

		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
8710.3200 Subject Matter Subp. 3. Subject matter standards, elementary education. A candidate must complete a preparation program for licensure under subpart 2, item C, that must include the candidate's demonstration of the knowledge and skills in items A to L.							
A. A teacher of children in kindergarten through grade 6 must:							
	(1) understand and apply the research base for and the best practices of kindergarten and elementary level education;	EDU 3120 Social Studies Methods	EDU 3121 Science Methods	Added to edu 3120	√	√	

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	(2) understand and apply educational principles relevant to physical, social, emotional, moral, and cognitive development of young children;	EDU/CDEV 1210 Child Growth and Development	EDU 3205 Health & Wellness for K-6 Educators		√	√	
	(3) understand and apply the concepts of "belonging" and "family connectedness" as crucial to the development of young children;	EDU/CDEV 1210 Child Growth and Development	EDU 3205 Health & Wellness for K-6 Educators		√	√	
	(4) understand and apply the process and necessity of collaboration with families and other adults in support of the learning of young children; and appropriate ways.	EDU/CDEV 1210 Child Growth and Development	EDU 3205 Health & Wellness for K-6 Educators		√	√	

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	(5)understand how to integrate curriculum across subject areas in developmentally appropriate ways.	EDU 3120 Social Studies Methods	EDU 3121 Science Methods	Added	v	v	
	standards of effective practice in teaching students in kindergarten through grade 6 through a variety of early and ongoing clinical experiences with kindergarten, primary, and	EDU 3102 Literacy Strategies for K-6 Teacher	EDU 3125 Physical Education Methods				

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(7) apply the standards of effective practice in teaching students in kindergarten through grade 6 through a variety of early and ongoing clinical experiences with kindergarten, primary, and intermediate students within a range of educational programming models; and	EDU 4500 Student Teaching			v		
B. A teacher of children in kindergarten through grade 6 must demonstrate the knowledge of fundamental concepts of communication arts and literature and the connections between them. The teacher must:							

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(1) develop the skills and understanding to teach reading, writing, speaking, listening, media literacy, and literature;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II		√	√	
	(2) understand and apply teaching methods related to the developmental stages of language;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II		√	√	
	(3) use a variety of developmentally appropriate techniques for augmenting the listening, speaking, reading, and writing vocabularies of children;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II		√	√	
	(4) know how to integrate the communication arts;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II		√	√	

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	(5) develop children's use of a process to write competently with confidence, accuracy, and imagination appropriate to the purpose and audience;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II		√	√	
	(6) develop children's ability to use written, spoken, and visual language to communicate effectively with a variety of audiences and for different purposes;	EDU 3100 Language Arts Methods I	EDU 3101 Language, Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher	√	√	
	(7) know children's and young adolescents' literature representing a variety of genre;	EDU 3102 Literacy Strategies for K-6 Teacher	EDU 3101 Language, Arts Methods II		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(8) know how to use books and other printed sources to develop children's personal growth and lifelong learning.	EDU 3102 Literacy Strategies for K-6 Teacher	EDU 3101 Language, Arts Methods II		√	√	
C. A teacher of children in kindergarten through grade 6 must have knowledge of the foundations of reading processes, development, and instruction, including:	(1) oral and written language development, including:						
	(a) relationships among reading, writing, and oral language and the interdependent nature of reading, writing, listening, and speaking to promote reading proficiency;	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(b) the use of formal and informal oral language and writing opportunities across the curriculum to help students make connections between oral language and reading and writing, particularly English learners; and	EDU 3101 Language Arts Methods II	EDU 4102 Differential Learning and Assessment		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) the interrelated elements of language arts instruction that support the reading development of English learners, including ways in which the writing systems of other languages may differ from English and factors and processes involved in transferring literacy competencies from one language to another.	EDU 4102 Differential			√		
	(2) phonological and phonemic awareness, including:	EDU 3100 Language Arts Methods I			√		
	(a) the phonemes that make up the English language;	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(b) the ways in which reading achievement is related to phonological and phonemic awareness, including the ability to recognize word boundaries, to rhyme, and to blend, segment, substitute, and delete sounds in words; and	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		√		
	(c) the instructional progression of phonological awareness, for example, words, syllables, onsets and rimes, and phonemes;	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		√		
	(3) concepts about print, including:				√		

