

# TEACHING, WITH TEACHER CERTIFICATION IN CHEMISTRY (PRESCHOOL-GRADE 12) AND TEACHER OF STUDENTS WITH DISABILITIES (M.A.T.)

## Program Requirements

Code	Title	Credits
<b>Additional Requirements for State Certification</b>		
<i>Speech</i>		
CMST 101	Fundamentals of Speech: Communication Requirement	3
<i>Physiology and Hygiene</i>		
Pass the MSU Health Knowledge Test available through the Center of Pedagogy or have the Undergraduate equivalent course approved by advisor		
<i>Additional Requirement</i>		
Select one of the following:		3
FSDH 515	Child Development II: Adolescence	
PSYC 560	Advanced Educational Psychology	
<b>Program Requirements</b>		
SASE 509	Sociocultural Perspectives on Curriculum and Assessment	3
SASE 680	Special Topics in Curriculum and Teaching	1-3
SPED 566	Creating Curricular Access for Adolescents with Disabilities	3
SPED 568	Teaching Methods for Inclusive Education	3
SPED 579	Special Education for Students with Disabilities	3
SPED 586	Educational Planning for Adolescents with Disabilities	3
SPED 588	Positive Behavior Supports for Diverse Learners	3
<i>Graduate Professional Sequence I</i>		
SASE 526	Seminar in Inclusive Pedagogies	3
SASE 527	Clinical Practice I	3
SPED 584	Assessment in Special Education and Classroom Practice	3
<i>Teaching Methods</i>		
Select from the list below according to subject area:		3-6
<i>Graduate Professional Sequence II</i>		
SASE 543	Advanced Seminar in Inclusive Pedagogies	3
SASE 529	Clinical Practice II	6
<i>Comprehensive Exam</i>		
In the term that you will sit for exam, register for the section which matched your major & advisor. Successfully pass exam.		
GRAD CMP	Comprehensive Examination	
<b>Total Credits</b>		<b>46-51</b>

## Teaching Methods

Code	Title	Credits
Select course(s) according to subject area:		
<i>Art</i>		6
ARED 511	Foundations of Methods and Curriculum in Art Education I: P-12	
ARED 512	Foundations of Methods and Curriculum in Art Education II: P-12	
<i>Biological Science, Earth Science, Physics or Physical Science</i>		4
SASE 502	Teaching Science in Secondary Schools	
<i>Chemistry</i>		3
CHEM 501	Teaching Chemistry in the Secondary School	
<i>English</i>		4
ENGL 571	Teaching Methods (Secondary English)	
<i>Teaching English as a Second Language</i>		3
APLN 525	Methodology of Teaching ESL	
<i>French</i>		6
FREN 502	Theories and Approaches to Teaching French as a Second Language	
FREN 519	Teaching French in P-12: Practice	
<i>Mathematics</i>		4
MATH 519	Teaching Mathematics	
<i>Music</i>		6
MUED 556	Teaching Methods for the Elementary Music Class	
MUED 557	Teaching Methods for Music in the Secondary Schools	
<i>Social Studies</i>		3
SASE 501	Graduate Methods of Teaching Social Studies	
<i>Spanish</i>		3
SPAN 518	Teaching Spanish in K-12	

## Subject Matter Preparation

Code	Title	Credits
<i>Required Chemistry Courses</i>		
CHEM 120	General Chemistry I	4
CHEM 121	General Chemistry II	4
CHEM 230	Organic Chemistry I	3
CHEM 231	Organic Chemistry II	3
CHEM 232	Experimental Organic Chemistry I	2
CHEM 233	Experimental Organic Chemistry II	2
CHEM 310	Analytical Chemistry	5
CHEM 311	Instrumental Analysis	4
CHEM 340	Physical Chemistry I	3
CHEM 341	Physical Chemistry II	3
CHEM 370	Biochemistry I	3
<i>Required Mathematics Courses</i>		
MATH 122	Calculus I	4
MATH 221	Calculus II	4
<i>Required Physics Courses</i>		
PHYS 191	University Physics I	4
PHYS 192	University Physics II	4
<b>Total Credits</b>		<b>52</b>