Department of Teaching and Learning Mathematics Education: Teaching Mathematics Grades 7-12: Initial Certification (MTHE-MA) Program of Study 2020-2021

2020-2021		
Total Units Requi		30-40
by advisement, a	thematical Courses	2-6
Course Number	Course Title	Units
	Mathematical Proof and Proving	
MTHED-GE.2050	(required)	2
MTHED-GE.2043	Selected Topics in Modern	3
MTHED-GE.2044	Mathematics II: Discrete Mathematics	3
MTHED-GE.2103		3
MTHED-GE.2104	Mathematical Investigation and Problem Posing	2
MATH-GA.xxxx MATH-GE xxxx		3
_	jical Core Courses	14
by advisement, a		14
Course Number	Course Title	Units
MTHED-GE.2008	Research Investigations in	3
TCHL-GE.2010	Mathematics Education Inquiries into Teaching and	3
	Learning III Language and Literacy	
TCHL-GE.2275	Acquisition and Development	3
TCHL-GE.2515	Adolescent Learners in Urban Contexts	2
SPCED-GE.2162	Educating Students with Disabilities in Middle Childhood and Adolescent Settings	3
	tent Knowledge Courses	8-20
by advisement, a		
Course Number	Course Title	Units
MTHED-GE.2031	The Teaching of Rational Numbers, Grades 5-12 (required)	2
MTHED-GE.2033	The Teaching of Secondary	
	School Mathematics (required)	3
MTHED-GE.2034	Educational Technology in Secondary School Mathematics	2
	Educational Technology in	
MTHED-GE.2034	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades	2
MTHED-GE.2034 MTHED-GE.2035	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for	2
MTHED-GE.2034 MTHED-GE.2035 MTHED-GE.2036	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required)	2 2 2
MTHED-GE.2034 MTHED-GE.2035 MTHED-GE.2036 MTHED-GE.2122	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection	2 2 2 3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2032 MTHED-GE.2037	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and	2 2 2 3 2
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2032 MTHED-GE.2037	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science	2 2 2 3 2 2
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2032 MTHED-GE.2037 MTHED-GE.2080	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science	2 2 2 3 2 2 2
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2032 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in	2 2 2 3 2 2 2 3 3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110 MTHED-GE.2007 MTHED-GE.2007	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study	2 2 2 3 2 2 2 3 3 3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2032 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2030 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2007	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study	2 2 2 3 2 2 3 3 2 1-3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110 MTHED-GE.2007 MTHED-GE.2007	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study tudent Teaching Course Title Fieldwork in Schools and Other	2 2 2 3 2 2 3 3 2 2 1-3 6
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2030 MTHED-GE.2030 MTHED-GE.2030 MTHED-GE.2030 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2000 Field Work and S Course Number	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study Course Title Fieldwork in Schools and Other Educational Settings Supervised Student Teaching I:	2 2 2 3 2 2 3 3 2 1-3 6 Units
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110 MTHED-GE.2110 MTHED-GE.2007 MTHED-GE.2300 Field Work and S Course Number TCHL-GE.2005	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study tudent Teaching Course Title Fieldwork in Schools and Other Educational Settings Supervised Student Teaching I: Middle and High School	2 2 2 3 3 3 2 1-3 6 Units 0
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2030 MTHED-GE.2030 MTHED-GE.2030 MTHED-GE.2010 MTHED-GE.2010 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2300 Field Work and S Course Number TCHL-GE.2005 MTHED-GE.2911	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study tudent Teaching Course Title Fieldwork in Schools and Other Educational Settings Supervised Student Teaching I: Middle and High School Supervised Student Teaching II:	2 2 2 3 3 2 2 3 3 2 1-3 6 Units 0 3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110 MTHED-GE.2110 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2005 MTHED-GE.2011 MTHED-GE.2011 MTHED-GE.2011	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study tudent Teaching Course Title Fieldwork in Schools and Other Educational Settings Supervised Student Teaching I: Middle and High School Supervised Student Teaching II:	2 2 2 3 3 2 2 3 3 2 1-3 6 Units 0 3
MTHED-GE.2034 MTHED-GE.2036 MTHED-GE.2036 MTHED-GE.2122 MTHED-GE.2037 MTHED-GE.2037 MTHED-GE.2080 MTHED-GE.2110 MTHED-GE.2110 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2007 MTHED-GE.2005 MTHED-GE.2011 MTHED-GE.2011 MTHED-GE.2011	Educational Technology in Secondary School Mathematics (required) The Teaching of Algebra, Grades 7-12 (required) The Teaching of Geometry, Grades 7-12 (required) Professional Seminar for Secondary Mathematics (required) The Teaching of Data Collection and Analysis, Grades 7-12 Teaching Pre-Calculus and Trigonometry in High School Teaching of Computer Science Introduction to Computer Science Education Curriculum and Assessment in Secondary Mathematics Independent Study tudent Teaching Course Title Fieldwork in Schools and Other Educational Settings Supervised Student Teaching I: Middle and High School Supervised Student Teaching II: Middle and High School	2 2 2 3 3 3 2 1-3 6 Units 0 3 3 3

Curriculum updated January 2020

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