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	(a) knowledge about how letters, words, and sentences are represented in written English:	EDU 3100 Language Arts Methods I			√		
	(b) the importance of teaching uppercase and lowercase letter recognition and formation	EDU 3100 Language Arts Methods I			√		
	(c) the instructional progression of the alphabetic principle;	EDU 3100 Language Arts Methods I			√		
	(4) phonics and other word identification strategies and fluency, including:						

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	(a) systematic, explicit phonics instruction that is sequenced according to the increasing complexity of linguistic units;	EDU 3100 Language Arts Methods I			v		
	(b) word identification strategies and common, irregular sight words;	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		v		
	(c) the stages of spelling development and systematic planning for spelling instruction related to the stages of spelling development;	EDU 3100 Language Arts Methods I	EDU 3102 Literacy Strategies for K-6 Teacher		v		
	(d) how the etymology and morphology of words relate to orthographic patterns in English; and	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		v		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(e) the development of reading fluency;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	
	(5) knowledge of how to develop vocabulary knowledge, including:						
	(a) understanding the critical role vocabulary knowledge plays in reading;	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		√		
	(b) how to provide explicit instruction in vocabulary development and in determining the meaning and accurate use of unfamiliar words encountered through listening and reading; and	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) how to provide opportunities for students to engage in early and continual language experiences to increase vocabulary by modeling and explicitly teaching students a variety of strategies for gaining meaning from unfamiliar words;	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		√		
	(6) comprehension processes related to reading, including:						

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	(a) knowledge of how proficient readers read, how to facilitate listening comprehension, and how to develop comprehension of print material;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	
	(b) the levels of comprehension, how to explicitly teach and provide guided practice in comprehension skills and strategies; and	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	
	(c) how to facilitate comprehension at various stages of reading development by selecting and using a range of texts, activities, and strategies before, during, and after reading;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(7) content-area literacy, including:						
	(a) knowledge of reading comprehension processes necessary to comprehend different types of informational materials and content-area texts; and	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		v		
	(b) the structures and features of expository (informational) texts and effective reading strategies to address different text structures and purposes for reading;	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		v		
	(8) literary response and analysis, including:						

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	(a) knowledge of how to provide frequent opportunities to listen to and read high-quality literature for different purposes;	EDU 3101 Language Arts Methods II			√		
	(b) knowledge of how to select, evaluate, and respond to literature from a range of genres, eras, perspectives, and cultures; and	EDU 3101 Language Arts Methods II	EDU 3102 Literacy Strategies for K-6 Teacher		√		
	(c) knowledge of how to analyze and teach literary text structures and elements and criticism, drawing upon literature and instructional needs and interests;	EDU 3101 Language Arts Methods II			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(9) structure of the English language, including:						
	(a) basic knowledge of English conventions and the structure of the English language (sentence structure, grammar, punctuation, capitalization, spelling, syntax, and semantics);	EDU 3101 Language Arts Methods II			v		
	(b) knowledge of how to enhance literacy skills including helping students understand similarities and differences between language structures used in spoken and written English;	EDU 3101 Language Arts Methods II			v		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) basic knowledge of English syntax and semantics and the ability to use this knowledge to improve reading competence, including how to help students interpret and apply English grammar and language conventions in authentic reading, writing, listening, and speaking contexts; and	EDU 3101 Language Arts Methods II			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(d) knowledge of how to help students consolidate knowledge of English grammar and improve reading fluency and comprehension by providing frequent opportunities to listen to, read, and reread materials.	EDU 3101 Language Arts Methods II			√		
D. A teacher of children in kindergarten through grade 6 must have knowledge of and ability to use a wide range of instructional practices, approaches, methods, and curriculum materials to support reading instruction, including:	(1) appropriate, motivating instruction, both explicit and implicit, in:						
	(a) oral language development;	EDU 3100 Language Arts Methods I	EDU 3102		√		

