

# B.S. in Middle Grades Education

## Mathematics Endorsement Course Checklist

Catalog Year 2023-2024

### Pedagogical Knowledge & Pedagogical Content Knowledge Requirements

**Courses Required for Teacher Education Admission:** Grade of “C” or higher required in each course

Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered
<input type="checkbox"/>	EDUC 200 <sup>1</sup>	Foundations of Education in the United States	3		FA/SP/SU
<input type="checkbox"/>	PSYC 160 <sup>1</sup>	Life Span Human Development	3	C5SD	FA/SP/SU
<input type="checkbox"/>	WRTC 103	Rhetorical Reading and Writing	3	CIW	FA/SP/SU

**Middle Grades Education Major Coursework:** Grades of “B-” or higher required in all courses unless otherwise indicated.

Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered
<input type="checkbox"/>	EDUC 200 <sup>1</sup>	Foundations of Education in the United States	3	Required for Teacher Education admission; grade of “C” or higher	FA/SP/SU
<input type="checkbox"/>	EDUC 310 <sup>12</sup>	Teaching in a Diverse Society	3		FA/SP/SU
<input type="checkbox"/> VDOE: Literacy	LED 212	Found. of Literacy for Middle School Teachers	3	C: MIED 211	FA
<input type="checkbox"/>	MIED 211	Field Experience in Middle Education	1	C: LED 212	FA
<input type="checkbox"/>	EXED 200 <sup>1</sup>	Foundations of Exceptional Education	3		FA/SP/SU
<input type="checkbox"/>	MSSE 370 <sup>13</sup>	Gen. Instructional Methods for Grades 6-12	3	P: EDUC 310, LED 212, MIED 211	FA/SP
<input type="checkbox"/> Middle School Teaching	MSSE 413 <sup>134</sup>	Math. Teaching Methods, Grades 6-8	3	C: MSSE 415	SP
<input type="checkbox"/> Methods and Practicum	MSSE 415 <sup>134</sup>	Content Area Field Exp. in Middle Schools	3	C: MSSE 413	FA/SP
<input type="checkbox"/> VDOE: Assessment	MSSE 425 <sup>134</sup>	Assessment in Middle & Secondary Educ.	3		SP
<input type="checkbox"/> VDOE: Content Area Lit.	LED 440 <sup>134</sup>	Disciplinary Literacy in Secondary Educ.	3		FA/SP
<input type="checkbox"/> VDOE: Behav. Manag.	MSSE 403 <sup>134</sup>	Behavior & Classroom Management...	3	recommend fall senior year	FA/SP
<input type="checkbox"/>	MSSE 420 <sup>134</sup>	Differentiation for Adolescents	3		FA
<input type="checkbox"/>	MSSE 450 <sup>134</sup>	Internship Seminar	2	C: MSSE 475	SP
<input type="checkbox"/> Student Teaching	MSSE 475 <sup>134</sup>	Internship in Middle and Secondary	8	C: MSSE 450	SP
<input type="checkbox"/> Pedagogy/Literature	MSSE 455 <sup>134</sup>	Special Topics in Pedagogical Content Knowledge	3		SP

<sup>1</sup> Middle Grades Education major declared & approved

<sup>2</sup> Application to the Teacher Education Program required

<sup>3</sup> Admission to the Teacher Education Program required

<sup>4</sup> Completion of MSSE 370

**College of Education** Department of Middle, Secondary, and Mathematics Education

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*This document is provided as an advising resource only. Official curriculum requirements are listed in the JMU Undergraduate Catalog. In the case of discrepancies, the University Catalog is the official curriculum students must follow. This document was reviewed by the Middle, Secondary, and Mathematics Education Academic Unit Head on June 1, 2023.*

## Mandatory Tasks:

- Be admitted to the Teacher Education Program before you enroll in MSSE 370.
- Attend a Student Teaching Information Meeting in the Fall of your junior year and apply to Student Teaching by October 31 of your junior year.
- Attempt your Praxis Subject Assessment no later than March 1 of your junior year and pass it no later than August 15 before your senior year. You will not be permitted to student teach until you have a passing score on your Praxis Subject Assessment.

