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	Life Span Human Development	3	C5SD	FA/SP/SU
	WRTC 103	Rhetorical Reading and Writing	3	C1W	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
	EDUC 200 ¹	Foundations of Education in the United States	3	Required for Teacher Education admission; grade of "C" or higher	FA/SP/SU
	EDUC 310 ¹²	Teaching in a Diverse Society	3	C: MIED 211 and LED 212	FA/SP/SU
VDOE: Literacy	LED 212	Found. of Lit. for Middle School Teachers	3	C: EDUC 310 and MIED 211	FA
	MIED 211	Field Experience in Middle Education	1	C: EDUC 310 and LED 212	FA
	EXED 200 ¹	Foundations of Exceptional Education	3		FA/SP/SU
	MSSE 370 ¹³	Gen. Instructional Methods for Grades 6-12	3	P: EDUC 310, LED 212, MIED 211	FA/SP
Middle School Teaching	MSSE 414 ¹³⁴	Natural Sciences Teaching Methods, Grades 6-8	3	C: MSSE 415	FA
- Methods and Practicum -	MSSE 415 ¹³⁴	Field Exp. in Middle Grades Education	3	C: MSSE 414	FA/SP
VDOE: Assessment	MSSE 425 ¹³⁴	Assessment in Middle & Secondary Educ.	3		SP
VDOE: Content Area Lit.	LED 440 ¹³⁴	Disciplinary Literacy in Secondary Education	3	P: EDUC 310, MIED 211, LED 212	FA/SP
VDOE: Behav. Manag.	MSSE 403 ¹³⁴	Behavior & Classroom Management	3	recommend fall of senior year	FA/SP
	MSSE 420 ¹³⁴	Differentiation for Adolescents	3		FA
	MSSE 450 ¹³⁴	Internship Seminar	2	C: MSSE 475	SP
Student Teaching	MSSE 475 ¹³⁴	Internship in Middle and Secondary	8	C: MSSE 450	SP
Pedagogy/Literature	MSSE 455 ¹³⁴	Special Topics in Pedagogical Content Knowledge	3		SP

¹ Middle Grades Education major declared & approved

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 no
be permitted to student teach until you have a passing score on your Praxis Subject Assessment.

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.

² Application to the Teacher Education Program required

³ Admission to the Teacher Education Program required

⁴ Completion of MSSE 370

B.S. Degree Requirements (6 credits)

Requirement	Course Number	Course Name	Credits	Pre/Co-Requisites/Notes	Semester Offered
Scientific Literacy	GEOL 211	Introduction to Oceanography	3		FA/SP/SU
Quantitative Reasoning			3	Recom. MATH 110 or MATH 210	

Science Content Knowledge Licensure Requirements...

...as they fit with the JMU Middle Grades Science minor.

	Requirement	Course	Course Title	Credits	Pre/Co-Requisites/Notes	Semester Offered		
	Option "A" recommended for all requirement categories. Other options are for students switching programs mid-program.							
	Introductory Earth and Planetary Science (choose one)	A: ISCI 171	Earth and Planetary Science for Teachers (C3NS)	3		FA/SP		
		B: GEOL 102	Environment: Earth (C3NS)	3		FA/SP		
		C: GEOL 110 <u>&</u>	Physical Geology (C3NS) <u>and</u>	3	C: GEOL 110L	FA/SP		
		GEOL 110L	Physical Geology Laboratory (C3L)	1	C: GEOL 110	FA/SP		
		A: ISCI 172	Physical Science for Teachers (C3PP)	3		FA/SP		
	Introductory Physical	B: PHYS 140 <i>or</i> PHYS 240 <u>&</u>	College Physics I (C3PP) <i>or</i> University Physics I (C3PP) <i>and</i>	3		FA/SP/SU		
	Science (choose one set of courses)	PHYS 140L <i>or</i> PHYS 240L <u>&</u>	General Physics Laboratory (C3L) <i>or</i> University Physics Laboratory I (C3L) <u>&</u>	1	P/C: PHYS 140 or PHYS 240	FA/SP/SU		
		CHEM 131 <u>&</u>	General Chemistry I (C3PP) <u>and</u>	3	C: CHEM 131L or CHEM 135L	FA/SP/SU		
		CHEM 131L	General Chemistry Laboratory (C3L)	1	C: CHEM 131	FA/SP/SU		
	Introductory Life Science (choose one set of	A: ISCI 173	Life and Environmental Science for Teachers (C3L)	3		FA/SP		
Ш		B: BIO 140 <u>&</u>	Foundations of Biology I (C3NS) <u>and</u>	3	C: BIO 140L	FA/SP		
	courses)	BIO 140L	Foundations of Biology I Lab. (C3L)	1	C: BIO 140	FA/SP		
	Intermediate Earth and Planetary Science	GEOL 211	Introduction to Oceanography (C3NS)	3				
	Intermediate Physical Science (choose one set of courses)	A: CHEM 120	Concepts of Chemistry (C3PP)	3		SP		
		B: PHYS 121	The Physical Nature of Light & Sound (C3PP)	4				
		C: CHEM 132 <u>&</u>	General Chemistry II <u>and</u>	3	P: "C-" or higher in CHEM 131 and CHEM 131L or CHEM 135L 132 C: CHEM 132L or CHEM	FA/SP/SU		
		CHEM 132L	General Chemistry Laboratory	1	136L	FA/SP/SU		
		D: PHYS 150 <u>&</u>	College Physics II <u>and</u>	3	P: "C-" or higher in PHYS 140	SP		
		PHYS 150L <u>&</u>	General Physics Laboratory <u>and</u>	1	P: PHYS 140L & PHYS 140 or PHYS 150; C: PHYS 150	SP		
		E: PHYS 250 <u>&</u>	University Physics II <u>and</u>	3	P: "C-" or higher in PHYS 240; C: MATH 236			
		PHYS 250L	University Physics Laboratory II	1	P: PHYS 140L, PHYS 140, PHYS 150; C: PHYS 250			
	Intermediate Life Science	BIO 150 <u>&</u>	Foundations of Biology II <u>and</u>	3	P: "C-" or higher in BIO 140 & BIO 140L; 150 C: BIO 150L	FA/SP		
		BIO 150L	Foundations of Biology II Laboratory	1	C: BIO 150	FA/SP		
	Comprehensive Nature of Science	IDLS 395	Topics in IDLS	3	Contact your minor advisor for more details.	FA		

The MSME Department recommends students meet with their 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 Middle Grades Science minor.

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 (C1W)	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	Recommend HIST 101 or HIST 102.	FA/SP/SU	
Visual and Performing Arts (C2VPA)			3	Choose any option from the General Education Planner.	FA/SP/SU	
Literature (C2L)			3	Recommend ENG 221 or ENG 222.	FA/SP/SU	
		THE NATURAL WORLD				
Quantitative Reasoning (C3QR)			3	Recommend MATH 110.	FA/SP/SU	
Physical Principles (C3PP)	ISCI 172	Physical Science for Teachers	3		FA/SP/SU	
Natural Systems (C3NS)	ISCI 171	Earth and Planetary Science for Teachers	3		FA/SP/SU	
Lab Experience (C3Lab)	ISCI 173	Life and Environmental Science for Teachers	3		FA/SP/SU	
		AMERICAN AND GLOBAL PERSPECTIVE	S			
The American Experience (C4AE)			4	Recommend HIST 225.	FA/SP/SU	
The Global Experience (C4GE)			3	Choose any option from the General Education Planner.	FA/SP/SU	
SOCIOCULTURAL AND WELLNESS AREA						
Wellness Domain (C5WD)			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	