

SECONDARY CERTIFICATION TEACHING MAJOR/MINOR MATHEMATICS

Major Requirements

A minimum of 30 semester hours from courses numbered above MATH 105 is required.

Code	Title	Credit Hours
Required Courses		
MATH 115	Calculus I	4
MATH 116	Calculus II	4
MATH 215	Calculus III	4
MATH 227	Introduction to Linear Algebra	3
MATH 228	Diff Eqns with Linear Algebra	4
MATH 300	Math Lang Proof & Struct	3
MATH 331	Survey of Geometry	3
MATH 412	Introduction to Modern Algebra	3
MATH 442	Geometry for Teachers	3
or MATH 444	Data Anlsys, Prob&Stat for Tchrs	
Recommended electives:		3
MATH 276	Discrete Math Meth Comptr Engr	
MATH 395	Elementary Number Theory	
MATH 413	Linear Algebra	
MATH 455	Functions of a Complex Variable with Applications	
MATH 462	Mathematical Modeling	
Supplementary requirements (not included in the 30 hours):		
CIS 150	Computer Science I	
or CCM 172	Computing Environ for Math	
STAT 325	Applied Statistics I	
Total Credit Hours		34

Major Notes:

1. A minimum GPA of 2.75 is required for a major.
2. For the major, 12 semester hours must be in courses numbered 300 or above.
3. At least 15 semester hours in UM-Dearborn courses required for a major.

Program Notes:

1. Minimum GPA's are required for program completion: 2.75 cumulative, 2.75 in major, 2.75 in minor, and 2.75 in Professional Studies.
2. Advising Policy: The student is responsible for complying with requirements described in the Undergraduate Catalog as well as on the Four Phase Checklist. Students are expected to meet with their College of Education, Health, and Human Services advisor at least once per year and in the term prior to graduation.
3. Courses taken on a PASS/FAIL basis will NOT be accepted toward program completion.
4. CEHHS recommends successful program completers for State of Michigan Certification, however, it is ultimately up to the State of Michigan to issue certificates. Certain offenses on a criminal record can

keep individuals from obtaining teacher certification. Please refer to The Revised School Code, Act 451 of 1976, section 380.1539b.

5. Initial certification program students must have passing scores on the appropriate MTTC subject area test reported to the University of Michigan-Dearborn College of Education, Health, and Human Services by electronic delivery or direct mail from Pearson Evaluation Systems prior to student teaching.
6. Certified teachers pursuing an endorsement in a post-degree program must complete all program requirements and have passing scores on the appropriate MTTC subject area test reported to the University of Michigan-Dearborn College of Education, Health, and Human Services by electronic delivery or direct mail from Pearson Evaluation Systems prior to a recommendation being made to the State of Michigan Department of Education.

Minor Requirements

A minimum of 21 semester hours from courses numbered above MATH 105 is required.

Code	Title	Credit Hours
Required Courses		
MATH 115	Calculus I	4
MATH 116	Calculus II	4
MATH 227	Introduction to Linear Algebra	3
MATH 300	Math Lang Proof & Struct	3
MATH 331	Survey of Geometry	3
EDD 451	Practicum: Math Second School	1
MATH 442	Geometry for Teachers	3
or MATH 444	Data Anlsys, Prob&Stat for Tchrs	
Recommended electives, if needed:		
MATH 215	Calculus III	
MATH 276	Discrete Math Meth Comptr Engr	
MATH 395	Elementary Number Theory	
MATH 412	Introduction to Modern Algebra	
MATH 455	Functions of a Complex Variable with Applications	
MATH 462	Mathematical Modeling	
STAT 325	Applied Statistics I (or a course in data analysis and probability)	
Supplementary requirements (not included in the 21 hours):		
CIS 150	Computer Science I	
or CCM 172	Computing Environ for Math	
or a programming course in C++, Basic or Logo		
Total Credit Hours		21

Minor Notes:

1. A minimum GPA of 2.75 is required for a minor.
2. For the minor, 6 semester hours must be in courses numbered 300 or above.