## B.S. Degree Requirements (6 credits)

Requirement	Course Number	Course Name	Credits	Pre/Co-Requisites/Notes	Semester Offered
<input type="checkbox"/> Scientific Literacy			3	Recommend ISCI 173.	FA/SP/SU
<input type="checkbox"/> Quantitative Reasoning	MATH 210	Mathematics for Elementary and Middle School Teachers II	4	"C-" or higher in MATH 110	FA/SP/SU

## Math Content Knowledge Licensure Requirements...

...as they fit with the JMU Mathematics for Middle Grades Teachers minor.

Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered
<b>Must earn a minimum of 25 credit hours with at least 6 credit hours from JMU Mathematics.</b>					
<input type="checkbox"/>	MATH 110	Mathematics for Elementary and Middle School Teachers I	4		FA/SP
<input type="checkbox"/>	MATH 111	Mathematics Seminar for Elementary and Middle School Teachers	1	P: "C-" or higher in MATH 110	FA/SP
<input type="checkbox"/>	MATH 210	Mathematics for Elementary and Middle School Teachers II	4	P: "C-" or higher in MATH 110	FA/SP
<input type="checkbox"/>	MATH 135	Elementary Functions	4	MATH 235 may substitute with approval	SP
<input type="checkbox"/> VDOE: Algebra	MATH 304	Principles of Algebra	3	P: "C-" or higher in MATH 210	FA odd
<input type="checkbox"/> VDOE: Geometry	MATH 305	Principles of Geometry	3	P: "C-" or higher in MATH 210	SP even
<input type="checkbox"/> VDOE: Analysis	MATH 306	Principles of Analysis	3	P: "C-" or higher in MATH 210	FA even
<input type="checkbox"/> VDOE: Prob. & Stats.	MATH 307	Principles of Probability and Statistics	3	P: "C-" or higher in MATH 210	SP odd

**The MSME Department recommends students meet with their Mathematics for Middle Grades Teachers minor advisor each semester to review program sequencing and determine possible substitute courses to meet program and license requirements.**

## General Education Requirements

Be sure to follow the General Education course suggestions listed below for maximum overlap of the General Education Program with your Middle Grades Education major and Math for Middle Grades Teachers minor.

Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered
<b>MADISON FOUNDATIONS</b>					
<input type="checkbox"/>		Critical Thinking (C1CT)	3		FA/SP/SU
<input type="checkbox"/>		Human Communication (C1HC)	3	Choose any option from the General Education Planner.	FA/SP/SU
<input type="checkbox"/>	WRTC 103	Rhetorical Reading and Writing	3	Must earn a C or higher.	FA/SP/SU
<b>ARTS AND HUMANITIES</b>					
<input type="checkbox"/>		Human Questions and Contexts (C2HQC)	3	Recommend HIST 101 or HIST 102.	FA/SP/SU
<input type="checkbox"/>		Visual and Performing Arts (C2VPA)	3	Choose any option from the General Education Planner.	FA/SP/SU
<input type="checkbox"/>		Literature (C2L)	3	Recommend ENG 221 or ENG 222.	FA/SP/SU
<b>THE NATURAL WORLD</b>					
<input type="checkbox"/>	MATH 110	Mathematics for Elementary and Middle School Teachers I	4		FA/SP/SU
<input type="checkbox"/>		Physical Principles (C3PP)	3	Recommend ISCI 172.	FA/SP/SU
<input type="checkbox"/>		Natural Systems (C3NS)	3	Recommend ISCI 171.	FA/SP/SU
<input type="checkbox"/>		Lab Experience (C3Lab)	1	Recommend ISCI 104.	FA/SP/SU
<b>AMERICAN AND GLOBAL PERSPECTIVES</b>					
<input type="checkbox"/>		The American Experience (C4AE)	4	Recommend HIST 225.	FA/SP/SU
<input type="checkbox"/>		The Global Experience (C4GE)	3	Choose any option from the General Education Planner.	FA/SP/SU
<b>SOCIOCULTURAL AND WELLNESS AREA</b>					
<input type="checkbox"/>		Wellness Domain (C5WD)	3	Choose any option from the General Education Planner.	FA/SP/SU
<input type="checkbox"/>	PSYC 160	Life Span Human Development	3	Must earn a C or higher.	FA/SP/SU