

## GRADUATE PROGRAMS THROUGH THE TEACHER INSTITUTE OF LOWER WESTCHESTER (TILW)

ATTEND THE INFORMATIONAL/APPLICATION MEETING AT EASTCHESTER HIGH SCHOOL

on Thursday, November 3, 2016, at 3:30 pm, ROOM H207

BEGINNING, SPRING 2017!

### The Teaching 21st-Century Skills, Advanced Certificate is "hot off the press" as a pathway to the MSIT!

Participate in 15 credit, project-based curricula and instruction in the only New York State higher education program providing Intel® curriculum as graduate courses, with key elements and strategies for using 21st-century skills in the K-12 classroom. Our courses are designed to integrate concepts in math and science with web 2.0 and 3.0 tools for enhancing K-12 teaching and learning. You will apply technology to international, national and state learning standards for the diverse learners in classrooms today. Upon completion of your coursework, you'll have a global perspective for enhancing learning, communication, and collaboration with technology.

### Master of Science in Instructional Technology

#### About the Program

The master's program in Instructional Technology is newly revised to be a 33-credit program for developing educators' expertise to serve as a technology coach, defined by the International Society for Technology in Education (ISTE) as a professional who helps educators advance technology use in schools. Technology coaches support classroom practice and instructional change through the use of leading-edge media and technology for teaching and learning. They work closely with teachers and administrators to develop uses of technology for digital age, global learning. As part of NYIT, a global university, the mission of the Master of Science in Instructional Technology is to develop educators' expertise in used of digital age technologies and practices for teaching and learning. Graduates of the program will be prepared to be educational technology leaders in a diverse global society.

Graduates of the program are experts in implementing technology as master teacher in their own P-12 classrooms, and are able to assist other educators to develop a vision for understanding how Instructional Technology can entice, encourage, enable, and empower learners. They may also serve as technology coordinators, content area coordinators, media specialists, literacy coaches, or instructional lead teachers who coach others in achieving the vision for the potential effects of technology on teaching and learning. Building on theories of learning, motivation, and curriculum design, teachers then learn to apply newly developed technology skills to the Core Curriculum. The program includes a practicum and seminar to meet the NYSED field experience requirements for certification. Candidates will develop an e-portfolio to provide evidence their impact on student learning and demonstrate ISTE standards for Instructional Technology Coaches as described.

#### Why Instructional Technology

Instructional technology is a growing profession that is a vital part of both business and education. Educational technology specialists teach computer and multimedia technologies-including interactive video, the Internet, productivity tools, and curriculum development-to classroom teachers and administrators in public and private schools.

As digital innovations continue to develop at a fast pace, so will the demand for instructional technology professionals. Your NYIT degree as an Educational Technology Specialist will prepare you to integrate instructional technology in your own classroom, share your vision for technology with others as a leader and model for best practices for using technology in your school or district.

#### What the Program Offers

- A 33-credit Master of Science degree in Instructional Technology
- Eligibility for New York State certification as an Educational Technology Specialist
- Opportunity to teach and model technology for best teaching, learning and assessment practices
- Ways to develop visionary leadership in applying educational technology and global learning
- Experience with tools for problem solving and communication in the P-12 Core Curriculum
- Opportunity for completing programs online

# Advanced Diploma in School Leadership & Technology

## About the Program

NYIT's School Leadership and Technology program prepares educators to excel in demanding positions such as program director, curriculum coordinator, technology coordinator, assistant principal and school principal. It is the only educational leadership program in New York State to include all the requirements for certification as both a School Building Leader (SBL) and Educational Technology Specialist (ETS).

The Advanced Diploma program focuses on the specific knowledge and skills candidates need to make a positive and profound impact on 21st century schools. A substantive study of data-driven decision-making, leadership, change, organizations, and site-based management empowers candidates to create solutions to the complex challenges they will confront during their careers. Integral to these leadership and administrative strengths, the program builds candidates' knowledge and understanding of successful instruction and standards-based curricula. The rapid advances in hardware and software for communications, learning and administration demand a high level of professional knowledge and judgment in identifying, using, and evaluating educational technologies. Therefore, each program component is technology-infused to develop candidates' technical skills as well as analytic and administrative acumen. Given the pressing need for technology expertise in school leaders, School Leadership and Technology graduates enter the competitive market for leadership positions with a significant advantage over those who do not possess these credentials.

## What the Program Offers

- A 33-credit Advanced Diploma in School Leadership and Technology
- Eligibility for NYS certification as a School Building Leader and Educational Technology Specialist
- Convenient class schedules and completion of the degree in two years or less
- Immersion in leading-edge technologies that enable instruction and school administration
- A supportive cohort environment
- A coherent framework for leadership problem-solving and data-driven curriculum
- A faculty that "walks its talk" about leadership, organizational dynamics and technology
- Experiences needed for developing successful schools
- Instructional and curricular expertise to empower diverse students and faculty

## Science, Technology, Engineering and Mathematics for Educators

### About the Certificate

NYIT's Advanced Certificate in Science, Technology, Engineering and Mathematics (STEM) for Educators prepares professional educators in pedagogy for integrated inquiry-based teaching and learning. Candidates who participate in this program are practicing teachers who have the desire to improve their skills and expertise to become better prepared for teaching STEM content and applications in K-12 schools. Their increased competencies will be instrumental in enhancing the education of K-12 students to attract them to careers in STEM-related fields. The program is an interdisciplinary approach to STEM education between faculty in the NYIT School of Education Instructional Technology Program and the NYIT School of Engineering and Computing Sciences faculty.

The content of the STEM Advanced Certificate is aligned with NYS standards differentiated for appropriate grade level to meet diverse K-12 student learning needs. Inquiry-based, project-based instruction relates to the effects and issues requisite to developing knowledgeable citizens and consumers of STEM innovations, inventions, and applications. Assessments will determine the increase in STEM knowledge and skill for applying the concepts learned. The technology content includes use of digital resources and tools for enhancing teaching and learning science, engineering and mathematics, such as probeware, simulations, GPS applications, and tools for research and data collection instruments. Engineering concepts include STEM content and instructional resources for designing authentic solutions to real-life problems. The scope and sequence of concepts introduced in the STEM certificate increase in complexity as students proceed through the K-12 system in preparation for college and careers in STEM-related fields.

### What the Program Offers

- An 18-credit Advanced Certificate in Science, Technology, Engineering & Mathematics for Educators
- Authentic STEM applications and active project-based learning pedagogical approaches
- Immersion in innovative technologies for teaching and learning STEM in K-12 classrooms
- Instructional and curricular expertise to prepare K-12 student for careers in STEM fields
- A framework for STEM developed in collaboration with School of Education & School of Engineering.

**ALL COURSES WILL BE OFFERED at EASTCHESTER HIGH SCHOOL**

**Dr. Kambar, TILW Director. Contact me: [tilwdirector@gmail.com](mailto:tilwdirector@gmail.com)**

**\*\*Fully online tuition is \$1,675 per 3 credit course, and a cohort through the NYIT - SOISE partnership with NYS Teacher Centers, tuition is \$1,280 per 3 credit course for TILW members and \$1,350 per 3 credit course for non-TILW members.**