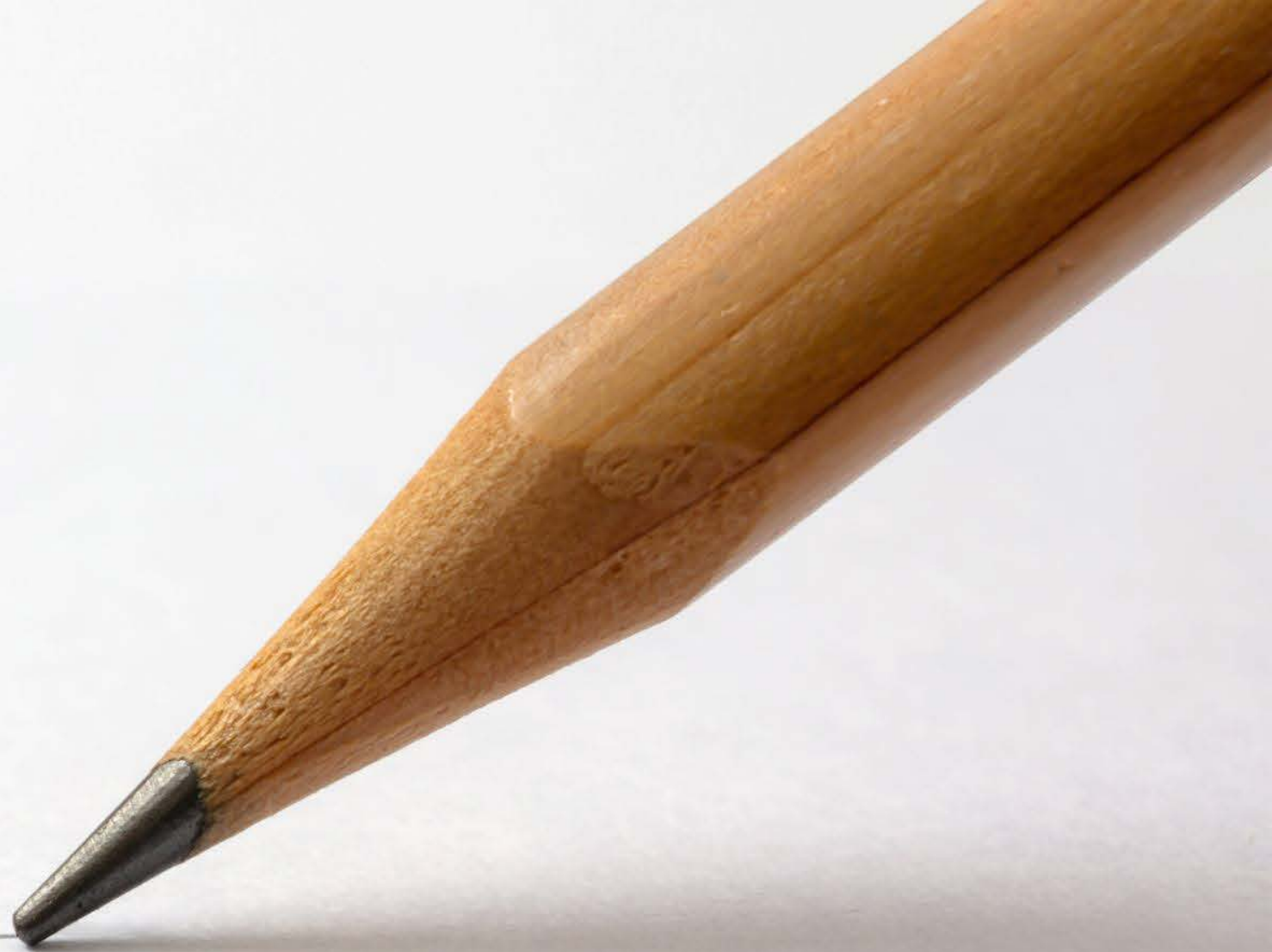


SUNY Broome

Teacher Education
and Early Childhood
Education
Department

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New York State Teacher Certification

Education Pathway:

