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
	EDUC 200 ¹	Foundations of Education in the United States	3		FA/SP/SU
	PSYC 160 ¹	Life Span Human Development	3	C5SD	FA/SP/SU
	WRTC 103	Rhetorical Reading and Writing	3	C1W	FA/SP/SU

Secondary 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
	EDUC 200 ¹	Foundations of Education in the United States	3	Required for Teacher Education admission; grade of "C" or higher	FA/SP/SU
	MSSE 210 ¹²	Diversity in Middle/Secondary Grades	3		FA/SP
	MSSE 370 ¹³	General Instr. Methods for Grades 6-12	3	C: MSSE 371	FA/SP
	MSSE 371 ¹³	Clinical Experience in Adolescent Education	1	C: MSSE 370	FA/SP
Middle School Teaching	MSSE 413 ¹³⁴	Mathematics Teaching Methods, Gr. 6-8	3	C: MSSE 415	SP
Methods and Practicum	MSSE 415 ¹³⁴	Content Area Field Exp. in Middle Schools	3	C: MSSE 413	FA/SP
VDOE: Content Area Lit.	LED 440 ¹³⁴	Disciplinary Literacy in Secondary Education	3	P: EDUC 310	FA/SP/SU
VD0E: Assessment	MSSE 425 ¹³⁴	Assessment in Middle and Secondary Educ.	3	Rec. spring of junior year	FA/SP
High School Teaching	MSSE 443 ¹³⁴	Mathematics Teaching Methods, Gr. 9-12	3	C: MSSE 448	FA
Methods and Practicum	MSSE 448 ¹³⁴	Mathematics Field Placement, Grades 9-12	3	C: MSSE 443	FA
	MSSE 420 ¹³⁴	Differentiation for Adolescents	3		FA
VDOE: Behav. Manag.	MSSE 403 ¹³⁴	Behavior & Classroom Management	3	Take with student teaching	FA/SP
	MSSE 450 ¹³⁴⁵	Internship Seminar	2	C: MSSE 475 or MSSE 465	FA/SP
Student Teaching	MSSE 475 ¹³⁴⁵	Internship in Middle and Secondary	8	C: MSSE 450	FA/SP
Pedagogy	MSSE 455	Special Topics in Pedag. Content Knowl.	3	Take with student teaching	FA/SP

¹Secondary Education major declared & approved

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

Memorial Hall, 395 S. High Street, Room 3200, MSC 6912 Harrisonburg, VA 22807 | (540) 568-6486 | https://www.jmu.edu/coe/msme/

This document is provided as an advising resource only. Official curriculum requirements are listed in the JMU Undergraduate Catalog and the JMU Graduate 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, 2024.

² Application to the Teacher Education Program required

³ Admission to the Teacher Education Program required

⁴ Completion of MSSE 370

⁵ Passing score on Praxis Subject Assessment

Mandatory Tasks:

	ation Program before you enroll in MSSE 37	Be admitted to the Teacher Education Program before
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B.S. Degree Requirements (6 credits)

For guidance on courses to satisfy your degree requirements: https://www.jmu.edu/reqistrar/ba_and_bs_degree_courses.shtml.

Requirement	Course		Course Name	Credits	Pre/Co-Requisites/Notes	Semester Offered
Scientific Literacy				3	any	FA/SP/SU
Quantitative Reasoning	MATH 236	Calculus II		4	P: "C-" or higher in MATH 235	FA/SP/SU

Math Content Knowledge Licensure Requirements...

...as they fit with the JMU Mathematics major.

	Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered
	Math Major Core					
	VDOE: Calculus	MATH 236	Calculus II	4	P: "C-" or higher in MATH 235	FA/SP
	VDOE: Calculus	MATH 237	Calculus III	4	P: "C-" or higher in MATH 236	FA/SP
	VDOE: Discrete Math.	MATH 245	Discrete Mathematics	3	P/C: MATH 236	FA/SP
	VDOE: Computer Sci.	MATH 248	Computers and Numerical Algorithms	4	P/C: MATH 236 & inst. permission	FA/SP
	VDOE: Linear Algebra & Functions	MATH 238	Linear Algebra with Differential Equations	4	P: MATH 236; substitutes for MATH 300 and MATH 336	FA/SP
	VDOE: Calculus	MATH 410	Advanced Calculus I	3	P: MATH 245 and MATH 300 or inst. permission	FA/SP
	VDOE: Abstract Algebra	MATH 430	Abstract Algebra I	3	P: MATH 245 and MATH 300 or inst. permission	FA/SP
		MATH 318 <i>or</i>	Introduction to Probability and Statistics	4	318 P: MATH 236	
	VDOE: Prob. & Stat.	Prob. & Stat. MATH 229 <i>and</i> MATH 329	Introduction to Applied Statistics Using Introduction to Probability and	3 3	Recommend MATH 318	FA/SP
Math Elective Courses – 12 credits						
	VDOE: Number Systems & Theory	MATH 310 <i>or</i> MATH 315	Elementary Number Theory <i>or</i> Real Number Systems	3 3	310 and 315 P: MATH 245 or instructor permission	Offered every third semester
	VDOE: Math History	MATH 415	History of Mathematics	3	P: MATH 245 or inst. permission	SP
	SEED: Pedagogy VDOE: Pedagogy	MATH 470	Connections in Mathematics	3	P/C: MATH 318 or MATH 329, and MATH 410, MATH 430, & MATH 475	FA
	VDOE: Geometry	MATH 475	Fundamental Concepts of Geometry	3	P: MATH 245 or inst. permission	FA

The MSME Department recommends students meet with their Mathematics major advisor each semester to review program sequencing and determine possible substitute courses to meet program and licensure requirements.

[☐] 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.

General Education Requirements

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

	Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered				
	MADISON FOUNDATIONS									
	Critical Thinking (C1CT)			3	- Choose any option from the	FA/SP/SU				
	Human Communication (C1HC)			3	General Education Planner.	FA/SP/SU				
	Writing	WRTC 103	Rhetorical Reading and Writing	3	Must earn a C or higher.	FA/SP/SU				
ARTS AND HUMANITIES										
	Human Questions and Contexts (C2HQC)			3	Character from the	FA/SP/SU				
	Visual and Performing Arts (C2VPA)			3	Choose any option from the General Education Planner.	FA/SP/SU				
	Literature (C2L)			3	-	FA/SP/SU				
			THE NATURAL WORLD							
	Quantitative Reasoning (C3QR)	MATH 231 <i>or</i> MATH 235	Calculus with Functions I <i>or</i> Calculus I	3 4	P: ALEKS	FA/SP/SU				
	Physical Principles (C3PP)			3	Choose any option from the	FA/SP/SU				
	Natural Systems (C3NS)			3	General Education Planner.	FA/SP/SU				
	Lab Experience (C3Lab)			1	Either ISCI 104 (1 credit hour) OR a co-requisite or included lab exp. with a C3PP or C3NS course.	FA/SP/SU				
AMERICAN AND GLOBAL PERSPECTIVES										
	The American Experience (C4AE)			4	Choose any option from the General Education Planner.	FA/SP/SU				
	The Global Experience			3	deneral Education Flanner.	FA/SP/SU				
SOCIOCULTURAL AND WELLNESS AREA										
	Wellness Domain (C5W)			3	Choose any option from the General Education Planner.	FA/SP/SU				
	Sociocultural Domain (C5SD)	PSYC 160	Life Span Human Development	3	Must earn a C or higher.	FA/SP/SU				