School of Education

The School of Education offers Pennsylvania Department of Education-approved programs to certify students who want to become teachers. Undergraduate students have the option to choose from a variety of traditional full-time and non-traditional part-time on-campus and online programs. These programs are designed to meet the needs of a variety of diverse learners who wish to pursue a bachelor’s degree and Pennsylvania State Certification in elementary (grades Prek-4), middle level (grades 4-8) and/or secondary (grades 7-9).

School of Education undergraduate students have the option to choose from the following program options: BS on-campus (full or part-time) taking day or evening courses, or the part-time Online BS Degree completion program. In addition, any Drexel non-education undergraduate student who is interested in becoming a teacher has the option to enroll in either the BS/MS or BA/MS Dual Degree programs (4 or 5 year options) regardless of their major.

The School of Education (http://www.drexel.edu/soe) seeks to enrich knowledge and practice related to lifespan learning, based on the most current and appropriate research and practice. Our goal is to improve human understanding through programs and activities that emphasize creative uses of human effort, technology, leadership, and problem solving.

Majors

• Elementary Education
  • PK-4
  • PK-4 Special Education
  • Middle Level Math and English
  • Middle Level Science and Math
  • Middle Level Science and English

• Teacher Education
  • Biology
  • Chemistry
  • Earth and Space Science
  • English
  • Environmental Education
  • General Science
  • Mathematics
  • Physics
  • Social Studies

Minor

• Education

Certificates

• Creativity and Innovation

About the Curriculum

The School of Education’s programs apply the most updated trends in theory, instruction, and leadership, with an emphasis on effective teaching integrating the sciences, enhancing teaching by using technology, two central components of every Drexel Education. In addition, this is the only such program in the country to incorporate a six-month paid internship in industry related to the student’s area of certification or individual interest.

Certification for classroom instruction is organized according to the two majors, the BS in Elementary Education and the BS in Secondary Education. Below is a list of all certification areas currently offered by the School of Education.

• Elementary education
  • Elementary: PK-4
  • Elementary: PK-4 and Special Education
  • Middle Level Math and English
  • Middle Level Science and English
  • Middle Level Science and Math

• Secondary education (grades 7-12)
  • Biology
  • Chemistry
  • Earth and Space Science
  • English
  • General Science
  • Mathematics
  • Physics
  • Social Studies
  • Environmental Education (grades K-12)

Students may acquire certification in more than one subject area.

The School of Education uses university-wide resources to prepare fully qualified teachers at both the elementary and secondary levels. The Teacher Education Program at Drexel University is closely aligned with National INTASC Teaching Standards as well as the Pennsylvania Department of Education’s Four Domains for Professional Teaching. In addition, the Teacher Ed Program has identified seven Program Outcomes, which identify the specific qualities that set the Drexel Teacher Candidate apart from other candidates in the field. These program outcomes are directly aligned with the Drexel University Student Learning Priorities (DSLP). It is expected that students exiting the Teacher Education Program at Drexel University will exhibit these seven standards in his/her professional teaching practice.

Program Outcomes:

1. The teacher candidate demonstrates independent and creative academic leadership skills that can be applied in the classroom, school community and the profession.

2. The teacher candidate understands the changing role of the educator in an increasingly diverse society, and applies this understanding in the classroom, school community and profession.

3. The teacher candidate holds a global perspective on current issues in education, understands best pedagogical practices, and utilizes this knowledge in the classroom, school community and profession.

4. The teacher candidate recognizes the importance of the application of educational research as a tool to explore critical aspects of teaching and learning in PK-12 setting.

5. The teacher candidate demonstrates a strong academic background in all subject areas that meet PDE content requirements, with strong emphasis on mathematics and science.
6. The teacher candidate can effectively integrate tools of technology in curriculum, assessment and instruction to enhance PK-12 student learning.

7. The teacher candidate demonstrates the ability to reflect upon one’s professional practice through the successful completion of course work and engagement in experiential learning to promote positive, transformative change within the profession.

Pennsylvania Instructional I Teaching Certifications

There are multiple ways for Drexel University students to obtain their initial and add-on teaching certifications in Pennsylvania while pursuing their current major at Drexel. Education majors have the opportunity to achieve these certifications through the Bachelors of Science Education program, the BS/MS dual degree, the graduate level Post-baccalaureate (PBC) and Masters (MS) in Teaching Learning and Curriculum programs.

Non-teaching education majors may have the opportunity to build teacher certification into their program of study as electives, depending on their major. Those students who cannot manage the whole certification program may opt to participate in the (non-certification) education minor. Undergraduate students also have the option to enroll in as many content courses as can be managed in their undergraduate degree and then finish their teaching certification requirements through the Post-baccalaureate Teaching Certification or Masters in Teaching Learning and Curriculum programs. Additionally, undergraduate non-education majors can pursue a Master’s degree in Teaching, Learning, and Curriculum with Teaching Certification through the BA/MS or BS/MS dual degree route while in their current major provided they meet and maintain the program’s minimum criteria of a 3.0 cumulative GPA requirement and have completed no more than 90-120 credits at Drexel at the time of applying for the dual degree program.

*Please note that during a Drexel student’s senior year, undergraduate students have the option to take up to and including 9 graduate credits in core pedagogy education courses that can be applied to a future graduate level Post-baccalaureate Teacher Certification or MS degree program at Drexel provided that these graduate credits are not required for UG degree completion and the student received a minimum grade of a “B” in those graduate courses.

Please be advised that the Pennsylvania Department of Education requires that all teacher certification candidates must maintain a 3.0 GPA in their degree or certification program in order to be recommended for state certification.

Combination certifications are available from the School of Education. Sample combinations include:

- Grades PreK-4 certification, with certification in Special Education.
- Biology certification, with courses for additional certification in chemistry.
- Chemistry certification, with courses for additional certification in biology.
- Earth and space science certification, with courses for additional certification in chemistry.
- Earth and space science certification, with courses for additional certification in physics.
- Mathematics certification, with courses for additional certification in mathematics.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study.

For more information, please contact the Program Manager or the School of Education at 215.895.6770.

Post-Graduate Opportunities

Students obtain employment in the School District of Philadelphia and neighboring school districts in Pennsylvania and such surrounding states as New Jersey, Delaware, Ohio, and New York. Often, students begin a graduate degree program in combination with their employment.

Writing-Intensive Course Requirements

In order to graduate, all students must pass three writing-intensive courses after their freshman year. Two writing-intensive courses must be in a student’s major. The third can be in any discipline. Students are advised to take one writing-intensive class each year, beginning with the sophomore year, and to avoid “clustering” these courses near the end of their matriculation. Transfer students need to meet with an academic advisor to review the number of writing-intensive courses required to graduate.

A “WI” next to a course in this catalog may indicate that this course can fulfill a writing-intensive requirement. For the most up-to-date list of writing-intensive courses being offered, students should check the Writing Intensive Course List on the Drexel University Writing Center page. Students scheduling their courses in Banner/DrexelOne can also conduct a search for courses with the attribute "WI" to bring up a list of all writing-intensive courses available that term.

Co-Operative Education

Drexel University has long been known for its co-operative education program, through which students combine periods of fulltime, career-related employment with their studies. Internship employment is a requirement for all teacher education majors. The BS degree is completed in four years. In addition to the Pennsylvania Department of Education’s (PDE) state mandated field experiences and 12 week student teaching, this program includes one six-month internship period of full-time employment related to the student’s initial area of teacher certification. The goal of the co-op program in teacher education is to provide real-world experiences for future teachers to use in their classrooms.

Students typically participate in co-ops during their fall and winter terms of their sophomore year and pursue varied positions geared directly to their area(s) of certification. Candidates are asked to pursue a position that would allow them to see other areas of education that reach beyond K-12 teaching. This caveat to the requirement allows candidates to understand the breadth and extensive nature of the field of education both nationally and internationally.

Students have interned in a variety of institutions or museums such as the Philadelphia School District, the Philadelphia’s Please Touch Museum, Drexel’s Academy of Natural Science (http://www.ansp.org) Museum (http://www.ansp.org), the Philadelphia Dream Academy, Children’s Hospital of Philadelphia, and the Franklin Institute Science Museum just to name a few.
While the BS/MS 5 year dual degree program offers both a co-op, PA state mandated field experiences and student teaching, the BS/MS 4 year dual degree program only requires the PA state mandated field experiences and student teaching, not a co-op experience.

Facilities

The Drexel Center for the Prevention of School-aged Violence (http://goodwin.drexel.edu/centers_posav.php) is located within the School of Education at Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104. The mission of the center is to create public awareness around the need for youth-focused, evidence-based efforts aimed at preventing youth violence from occurring in environments where youth grow, learn, and recreate.

