

Middle School Math and Science, B.S.

Name:

General Education Requirements

Fundamental Studies

Requirements: __credits	Course	Credits	Grade
Academic Writing (AW)	ENGL 101		
Professional Writing (PW)			
Oral Comm. (OC)			
Math (MA)			
Analytic Reasoning (AR)			

Distributive Studies

Requirements: __credits	Course	Credits	Grade
Natural Science Lab (NL)	PHYS 115		
Natural Sciences (NL)	GEOL 100/110		
History/Social Sciences (HS)	TLPL 360		
History/Social Sciences (HS)	EDHD 413		
Humanities (HU)			
Humanities (HU)			
Scholarship in Practice (SP)	TLPL 252		
Scholarship in Practice (SP; non major)			

Big Questions Normally double counted with Distributive Studies

Requirements: __credits	Course	Credits	Grade
Big Questions	AOSC 200		
Big Questions			

Diversity (overlap permitted with Distributive Studies and/or Big Questions)

Requirements: __credits	Course	Credits	Grade
Understanding Plural Soc. (UP)			
Understanding Plural Soc. (UP) or Cultural Competency (CC)			

Experiential Learning - optional (overlap permitted with other requirements/courses)

Requirements: __credits	Course	Credits	Grade
			N/A
			N/A

Requirements for Graduation:

- ☐ At least 30 credits must be earned at UMD
- ☐ 15 of the final 30 credits must be earned at the 300-400 level
- ☐ 12 upper level major credits must be earned at UMD
- ☐ Students must earn a minimum of 120 credits to complete a degree.

UID:

Major Requirements (Grade of "C-" or higher is required unless otherwise stated)

Benchmark 1 Requirements (by 30 credits)

AW with C- or higher	3	
MA with C- or higher	3 or 4	

Benchmark 2 Requirements (by 60 credits)

TLPL 101 & TLPL 102 (or TLPL 251) with B- or higher	3	
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Gateway Courses to be completed with 2.7 or higher:

Biological Lab Science (NL)	4	
Physical Lab Science (NL)	4	
MATH 212 Elements of Numbers and Operations	3	
MATH 213 Elements of Geometry and Measurements	3	

Major Requirements

MATH 212 Elements of Numbers and Operations	3	
MATH 213 Elements of Geometry and Measurements	3	
MATH 214 Elements of Probability and Statistics	3	
MATH 312 Math Reason and Proof for Pre-Serv MS	3	
MATH 314 Intro to Prob, Data, Alaly, and STAT for Pre-Serv MS	3	
MATH 315 Algebra for Middle School	3	
PHYS 115 Inquiry Into Physics	4	
GEOL 100/110 Physical Geology/lab	4	
BSCI 103, 160/161, 170/171 BIO, ECOL EVOL/Lab, CELL BIO/Lab	4	
CHEM 131/132 CHEM Fundamentals I/Lab	4	
AOSC 200/201 Weather and Climate	4	
Science Elective	3 or 4	

Pre-Professional Requirements

TLPL 101 & TLPL 102 (or TLPL 251) (B- or higher) Intro to Teaching	3	
TLPL 250 (HU) or 360 (HS) HIST/PHIL Persp on Ed, Foundations of Educ	3	
TLPL 252 (Spring only) Students, Schools, and Community	3	
EDHD 413 Adolescent Development	3	
EDHD 436 Cognition and Motivation in Content Literacy for MS Students	3	

Professional Courses

TLPL 413 Teaching and Learning in Middle school Mathematics	3	
EDSP 401 Teaching Students with Disabilities in Elementary Classrooms	3	
TLPL 441 Methods for Teaching Multilingual Learners	3	
TLPL 420 Knowledge, Reasoning, and Learning in Science	3	
TLPL 423 Interdisciplinary Teaching in Middle Grades I	3	
TLPL 478 Professional Seminar	1	
TLPL 479E Field Experience: Middle School Education	1	
TLPL 481 Embracing Diversity in the Classroom Community	3	

Yearlong Internship Spring Only

TLPL 489E Internship in Education: Middle School	12	
TLPL 424 Middle School Teaching II	3	
TLPL 300 Digital Learning Tools and Communities	1	