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	(b) auditory awareness, discrimination of sounds, phonemic awareness, and word awareness;	EDU 3100 Language Arts Methods I	EDU 3102		√		
	(c) the teaching of phonics, sight words, spelling, and fluency, including the selection, design, and use of instructional programs, materials, texts, and activities; and	EDU 3100 Language Arts Methods I	EDU 3102		√		
	(d) applying a variety of reading comprehension strategies to different types of informational materials and content-area texts including teaching the structures and features of expository texts;	EDU 3101 Language Arts Methods II			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 experience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(2) selection, design, and use of appropriate and engaging instructional strategies, activities, and materials, including:						
	(a) multisensory techniques to ensure that students learn concepts about print including how to recognize and write letters;	EDU 3100 Language Arts Methods I			√		
	(b) teaching vocabulary using a range of instructional activities to extend students' understanding of words; and	EDU 3101 Language Arts Methods II			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) teaching comprehension skills and strategies, including opportunities for guided and independent work;	EDU 3101 Language Arts Methods II			v		
	(3) selection and appropriate use of a wide range of engaging texts representing various genres and cultures when designing reading lessons; the ability to facilitate and develop students' responses to literature and critical reading abilities through high level, interactive discussions about texts;	EDU 3101 Language Arts Methods II			v		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(4) selection and appropriate explicit instruction and guided practice to teach written-language structures using a range of approaches and activities to develop students' facility in comprehending and using academic language;	EDU 3100 Language Arts Methods I			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(5) development of a literacy framework to coherently organize reading programs and effectively implement lessons, including a variety of grouping strategies, guided practice, and independent work; and	EDU 4102 Differential Learning and Assessment	EDU 4500 Student Teaching		v	v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(6) the ability to design purposeful lessons and tasks based on the qualities, structures, and difficulty of texts and the reading needs of individuals, including the selection and use of supplementary materials to support the reading development of struggling and gifted readers.	EDU 3101 Language Arts Methods II	EDU 4102 Differential Learning and Assessment		√	√	
E. A teacher of children in kindergarten through grade 6 must have knowledge of and ability to use a variety of assessment tools and practices to plan and evaluate effective reading instruction, including:	(1) formal and informal tools to assess students':						

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(a) oral and written language development;	EDU 3100 Language Arts Methods I			√		
	(b) auditory awareness, discrimination of sounds, and phonological and phonemic awareness	EDU 3100 Language Arts Methods I			√		
	(c) understanding of concepts about print and the alphabetic principle;	EDU 3100 Language Arts Methods I			√		
	(d) knowledge of and skills in applying phonics and other word identification strategies, spelling strategies, and fluency;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	
	(e) vocabulary knowledge in relation to specific reading needs and texts;	EDU 3101 Language Arts Methods II			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(f) comprehension of narrative and expository texts and the use of comprehension strategies, including determining independent, instructional, and frustration reading levels;	EDU 3101 Language Arts Methods II			√		
	(g) comprehension in content area reading;	EDU 3101 Language Arts Methods II			√		
	(h) ability to evaluate and respond to a range of literature and analyze text structures and elements; and	EDU 3101 Language Arts Methods II			√		

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	(i) oral and written language to determine understanding and use of English language structures and conventions;	EDU 3101 Language Arts Methods II			v		
	(2) formal and informal tools to:						
	(a) plan, evaluate, and differentiate instruction to meet the needs of students from various cognitive, linguistic, and cultural backgrounds; and	EDU 4102 Differential Learning and Assessment	EDU 4500 Student Teaching		v	v	v
	(b) design and implement appropriate classroom interventions for struggling readers and enrichment programs for gifted readers;	EDU 4102 Differential Learning and Assessment	EDU 4500 Student Teaching		v	v	

