



## Chemistry (9-12) with (5-8) Science

### Secondary Education Requirements

Block One	Course	Cr	Pre-Req / Co-Req
TEGR 510	Education's Place in Society & Fld Exp I	3	
TEGR 512	Human Relations / Multicultural Ed	3	

#### *Assessment at Transition Point I: Exploration*

#### Block Two

TEGR 530	Psychology for Teaching & Learning	3	Pre: TEGR 510 / Co: TEGR 532
TEGR 532	Fld Exp II: Learning & Teaching	1	Pre: TEGR 510 & Fld Exp I
SPED 750	Survey of Exceptionality	3	

#### *Assessment at Transition Point II: Learning & Teaching*

#### Block Three

TEGR 581	C&I: (5-12) Science	4	Pre: TEGR 530 / Co: TEGR 583
TEGR 583	Fld Exp III: Curriculum & Instruction	1	Pre: TEGR 532
TEGR 585	Reading for the 5-12 Teacher	3	

#### *Assessment at Transition Point III: Curriculum & Instruction*

#### Block Four *Praxis II Exams (PLT #0524) and (Content #0439 & #0245) required for licensure*

TEGR 660	Clinical Practice & Seminar	7	Pre: Blocks 1-3 & content area courses
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#### *Assessment at Transition Point IV: Clinical Practice – Recommendation for Licensure*

#### Master's Completion

CIED 500	Educational Research	3	May be taken at any time -- Courses for Master's must be completed within seven years from program entry
	Elective from School of Education	3	

**Required Credits: 34**

9-12 Chemistry Requirements		5-8 General Science Requirements	
CHEM 111	General Chemistry I	BIOL 101	General Biology (or the sequence BIOL 201, 202, 204)
CHEM 112	General Chemistry II (or substitute CHEM 115 for CHEM 111 & 112)	PHYS 101	Physics as a Liberal Arts Student (or PHYS 109 & 110 or PHYS 111 & 112)
CHEM 201	Organic Chemistry I	GEOL 111	Intro Physical Geology (or <i>one of</i> GEOL 110, 113, 114, 115)
CHEM 202	Organic Chemistry II	PHYS 104	Astronomy
CHEM 300	Quantitative Analysis		
CHEM 331	Chemical Thermodynamics & Reaction Dynamics		
CHEM 391	Research (1 credit)		
CHEM 392	Research (1 credit)		
CHEM 481	Seminar (1 credit)		
CHEM 484	Seminar (1 credit)		
MATH 113	Calculus I		
MATH 114	Calculus II		
PHYS 111	Intro to Classical Physics I		
PHYS 112	Intro to Classical Physics II		