Middle School Math and Science Four Year Academic Plan

Year 1	Fall	Cr.	Spring	Cr.
Benchmark Requirements Fundamental AW with C- or higher Fundamental MA with C- or higher	ENGL 101 (AW)	3	MATH 212	3
	Mathematics (MA)	3	Science Sequence II (AOSC 200/201) (IS)	4
	Science Sequence I (PHYS 115) (NL)	4	Humanities (HU)*	3
	Humanities (HU)*	3	History/Social Science (HS)*	3
	TLPL 101	1	TLPL 102	2
	UNIV 100	1		
	<i>Total</i>	15	<i>Total</i>	15
Year 2	Fall	Cr.	Spring	Cr.
Gateway Requirements Gateways must be completed by 60 credits Gateways courses to be completed with 2.7 MATH 212 MATH 213 Biological Lab Science (NL) Physical Lab Science (NL) TLPL 101 & TLPL 102 with B- or higher	MATH 213	3	TLPL 252 (SP)	3
	Science Sequence III (CHEM 131/132)	4	MATH 214	3
	TLPL 250 (HU) or 360 (HS)	3	Science Sequence IV (BSCI 103, 160/161, or 170/171)	4
	Oral Communication (OC)	3	Analytic Reasoning (AR)	3
	Scholarship in Practice (SP; non-major)*	3	EDHD 436 (offered Spring even years only)	3
	<i>Total</i>	16	<i>Total</i>	16
Test of Basic Skills				
Year 3	Fall	Cr.	Spring	Cr.
Cumulative GPA of 2.75	TLPL 413	3	MATH 315	3
	Science Sequence V (GEOL 100/110) (NL)	4	TLPL 441	3
	EDHD 413 (HS)	3	Science Sequence VI (Elective)	3
	EDSP 401	3	Professional Writing (PW)	3
	MATH 312 or 314	3		
Apply to the COE by December 1st.	<i>Total</i>	16	<i>Total</i>	12
Year 4	Fall	Cr.	Spring	Cr.
	YEARLONG INTERNSHIP			
	TLPL 420	3	TLPL 489E	12
	TLPL 423	3	TLPL 424	3
	TLPL 481	3	TLPL 300	1
	TLPL 479E	1	<i>Total</i>	16
	TLPL 478	1		
	MATH 312 or 314	3		
	<i>Total</i>	14		
Total Degree Credits:				120

This is a proposed plan and the College of Education does not guarantee that these courses will be offered in the designated semester. Consult the *Schedule of Classes* for class availability and meeting times.

* All students must complete two Distributive Studies courses that are approved for Big Questions courses. Students must complete Understanding Plural Society and Cultural Competence courses that may also fulfill a Distributive Studies category.

Middle School Math and Science, B.S.

Benchmarks

45-credit review

Completion of English and Math fundamental studies with a C- or better

Minimum cumulative GPA of 2.75

Submission of College of Education FC/MCEE Self-Assessment

60-credit review

Passing scores on a Test of Basic Skills

Minimum cumulative GPA of 2.75

Submission of College of Education FC/MCEE Self-Assessment

Admission to the full degree/professional program (0804P)

TLPL 101 -AND- TLPL 102 (or TLPL 251) with grade of B- or better

Completion of Gateway courses with a grade of C- or better *and* a 2.70 cumulative GPA in the following courses:

Gateway Courses	Grade (need a C- or better)	Quality Points
MATH 212		
MATH 213		
Biological Lab Science		
Physical Lab Science		
<i>Cumulative Gateway GPA; needs to be 2.70 or higher:</i>		

90-credit review:

Minimum cumulative GPA of 2.75

Passing scores on a Test of Basic Skills

Satisfactory Evaluation on Foundational Competencies

EDHD 413 with a C- or better

EDHD 436 with a C- or better

TLPL 413 with a B- or better

EDSP 401 with a C- or better

TLPL 441 with a C- or better

105-credit review:

Minimum cumulative GPA of 2.75

Passing scores on a Test of Basic Skills

Satisfactory Evaluation on Foundational Competencies and PBA

Passing Scores on the Praxis II

-AND-

TLPL 420 with a C- or better

TLPL 423 with a C- or better

TLPL 478 with a C- or better

TLPL 479E with a Satisfactory grade, 'S'

TLPL 481 with a C- or better