

WESTERN MICHIGAN UNIVERSITY
College of Education and Human Development
Office of Admissions and Advising

NORTHWESTERN MICHIGAN

NAME: _____ WIN#: _____ CATALOG: _____

Elementary and Middle School Mathematics Teaching Minor (MHEN) – 23 hours (MTTC SUBJECT TEST #89)

ALL COURSES IN THE MINOR REQUIRE A “B” GRADE OR BETTER

(PREREQUISITES)	COURSE	CR.HRS.	NMC COURSE
(MATH 1100/Placement Test)	MATH 1500 – Number Concepts-Elem/Middle Teachers	4	MTH 106 (3 HRS.)
(MATH 1500)	MATH 1510 – Geometry-Elementary/Middle Teachers	4	MTH 206
(MATH 1500)	MATH 2650 – Probability & Stats-Elem/Middle Teachers	4	
(MATH 1510; 2650)	MATH 3520 – Teaching Elementary/Middle School Math	3	
(MATH 1500; 1510; 2650; 3520)	MATH 5540 – Algebra in Elem/Middle School Curriculum	4	
(MATH 5540)	MATH 5550 – Mathematical Modeling and Problem Solving in Elementary/Middle School Curriculum	4	
	<i>Advisor approved course(s) to meet minimum 23 hours requirement</i>		

Elementary Integrated Science Minor (ISEN) – 28 hours (MTTC SUBJECT TEST #93)

ALL COURSES IN THE MINOR REQUIRE A “C” GRADE OR BETTER

(PREREQUISITES)	COURSE	CR.HRS.	NMC COURSE
	BIOS 1700 – Life Science for Elementary Educators I	3	BIO 105
	PHYS 1800 – Physical Science for Elementary Educators I	3	
	GEOG 1900 – Earth Science for Elementary Educators I	3	GEO 105 & 105L
	BIOS 2700 – Life Science for Elementary Educators II	3	
	SCI 2800 – Physical Science for Elementary Educators II	3	
	GEOS 2900 – Earth Science for Elementary Educators II	3	
(MATH 1500)	CHEM 1100/1110 – General Chemistry I/Lab	4	CHM 150
	PHYS 1040 – Intro. to the Sky and Solar System	3	AST 109
(ED 3090 or 3100; All science courses)	ED 4010 – Teaching Elementary School Science	3	

SAMPLE