Our vision is to help ensure that all youth possess the requisite social and cognitive skills to prevent violence on their own, which includes developing conflict resolution and mediation skills. We also strive to inform policy leaders and stakeholders of the various types of evidence-based activities that prevent school-aged violence.

The Math Forum is a leading center for mathematics and mathematics education on the Internet. Operating under Drexel's School of Education, our mission is to provide resources, materials, activities, person-to-person interactions, and educational products and services that enrich and support teaching and learning in an increasingly technological world.

For more information about these and other School of Education centers, visit the Centers of Goodwin College (http://goodwin.drexel.edu/centers.php) website.

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

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Emeritus Faculty


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Elementary Education

About the Program

Bachelor of Science Degree 180.0-188.5 credits

Elementary school teachers instruct classes of children in several subjects. Often they work as part of a team with other teachers who are jointly responsible for a group of students in at least one subject.

The BS in Elementary Education uses university-wide resources to prepare fully qualified teachers at the primary education levels. Students in the School of Education participate in one six-month cooperative education (co-op) experience in a professional position related to their area of certification.

Primary teacher certification options include:

- Pre-Kindergarten - Grade 4
- Pre-Kindergarten - Grade 4 & Special Education
- Middle Level (grades 4-8) Mathematics and English
- Middle Level (grades 4-8) Science and English
- Middle Level (grades 4-8) Science and Mathematics

Students may acquire certification in more than one subject area.

The program requires that students have a B average (3.0 GPA) in content courses needed for teacher certification in addition to the grade of B or better in each EDUC course throughout their time in the program. These requirements must be satisfied in order for Drexel to recommend the student for teacher certification upon graduation and/or be considered to have completed the program.

A benchmark to assist students in meeting the GPA and B grade requirements is the formal review of each student’s content and pedagogy coursework at the end of the sophomore year. Students who meet these requirements, as well as pass the Pre-Professional Skills Test (PPST Reading, PPST Writing, PPST Mathematics) of the ETS Praxis Exams according to Pennsylvania standards at that time, are officially accepted into Drexel’s Teacher Preparation Program. Students who do not meet the requirements work with their academic advisor to develop a plan of action to work toward meeting the requirements, continue in the program to work toward the BS degree without being recommended for a teaching certificate, or explore another major.

Students participate in classroom observations and limited direct teaching experiences as a component of many of their pedagogy courses beginning in their freshman year. Students have the option of the following teacher certification/concentration tracks within their major which determines their individual program of study:

Elementary Education, Pre-Kindergarten through Grade 4: Focused study to work with children in pre-kindergarten, kindergarten, and grades 1-4 across subject areas (ages 3-9). The competencies for this concentration include child development (birth through age 5), language development, early literacy and math foundations for preschool years, early intervention, integrating the arts for the developing child and family and community partnerships.

Elementary Education, Pre-Kindergarten through Grade 4 and Special Education: Focused study to work with children in pre-kindergarten, kindergarten, and grades 1-4 across subject areas (ages 3-9) within the competencies listed previously as well as working with students with disabilities in pre-kindergarten, kindergarten and grades 1-8 (ages 3-14). The special education competencies emphasize the Response to Intervention process, working with students at risk for and with/without disabilities, progress monitoring techniques, research-based instructional practices and interventions.

Elementary Education, Middle Level: Focused study to work with students in grades 4-6 across subjects and with students in grades 7-8 in two core academic subject(s) the teacher education candidate chooses to pursue:

- Middle School Mathematics & English
- Middle School Science & English
- Middle School Science & Math

In the senior year, students who are officially accepted into the Teacher Preparation Program and maintain the GPA and grade requirements, enroll and complete the 12-week, full-time, student-teaching experience in their primary area of certification. Students must receive a grade of at least B in (and if applicable) and in all pedagogy (EDUC) coursework, as well as maintain an overall 3.0 GPA to be recommended for teacher certification.

Students who were not officially accepted into the Teacher Preparation Program and/or do not maintain the GPA and grade requirements but who are working towards the BS degree without being recommended for teacher certification take other courses as assigned by the Teacher Education Program Director and/or academic advisor to fulfill needed credits for the degree in lieu of student teaching.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study. For more information, contact the Program Coordinator for the School of Education at 215-895-6770.

Additional information is available at the School of Education’s (http://www.drexel.edu/soe) web site.
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Courses

EDUC 101 Foundations in Education I: A Historical and Philosophical Perspective 3.0 Credits
In this course students are introduced to pedagogical and philosophical concepts, theories, methods and procedures in the historical context of education in America. Students develop an understanding of how schools work and of the teaching/learning dynamic through required mentoring activities.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 102 Foundations in Education II: Contemporary Issues 3.0 Credits
In this course students continue their exploration into the pedagogical and philosophical concepts, theories, methods and procedures in the context of contemporary education in America. Students develop an understanding of how schools work and of the teaching/learning dynamic through required mentoring activities.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 105 Freshman Pedagogy Seminar 1.0 Credit
Education majors only. Addresses observation skills focusing on classroom dynamics, i.e. what is teaching/learning, changing roles of teachers, learning styles, study skills, mentoring, journal writing/analysis, and the use of portfolios.

College/Department: School of Education
Repeat Status: Can be repeated 3 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Freshman.

EDUC 112 Integrative Instruction: Focus on World Geography 3.0 Credits
Through the study of geography, encourages students to find a meaningful framework for understanding the system of human culture as it exists over the surface of Earth. Explores the use of technology in education.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDUC.

EDUC 113 Organizational Structure of Secondary Schools 3.0 Credits
Students will explore the organizational structure of high school programs and acquire competence in designing learner-oriented communities of practice in the classroom to foster student achievement and overall well-being.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 123 [Min Grade: D]

EDUC 115 Reasoning about Numbers and Quantity (4-8) 3.0 Credits
Students will investigate number and quantity concepts, state and national teaching standards and appropriate pedagogical approaches to teaching such topics as: quantities, place value, whiel number, fractions and additive reasoning.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 120 Child Development I: Typical Development 3.0 Credits
This course addresses the multifaceted complexities of child development, through discussion of classic and emerging theories. Students will recognize and apply developmental domains of theory and research in the field of child development.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 121 Child Development II: Atypical Development 3.0 Credits
Students will apply knowledge of typical growth and development in childhood to those children whose development is atypical. Key topics include newborn screening, patterns in development and cognitive testing. This course requires additional field experience hours.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 120 [Min Grade: D]

EDUC 123 Adolescent Development 3.0 Credits
This course addresses the complexities of adolescent development, through discussion of theories. It uses research-based, real-world, and cross-cultural examples. It aims to foster the student’s ability to recognize and apply connections among developmental domains, theory, and research with the field of human development. This course requires additional field experience hours.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 201 Instructional Issues 3.0 Credits
This course explores and offers in-depth analysis of relevant theories relating to contemporary application of instructional issues, systems and design. The purpose is to provide theoretical, experimental and critical perspectives on instructional issues and design as it is applied in a number of educational venues.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 203 Design of Instructional Materials 3.0 Credits
This course provides an examination of instructional materials and their use in instructional programs for topics of their choosing. Discussion of current media and instructional equipment for effectiveness, specification and purchasing is included.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 205 Sophomore Pedagogy Seminar 1.0 Credit
Education majors only. Builds on the freshman seminar and incorporates service learning as an instructional strategy.

College/Department: School of Education
Repeat Status: Can be repeated 3 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Pre-Junior or Sophomore.

EDUC 210 Early Language Development 3.0 Credits
Provides preservice teachers an overview of language development in the early years of a child’s life from birth to age five, in the home and school settings. Topics include: phonological awareness, acquisition of phonetic knowledge, semantic understanding and syntactic use. This course requires additional field experience hours.

