EDCH 502 Emergent Literacy 3 Credits
This introductory course focuses on the importance of literacy and the teaching skills needed to become a proficient teacher of reading. Meeting the needs of diverse learners (diverse in interest, needs, ability, etc.) with appropriate materials, activities and instructional approaches will be an ongoing discussion woven through the course content. All language processes will be addressed with an appreciation that they are interrelated and support each other. Students will create materials for reading instruction that reflect knowledge of 'best practice' as concluded from research and described in course readings.

EDCH 509 Literacy and the Arts in the Elementary Classroom 3 Credits
Strategies for effective literacy instruction with diverse populations of students will be examined for efficacy. These strategies include research-based approaches with demonstrated success for use with students with disabilities, English Language Learners, Gifted and Talented students and any other students with identified special and/or unique educational needs. Students will examine the qualities that make a successful match with students’ needs in the areas of reading, writing, speaking and listening, as well as how to incorporate differentiated instruction based on those needs in a classroom context. Multicultural literature and literature that deals with specific disabilities will be examined for applications in the curriculum. 30 hours of field experience are required.

EDCH 515 Assessment for Instruction 3 Credits
An in-depth study of formal and informal assessment strategies. Utilization of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 540 Childhood Learning and Development 3 Credits
The application to classroom practice of the principles of effective learning and the role of motivation and a consideration of motivation and self-worth will be studied. Candidates will critically review basic brain and nerve structure and function as it applies to learning and teaching. Attention will be directed toward the constructs of intelligence, creativity, meta-cognition, transfer of learning and learning styles. Specific theories including those of Skinner, Piaget, Vygotsky and Covington will be analyzed and critiqued. Classroom management options will be considered.

EDCH 543 Elementary Mathematics Instruction 3 Credits
Methods and strategies for developing children’s knowledge and skills in number systems, early geometry, arithmetical operations, fractions and decimals, probability and statistics will be examined. Candidates will develop proficiency in the use of instructional and informational technologies to support mathematics. Instruction will be aligned with Common Core Learning Standards. Assessment practices and research regarding mathematics knowledge and skill development will be integrated with teaching methodology.

EDCH 545 Elementary Science Instruction 3 Credits
Methods and strategies for developing children’s knowledge and understanding of earth/space science, physical science and the life sciences will be addressed. Candidates will develop proficiency in the use of instructional and informational technologies and hands on activities to support science learning. Instruction will be aligned with the New York State Mathematics, Science and Technology Standards. Application of research in education and formative and summative assessment practices will be stressed.

EDCH 546 Elementary Social Studies Instruction 3 Credits
An in-depth consideration of ethnic, economic, and racial cultures found in elementary schools will share the focus of this course with instructional methods and strategies necessary for effective instruction in the areas of geography, history, anthropology and economics. Use of technology and New York State Learning Standards will be considered as they pertain to cultural diversity and social studies instruction. The role of family, peer and parental involvement in society and the culture of schooling will be studied.

EDCH 547 Elementary Mathematics Methods and Materials 3 Credits
This course will focus on the instruction needed to implement the New York State Learning Standards in Elementary Mathematics. Attention will be given to the integration of technology and hands-on activities to support mathematics instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 548 Elementary Social Studies Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Elementary Social Studies. Attention will be given to the integration of technology and hands-on activities to support social studies instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 550 Childhood Learning and Development 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Childhood Learning and Development. Attention will be given to the integration of technology and hands-on activities to support developmental, physical, social and emotional development of elementary-aged students. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 551 Social Studies Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Social Studies. Attention will be given to the integration of technology and hands-on activities to support social studies instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 552 Science Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Science. Attention will be given to the integration of technology and hands-on activities to support science instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 553 Mathematics Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Mathematics. Attention will be given to the integration of technology and hands-on activities to support mathematics instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 554 Literacy Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Literacy. Attention will be given to the integration of technology and hands-on activities to support literacy instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 555 Social and Cultural Studies Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Social and Cultural Studies. Attention will be given to the integration of technology and hands-on activities to support social and cultural studies instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 556 Science, Technology and Society Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Science, Technology and Society. Attention will be given to the integration of technology and hands-on activities to support science, technology and society instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 557 Mathematics, Science and Technology Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Mathematics, Science and Technology. Attention will be given to the integration of technology and hands-on activities to support mathematics, science and technology instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 558 Social and Cultural Studies, Science and Technology Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Social and Cultural Studies, Science and Technology. Attention will be given to the integration of technology and hands-on activities to support social and cultural studies, science and technology instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 559 Science, Technology and Society, Social and Cultural Studies Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Science, Technology and Society, Social and Cultural Studies. Attention will be given to the integration of technology and hands-on activities to support science, technology and society, social and cultural studies instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 560 Mathematics, Science and Technology, Social and Cultural Studies Methods and Materials 3 Credits
This course focuses on the instruction needed to implement the New York State Learning Standards in Mathematics, Science and Technology, Social and Cultural Studies. Attention will be given to the integration of technology and hands-on activities to support mathematics, science and technology, social and cultural studies instruction. Methods of assessment for planning, evaluation and instructional program improvement to provide continuous intellectual, social, emotional and physical development of elementary-aged students will be studied. Candidates will become familiar with norm referenced, criterion-referenced and performance instruments.

EDCH 561 Action Research in Education 3 Credits
The purpose of this course is to enable teacher candidates to develop an understanding of the action research process that will inform and transform their classroom practice. The focus of the course will encompass those skills necessary for examining one's own practice to make informed data driven decisions. Candidates will engage in an action research project related to an area of interest in their own teaching. They will examine the problem by critically analyzing current literature in the field to formulate a research question. The course develops skills and engage candidates all phases of the research process from project inception to the presentation of findings. In addition, students will learn how to critically analyze research studies, discuss ethical considerations in conducting research, and understand the importance of scientific research for educational policy and practice.