Content course GPA at least 2.50
- Overall GPA at least 3.00 in all graduate content course-work in your plan of study earned at Miami
- Completion of the OAE content test.