

## Section I Matrix for Early Childhood Generalist Endorsement Program Submission

<p style="text-align: center;"><b>Course Titles and # of Semester Hours</b></p>	<p style="text-align: center;"><b>Description of Each Course</b></p>	<p style="text-align: center;"><b>Explanation of how the Course addresses the Ohio Academic Content Standards Grades 4-5 and pedagogy including child/adolescent development Grades 4-5</b></p>
<p><b>EDMC4479</b> <b>Teaching Mathematics and Science in Fourth and Fifth Grades (4)</b></p>	<p>An exploration of the practices and problems involved in teaching mathematics and science to fourth and fifth grade students reflective of the National Middle School Association (NMSA) and Ohio Academic Content Standards. The course involves a study of the appropriate methods including teaming and co teaching needed to create an active learning environment that engages a diverse population of students. Problem solving, inquiry-based teaching and learning, cooperative learning and the use of technology, the nature of science and scientific instruction and diagnostic techniques as they apply the fourth and fifth grade setting. Special emphasis is given to safety in the science classroom and laboratory. Candidates apply the knowledge and skills obtained from this course in a planned sequence of professional field experiences with young adolescents in a fourth and fifth grade setting under</p>	<ul style="list-style-type: none"> <li>• Students will explore the development of scientific literacy and what it means for a population to be scientifically literate.</li> <li>• Students will explore science in relationship to Ohio Content Standards for the fourth and fifth grade learners.</li> <li>• Students will explore mathematics in relationship to Ohio Content Standards for the fourth and fifth grade learners. Course work will explore geometry, spatial sense, and measurement of three dimensional objects.</li> <li>• Safety consciousness in classroom activities and science explorations will be a focus of the course. Evaluation of safety equipment in the classroom, safe procedures and practices, as well as student safety will be</li> </ul>

	<p>the supervision of qualified university and school-based facility.</p>	<p>explored.</p> <ul style="list-style-type: none"><li>• Class participants will explore and practice a variety of methods for delivering science and math instruction in classroom and laboratory settings. Participants will develop an integrated unit that will be taught in the field experience and will learn the various ways of developing and expressing lesson plans.</li><li>• Class members will be exposed to and explore the latest in technology applications and will be expected to implement, as much as possible, these technologies in their field placements.</li><li>• Class participants will learn multiple instructional methods and strategies to be used in the language arts and social studies classroom and will be expected to practice them in their field placement classes and to reflect on and discuss their impact on student learning.</li><li>• Class participants will learn multiple methods of assessing student learning in the language arts and social studies classroom. Class participants</li></ul>
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		will be expected to practice them in the field placement classes and reflect on and discuss their impact on student learning.
<b>EDMC4477</b> <b>Physical and Cognitive Development of the Fourth and Fifth Grade Learner (2)</b>	The course explores the various components involved in understanding the physical and cognitive development of children in fourth and fifth grade. The course involves a study of the appropriate methods required in creating an educational environment that is nurturing, stimulating, and welcoming for all children. Discussions around developmentally appropriate practice ensure that students understand the physical, social, emotional, cognitive, and language needs of the fourth and fifth grade learner. Students gain an understanding of these needs through a study of major learning and childhood development theories.	<ul style="list-style-type: none"> <li>• Students will explore physical, environmental, social and emotional development of fourth and fifth grade learners.</li> <li>• Students will explore the impact of physical, environmental, social and emotional factors on the learning and teaching of fourth and fifth grade learners.</li> <li>• Class participants will explore and practice a variety of methods that are developmentally appropriate in classroom settings.</li> <li>• Participants will develop a case study from field experience and will learn the various ways of understanding and addressing the needs of the fourth and fifth grade learner.</li> </ul>
<b>EDMC4478</b> <b>Teaching Language Arts and Social Studies in Fourth and Fifth Grades (4)</b>	Examines various components involved in developing and implementing an effective language arts and social studies program for the fourth and fifth grader student. Students learn and apply teaching	<ul style="list-style-type: none"> <li>• Students will explore Language Arts and Social Studies in relationship to Ohio Content Standards for fourth and fifth grade learners. Course work</li> </ul>

	<p>methods, instructional strategies, technology, and techniques relevant to the fourth and fifth grade learner. The course involves a study of the appropriate methods including teaming and co teaching needed to create an active learning environment that engages a diverse population of students. All activities and planning is in accordance with the National Middle School Association (NMSA) and the Ohio Academic Content Standards for Language Arts and Social Studies. Candidates apply knowledge and skills obtained from this course in planned sequence of professional field experiences with young adolescents in fourth and fifth grade school setting under the supervision of qualified university and school-based facility.</p>	<p>will emphasis the study of Ohio social studies, writing, and reading aligned with the benchmarks and indicators for fourth and fifth grade learners in the Ohio Content Standards.</p> <ul style="list-style-type: none"><li>• Class participants will explore and practice a variety of methods for delivering language arts and social studies instruction in classroom settings. Participants will develop an integrated unit that will be taught in the field experience and will learn the various ways of developing and expressing lesson plans.</li><li>• Class members will be exposed to and explore the latest in technology applications and will be expected to implement, as much as possible, these technologies in their field placements.</li><li>• Class participants will demonstrate an understanding the national and state standards in language arts and social studies by developing and implementing lesson plans aligned with the Ohio Content Standards.</li><li>• Class participants will learn</li></ul>
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		<p>multiple instructional methods and strategies to be used in the language arts and social studies classroom and will be expected to practice them in their field placement classes and to reflect on and discuss their impact on student learning.</p> <ul style="list-style-type: none"><li>• Class participants will learn multiple methods of assessing student learning in the language arts and social studies classroom. Class participants will be expected to practice them in the field placement classes and reflect on and discuss their impact on student learning.</li></ul>
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