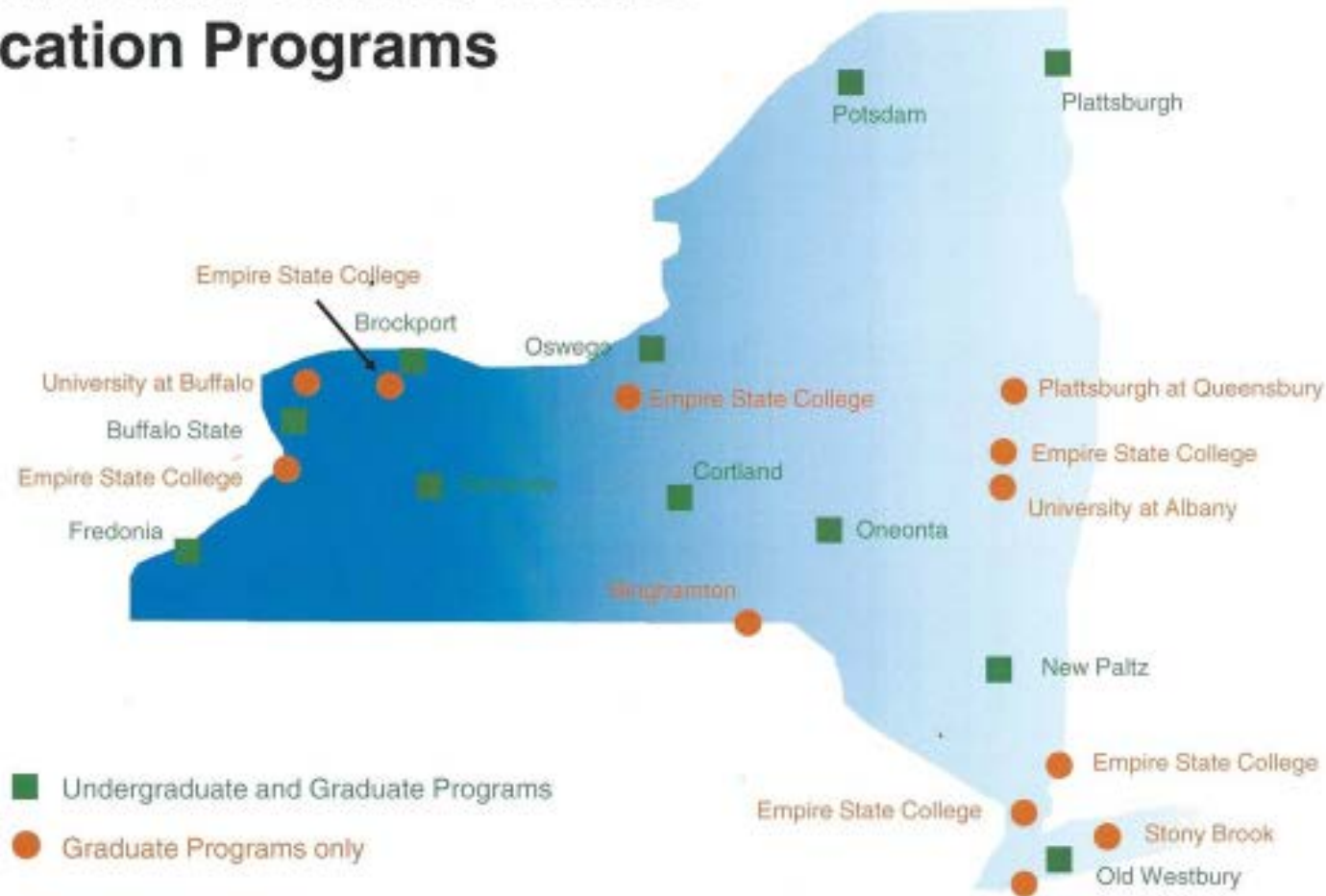
- Associates Degree
- Bachelors Degree
 - State Certification (Initial)
- Masters Degree in Education
 - State Certification (Initial/Professional)
- Ongoing Professional Development (PD)
 - 175 documented hours every 5 years = 35 PD hours per year
 - NYS teachers use a TEACH account to document PD hours

New York State Teacher Colleges

There are 131 colleges and universities with teacher degree programs in NYS.