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	(3) the ability to work with reading specialists, gifted and talented specialists, and other staff on advanced intervention and enrichment programs;	EDU 4102 Differential Learning and Assessment	EDU 4500 Student Teaching		√	√	√
	(4) the ability to communicate results of assessments to specific individuals in accurate and coherent ways that indicate how the results might impact student achievement;	EDU 3101 Language Arts Methods II	EDU 4500 Student Teaching		√	√	

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	(5) the ability to administer selected assessments and analyze and use data to plan instruction through a structured clinical experience linked to university reading course work; and	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		v	v	
	(6) the ability to understand the appropriate uses of each kind of assessment and the concepts of validity and reliability.	EDU 3101 Language Arts Methods II			v		

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F. A teacher of children in kindergarten through grade 6 must have the ability to create a literate and motivating environment that fosters reading by integrating foundational knowledge, use of instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments, including:							
	(1) knowledge of how to use interests, reading abilities, and backgrounds as foundations for the reading program and provide authentic reasons to read and write;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	

		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
8710.3200 Subject Matter	(2) the ability to support students and colleagues in the selection or design of materials that match reading levels, interests, cultural, and linguistic backgrounds;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II	EDU 4102 Differential Learning and Assessment	v	v	
	(3) the development and implementation of classroom and schoolwide organizational structures that include explicit instruction, guided practice, independent reading, interactive talk, opportunities for response, and reading and writing across the curriculum;	EDU 3101 Language Arts Methods II			v		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(4) the ability to create and maintain a motivating classroom and school environment and teacher and student interactions that promote ongoing student engagement and literacy for students;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	
	(5) the ability to foster independence and self-efficacy in readers;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	<p>by the development of independent reading by encouraging and guiding students in selecting independent reading materials, promoting extensive independent reading by providing daily opportunities for self-selected reading and frequent opportunities for sharing what is read; and motivating students to read independently by regularly reading aloud and providing</p>	<p>EDU 3101 Language Arts Methods II</p>			<p>√</p>	<p>√</p>	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(7) the use of a variety of strategies to motivate students to read at home; encourage and provide support for parents or guardians to read to their children, in English or in the primary languages of English learners; and to use additional strategies to promote literacy in the home.	EDU 3100 Language Arts Methods I	EDU 4102 Differential Learning and Assessment		v	v	
G. A teacher of children in kindergarten through grade 6 must demonstrate a view of professional development as a career-long effort and responsibility. The teacher must:							

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	(1) exhibit a particular stance towards professional development. A beginning teacher must view learning about reading processes and student reading development, and becoming more proficient as a teacher of reading, as a career-long effort and responsibility;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II		v	v	

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	(2) display positive dispositions toward the act of reading and the teaching of reading, including a belief that students can learn to read regardless of cognitive, cultural, or linguistic backgrounds;	EDU 4500 Student Teaching				v	
	(3) provide support for reading development by communicating regularly with parents or caregivers and eliciting their support in a student's reading development;	EDU 3100 Language Arts Methods I				v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(4) understand how to provide instructions for paraprofessionals and volunteers working in the classroom to ensure that these individuals provide effective supplementary reading instruction;	EDU 4102 Differential Learning and Assessment				v	
	(5) engage in personal learning as a daily and long-term goal to inform instructional practices, including reflection on practices to improve daily instructional decisions and interactions with students; and	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II			v	v

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(6) collaborate with other professionals on literacy learning initiatives.	EDU 4102 Differential Learning and Assessment				v	
H. A teacher of children in kindergarten through grade 6 must demonstrate knowledge of fundamental concepts of mathematics and the connections between them. The teacher must know and apply:							

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(1) concepts of mathematical patterns, relations, and functions, including the importance of number and geometric patterns in mathematics and the importance of the educational link between primary school activities with patterns and the later conceptual development of important ideas related to functions and be able to:	EDU 3122 Math Methods for Elementary Teachers					
	(a) identify and justify observed patterns;	EDU 3122 Math Methods for Elementary Teachers				v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(b) generate patterns to demonstrate a variety of relationships; and	EDU 3122 Math Methods for Elementary Teachers				v	
	(c) relate patterns in one strand of mathematics to patterns across the discipline;	EDU 3122 Math Methods for Elementary Teachers				v	
	(2) concepts and techniques of discrete mathematics and how to use them to solve problems from areas including graph theory, combinatorics, and recursion and know how to:						

