



Secondary Endorsement Chemistry 5-12

Students majoring in Secondary Education must complete the prescribed pre-education requirements, the requirements for the Secondary Education major, and at least one content endorsement. This endorsement can be completed as the student's first content endorsement.

Students must earn a minimum 3.0 GPA in courses required for the major and each endorsement. The grade of B or above must be earned in designated education major pre-admission and major courses, and students must earn a grade of C or above in all other courses required for the major pre-admission courses, major, and each endorsement. Please see the university catalog for additional information.

Note: the faculty of the education department strongly advise completion of additional endorsements in biology, basic science, or STEM if middle school focused.

Iowa Teaching Endorsement: #152

Requirements for the Endorsement: Methods coursework plus 30 credits content area coursework

Teaching Methods Requirements

Essential Competencies-Outcome Skills **Transfer courses do not receive outcome Skills**

				IL	W	O	Q	IC	V
	EDUC 348	Secondary Science Methods	2						
	EDUC 411	Nature of STEM	2						

Science Content Requirements

				IL	W	O	Q	IC	V
	CHEM 111	General Chemistry I*	4				x		
	CHEM 112	General Chemistry II	4						
	CHEM 321	Organic Chemistry I	5						
	PHYS 131 and 132 Or PHYS 241 and 242	General Physics I and II** Or Classical Physics I and II***	8 Or 10					x (241)	
	Plus one additional upper division (300-level +) chemistry course		3-5						
	Select 3-6 credits from the following options (may not repeat course taken for "Plus one upper division chemistry course" requirement								
	PHSC 260	History and Philosophy of Science	3	x		x			
	CHEM 322	Organic Chemistry II	5			x			
	CHEM 341	Quantitative Analysis	4				x		
	CHEM 351	Biochemistry	3						
	CHEM 361	Physical Chemistry	4						
	CHEM 499	Research in Chemistry	1-4						

Minimum 30 credits required in science content

**Prerequisite is MATH 121 and 122 or consent of instructor.

***Prerequisite is MATH 231 (or concurrent enrollment).

ANY CHANGES/SUBSTITUTIONS MUST BE APPROVED BY THE GRAND VIEW UNIVERSITY EDUCATION DEPARTMENT CHAIR.

This information must be used in conjunction with the 2025-2026 Grand View University Catalog and does not reflect a student's official record of progress. Students are expected to use the Progress tool found on myGVU >Tools > My Academics > 'Plan and register for courses' to monitor and plan coursework. Other available resources include: Course Planning Documents (found on myGVU under Academics and Advising Resources) and the faculty and staff who work with academic requirements.