

**MICHIGAN STATE BOARD OF EDUCATION
PERIODIC REVIEW/PROGRAM EVALUATION**

SUMMARY OF COURSE REQUIREMENTS FOR SPECIALTY STUDIES PROGRAM

Institution: University of Detroit Mercy Date: 3-24-04 Revised 9-22-05

Specialty Studies Program: Mathematics

Program Standards: Michigan State Board of Education Standards Date: 2000

Program Contact Person(s): Lea Schelke, Ed.D., schelke@udmercy.edu, (313)578-0545

Kevin Daimi, daimikj@udmercy.edu, (313) 993-1503

Jeffrey Boats, boatsjj@udmercy.edu, (313) 993-3393

Course Title	Course Number	Sem. Hours	Elementary		Secondary		Endorse.	
			Maj.	Min.	Maj.	Min.	E	S
Mathematical Analysis I	MTH 111	3	3	3			3	
Mathematical Analysis II	MTH 112	3	3	3			3	
Elementary Functions	MTH 140				3	3		3
Analytic Geometry / Calculus I	MTH 141	4			4	4		4
Analytic Geometry / Calculus II	MTH 142	4			4	4		4
Analytic Geometry / Calculus III	MTH 241	4			4			
Concepts of Modern Elem. School Math I	MTH 477	3	3	3			3	
Concepts of Modern Elem. School Math II	MTH 478	3	3	3			3	
Analysis for Teachers	MTH 480	3	3					
Modern Algebra for Teachers	MTH 481-MED581	3	3	3	3*	3*	3	3*
Linear Algebra for Teachers	MTH 482-MED 582	3			3**			
Fundamental Concepts of Geometry	MTH 483 MED 583	3	3	3	3	3	3	3
History of Mathematics	MTH 484 MED 584	3	3		3			
Statistics for Teachers	MTH 485-MED 585	3	3		3***			
ELECTIVE			3	3	6	3	3	3
Total Number of SEMESTER HOURS <u>required</u> for each option offered:			30	21	36	20	21	20
<u>Elementary Electives: All 3 cr.</u> CSC 171 Introduction to Computer Science MTH 482/MED582 Linear Algebra for Teachers MTH 486/MED586 Higher Arithmetic for Teachers			<u>Secondary Electives: All 3 cr.</u> MTH 276 Discrete Structures MTH 372 Differential Equations with Linear Algebra MTH 406 Introduction to Modern Algebra II MTH 415 Theory of Numbers MTH 451 Techniques of Advanced Calculus MTH 486/MED 586 Higher Arithmetic for Teachers					

*Secondary Majors and Minors may elect to take MTH 405 Introduction to Modern Algebra instead.

**Secondary Majors may elect to take MTH 402 Linear Algebra with Applications instead.

***Secondary Majors may elect to take MTH 427 Applied Probability and Statistics instead.