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	(a) help students investigate situations that involve counting finite sets, calculating probabilities, tracing paths in network graphs, and analyzing iterative procedures; and	EDU 3122 Math Methods for Elementary Teachers				√	
	(b) apply these ideas and methods in settings as diverse as the mathematics of finance, population dynamics, and optimal planning;	EDU 3122 Math Methods for Elementary Teachers				√	
	(3) concepts of numerical literacy:						

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	(a) possess number sense and be able to use numbers to quantify concepts in the students' world;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(b) understand a variety of computational procedures and how to use them in examining the reasonableness of the students' answers;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(c) understand the concepts of number theory including divisibility, factors, multiples, and prime numbers, and know how to provide a basis for exploring number relationships; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(d) understand the relationships of integers and their properties that can be explored and generalized to other mathematical domains;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(4) concepts of space and shape:	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(a) understand the properties and relationships of geometric figures;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(b) understand geometry and measurement from both abstract and concrete perspectives and identify real world applications; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	

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	(c) know how to use geometric learning tools such as geoboards, compass and straight edge, ruler and protractor, patty paper, reflection tools, spheres, and platonic solids;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(5) data investigations:						
	(a) use a variety of conceptual and procedural tools for collecting, organizing, and reasoning about data;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	
	(b) apply numerical and graphical techniques for representing and summarizing data;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) interpret and draw inferences from data and make decisions in a wide range of applied problem situations; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(d) help students understand quantitative and qualitative approaches to answering questions and develop students' abilities to communicate mathematically;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(6) concepts of randomness and uncertainty:						
	(a) probability as a way of describing chance in simple and compound events; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	

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	(b) the role of randomness and sampling in experimental studies;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(7) mathematical processes:						
	(a) know how to reason mathematically, solve problems, and communicate mathematics effectively at different levels of formality;	EDU 3122 Math Methods for Elementary Teachers	Math for Elementary Education			v	
	(b) understand the connections among mathematical concepts and procedures, as well as their application to the real world;	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) understand the relationship between mathematics and other fields; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(d) understand and apply problem solving, reasoning, communication, and connections; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(8) mathematical perspectives:						
	(a) understand the history of mathematics and the interaction between different cultures and mathematics; and	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	
	(b) know how to integrate technological and nontechnological tools with mathematics.	EDU 3122 Math Methods for Elementary Teachers	Math 1050 Math for Elementary Education			v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
I. A teacher of children in kindergarten through grade 6 must demonstrate knowledge of fundamental social studies concepts and the connections among them. The teacher must know and apply:							
	(1) tools of inquiry and problem solving;	EDU 3120 Social Studies Methods				√	
	(2) concepts of:	EDU 3120 Social Studies Methods				√	
	(a) culture and cultural diversity;	EDU 3120 Social Studies Methods				√	
	(b) the ways human beings view themselves in and over time;	EDU 3120 Social Studies Methods				√	
	(c) the interaction between people, places, and environments;	EDU 3120 Social Studies Methods				√	
	(d) individual development and identity;	EDU 3120 Social Studies Methods				√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(e) interactions among individuals, groups, and institutions;	EDU 3120 Social Studies Methods				v	
	(f) how people create and change structures of power and authority and of governance;	EDU 3120 Social Studies Methods				v	
	(g) how people organize for the production, distribution, and consumption of goods and services and how those choices impact the environment;	EDU 3120 Social Studies Methods				v	
	(h) the relationships among science, technology, and society;	EDU 3120 Social Studies Methods				v	
	(i) global connections and independence; and	EDU 3120 Social Studies Methods				v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(j) the ideals, principles, and practices that promote productive community involvement;	EDU 3120 Social Studies Methods				√	
	(3) history, government, and culture of Minnesota-based American Indian tribes as integrating concepts throughout the elementary curriculum; and	EDU 3120 Social Studies Methods				√	
	as an integrating concept through understanding of how to use the sciences, social sciences, mathematics, arts, and communications in the exploration of	EDU 3120 Social Studies Methods				√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
<p>J. A teacher of children in kindergarten through grade 6 must demonstrate a fundamental knowledge of scientific perspectives, scientific connections, science in personal and social perspectives, the domains of science, and the methods and materials for teaching science and scientific inquiry. The teacher must:</p>							
	<p>(1) understand science as a human endeavor, the nature of scientific knowledge, and the historical perspective of science;ability to:</p>	<p>EDU 3121 Science Methods</p>				<p>v</p>	
	<p>(2) know and apply the understandings and abilities of scientific inquiry including the</p>	<p>EDU 3121 Science Methods</p>				<p>v</p>	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(a) identify questions and concepts that can be explored through scientific inquiry;	EDU 3121 Science Methods				√	
	(b) design and conduct scientific investigations;	EDU 3121 Science Methods				√	
	(c) use appropriate scientific instrumentation and equipment and mathematics as tools to improve scientific investigations and communications;	EDU 3121 Science Methods	SCI 1280 Investigative Science I	Science 1285 Investigative Science II		√	√
	(d) compare the use of multiple types of inquiry for answering questions;	EDU 3121 Science Methods				√	√