College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 216 Diversity and Today's Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 223 Teaching the Middle School Child 3.0 Credits
This course will explore the middle school environment, developmentally appropriate middle school programs, strategies for supporting students through the transition to middle school, and the impact of peer pressure on the middle school child. The course requires the candidate to apply theories learned in EDUC 123: Adolescent Development to the classroom setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 123 [Min Grade: D]

EDUC 236 Early Literacy I 3.0 Credits
This course examines research-validated literacy instruction and literacy interventions. Topics will include phonics, fluency, comprehension, vocabulary, and the reading-writing connection. Emphasis is placed on the socio-cultural aspects of reading. Focus is also placed on literacy instruction across the curriculum.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 240 Proportional Reasoning in Middle School 3.0 Credits
This course provides middle grade teachers with key mathematical ideas of proportional reasoning. Topics explored in this course include: measurement, quantities, relative thinking, unitizing, sharing and comparing, reasoning up and down, and rational number interpretations.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 256 Teaching Writing Grades 4-8 3.0 Credits
This course prepares the candidate to teach and assess writing effectively in grades 4-8. Formative and summative assessments in multi-genre writing will be learned and applied, including the use of Writing Folders and Portfolios.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 257 Content Area Reading (Grades 4-8) 3.0 Credits
This course prepares the pre-service teacher to teach and assess adolescents who are learning to read across multiple subject areas in grades 4-8. Students will explore textbooks, trade books, electronic texts and internet resources. Additional field experience hours are required for this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 258 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students' reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 265 Instructing English Language Learners 3.0 Credits
This course explores principles and theory of second language and literacy acquisition, bilingualism, academic language competence and linguistics, and instructional approaches based on these principles. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 284 Teaching Life Science in the Middle School 3.0 Credits
Course designed to provide the developing middle grades teacher with skills to introduce life science content topics to middle school children, assess children's content knowledge, and develop a variety of hands-on strategies, effective pedagogy, and activities, mini-labs, and conceptual problems that can be implemented in middle grade classrooms.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: (BIO 161 [Min Grade: D] and BIO 162 [Min Grade: D]) or (BIO 102 [Min Grade: D] and BIO 104 [Min Grade: D])

EDUC 285 Teaching Physical Science in the Middle School 3.0 Credits
This course provides the developing candidate with an introduction to how content topics including physical and chemical changes and properties of matter, motion and forces, sound, light, electricity, and magnetism are taught and assessed in the middle school. Candidates learn how to implement activities such as mini-labs and conceptual problems in the middle school setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 286 Teaching Earth & Space Science for Middle School 3.0 Credits
This course is designed to provide an introduction to how content topics of earth, plate tectonics, earthquakes, earth's atmosphere/weather and climate are taught and assessed in the middle school. Students will learn how to design age appropriate activities for the middle school setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 292 Science Methods for Middle School 3.0 Credits
This course examines planning science instruction to include inquiry and integrated concepts, developing authentic assessments, involving a variety of tools, creating and maintaining a safe laboratory and a learning environment that meets the needs of diverse learners in science education. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 284 [Min Grade: D] and EDUC 285 [Min Grade: D] and EDUC 286 [Min Grade: D]
EDUC 301 Introduction to Personalized Systems of Instruction 3.0 Credits
The student should be coaching or tutoring while taking this course. Covers the theory and practice of the Personalized System of Instruction and the Heuristic Diagnostic Learning approach. Includes emphasis on empowering students in teaching and learning by studying coaching strategies, instructional strategies, learning styles, student-coach interactions, current research, and applying PSI. Requires three hours per week of service comprised of one-to-one academic coaching. Students keep a weekly log of their coaching activities and a reflective journal about the academic coaching experience.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 302 Advanced Seminar In Personalized Systems of Instruction 3.0 Credits
An advanced seminar for students with coaching experience. Covers content knowledge, pedagogical knowledge, and curricular knowledge issues; management of students and problems encountered in coaching; instructional planning design; and issues such as individual differences in learning and motivation. Students maintain a weekly journal of their teaching experience and engage in a critical analysis of their teaching/coaching experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 301 [Min Grade: B]

EDUC 305 Junior Pedagogy Seminar 1.0 Credit
Education majors only. Continues further exploration of relationships among service learning, content knowledge, pedagogy knowledge, learner characteristics utilizing generic influences, special needs students, and motivation techniques.
College/Department: School of Education
Repeat Status: Can be repeated 2 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Junior.

EDUC 306 Assessment of Young Children I 3.0 Credits
Students will gain an understanding of the role of the assessment process in early education. Students will explore evaluation procedures and classroom-based data collection strategies for young children in inclusive education settings. Course covers 3 major functions of assessment: program planning, program monitoring and program evaluation.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 307 Assessment of Young Children II 4.0 Credits
This course will provide candidates with an in-depth view of formal and informal evaluation procedures for young children and their families. Such procedures will be explored in the context of the function of assessment; screening, diagnosis/eligibility, program planning, and program evaluation.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 306 [Min Grade: D]

EDUC 308 Creating a Positive Classroom Climate 3.0 Credits
This course focuses on the practical aspects of classroom management, school safety and other critical social issues that relate to providing a positive and productive learning environment, particularly in underserved classroom settings. Specific focus in this course will be dedicated “knowing the learner”, identifying individual student needs, building rapport and constructing a “democratic classroom”. Additional emphasis will be placed on teacher leadership and how each pre-service candidate will develop his/her own approach to leading and managing a PK-12 classroom.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 310 Computer Applications in Teaching 3.0 Credits
Studies the unique characteristics of the microcomputer as an instructional tool in elementary and secondary school instruction. Provides students with an understanding of the instructional versatility and limitations of microcomputing through hands-on experience with applications in their subject-matter fields. Addresses issues concerning techniques for integrating computing into instruction.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 311 Computer Applications in Curriculum Development 3.0 Credits
This course presents major instructional design concepts that students will use in developing their own curricular materials. It describes various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 310 [Min Grade: B]

EDUC 312 Educational Policy, Law & Advocacy 3.0 Credits
This course introduces students to the complexities of the law and policy that shape public schooling in the U.S. Emphasis is placed on how education law and policy impact and are impacted by teachers’ evolving roles, relationships, and practices. Additionally, the course provides students with foundational information and tools they will need in order to advocate, as teachers, for students and for themselves.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 314 Science Teaching Methods 3.0 Credits
This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences in the area of science.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 315 Secondary Science Teaching Methods 3.0 Credits
Methods for teaching middle and secondary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 316 Teaching in Urban Contexts 3.0 Credits
This course enables students to understand the complex conditions that have led to issues that impact urban education. The course will explore recent reform efforts focused on changing the organizational structure and curriculum. Specific emphasis will be placed on the teacher's disposition towards the learner, the impact of racism and knowledge and skills related to teaching in urban settings. This course will introduce historical references for the current condition of urban schools as well as the aspects of teaching that lead to a classroom of respect and rapport for the urban learner and his/her family.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 317 Math Methods and Content: Early Childhood 3.0 Credits
Students will know and effectively deliver standards-based academic math content, based on age appropriate understanding, and individual and groups needs including a respect for the unique needs of all types of learners. This course requires additional field experience hours.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 217

EDUC 318 Math Methods & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expected to work, noting the error and correction process, as well as gaining an awareness of student difficulties in mathematics.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 319 Teaching Secondary Mathematics 3.0 Credits
This course emphasizes the major issues in learning and teaching mathematics in the secondary school. Topics will include instructional practices, learning theories, philosophies of assessment, and curriculum in the secondary school. Throughout the course, emphasis will be placed on the appropriate use of technology.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 320 [WI] Professional Studies in Instruction 6.0 Credits
This course offers field placement with practitioners in classroom environments appropriate to the student's certification area to provide instruction and experience in methodology, classroom management, and the opportunity to apply results of current research on effective teaching. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman

EDUC 321 Non-Field Experience Professional Studies in Instruction 3.0 Credits
Study of learning and developmental theories, developmental reading and reading in the content areas, student motivation, and the interrelationships among diverse populations within the school setting, and identification of instructional resources.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 322 Evaluation of Instruction 3.0 Credits
Permits students to acquire competence in new evaluation techniques, including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. Covers qualitative and quantitative assessment used in measuring student achievement. Teaches techniques for grading and reporting pupils' classroom performance in cognitive, affective, and (where appropriate) motor tasks. The course is directed toward instruction in elementary and high school settings.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman

EDUC 323 [WI] Diagnostic Teaching 4.0 Credits
Requires students to integrate and apply theories of learning, curriculum, and pedagogy to instruction and heuristic diagnostic teaching. Focuses on the individual learner. Covers processes involved in learning mathematics and science in particular, and studies their applications in relation to individual differences among learners. Emphasizes developing strategies that prevent learning problems. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
Prerequisites: EDUC 320 [Min Grade: B]

EDUC 324 Current Research in Curriculum & Instruction 3.0 Credits
Examines the theories and assumptions underlying various approaches to instruction for elementary and high school teaching. Included are areas such as a) knowledge acquisition and critical reasoning in mathematics and science, b) teaching general and specific skills as related to content material, c) study skills and abilities to learn, and d) the roles of memory and metacognition in learning. Explores these processes of human cognition and learning with particular attention to how conditions that foster them might be built into materials, pedagogy, and learning environments.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 325 Multimedia in Instructional Design 3.0 Credits
Imparts skills in selecting, using, and evaluating a range of instructional media, including interactive multimedia formats, in relation to educational goals and learner characteristics. Emphasizes presentation skills when using a variety of media to deliver instruction. Students design and write a software prototype as a group design project.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
Prerequisites: EDUC 310 [Min Grade: B]

