

16. Educational Technology Specialist (all grades)

Content Core

The program shall include a requirement that the candidate complete study in the subject(s) to be taught which shall prepare candidates with the knowledge base to teach the subject(s) and shall prepare candidates for refining and expanding that knowledge base.

For leading to an initial certificate valid for service as an education technology specialist, the content core shall be a major or its equivalent in educational technology that prepares candidates with the knowledge, understanding, and skills for using various types of technology for teaching to the State learning standards for students, as set forth in Part 100 of this Title, and for instructing other school staff and students in using technology for teaching and learning.

General requirements

The program shall include the following:

- (i) human developmental processes and variations, including but not limited to: the impact of culture, heritage, socioeconomic level, personal health and safety, nutrition, past or present abusive or dangerous environment, and factors in the home, school, and community on students' readiness to learn -- and skill in applying that understanding to create a safe and nurturing learning environment that is free of alcohol, tobacco, and other drugs and that fosters the health and learning of all students, and the development of a sense of community and respect for one another;
- (ii) learning processes, motivation, communication, and classroom management -- and skill in applying those understandings to stimulate and sustain student interest, cooperation, and achievement to each student's highest level of learning in preparation for productive work, citizenship in a democracy, and continuing growth;
- (iii) means for understanding the needs of students with disabilities, including at least three semester hours of study for teachers to develop the skills necessary to provide instruction that will promote the participation and progress of students with disabilities in the general education curriculum. The three semester hour requirement shall include study in at least the following areas: the categories of disabilities; identification and remediation of disabilities; the special education process and state and federal special education laws and regulations; effective practices for planning and designing co-teaching and collaboration with peers; individualizing instruction; and applying positive behavioral supports and interventions to address student and classroom management needs. When such requirements cannot be completed in three semester hours, the remaining study requirements may be included in other courses. This three semester hour requirement may be waived at the discretion of the commissioner, upon a showing that the program provides adequate instruction to prepare candidates on understanding the needs of students with disabilities through other means;
- (iv) language acquisition and literacy development by native English speakers and students who are English language learners -- and skill in developing the listening, speaking, reading, and writing skills of all students;
- (v) curriculum development, instructional planning, and multiple research-validated instructional strategies for teaching students within the full range of abilities -- and skill in designing and offering differentiated instruction that enhances the learning of all students in the content area(s) of the certificate;
- (vi) uses of technology, including instructional and assistive technology, in teaching and learning -- and skill in using technology and teaching students to use technology to acquire information, communicate, and enhance learning;
- (vii) formal and informal methods of assessing student learning and the means of analyzing one's own teaching practice -- and skill in using information gathered through assessment and analysis to plan or modify instruction, and skill in using various resources to enhance teaching;
- (viii) history, philosophy, and role of education, the rights and responsibilities of teachers and other professional staff, students, parents, community members, school administrators, and others with regard

to education, and the importance of productive relationships and interactions among the school, home, and community for enhancing student learning -- and skill in fostering effective relationships and interactions to support student growth and learning, including skill in resolving conflicts;

(ix) means to update knowledge and skills in the subject(s) taught and in pedagogy;

(x) means for identifying and reporting suspected child abuse and maltreatment, which shall include at least two clock hours of coursework or training regarding the identification and reporting of suspected child abuse or maltreatment, in accordance with the requirements of section 3004 of the Education Law;

(xi) means for instructing students for the purpose of preventing child abduction, in accordance with Education Law section 803-a; preventing alcohol, tobacco and other drug abuse, in accordance with Education Law section 804; providing safety education, in accordance with Education Law section 806; and providing instruction in fire and arson prevention, in accordance with Education Law section 808; and

(xii) means for the prevention of and intervention in school violence, in accordance with section 3004 of the Education Law. This study shall be composed of at least two clock hours of course work or training that includes, but is not limited to, study in the warning signs within a developmental and social context that relate to violence and other troubling behaviors in children; the statutes, regulations and policies relating to a safe nonviolent school climate; effective classroom management techniques and other academic supports that promote a nonviolent school climate and enhance learning; the integration of social and problem solving skill development for students within the regular curriculum; intervention techniques designed to address a school violence situation; and how to participate in an effective school/community referral process for students exhibiting violent behavior.

(xiii) means for the prevention of and intervention in harassment, bullying (including cyberbullying) and discrimination in accordance with section 14 of the Education Law. Such study shall include six clock hours, of which at least three hours must be conducted through face-to-face instruction, of course work or training on the social patterns of harassment, bullying and discrimination, as defined in section 11 of the Education Law, including but not limited to those acts based on a person's actual or perceived race, color, weight, national origin, ethnic group, religion, religious practice, disability, sexual orientation, gender or sex; the identification and mitigation of harassment, bullying and discrimination; and strategies for effectively addressing problems of exclusion, bias and aggression in educational settings.

Program-Specific Requirements

Coursework

The program shall include the following:

- (i) skill in collaborating with other professional staff to support instruction through educational technology that enhances the learning and independence of students with disabilities and special needs;
- (ii) skill in collaborating with other professional staff to support instruction through educational technology that enhances the listening, speaking, reading, and writing skills of all students; and
- (iii) skill in collaborating with other professional staff to support instruction through educational technology that enhances student learning in content areas and in the uses of instructional and assistive technology to acquire information and communicate.

Field experiences, student teaching and practica

- The program shall include at least 100 clock hours of field experiences in elementary and secondary schools and at least two college-supervised practica of at least 20 days each in elementary and secondary schools. At least 15 of the 100 clock hours of field experience shall include a focus on understanding the needs of students with disabilities.
- For candidates holding another classroom teaching certificate or for candidates who are simultaneously preparing for another classroom teaching certificate and completing the full field experience for that other certificate, the programs shall require such candidates to complete at least the equivalent of 50 hours of field experiences or practica in elementary and/or secondary schools.