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(e) evaluate alternative explanations and models based on evidence, current scientific understanding, and logic; and	EDU 3121 Science Methods	Science 1280 Investigative Science I	Science 1285 Investigative Science II		√	√
	(f) communicate and defend a scientific argument;	EDU 3121 Science Methods	Science 1280 Investigative Science I	Science 1285 Investigative Science II		√	√
	(3) know how to make connections across the domains of science, between science and technology, and between science and other school subjects;	EDU 3121 Science Methods	Science 1280 Investigative Science I			√	√
	understandings and abilities when making decisions about personal and societal issues;	EDU 3121 Science Methods				√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(5) know and apply the fundamental concepts and principles of physical science concerning properties of and changes in matter; position, motion, and force; light, heat, electricity, and magnetism; and kinds of and ways to transfer energy;	EDU 3121 Science Methods	Science 1285 Investigative Science II		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(6) know and apply the fundamental concepts and principles of life science concerning the characteristics of organisms, the life cycle of organisms, the interrelationships of organisms and environments, structure and function in living systems, reproduction and heredity, regulation and behavior, populations and ecosystems and their interrelationships, and diversity and adaptations of organisms;	EDU 3121 Science Methods	Science 1280 Investigative Science I		v	v	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(7) know and apply the fundamental concepts and principles of earth and space science concerning properties of earth materials; objects in the sky; changes in earth and sky; structure of the earth system, including hydrosphere, biosphere,	EDU 3121 Science Methods	Science 1285 Investigative Science II		√		
	(8) know and apply pedagogy and classroom management in science and scientific inquiry including understanding:	EDU 3121 Science Methods			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(a) content standards under chapter 3501 for recommendations regarding curriculum, instruction, assessment, professional development, and program development;	EDU 3121 Science Methods			√		
	(b) how to teach scientific inquiry in a developmentally appropriate manner;	EDU 3121 Science Methods			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(c) common student misconceptions in science and developmentally appropriate strategies to elicit students' misconceptions and help them move to accepted scientific understandings; and	EDU 3121 Science Methods			√		
	(d) how to implement safe environments for learning science through knowing:	EDU 3121 Science Methods			√		
	i. state and national legal responsibilities and safety guidelines for teaching science	EDU 3121 Science Methods			√		
	ii. how to establish and enforce recognized safety procedures during the science	EDU 3121 Science Methods			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	iii. how to use required safety equipment for classroom, field, and laboratory settings including goggles, fire extinguisher, fire blanket, eye wash, and chemical shower;	EDU 3121 Science Methods			√		
	iv. how to manage, maintain, and utilize science supplies and equipment;	EDU 3121 Science Methods			√		
	v. state and national guidelines and plan for the care, storage, use, and disposal of chemicals and equipment used to teach science;	EDU 3121 Science Methods			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	vi. the ethics of and restrictions on making and maintaining collections of scientific specimens and data; and	EDU 3121 Science Methods			v		
	vii. the ethics of and restrictions on the use of live organisms, and how to acquire, care, handle, and dispose of organisms.	EDU 3121 Science Methods			v		
K. A teacher of children in kindergarten through grade 6 must demonstrate knowledge of fundamental physical education and health concepts and the connections among them. The teacher must:							