EDUC 326 [WI] Language Arts Processes 3.0 Credits
Studies the nature of language, including phonetic, semantic, and syntactic aspects of language development, and theories of language development. Applies contemporary research to processes and problems in teaching oral and written communication. Assumes that listening, speaking, writing, and reading in the content area are integrated processes and should be taught as such. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
EDUC 327 Learning Disabilities 3.0 Credits
Course will address issues such as definition of learning disability, various types of learning disabilities and the general approaches to the assessment and treatment of learning disabilities.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 328 Language Arts Processes 4-8 3.0 Credits
This course develops knowledge and competencies for teaching adolescent literacy in grades 4-8. Students will use supportive contexts, diverse texts, ongoing assessments, and technology to engage learners in developing self-directed, life-long literacy skills across all disciplines.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 335 Engaging the Learner 3.0 Credits
This course provides multiple approaches to the critical linked processes of assessment, curriculum development, and inclusive instruction of all young children. Topics of study include: planning and preparation, using appropriate materials, scope and sequence and strategies for student-centered assessments.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 236 [Min Grade: D]

EDUC 336 Early Literacy II 3.0 Credits
This course focuses on the process of family assessment and family strengths through classroom practice, supervision and reflective practice. In this seminar, students will share experiences through reflective journaling, discuss best practices in instruction, learn about resources, reflect on what is being encountered in the field and begin to construct professional teaching portfolios. Through this course candidates will be evaluated according to the four domains of effective teaching and learning, which include; planning and preparation, instructional delivery, the classroom environment and professionalism.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 337 Learning Disabilities II 3.0 Credits
The focus of this course is to teach teachers how to manage instruction for students with special needs in the inclusive classroom. Inclusion of students with special needs is now the norm. The course will address curricular and instructional modifications and the use of technology in addressing learning needs. Legal issues pertaining to special education law will be a critical component.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 338 Expressive Arts for PK-4 3.0 Credits
The focus of this course is to teach educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts) into the PK-4 classroom(s). Students will explore instructional strategies, modern technologies, stages of artistic development and multicultural art forms.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 339 Social Studies Teaching Methods 3.0 Credits
This course focuses on the effective, responsible and ethical teaching of social studies in the elementary classroom. Topics include; perspectives of social studies, curriculum standards, unit development, assessment design, integrated curriculum and technology, and teacher decision-making.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 350 Secondary Social Studies Methods 3.0 Credits
Students will be able to identify content and appropriate pedagogy strategies for the various National Council for the Social Studies disciplinary standards for history, geography, civics, economics and psychology. Major curriculum movements and teaching diverse learners are also explored. Classroom-based experiences are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 405 Senior Pedagogy Seminar 1.0 Credit
Education majors only. Focuses on the teacher as a researcher. Presents descriptions of collaborations between university faculty and faculty from K-12 schools and discusses student involvement in learning and pedagogy issues.
College/Department: School of Education
Repeat Status: Can be repeated 2 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Senior.

EDUC 409 Student Teaching Seminar I 9.0 Credits
This course is part one of a two-course requirement specifically aligned with the teacher candidate’s full-time, twenty-four week Student Teaching experience. The course is designed to develop one’s teaching knowledge and strengths through classroom practice, supervision and reflective practice. In this seminar, students will share experiences through reflective journaling, discuss best practices in instruction, learn about resources, reflect on what is being encountered in the field and begin to construct professional teaching portfolios. Through this course candidates will be evaluated according to the four domains of effective teaching and learning, which include; planning and preparation, instructional delivery, the classroom environment and professionalism.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 410 [WI] Student Teaching 9.0 Credits
A 12-week field experience that approximates full time classroom teaching and related activities; it is designed to allow the candidate to demonstrate competencies necessary for certification. This is a writing intensive course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
Prerequisites: EDUC 323 [Min Grade: B]

EDUC 411 Family and Community Partnerships 3.0 Credits
This course focuses on the process of family assessment and intervention, issues of family and professional collaboration and diversity, and methods of promoting adult communication and management strategies. It applies knowledge of socio-cultural and political contexts as they relate to the family, culture and society.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 412 [WI] Student Teaching 12.0 Credits
A 12-week field experience that approximates full-time classroom teaching and related activities; it is designed to allow the candidate to develop the competencies necessary for certification. This is a writing intensive course.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Restrictions:** Can enroll if major is EDUC and classification is Senior.  
**Prerequisites:** EDUC 323 [Min Grade: B]

EDUC 414 Special Education: Field Placement Seminar 9.0 Credits
This course is designed to develop special education teaching knowledge, skills and abilities through field placement, supervision and reflective practice. Activities include; journaling, best practice workshops and reflecting on relevant case studies.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 142 [Min Grade: D] and EDUC 244 [Min Grade: D] and EDUC 346 [Min Grade: D] and EDUC 347 [Min Grade: D] and EDUC 348 [Min Grade: D] and EDUC 349 [Min Grade: D] and EDUC 350 [Min Grade: D] and EDUC 351 [Min Grade: D] and EDUC 352 [Min Grade: D] and EDUC 353 [Min Grade: D]

EDUC 416 Introduction to Math Teaching Methods (4-8) 3.0 Credits
This course provides an introduction to learning and teaching mathematics to students in grades 4-8. Emphasis will be on fundamental ideas of number, operation and measurement. This course requires additional field experience.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 416 [Min Grade: D]

EDUC 417 Advanced Math Teaching Methods (4-8) 3.0 Credits
In this course, students will view mathematics from the perspective of a teacher; how to represent topics to learners in meaningful ways, analyze a learner’s reactions to mathematics instruction, and how to select activities that allow the learners to construct meaning, rather than memorize rules and procedures. This course requires additional field-based hours.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 416 [Min Grade: D]

EDUC 428 Cultural and Historical Significance of Mathematics 3.0 Credits
This course provides mathematics content and pedagogy for the teacher preparation program. Course is part of a state approved certification program.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 432 Algebraic Reasoning 3.0 Credits
This course provides middle school teachers with mathematical ideas of algebraic reasoning. Topics include understanding of multiplicative reasoning, integer addition and rational multiplication as algebraic operations, identity and inverse properties. Emphasis will be placed on the processes of thinking, doing, explaining writing and revising.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 433 Functions in Middle School Math 3.0 Credits
This course is structured to introduce specific content knowledge using a variety of activities and conceptual problems that can be implemented in the middle school classroom. Emphasis will be placed on the process of thinking, doing, explaining, writing and revising mathematics.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 436 Distance Learning 3.0 Credits
This course is structured to introduce specific content knowledge using a variety of activities and conceptual problems that can be implemented in the middle school classroom. Emphasis will be placed on the process of thinking, doing, explaining, writing and revising mathematics.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 475 Special Studies in Teacher Education 12.0 Credits
Covers various topics of particular interest to teacher education students.

**College/Department:** School of Education  
**Repeat Status:** Can be repeated multiple times for credit  
**Restrictions:** Cannot enroll if classification is Freshman

EDUC 499 Independent Study in Teacher Education 0.5-12.0 Credits
Covers various topics of particular interest to teacher education students, explored individually under guidance from instructional team member.

**College/Department:** School of Education  
**Repeat Status:** Can be repeated multiple times for credit  
**Restrictions:** Cannot enroll if classification is Freshman

## BS in Teacher Education

**Bachelor of Science Degree 180.0-191.5 credits**

### About the Program

The Bachelor of Science in Teacher Education program uses university-wide resources to prepare fully qualified teachers at the secondary education levels in various subjects of certification. The program applies the microcomputer in teaching and learning, and it is the only such program in the country to incorporate a six-month paid internship in industry related to the student’s area of certification (for example, a prospective chemistry teacher might co-op at a chemical company).

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study.

The BS in Teacher Education, is focused on secondary education, and provides graduates with the background to work with students in grades 7-12 in a specific subject area. Students may work with their academic advisor to satisfy teacher certification requirements for multiple areas if desired. Available certification areas include:

- Biology
- Chemistry
- Earth & Space Science
- Environmental Education *
- English
- General Science
- Mathematics
• Physics
• Social Studies

* Environmental Education is grades K-12 certification area.

The program requires that students have a B average (3.0 GPA) in content courses needed for teacher certification in addition to the grade of B or better in each EDUC course throughout their time in the program. These requirements must be satisfied in order for Drexel to recommend the student for teacher certification upon graduation and/or be considered to have completed the program.