- ❑ 23 colleges and universities offer an Associates degree in education.
- ❑ 81 colleges and universities offer a Bachelors degree in education.
- ❑ 87 colleges and universities offer a Masters or advanced degree in education.

SUNY Colleges and Universities with Teacher and School Leader Education Programs



Associates in Science (A.S.) Degree in Liberal Arts - General Education (60-64 credits)

- This degree is often pursued by students interested in transferring to a four-year institution.
- The courses can be customized based on the student's area of interest for certification and intended transfer school.

Associates in Science (A.S.) Degree in Liberal Arts - General Education (60-64 credits)

There are various learning modalities:

- Face-to-Face (Day or Evening)
- Online (Blackboard Learning Management System)
- Blended (Scheduled Class Meetings and Online Coursework)

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

List of General Education (GE) courses students
take if they are intending to transfer to SUNY

Cortland:

- GE 1: Mathematics (6 credits)
 - MAT 119 – Mathematics for Elementary Education I
 - MAT 120 – Mathematics for Elementary Education II

MAT 119 – Mathematics for Elementary Education I

An exploration of order of operations, fractions, equations of a single variable, graphing lines; visual display of data using charts and graphs, descriptive statistics, data analysis, hypothesis testing; area and perimeter of plane figures, volume and surface area of solids.

Students are expected to explain the material as though to a target audience. Course uses a project-based instruction methodology.

MAT 120 – Mathematics for Elementary Education II

Simple probability, odds, expected value; patterns, symmetry, tilings, sequences, and pattern block manipulation; functions of one or more variables with graphs and applications; right triangle trigonometry; sine, logarithmic, exponential, quadratic and logistic curves.

Students are expected to explain the material as though to a target audience. Course uses a project-based instruction methodology.

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

List of General Education (GE) courses students
take if they are intending to transfer to SUNY

Cortland:

- GE 2: Natural Science (8 credits)
 - PHS 112 – Interactions – Natural World
 - PHS 117 – Exploring Everyday Phenomena

PHS 112 – Interactions – Natural World

Explore the relationships between living organisms and their physical environment in this activity-based course. Study Earth's atmosphere and seasons and explore the resulting adaptations of living things, for example through photosynthesis and respiration. Investigate rocks and minerals as the building blocks of the solid Earth and cells as the basic unit of life. Biologic and earth science concepts are integrated to show the prehistoric and modern interactions among Earth's atmosphere, its rocks and minerals and its life. Students are expected to become personally involved with in-class and at-home activities and projects. Learning is accomplished by experimentation and discussion within cooperative groups; the laboratory becomes the classroom.

PHS 117 – Exploring Everyday Phenomena

This course uses activities that engage the students in hands-on learning of common physical concepts by experimentation. The course will improve students' perspectives and comfort with science while promoting scientific literacy. There will be no distinction between lab and lecture since the activities are an integral part of the teaching and learning process in the course. The methods and ideas of the course will usually be based on the use of commonly available materials. Group-based activities include observations and measurements, solids, liquids, gases, heat, simple machines, magnets, static electricity and electrical devices.

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

List of General Education (GE) courses students
take if they are intending to transfer to SUNY

Cortland:

- GE 3: Social Sciences (EX: SOC 110 – Introduction to Sociology) (3 credits)