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(1) understand the knowledge needed for providing learning experiences that encourage personal and community health promotion, disease prevention and safety, and proper nutritional choices;	HLTH 2100 Community Health and Wellness for Educators	EDU 3205 Community Health & Wellness for K-6 Educators		√	√	
	(2) understand strategies for reducing and preventing accidents; drug, alcohol, and tobacco use; and high-risk situations and relationships;	HLTH 2100 Community Health and Wellness for Educators	EDU 3205 Community Health & Wellness for K-6 Educators		√	√	
	(3) understand and apply movement concepts and principles to the learning and development of motor skills; and	EDU 3125 Physical Education Methods			√		

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(4) understand the knowledge needed for providing learning experiences that develop a health-enhancing level of physical fitness.	HLTH/EDU 2100 Community Health and Wellness for Educators	EDU 3125 Physical Education Methods		√	√	
L. A teacher of children in kindergarten through grade 6 must demonstrate knowledge of fundamental visual and performing arts, including music, dance, and theater, concepts and the connections among them. The teacher must:							
	(1) understand the basic structural elements, principles, and vocabulary of the visual and performing arts;	EDU 3124 Art Methods	EDU 3123 Music Methods for Elementary Teachers		√	√	

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	(2) be able to perform and create using the basic elements and processes of visual and performing arts;	EDU 3123 Music Methods for Teachers	EDU 3124 Art Methods		√	√	
	(3) know and apply within the elementary curriculum strategies for nurturing artistic modes of expression and thinking;	EDU 3123 Music Methods for Teachers	EDU 3124 Art Methods		√	√	
	(4) understand the role of visual and performing arts in culture; and	EDU 3123 Music Methods for Teachers	EDU 3124 Art Methods		√	√	
	(5) know the characteristics of children's developmental stages in the visual and performing arts.	EDU 3123 Music Methods for Teachers	EDU 3124 Art Methods		√	√	
Dyslexia							

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
Instruction on dyslexia must be modeled on practice standards of the International Dyslexia Association, and must address:							
	(1) the nature and symptoms of dyslexia;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II	EDU 3200 Children with Exceptionalities			
	(2) resources available for students who show characteristics of dyslexia;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II	EDU 3200 Children with Exceptionalities			
	(3) evidence-based instructional strategies for students who show characteristics of dyslexia, including the structured literacy approach;	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II	EDU 3200 Children with Exceptionalities			

8710.3200 Subject Matter		Name of "Course Listing" 1 or experience in Program	OPTIONAL Name of "Course Listing" 2 or experience in	OPTIONAL Name of "Course Listing" 3 or	Check listing 1 expeience 2023-2024	Check listing 2 for experie	Check listing 3 for experie
	4) outcomes of intervention and lack of intervention for students who show characteristics of dyslexia.	EDU 3100 Language Arts Methods I	EDU 3101 Language Arts Methods II	EDU 3200 Children with Exceptionalities			
Subp. 3a. Student teaching and field experiences. A candidate for licensure to teach elementary students in kindergarten through grade 6 must have a variety of field experiences which must include at least 100 school-based hours prior to student teaching that provide opportunities to apply and demonstrate competency of professional dispositions and the required skills and knowledge under this part and part 8710.2000.							