A benchmark to assist students in meeting the GPA and B grade requirements is the formal review of each student's content and pedagogy coursework at the end of the sophomore year. Students who meet these requirements, as well as pass the Pre-Professional Skills Test (PPST Reading, PPST Writing, PPST Mathematics) of the ETS Praxis Exams according to Pennsylvania standards at that time, are officially accepted into Drexel's Teacher Preparation Program. Students who do not meet the requirements work with their academic advisor to develop a plan of action to work toward meeting the requirements, continue in the program to work toward the BS degree without being recommended for a teaching certificate, or explore another major.

Students participate in classroom observations and limited direct teaching experiences as a component of many of their pedagogy courses beginning in their freshman year. In the senior year, students who are officially accepted into the Teacher Preparation Program and maintain the GPA and grade requirements, enroll and complete the 12-week, full-time, student-teaching experience in their primary area of certification. Students must receive a grade of at least B in (and if applicable) and in all pedagogy (EDUC) coursework, as well as maintain an overall 3.0 GPA to be recommended for teacher certification.

Students who were not officially accepted into the Teacher Preparation Program and/or do not maintain the GPA and grade requirements but who are working towards the BS degree without being recommended for teacher certification take other courses as assigned by the Teacher Education Program Director and/or academic advisor to fulfill needed credits for the degree in lieu of student teaching.

Students pursuing the appropriate majors in the College of Arts and Sciences may also complete the requirements for certification within their area of study. For more information, contact the Program Coordinator for the School of Education at 215-895-6770.

Additional information is available at the School of Education's (http://www.drexel.edu/soe) web site.

**Education Faculty**

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroutis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling,
virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children’s achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O’Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation.

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.
Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania), Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vormdran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

**Interdepartmental Faculty**

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

**Emeritus Faculty**


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

**Courses**

**EDUC 101 Foundations in Education I: A Historical and Philosophical Perspective 3.0 Credits**
In this course students are introduced to pedagogical and philosophical concepts, theories, methods and procedures in the historical context of education in America. Students develop an understanding of how schools work and of the teaching/learning dynamic through required mentoring activities.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 102 Foundations in Education II: Contemporary Issues 3.0 Credits**
In this course students continue their exploration into the pedagogical and philosophical concepts, theories, methods and procedures in the context of contemporary education in America. Students develop an understanding of how schools work and of the teaching/learning dynamic through required mentoring activities.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 105 Freshman Pedagogy Seminar 1.0 Credit**
Education majors only. Addresses observation skills focusing on classroom dynamics, i.e., what is teaching/learning, changing roles of teachers, learning styles, study skills, mentoring, journal writing/analysis, and the use of portfolios.

**College/Department:** School of Education  
**Repeat Status:** Can be repeated 3 times for NaN credits  
**Restrictions:** Can enroll if major is EDUC and classification is Freshman.

**EDUC 112 Integrative Instruction: Focus on World Geography 3.0 Credits**
Through the study of geography, encourages students to find a meaningful framework for understanding the system of human culture as it exists over the surface of Earth. Explores the use of technology in education.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Restrictions:** Can enroll if major is EDUC.

**EDUC 113 Organizational Structure of Secondary Schools 3.0 Credits**
Students will explore the organizational structure of high school programs and acquire competence in designing learner-oriented communities of practice in the classroom to foster student achievement and overall well-being.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 123 [Min Grade: D]

**EDUC 115 Reasoning about Numbers and Quantity (4-8) 3.0 Credits**
Students will investigate number and quantity concepts, state and national teaching standards and appropriate pedagogical approaches to teaching such topics as; quantities, place value, whole number, fractions and additive reasoning.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 120 Child Development I: Typical Development 3.0 Credits**
This course addresses the multifaceted complexities of child development, through discussion of classic and emerging theories. Students will recognize and apply developmental domains of theory and research in the field of child development.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 121 Child Development II: Atypical Development 3.0 Credits**
Students will apply knowledge of typical growth and development in childhood to those children whose development is atypical. Key topics include newborn screening, patterns in development and cognitive testing. This course requires additional field experience hours.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 120 [Min Grade: D]
EDUC 123 Adolescent Development 3.0 Credits
This course addresses the complexities of adolescent development, through discussion of theories. It uses research-based, real-world, and cross-cultural examples. It aims to foster the student’s ability to recognize and apply connections among developmental domains, theory, and research with the field of human development. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 205 Sophomore Pedagogy Seminar 1.0 Credit
Education majors only. Builds on the freshman seminar and incorporates service learning as an instructional strategy.
College/Department: School of Education
Repeat Status: Can be repeated 3 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Pre-Junior or Sophomore.

EDUC 203 Design of Instructional Materials 3.0 Credits
This course provides an examination of instructional materials and their use in instructional programs for topics of their choosing. Discussion of current media and instructional equipment for effectiveness, specification and purchasing is included.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 201 Instructional Issues 3.0 Credits
This course explores and offers in-depth analysis of relevant theories relating to contemporary application of instructional issues, systems and design. The purpose is to provide theoretical, experimental and critical perspectives on instructional issues and design as it is applied in a number of educational venues.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 257 Content Area Reading (Grades 4-8) 3.0 Credits
This course prepares the pre-service teacher to teach and assess writing effectively in grades 4-8. Formative and summative assessments in multi-genre writing will be learned and applied, including the use of Writing Folders and Portfolios.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 258 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students’ reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 256 Teaching Writing Grades 4-8 3.0 Credits
This course prepares the candidate to teach and assess writing effectively in grades 4-8. Formative and summative assessments in multi-genre writing will be learned and applied, including the use of Writing Folders and Portfolios.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 240 Proportional Reasoning in Middle School 3.0 Credits
This course provides middle grade teachers with key mathematical ideas of proportional reasoning. Topics explored in this course include: measurement, quantities, relative thinking, unitizing, sharing and comparing, reasoning up and down, and rational number interpretations.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 223 Teaching the Middle School Child 3.0 Credits
This course will explore the middle school environment, developmentally appropriate middle school programs, strategies for supporting students through the transition to middle school, and the impact of peer pressure on the middle school child. The course requires the candidate to apply theories learned in EDUC 123: Adolescent Development to the classroom setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 123 [Min Grade: D]

EDUC 236 Early Literacy I 3.0 Credits
This course examines research-validated literacy instruction and literacy interventions. Topics will include phonics, fluency, comprehension, vocabulary, and the reading-writing connection. Emphasis is placed on the socio-cultural aspects of reading. Focus is also placed on literacy instruction across the curriculum.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 210 Early Language Development 3.0 Credits
Provides preservice teachers an overview of language development in the early years of a child’s life from birth to age five, in the home and school settings. Topics include; phonological awareness, acquisition of phonetic knowledge, semantic understanding and syntactic use. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 216 Diversity and Today’s Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 265 Instructing English Language Learners 3.0 Credits
This course explores principles and theory of second language and literacy acquisition, bilingualism, academic language competence and linguistics, and instructional approaches based on these principles. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 284 Teaching Life Science in the Middle School 3.0 Credits
Course designed to provide the developing middle grades teacher with skills to introduce life science content topics to middle school children, assess children’s content knowledge, and develop a variety of hands-on strategies, effective pedagogy, and activities, mini-labs, and conceptual problems that can be implemented in middle grade classrooms.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: (BIO 161 [Min Grade: D] and BIO 162 [Min Grade: D]) or (BIO 102 [Min Grade: D] and BIO 104 [Min Grade: D])

EDUC 285 Teaching Physical Science in the Middle School 3.0 Credits
This course provides the developing candidate with an introduction to how content topics including physical and chemical changes and properties of matter, motion and forces, sound, light, electricity, and magnetism are taught and assessed in the middle school. Candidates learn how to implement activities such as mini-labs and conceptual problems in the middle school setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 286 Teaching Earth & Space Science for Middle School 3.0 Credits
This course is designed to provide an introduction to how content topics of earth, plate tectonics, earthquakes, earth’s atmosphere/weather and climate are taught and assessed in the middle school. Students will learn how to design age appropriate activities for the middle school setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 292 Science Methods for Middle School 3.0 Credits
This course examines planning science instruction to include inquiry and integrated concepts, developing authentic assessments, involving a variety of tools, creating and maintaining a safe laboratory and a learning environment that meets the needs of diverse learners in science education. This course requires additional field experience hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 284 [Min Grade: D] and EDUC 285 [Min Grade: D] and EDUC 286 [Min Grade: D]

EDUC 301 Introduction to Personalized Systems of Instruction 3.0 Credits
The student should be coaching or tutoring while taking this course. Covers the theory and practice of the Personalized System of Instruction and the Heuristic Diagnostic Learning approach. Includes emphasis on empowering students in teaching and learning by studying coaching strategies, instructional strategies, learning styles, student-coach interactions, current research, and applying PSI. Requires three hours per week of service comprised of one-to-one academic coaching. Students keep a weekly log of their coaching activities and a reflective journal about the academic coaching experience.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 302 Advanced Seminar In Personalized Systems of Instruction 3.0 Credits
An advanced seminar for students with coaching experience. Covers content knowledge, pedagogical knowledge, and curricular knowledge issues; management of students and problems encountered in coaching; instructional planning design; and issues such as individual differences in learning and motivation. Students maintain a weekly journal of their teaching experience and engage in a critical analysis of their teaching/coaching experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 301 [Min Grade: B]

EDUC 305 Junior Pedagogy Seminar 1.0 Credit
Education majors only. Continues further exploration of relationships among service learning, content knowledge, pedagogy knowledge, learner characteristics utilizing generic influences, special needs students, and motivation techniques.
College/Department: School of Education
Repeat Status: Can be repeated 2 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Junior.