SUNY Broome Community College General Education Course Offerings Listing

General Education Category Number	General Education Knowledge & Skill Area	Courses
1	Mathematics	BUS 115, CAS 109/MAT 109, MAT 115, MAT 117, MAT 118, MAT 119, MAT 120, MAT 124, MAT 127, MAT 130, MAT 136, MAT 146, MAT 156, MAT 160, MAT 181, MAT 182, MAT 224, MAT 245, MAT 250, MAT 260, MAT 264, MAT 266, MAT 281, MAT 282 <i>For Elem. Education transfers only: MAT 119 and MAT 120 in any order. A grade of 85 or higher on the Algebra 2 Regents exam or successful completion of a pre-calculus or higher high school course meets SUNY Gen Ed and SUNY Broome requirements for most programs.</i>
2	Natural Sciences	ANT 112, ANT 113, ART/CHM 129, AST 113, ATM 114, BHM/CHM 127, BIO 111, BIO 112, BIO 117, BIO 118, BIO 122, BIO 131, BIO 132, BIO 140, BIO 150, BIO 200, BIO/ENV 212, BIO/CLT 216, BIO 217, CHM 120, CHM 121, CHM 123, CHM 124, CHM 125, CHM 126, CHM 133, CHM 141, CHM 142, CHM 145, CHM 146, CHM 245, CHM 246, CHM 247, CHM 265, CHM 290, CLT 206, CLT 208, CLT 209 I, CLT 210, CLT 216, CLT 240, CLT 242, EAS 123, EAS 210, GLG 111, GLG 115, GLG 125, OCE 226, PHS 112, PHS 116, PHS 117, PHY 118, PHY 161, PHY 162, PHY 181, PHY 182, PHY 281
3	Social Sciences	ANT 111, ANT/SOC 200, BUS/POS 116, BUS 215, CRJ 245, ECO 110, ECO 111, GEO 120, POS 111, POS 201, POS 203, POS 204, POS 205, PSY 110, PSY 210, PSY 211, PSY 212, PSY 214, PSY 217, PSY 223, PSY 227, PSY 240, PSY 255, SOC 110, SOC 111, SOC 186, SOC 220, SOC 250, SOS 155, SOS/HOS 186
4	American History	HIS 130, HIS 131, HIS 175, HIS 183, HIS 187, HIS 188, HIS 189, HIS 194
5	Western Civilization	HIS 103, HIS 104, HIS 155, HUM 101, HUM 102
6	Other World Civilizations	HIS 116, HIS 117, HIS 141, HIS 163, HIS 164
7	Humanities	ART 102, ART 103, ART 104, ART 108, ART 110, ART 146, COM 145, COM 200, ENG 220, HUM 101, HUM 102, HUM 104, LIT 200, LIT 201, LIT 210, LIT 211, LIT 214, LIT 215, LIT 220, LIT 225, LIT 230, LIT 233, LIT 235, LIT 240, LIT 250, LIT 253, LIT 260, LIT 263, LIT 264, LIT 270, LIT 272, LIT 274, LIT 276, LIT 277, LIT 280, LIT 285, LIT 290, LIT 291, LIT 294, LIT 295, LIT 297, LIT 298, MUS 101, MUS 104, MUS 108, MUS 109, MUS 111, MUS 112, MUS 113, MUS 114, PHI 102, PHI 201, PHI 203, PHI 206, THR 102, THR 221
8	The Arts	ART 102, ART 103, ART 104, ART 105, ART 106, ART 108, ART 109, ART 110, ART 111, ART/COM 112, ART 113, ART 115, ART 116, ART 118, ART 119, ART 125/COM 124, ART 145, ART 146, ART 222, ART 226, ART 228, COM 145, COM 200, COM 205, COM 215, ART/COM 222, ART/COM 226, ART/ECE 145, ENG 170, ENG 175, MUS 101, MUS 104, MUS 105, MUS 106, MUS 107, MUS 108, MUS 109, MUS 111, MUS 112, MUS 113, MUS 185, THR 101, THR 102, THR 111, THR 112, THR 114, THR 117, THR 151, THR 152, THR 161
9	Foreign Language	ARA 101, ARA 102, ASL 120, ASL 220, FRE 101, FRE 102, FRE 201, FRE 202, GER 101, GER 102, ITA 101, ITA 102, SPA 101, SPA 102, SPA 201, SPA 202 <i>Four years of one foreign language in high school or grade 85 or higher on a Regents Foreign Language III exam meets the SUNY Gen. Ed. and SUNY Broome requirement (except Education major transfers). Foreign Language requirement varies by program. Consult an advisor and transfer institution.</i>
10	Basic Communication	ENG 107, ENG 108, ENG 110, ENG 111, ENG 150, SPK 110 <i>Students who earned a grade of 85 or higher on the Regents English exam or performed at a certain level on the College placement exam enroll directly into ENG 111. ENG 107 replaces ENG 110. ENG 108 replaces ENG 111 for the purpose of fulfilling program requirements.</i>

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

GE 4: American History (3 credits)

Choose One:

HIS 130 – United States History I

HIS 131 – United States History II

GE 5 or 6: Western Civilization (3 credits)

Choose One:

