

Middle School Math and Science Four Year Academic Plan

Year 1	Fall	Cr.	Spring	Cr.
Benchmark Requirements ENGL101 with C- or higher MATH110 or higher with C- or higher	ENGL 101 (AW)	3	MATH 212	3
	Mathematics (MA)	3	Science Sequence II (GEOL 100/110)	3
	Science Sequence I (PHYS 115) (NL)	4	Humanities (HU)	4
	HUMANITIES (HU)	3	Social Science (HS)	3
	UNIV 100	1	TLPL 251: Introduction to Teaching	3
	<i>Total</i>	14	<i>Total</i>	16
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 NL NL TLPL 251with B- or higher Test of Basic Skills	MATH 213	3	MATH 214	3
	Science Sequence III (BSCI)	3	Science Sequence IV (CHEM)	3
	I-Series	3	Scholarship in Practice (SP)	3
	Oral Communication (OC)	3	Analytic Reasoning (AR)	3
	TLPL 200: Exploring Teaching as a Career or TLPL 360: Foundations of Education	3	TLPL 252: Students, Schooling, and Communities (spring only)	3
	<i>Total</i>	15	<i>Total</i>	15
Year 3	Fall	Cr.	Spring	Cr.
Apply to the COE by December 1st.	Understanding Plural Societies (UP)	3	MATH 312	3
	Science Sequence V (AOSC - I-Series)	3	Science Sequence VI (Elective)	3
	Professional Writing (PW)	3	EDHD 436	3
	TLPL 462: Reading in the Secondary School	3	EDHD 413	3
	TLPL 413: Teaching and Learning Middle School Mathematics	3	Understanding Plural Societies (UP)	3
	<i>Total</i>	15	<i>Total</i>	15
Year 4	Fall	Cr.	Spring	Cr.
YEARLONG INTERNSHIP				
	MATH 315	3	TLPL 424: Interdisciplinary Teaching in the Middle Grades II	2
	MATH 314	3	TLPL xxx: Internship in Education: Middle Grades Math/Science	12
	TLPL xxx: Field experience	1	TLPL 476: Equity and Pedagogy	2
	TLPL 475: Equitable Classrooms	2	<i>Total</i>	16
	TLPL 420: Knowledge, Reasoning, and Learning Science	3		
	TLPL 423: Interdisciplinary Teaching in the Middle Grades I	2		
	TLPL 480: Inclusion, Diversity, and Professionalism in Secondary Education	2		
	<i>Total</i>	16		
Total Degree Credits:				123

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.**

Middle School Math and Science

General Education Requirements				Major Requirements (Grade of "C-" or higher is required)	
Fundamental Studies				Benchmark 1 Requirements (by 30 credits)	
<i>Requirements: credits</i>	Course	Credits	Grade	AW with C- or higher	3
Academic Writing (AW)	ENGL 101			MA with C- or higher	3 or 4
Professional Writing (PW)				Benchmark 2 Requirements (by 60 credits)	
Oral Comm. (OC)				TLPL 251 with B- or higher	3
Math (MA)				Gateway Courses to be completed with 2.7 or higher:	
Analytic Reasoning (AR)				Lab Science (NL)*	4
Distributive Studies				Lab Science (NL)*	4
<i>Requirements: credits</i>	Course	Credits	Grade	MATH 212	3
Natural Science Lab (NL)	PHYS 115			MATH 213	3
Natural Sciences (NL)	GEOL 100/110			Major Requirements	
History/Social Sciences (HS)	EDHD 413			MATH 212	3
History/Social Sciences (HS)				MATH 213	3
Humanities (HU)				MATH 214	3
Humanities (HU)				MATH 312	3
Scholarship in Practice (SP)	TLPL 252: Students, Schooling, and Communities (spring only)			MATH 314	3
Scholarship in Practice (SP; non-major)				MATH 315	3
I-Series				PHYS 115*	4
Normally double counted with Distributive Studies				GEOL 100/110*	4
<i>Requirements: credits</i>	Course	Credits	Grade	BSCI 103, 160/161, 170/171	4
I-Series (IS)	AOSC 200			CHEM 131/132	4
I-Series (IS)				AOSC 200/201	4
Diversity				Science Elective	3 or 4
(overlap permitted with Distributive Studies and/or I-series)				TLPL 251 with B- or higher	3
<i>Requirements: credits</i>	Course	Credits	Grade	TLPL252*: Students, Schooling, and Communities (spring only)	3
Understanding Plural Soc. (UP)				Pre-Professional Requirements	
Understanding Plural Soc. (UP) or Cultural Competency (CC)				TLPL 200: Exploring Teaching as a Career or TLPL 360: Foundations of Education	3
Experiential Learning - optional				EDHD 413*	3
(overlap permitted with other requirements/courses)				EDHD 436	3
<i>Requirements: credits</i>	Course	Credits	Grade	TLPL 462: Reading in the Secondary School	3
<input type="checkbox"/>				Professional Courses	
<input type="checkbox"/>				TLPL 413: Teaching and Learning Middle School Mathematics	3
<input type="checkbox"/>				TLPL xxx: Field experience	1
Students must earn a minimum of 120 credits to complete a degree.				TLPL 420: Knowledge, Reasoning, and Learning Science	3
Requirements for Graduation:				TLPL 423: Interdisciplinary Teaching in the Middle Grades I	3
At least 30 credits must be earned at UMD				TLPL 475: Equitable Classrooms	2
15 of the final 30 credits must be earned at the 300-400 level				TLPL 480: Inclusion, Diversity, and Professionalism in Secondary Education	2
12 upper level major credits must be earned at UMD				Yearlong Internship Spring Only	
*Satisfies Gen Ed and Major requirement				TLPL xxx: Internship in Education: Middle Grades Math/Science	12
				TLPL 424: Interdisciplinary Teaching in the Middle Grades II	2
				TLPL 476: Equity and Pedagogy	2