EDUC 306 Assessment of Young Children I 3.0 Credits
Students will gain an understanding of the role of the assessment process in early education. Students will explore evaluation procedures and classroom-based data collection strategies for young children in inclusive education settings. Course covers 3 major functions of assessment: program planning, program monitoring and program evaluation.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 307 Assessment of Young Children II 4.0 Credits
This course will provide candidates with an in-depth view of formal and informal evaluation procedures for young children and their families. Such procedures will be explored in the context of the function of assessment; screening, diagnosis/eligibility, program planning, and program evaluation.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 306 [Min Grade: D]
EDUC 308 Creating a Positive Classroom Climate 3.0 Credits
This course focuses on the practical aspects of classroom management, school safety and other critical social issues that relate to providing a positive and productive learning environment, particularly in under-served classroom settings. Specific focus in this course will be dedicated “knowing the learner”, identifying individual student needs, building rapport and constructing a “democratic classroom”. Additional emphasis will be placed on teacher leadership and how each pre-service candidate will develop his/her own approach to leading and managing a PK-12 classroom.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 310 Computer Applications in Teaching 3.0 Credits
Studies the unique characteristics of the microcomputer as an instructional tool in elementary and secondary school instruction. Provides students with an understanding of the instructional versatility and limitations of microcomputing through hands-on experience with applications in their subject-matter fields. Addresses issues concerning techniques for integrating computing into instruction.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prequisites: EDUC 310 [Min Grade: B]

EDUC 311 Computer Applications in Curriculum Development 3.0 Credits
This course presents major instructional design concepts that students will use in developing their own curricular materials. It describes various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 312 Educational Policy, Law & Advocacy 3.0 Credits
This course introduces students to the complexities of the law and policy that shape public schooling in the U.S. Emphasis is placed on how education law and policy impact and are impacted by teachers’ evolving roles, relationships, and practices. Additionally, the course provides students with foundational information and tools they will need in order to advocate, as teachers, for students and for themselves.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prequisites: EDUC 310 [Min Grade: B]

EDUC 313 Science Teaching Methods 3.0 Credits
This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences in the area of science.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 314 Secondary Science Teaching Methods 3.0 Credits
Methods for teaching middle and secondary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 315 Teaching Secondary Mathematics 3.0 Credits
This course focuses on the practical aspects of classroom management, school safety and other critical social issues that relate to providing a positive and productive learning environment, particularly in under-served classroom settings. Specific focus in this course will be dedicated “knowing the learner”, identifying individual student needs, building rapport and constructing a “democratic classroom”. Additional emphasis will be placed on teacher leadership and how each pre-service candidate will develop his/her own approach to leading and managing a PK-12 classroom.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 316 Teaching in Urban Contexts 3.0 Credits
This course enables students to understand the complex conditions that have led to issues that impact urban education. The course will explore recent reform efforts focused on changing the organizational structure and curriculum. Specific emphasis will be placed on the teacher's disposition towards the learner, the impact of racism and knowledge and skills related to teaching in urban settings. This course will introduce historical references for the current condition of urban schools as well as the aspects of teaching that lead to a classroom of respect and rapport for the urban learner and his/her family.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 317 Math Methods and Content: Early Childhood 3.0 Credits
Students will know and effectively deliver standards-based academic math content, based on age appropriate understanding, and individual and groups needs including a respect for the unique needs of all types of learners. This course requires additional field experience hours.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prequisite: EDUC 217

EDUC 318 Math Methods & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expected to work, noting the error and correction process, as well as gaining an awareness of student difficulties in mathematics.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 319 Teaching Secondary Mathematics 3.0 Credits
This course emphasizes the major issues in learning and teaching mathematics in the secondary school. Topics will include instructional practices, learning theories, philosophies of assessment, and curriculum in the secondary school. Throughout the course, emphasis will be placed on the appropriate use of technology.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 320 [WI] Professional Studies in Instruction 6.0 Credits
This course offers field placement with practitioners in classroom environments appropriate to the student's certification area to provide instruction and experience in methodology, classroom management, and the opportunity to apply results of current research on effective teaching. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Restrictions: Cannot enroll if classification is Freshman

EDUC 321 Non-Field Experience Professional Studies in Instruction 3.0 Credits
Study of learning and developmental theories, developmental reading and reading in the content areas, student motivation, and the interrelationships among diverse populations within the school setting, and identification of instructional resources.

College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 322 Evaluation of Instruction 3.0 Credits
Permits students to acquire competence in new evaluation techniques, including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. Covers qualitative and quantitative assessment used in measuring student achievement. Teaches techniques for grading and reporting pupils’ classroom performance in cognitive, affective, and (where appropriate) motor tasks. The course is directed toward instruction in elementary and high school settings.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman

EDUC 323 [WI] Diagnostic Teaching 4.0 Credits
Requires students to integrate and apply theories of learning, curriculum, and pedagogy to instruction and heuristic diagnostic teaching. Focuses on the individual learner. Covers processes involved in learning mathematics and science in particular, and studies their applications in relation to individual differences among learners. Emphasizes developing strategies that prevent learning problems. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
Prerequisites: EDUC 320 [Min Grade: B]

EDUC 324 Current Research in Curriculum & Instruction 3.0 Credits
Examines the theories and assumptions underlying various approaches to instruction for elementary and high school teaching. Included are areas such as a) knowledge acquisition and critical reasoning in mathematics and science, b) teaching general and specific skills as related to content material, c) study skills and abilities to learn, and d) the roles of memory and metacognition in learning. Explores these processes of human cognition and learning with particular attention to how conditions that foster them might be built into materials, pedagogy, and learning environments.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 325 Multimedia in Instructional Design 3.0 Credits
Imparts skills in selecting, using, and evaluating a range of instructional materials, including interactive multimedia formats, in relation to educational goals and learner characteristics. Emphasizes presentation skills when using a variety of media to deliver instruction. Students design and write a software prototype as a group design project.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman
Prerequisites: EDUC 310 [Min Grade: B]

EDUC 326 [WI] Language Arts Processes 3.0 Credits
Studies the nature of language, including phonetic, semantic, and syntactic aspects of language development, and theories of language development. Applies contemporary research to processes and problems in teaching oral and written communication. Assumes that listening, speaking, writing, and reading in the content area are integrated processes and should be taught as such. This is a writing intensive course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Cannot enroll if classification is Freshman

EDUC 327 Learning Disabilities 3.0 Credits
Course will address issues such as definition of learning disability, various types of learning disabilities and the general approaches to the assessment and treatment of learning disabilities.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 328 Language Arts Processes 4-8 3.0 Credits
This course develops knowledge and competencies for teaching adolescent literacy in grades 4-8. Students will use supportive contexts, diverse texts, ongoing assessments, and technology to engage learners in developing self-directed, life-long literacy skills across all disciplines.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 335 Engaging the Learner 3.0 Credits
This course provides multiple approaches to the critical linked processes of assessment, curriculum development, and inclusive instruction of all young children. Topics of study include: planning and preparation, using appropriate materials, scope and sequence for student-centered assessments.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 336 Early Literacy II 3.0 Credits
This course focuses on teaching strategies that are effective in developing students’ writing abilities within a literacy rich environment. The interrelationship between reading and writing will be emphasized. Additional field experience hours are required for this course.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 236 [Min Grade: D]

EDUC 337 Learning Disabilities II 3.0 Credits
The focus of this course is to teach teachers how to manage instruction for students with special needs in the inclusive classroom. Inclusion of students with special needs is now the norm. The course will address curricular and instructional modifications and the use of technology in addressing learning needs. Legal issues pertaining to special education law will be a critical component.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 338 Expressive Arts for PK-4 3.0 Credits
The focus of this course is to teach educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts) into the PK-4 classroom(s). Students will explore instructional strategies, modern technologies, stages of artistic development and multicultural art forms.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 355 Social Studies Teaching Methods 3.0 Credits
This course focuses on the effective, responsible and ethical teaching of social studies in the elementary classroom. Topics include: perspectives of social studies, curriculum standards, unit development, assessment design, integrated curriculum and technology, and teacher decision-making.

