

Middle School Math and Science

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)			
I-Series			
Normally double counted with Distributive Studies			
Requirements: __credits	Course	Credits	Grade
I-Series (IS)	AOSC 200		
I-Series (IS)			
Diversity			
(overlap permitted with Distributive Studies and/or I-series)			
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	
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	
TLPL 101 & TLPL 102 (or TLPL 251) (B- or higher) Intro to Teaching	3	
TLPL 252 (Spring only) Students, Schools, and Community	3	
Pre-Professional Requirements		
TLPL 250 (HU) or 360 (HS) HIST/PHIL Persp on Ed, Foundations of Educ	3	
EDHD 413 Adolescent Development	3	
EDHD 436 Cognition and Motivation in Content Literacy for MS Students	3	
TLPL 462 Reading in the Secondary School	3	
Professional Courses		
TLPL 413 Teaching and Learning in Middle school Mathematics	3	
TLPL 420 Knowledge, Reasoning, and Learning in Scinece	3	
TLPL 423 Interdisciplinary Teaching in Middle Grades I	2	
TLPL 475 Equitable Classrooms	2	
TLPL 479E Field Experience: Middle school Educaiton	1	
TLPL 477 Teaching Acacemically, Culturally and Linguistically Diverse Stds in Middle School & Secondary Ed	2	
Yearlong Internship Spring Only		
TLPL 489E internship in Education: Middle School	12	
TLPL 424 Middle school Teaching II	2	
TLPL 476 Equity and Pedagogy	2	

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 (GEOL 100/110) (NL)	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 or 360	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 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 312	3
	Science Sequence V (AOSC 200/201) (IS)	4	Science Sequence VI (Elective)	3
	EDHD 413 (HS)	3	Elective (Gen Ed as needed*)	3
	TLPL 462	3	Professional Writing (PW)	3
	Elective	3	Elective	3
	<i>Total</i>	16	<i>Total</i>	15
Apply to the COE by December 1st.				
Year 4	Fall	Cr.	Spring	Cr.
	YEARLONG INTERNSHIP			
	TLPL 420	3	TLPL 489E	12
	TLPL 423	2	TLPL 424	2
	TLPL 475	2	TLPL 476	2
	TLPL 479E	1	<i>Total</i>	16
	TLPL 477	2		
	MATH 314	3		
	MATH 315	3		
	<i>Total</i>	16		
			Total Degree Credits: 125	

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 Distribute Studies courses that are approved for I-series courses. Students must complete Understanding Plural Society and Cultural Competence courses that may also fulfill a Distributive Studies category.