

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 <u>in addition to</u> 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 Iterations *Transfer courses do not receive outcome iterations**

			**Transfer courses do not receive outcome					
			IL	W	0	Q	GA	V
CHEM 107	Fundamentals of Organic and	4				х		
or	Biochemistry or							
CHEM 111	General Chemistry I					х		
BIOL 101	General Biology I	4		х				
PHSC 101	Physical and Earth Science	4		1		х		
or	or	or						
PHYS 131/241	General Physics I/Classical Physics I and	4/5					х	
and	STEM Teaching: Earth Science	and					(241)	
EDUC 408	, and the second s	3						
OR								
A minimum of 12 cr	edit hours of approved college level science	12						
coursework includir								
Earth Science								

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

Essential Competencies-Outcome Iterations

			**Transfer courses do not receive outcome ite						
			IL	w	0	Q	GA	V	
MATH 231 and	Calculus with Analytic Geometry I and	5 and							
CPSC 155	Programming Using Visual Basic	3							
or	or	Or							
CPSC 241 or	Computer Science I or	3 or							
Approved CPSC	Approved computer programming course	3							
course									
OR Take 9 credits f	rom:								
MATH 121	College Algebra	3				х			
MATH 122	Trigonometry	3							
STAT 241	Principles of Statistics	4				х			
STAT 261	Applied Statistics	3				х	х		
Other approved									
math course									

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

This information must be used in conjunction with the 2020-2021 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 myView > GV Self Service when monitoring and planning coursework. Other available resources include: Course Planning Documents (found on myView under Academics) and the faculty and staff who work with academic requirements.

And take:					
CPSC 155 or CPSC 241 or Approved CPSC	Programming Using Visual Basic or Computer Science I or Approved CPSC course	3			
course					

Category C: Engineering - 3 credits

Essential Competencies-Outcome Iterations

		Transfer courses do not receive outcome iterations							
			IL	W	0	Q	GA	V	
EDUC 410	Engineering, Programming, and Design for Educators	3							

Category D: Methods - 7 credits

Essential Competencies-Outcome Iterations Transfer courses do not receive outcome iterations**

			**Transfer courses do not receive outcome iter				ome iter	
			IL	W	0	Q	GA	V
EDUC 348	Secondary Science Teaching Methods	2						
EDUC 349	Secondary Mathematics Teaching Methods	2						
EDUC 411	The Nature of STEM	2						
EDUC 451	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.

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