College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 356 Secondary Social Studies Methods 3.0 Credits
Students will be able to identify content and appropriate pedagogy strategies for the various National Council for the Social Studies disciplinary standards for history, geography, civics, economics and psychology. Major curriculum movements and teaching diverse learners are also explored. Classroom-based experiences are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 405 Senior Pedagogy Seminar 1.0 Credit
Education majors only. Focuses on the teacher as a researcher. Presents descriptions of collaborations between university faculty and faculty from K-12 schools and discusses student involvement in learning and pedagogy issues.
College/Department: School of Education
Repeat Status: Can be repeated 2 times for NaN credits
Restrictions: Can enroll if major is EDUC and classification is Senior.

EDUC 409 Student Teaching Seminar I 9.0 Credits
This course is part one of a two-course requirement specifically aligned with the teacher candidate’s full-time, twenty-four week Student Teaching experience. The course is designed to develop one’s teaching knowledge and strengths through classroom practice, supervision and reflective practice. In this seminar, students will share experiences through reflective journaling, discuss best practices in instruction, learn about resources, reflect on what is being encountered in the field and begin to construct professional teaching portfolios. Through this course candidates will be evaluated according to the four domains of effective teaching and learning, which include; planning and preparation, instructional delivery, the classroom environment and professionalism.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 410 [WI] Student Teaching 9.0 Credits
A 12-week field experience that approximates full time classroom teaching and related activities; it is designed to allow the candidate to demonstrate competencies necessary for certification. This is a writing intensive course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDUC and classification is Senior.
Prerequisites: EDUC 323 [Min Grade: B]

EDUC 411 Family and Community Partnerships 3.0 Credits
This course focuses on the process of family assessment and intervention, issues of family and professional collaboration and diversity, and methods of promoting adult communication and management strategies. It applies knowledge of socio-cultural and political contexts as they relate to the family, culture and society.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 412 [WI] Student Teaching 12.0 Credits
A 12-week field experience that approximates full-time classroom teaching and related activities; it is designed to allow the candidate to demonstrate competencies necessary for certification. This is a writing intensive course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDUC and classification is Senior.
Prerequisites: EDUC 323 [Min Grade: B]

EDUC 414 Special Education: Field Placement Seminar 9.0 Credits
This course is designed to develop special education teaching knowledge, skills and abilities through field placement, supervision and reflective practice. Activities include; journaling, best practice workshops and reflecting on relevant case studies.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDUC and classification is Senior.
Prerequisites: EDUC 142 [Min Grade: D] and EDUC 244 [Min Grade: D] and EDUC 346 [Min Grade: D] and EDUC 347 [Min Grade: D] and EDUC 348 [Min Grade: D] and EDUC 349 [Min Grade: D] and EDUC 350 [Min Grade: D] and EDUC 351 [Min Grade: D] and EDUC 352 [Min Grade: D] and EDUC 353 [Min Grade: D]

EDUC 416 Introduction to Math Teaching Methods (4-8) 3.0 Credits
This course provides an introduction to learning and teaching mathematics to students in grades 4-8. Emphasis will be on fundamental ideas of number, operation and measurement. This course requires additional field experience.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 417 Advanced Math Teaching Methods (4-8) 3.0 Credits
In this course, students will view mathematics from the perspective of a teacher; how to represent topics to learners in meaningful ways, analyze a learner’s reactions to mathematics instruction, and how to select activities that allow the learners to construct meaning, rather than memorize rules and procedures. This course requires additional field-based hours.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 416 [Min Grade: D]

EDUC 428 Cultural and Historical Significance of Mathematics 3.0 Credits
This course provides mathematics content and pedagogy for the teacher preparation program. Course is part of a state approved certification program.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 432 Algebraic Reasoning 3.0 Credits
This course provides middle school teachers with mathematical ideas of algebraic reasoning. Topics include understanding of multiplicative reasoning, integer addition and rational multiplication as algebraic operations, identity and inverse properties. Emphasis will be placed on the processes of thinking, doing, explaining writing and revising.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 433 Functions in Middle School Math 3.0 Credits
This course is structured to introduce specific content knowledge using a variety of activities and conceptual problems that can be implemented in the middle school classroom. Emphasis will be placed on the process of thinking, doing, explaining, writing and revising mathematics.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 436 Distance Learning 3.0 Credits
This course is intended to address issues surrounding distance learning and pedagogy, and help teachers become more intelligent creators of, more informed participants in, and all-around better users of distance education tools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 475 Special Studies in Teacher Education 12.0 Credits
Covers various topics of particular interest to teacher education students.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit
Restrictions: Cannot enroll if classification is Freshman

EDUC 499 Independent Study in Teacher Education 0.5-12.0 Credits
Covers various topics of particular interest to teacher education students, explored individually under guidance from instructional team member.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit
Restrictions: Cannot enroll if classification is Freshman

Minor in Education
The minor in education provides a structured academic opportunity for students who wish to add a fundamental understanding of the field of education as well as practical knowledge in the art and science of teaching and learning to their undergraduate experience.

Designed for students with a strong interest in education and training, the minor will not necessarily lead to the student being recommended for a state teaching certificate. However, should a student decide to also pursue a teaching certificate as a component of his or her major—or in post-baccalaureate work—the courses required for the minor are applicable to Pennsylvania State certification.

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 142</td>
<td>Special Education Foundations: Referral and Assessment</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 246</td>
<td>Literacy and Content Skill Development PreK-8</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 101</td>
<td>Foundations in Education I: A Historical and Philosophical Perspective</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 120</td>
<td>Child Development I: Typical Development</td>
<td>3.0</td>
</tr>
<tr>
<td>or EDUC 123</td>
<td>Adolescent Development</td>
<td></td>
</tr>
<tr>
<td>EDUC 216</td>
<td>Diversity and Today’s Teacher</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 322</td>
<td>Evaluation of Instruction</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 324</td>
<td>Current Research in Curriculum &amp; Instruction</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 325</td>
<td>Multimedia in Instructional Design</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits 24.0
The School of Education

The School of Education (http://www.drexel.edu/soe) seeks to enrich knowledge and practice related to lifespan learning, based on the most current and appropriate research and practice. The School’s goal is to improve human understanding through programs and activities that emphasize creative uses of human effort, technology, leadership, and problem solving.

This department offers an extensive and comprehensive array of diverse graduate, doctoral, and certificate programs that encompass all aspects of the educational field. These programs prepare non-traditional students for a variety of careers in human resource development, higher education, global and international education, learning technologies, educational administration, policy and leadership.

The School also offers Pennsylvania Department of Education-approved programs to certify students who already hold bachelor’s degrees to be teachers in elementary education (grades PreK-4 with an emphasis on mathematics, science, and technology), secondary education (in biology, chemistry, earth and space science, English, general science, mathematics, physics or social studies), and K-12 (environmental education, instructional technology specialist, and library science). Special education, teaching English as a second language, principal and superintendent certifications are also available. Individuals who complete the minimum requirements receive a PA Instructional I teaching certificate and have the option to continue coursework to fulfill requirements in the graduate Science of Instruction or teaching learning and curriculum (initial certification track) master’s degree programs.

Other master’s degree programs are also available to those who already have teacher certification and/or do not wish to obtain a teaching certificate. Students who would like to pursue the teaching English as a second language, special education, principal or superintendent certification must already have Pennsylvania Instructional I certification, satisfactory professional school experience on a state-issued certificate appropriate for the assignment, or appropriate equivalent.

 Majors

• Applied Behavior Analysis (MS)
• Creativity and Innovation (MS)
• Education Improvement and Transformation (MS)
• Educational Administration (MS)
  • Special Education Leadership Concentration
• Educational Leadership and Management (EdD)
• Educational Leadership Development and Learning Technology (PhD)
• Global and International Education (MS)
• Higher Education (MS)
• Human Resource Development (MS)
• Learning Technologies (MS)
• Mathematics Learning and Teaching (MS)
• Special Education (MS)
• Teaching, Learning and Curriculum (MS)

 Certificates

• Adult Education
• Advanced Teaching/Curriculum

 Resource Centers

The centers at the School of Education represent a variety of educational, professional, and public service divisions. Each distinct entity provides programming, services and, resources designed to creatively meet your individual needs.

The Center for the Prevention of School-Aged Violence promotes public awareness about the need for youth-focused, evidence-based efforts aimed at preventing youth violence and the social and cognitive skills young people need to prevent violence on their own.

The Evaluation Research Network is a community of experienced researchers, committed to developing and implementing effective strategies and technologies for assessing and evaluating instruction and educational programs.