HIS 115 – West and the World to 1500

HIS 116 – West and the World since 1500

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

- GE 7: Humanities (6 credits)
 - Humanities, Literature or Philosophy course
 - ENG 220 – Communicating About Ideas and Values

- GE 8: The Arts (3 credits)

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

- ❑ GE 9: Foreign Language (6-8 credits)
 - ❑ Arabic, American Sign Language, French, German, Italian, or Spanish

- ❑ GE 10: Basic Communication (6 credits)
 - ❑ ENG 110 – College Writing I
 - ❑ ENG 111 – College Writing II

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

Early Childhood Education courses students take if they are intending to transfer to SUNY Cortland:

- ECE 110 – Introduction to Early Education (3 credits)
- ECE 190 – Working with Infants, Toddlers and the Family (3 credits)
- ECE 120 – Curriculum Development (3 credits)
- ECE 210 – Children with Special Needs (3 credits)

ECE 110 – Introduction to Early Education

This course is an introduction to early childhood and elementary school education. ECE 110 will provide an overview of professionalism, child development, learning theories with a historical perspective, family involvement, contemporary issues in education, and career options within the field of education. Students will also explore the definition and concept of developmentally appropriate practice for young children (infants through eight years old).

Eight hours of field observation and four hours of community service experiences are required.

ECE 190 – Working with Infants, Toddlers and the Family

This course is on the developmental milestones of children under three years old. Students will learn how to plan individualized activities and preparing quality environments. Appropriate practices in childcare centers and family day care homes will be examined with an emphasis on producing positive partnerships between families and early childhood educators to ensure that infants and toddlers receive high-caliber, consistent care-giving and education.

Twenty-five hours of child observation and additional hours of Service-Learning experiences are required.

ECE 120 – Curriculum Development

This course concentrates on developing curriculum for young children (infants through eight years old). Methods and materials for planning developmentally appropriate activities will be explored. Literacy, mathematics, science, social studies, the arts, technology, health and safety topics will be addressed. Students will create and practice lessons in local early childhood settings. Other course topics include: creating anti-bias environments; the mechanics of lesson planning; positive child guidance; differentiated instruction; assessment and; the value of self-reflection for professional growth.

Sixty hours of field and additional hours of Service-Learning experiences are required.

ECE 210 – Children with Special Needs

This course provides an overview in recognizing, understanding and supporting children with special needs in early childhood settings. Students will learn about common developmental delays and the various physical, cognitive and emotional diagnoses that are used to classify a child as having special needs. Students will also become familiar with special education terminology, federal laws, referral agencies, the referral process, evaluation instruments and methods, the role of various specialists in special education, individual family service plans (IFSPs), individual education programs (IEPs), teacher accountability as well as how to work with families of children with special needs.

Ten to fifteen hours of child observation required.

Associates in Science (A.S.) Degree in Liberal Arts - General Education (Early Childhood/Childhood) (Birth through Grade 6)

Psychology courses students take if they are
intending to transfer to SUNY Cortland:

- PSY 110 – Introduction to Psychology (3 credits)
- PSY 211 – Child Development (3 credits)

** Students will also need to take 1 credit of Physical Education with a Cardiovascular (CV) emphasis.*

Associates in Science (A.S.) Degree in Liberal Arts - General Education

Other Certifications:

- Childhood (Grades 1-6)
- Middle Childhood (Grades 5-8)
- Adolescent (Grades 7-12)
- Physical Education, Art or Music (K-12)
- Special Education (Grades 1-6 or Grades 7-12)

Core Education course:

- EDU 111 – Foundations of American Education (3 credits)

EDU 111 – Foundations of American Education

This course is an introduction to the profession of teaching. The social, economic, and political history of American education will be explored. Contemporary goals, practices, and issues will also be investigated. Specific topics include: diversity; special education; child/adolescent development; legal issues; ethics; professionalism; curriculum; philosophy; learning theories and pedagogy.

Thirty hours of field and additional hours of Service-Learning experiences are required.

Associates in Science (A.S.) Degree in Liberal Arts - General Education

- ❑ Grades 7-12 certification candidates will take PSY 212 – Adolescent Psychology *instead of* PSY 211 – Child Development
- ❑ Approximately 3 Electives in content area of choice are recommended to meet degree requirements.