



Secondary Endorsement STEM 5-8

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 in addition to the student's first content endorsement in mathematics or science.

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.

After completing a 5-12 mathematics OR a 5-12 science endorsement, a STEM endorsement may be added.

Iowa Teaching Endorsement: #976

Requirements for the Endorsement: 32 – 41 credits

Students must complete the designated coursework in each of the categories (A, B, C, D).

Category A: Science – 12-15 credits

Essential Competencies-Outcome Skills

****Transfer courses do not receive outcome Skills****

				IL	W	O	Q	IC	V
	CHEM 107 or CHEM 111	Fundamentals of Organic and Biochemistry or General Chemistry I	4				x		
	BIOL 101	General Biology I	4		x				
	PHSC 101 or PHYS 131/241 and EDUC 408	Physical and Earth Science or General Physics I/Classical Physics I and STEM Teaching: Earth Science	4 or 4/5 and 3				x	x (241)	
	OR								
	A minimum of 12 credit hours of approved college level science coursework including content in Chemistry, Biology, Physics, and Earth Science		12						

Category B: Mathematics/Computer Science – 8-12 credits

Essential Competencies-Outcome Skills

****Transfer courses do not receive outcome Skills****

				IL	W	O	Q	IC	V
	MATH 231 and CPSC 155 or CPSC 241 or Approved CPSC course	Calculus with Analytic Geometry I and Programming Using Visual Basic or Computer Science I or Approved computer programming course	5 and 3 Or 3 or 3						
	OR Take 9 credits from:								
	MATH 121	College Algebra	3				x		
	MATH 122	Trigonometry	3						
	STAT 241	Principles of Statistics	4				x		
	STAT 261	Applied Statistics	3				x	x	
	Other approved math course								
	And take:								

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.

	CPSC 155 or CPSC 241 or Approved CPSC course	Programming Using Visual Basic or Computer Science I or Approved CPSC course	3						
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Category C: Engineering – 3 credits**Essential Competencies-Outcome Skills******Transfer and graduate courses do not receive outcome Skills****

				IL	W	O	Q	IC	V
	EDUC 410/EDGR 510	Engineering, Programming, and Design for Educators	3						

Category D: Methods – 7 credits**Essential Competencies-Outcome Skills******Transfer and graduate courses do not receive outcome Skills****

				IL	W	O	Q	IC	V
	EDUC 348	Secondary Science Teaching Methods	2						
	EDUC 349	Secondary Mathematics Teaching Methods	2						
	EDUC 411/EDGR 511	The Nature of STEM	2						
	EDUC 451/EDGR 513	Experiential STEM	1						

The STEM endorsement cannot be submitted as your first content endorsement for licensure. Please ensure that an appropriate first endorsement is also completed.

Undergraduate students may take graduate level courses (EDGR 5xx) if they qualify for one of the following programs. Graduate coursework will count in the undergraduate GPA.

- Master's Pathway (4+1) Program: Students accepted and enrolled into the Education Department's Master's Pathway program may count up to 15 credit hours of Master of Education graduate coursework towards both their undergraduate and graduate degrees. See the University Catalog for details and admission requirements.
- Undergraduate students interested in taking graduate-level courses must meet requirements as listed in the "Undergraduate Enrollment in Graduate Courses" policy in the catalog. Qualified students may enroll and count up to six credit hours of graduate coursework toward both their undergraduate and graduate degrees.

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