

# MIDDLE CHILDHOOD EDUCATION (M.A.T.)

The Master of Arts in Teaching (MAT) in Middle Childhood Education leads to a Michigan Department of Education (MDE) teacher certification in grades 5-9. Students will gain extensive classroom and clinical experience to develop the content, skills, and dispositions needed to successfully work in middle-level classrooms. Candidates who successfully complete all program requirements will earn an undergraduate degree. Candidates must also pass the required Michigan Test(s) for Teacher Certification (MTTC) in order to be recommended for certification.

## Degree Requirements (General M.A.T.)

The M.A.T program is offered as a master's Plan B or C and requires a minimum of thirty credits. Total credit requirements vary based on the applicant's background in his/her teaching field at the undergraduate level and specialized requirements.

All course work must be completed in accordance with the academic procedures of the College of Education and the Graduate School's regulations governing graduate scholarship and degrees. Requirements for the Master of Arts in Teaching degree must be completed within six years after completion of the first course to be applied to the degree.

Course work is distributed among three areas: Prerequisite courses, common courses, and concentration courses. A teaching certificate is required in order to receive a M.A.T. degree.

Course changes may occur through periodic curriculum revisions, and students are encouraged to consult their assigned advisor prior to each registration period to ensure that all requirements are met.

## Admission Requirements

Undergraduate degree from an accredited higher education institution with a 2.75 cumulative GPA. The following WSU courses or equivalence from another institution are required.

## Math Courses for Admission

Code	Title	Credits
MAE 5130	Problem Solving for Middle School Teachers (5-9)	3
MAE 5140	Proportional and Algebraic Reasoning for Middle Grades Teachers (5-9)	3
MAT 1800	Elementary Functions	4
MAT 2010	Calculus I	4
MAT 2860	Discrete Mathematics	3
MAT 5040	Elementary Abstract Algebra	4
STA 1020	Elementary Statistics	3
<b>Choose One</b>		
MAE 5100	Geometry for Middle School Teachers	3
MAT 5180	Geometry for Middle School Teachers	3
<b>Choose One</b>		
TED 2200 & TED 2205	Foundations I: Foundations of Education in Urban Spaces and Foundations Field Experience	3
TED 6200 & TED 6205	Foundations I: Foundations of Education in Urban Spaces and Foundations Field Experience	3
<b>Choose One</b>		
TED 2210	Foundations II: Intersections of Culture, Language, Identity & Schooling	2

TED 6210	Foundations II: Intersections of Culture, Language, Identity and Schooling	2
<b>Choose One</b>		
TED 2220	Foundations III: Foundations of Inclusive Schooling	2
TED 6220	Foundations III: Foundations of Inclusive Schooling	2
<b>Choose One</b>		
TED 2020	Technology Integration in Teaching	3
TED 6020	Technology Integration in Teaching	3
<b>Total Credits</b>		<b>50</b>

## Science Courses for Admission

Code	Title	Credits
AST 2010	Descriptive Astronomy	4
AST 2011	Descriptive Astronomy Laboratory	1
BIO 1500	Basic Life Diversity	3
BIO 1501	Basic Life Diversity Laboratory	1
BIO 1510	Basic Life Mechanisms	3
BIO 1511	Basic Life Mechanisms Laboratory (CHOOSE ONE:)	1
CHM 1000	Chemistry and Your World	4
CHM 1130	General Chemistry I Laboratory	1
CHM 1140	General Chemistry II	4
CHM 1150	General Chemistry II Laboratory	1
ESG 1010	Geology: The Science of the Earth	3
ESG 1011	Geology: The Science of the Earth Laboratory	1
MAT 1070	College Algebra	5
MAT 1800	Elementary Functions	4
MAT 6150	Probability and Statistics for Teachers	4
PHY 2130	Physics for the Life Sciences I	4
PHY 2131	Physics for the Life Sciences Laboratory	1
PHY 2140	Physics for the Life Sciences II	4
PHY 2141	Physics for the Life Sciences Laboratory	1
ESG 1370	Meteorology: The Study of Weather	3
<b>Choose One:</b>		
BIO 2600	Introduction to Cell Biology	4
BIO 2700	Evolution: Basic Concepts and Applications	3
BIO 2870	Anatomy and Physiology	5
BIO 3500	Ecology and the Environment	3
<b>Choose One</b>		
TED 2200 & TED 2205	Foundations I: Foundations of Education in Urban Spaces and Foundations Field Experience	3
TED 6200 & TED 6205	Foundations I: Foundations of Education in Urban Spaces and Foundations Field Experience	3
<b>Choose One</b>		
TED 2210	Foundations II: Intersections of Culture, Language, Identity & Schooling	2
TED 6210	Foundations II: Intersections of Culture, Language, Identity and Schooling	2
<b>Choose One</b>		
TED 2220	Foundations III: Foundations of Inclusive Schooling	2
TED 6220	Foundations III: Foundations of Inclusive Schooling	2
<b>Choose One</b>		

TED 2020	Technology Integration in Teaching	3
TED 6020	Technology Integration in Teaching	3
<b>Total Credits</b>		<b>88</b>

## Common Courses after Admission for both Mathematics & Science 5-9 Concentrations

All M.A.T. Middle Childhood Education students are required to complete the following courses, which are required for a Michigan Teaching Certificate.

Code	Title	Credits
EDP 5480	Adolescent Psychology	3
RLL 6121	Teaching Literacies across the Content Areas	3
TED 6620	Middle and Secondary Education Clinical Methods I	2
TED 6670	Middle and Secondary Education Clinical Methods II	3
TED 6765	MAT Middle and Secondary Education Student Teaching	8
<b>Total Credits</b>		<b>19</b>

## Concentration Requirements

### Mathematics Education Grade Band 5-9

Code	Title	Credits
MAE 5150	Methods and Materials of Instruction: Secondary School Mathematics	3
MAE 6050	Teaching Mathematics Methods in the Middle Grades	3
MAE 6075	Historical and Social Contexts of Teaching Mathematics (5-12)	3
ED 7999	Terminal Master's Seminar and Essay or Project	3
<b>Total Credits</b>		<b>12</b>

### Science Education Grade Band 5-9

Code	Title	Credits
SCE 5060	Methods and Materials of Instruction in Secondary School Science I	3
SCE 5070	Methods and Materials of Instruction in Secondary School Science II	3
SCE 6010	Safety in the Science Classroom	2
TED 5600	Assessment for Middle and Secondary Education	3
TED 6710	Middle and Secondary Education Student Teaching Seminar	3
<b>Total Credits</b>		<b>14</b>