The Math Forum is the leading online resource for improving math learning, teaching, and communications since 1992.

The Torrance Center for Creative Studies was established as an outgrowth of the research of E. Paul Torrance, internationally renowned
Advanced Teaching/Curriculum Certificate

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Graduate
Number of Credits to Completion: 18.0
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible

The Advanced Teaching/Curriculum Certificate program (ATCC) meets the needs of in-service teachers in a variety of educational settings who seek advanced knowledge beyond that required for initial teacher certification in the areas of effective instruction, curriculum and assessment.

Upon completion of the ATCC, candidates will possess knowledge of the many facets of education.

• In-depth understanding of varying educational organizations and sectors
• Expertise in developing, analyzing, implementing and evaluating instructional strategies
• Ability to exhibit leadership
• Organizational, cross cultural, interpersonal, advocacy, and communication skills

In addition, the ATCC program will provide candidates opportunities to explore a variety of other roles in an educational setting including:

• Instructional leaders both in and beyond the classroom
• Researchers in local, state, national, or international organizations
• Professionals in foundations, associations, corporations, and private education institutions.

EDUC 530 Advanced Techniques in Instruction & Assessment 3.0
EDUC 533 Designing Virtual Communities 3.0
EDUC 537 Learning Disabilities II 3.0
EDUC 608 The Intercultural Learner 3.0
EDUC 714 Instructional and Curriculum Leadership 3.0
EDUC 813 Educational Issues Seminar 3.0

Total Credits 18.0

Certificate in Autism Spectrum Disorders

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 16.5
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Aid eligible

Within the past decade, the number of children diagnosed with autism or Asperger’s syndrome has increased drastically. Consequently, the need for professionals trained in this critical-need area has significantly increased. This certificate is designed for those who seek additional expertise in this critical-need area. Students who complete the graduate-level Certificate in Autism Spectrum Disorders program are equipped with the fundamental skills, knowledge, teaching methods, interventions, and supports needed to work with students with autism and Asperger’s syndrome.

The program is a part-time graduate program consisting of 5 courses (16.5 credits). Teacher certification is not a requirement for admission to this program, however applicants are expected to have completed a bachelor’s degree. Upon completion of the program, students with an active PA Instructional I or Instructional II teaching certificate are eligible for the Pennsylvania Department of Education Autism Spectrum Disorders Endorsement.

Admission Requirements

Students applying to this program should have the following:

Certificate in Adult Education

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Graduate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
• Bachelor's degree from a regionally accredited institution.
• Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
• Completed graduate school application.
• Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
• Two letters of recommendation - professional or academic.
• An essay describing why the applicant is interested in pursuing graduate study in this field.

Introductory Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 551</td>
<td>Pervasive Developmental Disorders (pre-requisite for core courses)</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 556</td>
<td>Characteristics &amp; Methods: Autism</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 558</td>
<td>Characteristics &amp; Methods: High Functioning Autism</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 560</td>
<td>Communication &amp; Language Interventions: Autism Spectrum Disorders</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 562</td>
<td>Behavior &amp; Sensory Support: Autism Spectrum Disorders</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits 16.5

A field component is required in each course.

Additional Information:

For more information about this program, contact the program manager:
Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Certificate in Community College Administration and Leadership

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Graduate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

The certificate in community college administration and leadership is an option for students and professionals who have already completed a bachelor's degree and would like to enhance their professional credentials without pursuing a master's degree.

The certificate in community college administration and leadership is an option for students and professionals who have already completed a bachelor's degree and would like to enhance their professional credentials without pursuing a master's degree.

Additional Information

For additional information, visit Drexel University's Higher Education, Administration and Leadership (http://drexel.edu/soe/academics/graduate/higher-education) page.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 500</td>
<td>Foundations of Higher Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Certificate in Creativity and Innovation

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Certificate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

The graduate-level certificate in creativity and innovation provides, in a concentrated format, the most contemporary knowledge and skills needed in this important area for students who do not wish to pursue a master's degree but who would value a credential that demonstrates their learning. Credits from the certificate can be applied toward an MS in Professional Studies (http://www.drexel.com/online-degrees/business-degrees/ms-prof-studies) or the MS in Creativity and Innovation (http://www.drexel.com/online-degrees/business-degrees/ms-creativity-innovation).

In a world of increasing complexity, change, and competition, generating new ideas and bringing them to the table is now essential for corporate management. Creativity is multidisciplinary — it is in all professional fields from chemistry to engineering, from education to computer science, and from sociology to business. Successful organizations, in all fields, view creativity as vital and are the ones that instill creativity throughout the organization. The application of creativity skills distinguishes managers who maintain the status quo from leaders who inspire a new direction or vision. By internalizing the spirit of creativity and the principles of creative problem solving, individuals can be transformed into change leaders.

Upon completion of the certificate program, students will have formed an in depth understanding of creativity, enhanced communication, creative problem solving, and how these may be applied to practical situations that further their workplace culture. Participants will use their newly enhanced creative thinking skills to reflect critically on existing workplace practices and express coherent and cogent ideas and suggestions for continuous improvement.

For more information, visit Drexel Online's Graduate Certificate Creativity and Innovation (http://www.drexel.com/online-degrees/business-degrees/grad-cert-creativity) web page.

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRTV 501</td>
<td>Foundations in Creativity</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 502</td>
<td>Tools and Techniques in Creativity</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 503</td>
<td>Creativity in the Workplace</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 610</td>
<td>Creativity and Change Leadership</td>
<td>3.0</td>
</tr>
</tbody>
</table>
Certificate in E-Learning Leadership

Certificate Level: Graduate
Admission Requirements: Bachelor's
Certificate Type: Graduate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

The graduate certificate in e-learning leadership is designed to meet the needs of today's working professionals across many fields. As the demand for academic programs and courses to be delivered via e-learning continues to grow, the corresponding need for leadership in this important area increases. Similarly, corporations continue to seek leaders to oversee training and development initiatives via e-learning.

This certificate provides, in a concentrated format, the most contemporary knowledge and skills needed in this important area for students who do not wish to pursue a master's degree but who would value a credential that demonstrates their learning.

Admission requires a bachelor's degree from an accredited institution. Credits from the certificate in e-learning leadership can be applied toward an MS in Professional Studies (http://www.drexel.com/online-degrees/business-degrees/ms-prof-studies).

Objectives

Upon completion of the program, students will have formed an in-depth understanding of online and distance learning theories and will be able to answer the following paramount questions:

- Which emerging technologies hold greatest promise for enriching learning experiences throughout the educational enterprise?
- What pedagogical strategies should designers embody in instructional materials, including those based on multimedia and those reflected in gaming environments?
- How should educators deploy, manage, and evaluate information and communication technologies in classrooms for optimal educational effect?
- What principles of design and practice should educators incorporate into distributed educational courses and programs?

For more information, visit Drexel Online's Graduate Certificate in E-Learning (http://www.drexel.com/online-degrees/business-degrees/cert-elearning) website.

Certificate in Educational Policy

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Certificate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible

The certificate in educational policy examines the concept of "policy" as it relates to education and educational institutions and their governance and practices. Students will learn the factors involved in educational policy-making, including the ethics in policy-making decisions, and the methods for analyzing phenomenon that impact educational policy.

The program is designed to prepare educators of all types in the decision-making process of educational policy development.

Requirements

EDPO 620  Education Policy: Concepts, Issues, and Applications  3.0
EDPO 624  Shaping of American Education Policy: Global Forces  3.0
EDPO 628  American Educational Policy and U.S. Competitiveness  3.0
EDPO 632  Ethics in Educational Policy Making  3.0
EDPO 636  Access & Equity in Educational Policy Making  3.0
EDPO 640  Educational Policy-Making Tactics & Influence  3.0

Total Credits  18.0

Certificate in Human Resource Development

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Certificate
Number of Credits to Completion: 18.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

Note: Effective Summer Term 2015, students are no longer being accepted into this certificate program.

The certificate in human resource development prepares professionals in the field of education with the skills they need to strategically lead human resource development and align organizational learning with organizational goals.

Required Courses

EDHE 660  Principles of Adult Education  3.0
EHRD 500  Foundations of Human Resources Development  3.0
EHRD 600  Organizational Consulting  3.0
EHRD 601 Leading and Evaluating Change 3.0
EHRD 606 Human and Organizational Performance 3.0
EHRD 608 Evaluating the Value & Impact of Human Resource Development Interventions 3.0

Total Credits 18.0

Certificate in Instructional Design

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 27.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Aid eligible

The Instructional Design Certificate prepares students to apply the principles, theories, models, tools, and techniques of systematic instructional design in diverse organizational settings. It is appropriate for students from varied professional backgrounds seeking careers that utilize the systematic design and development of effective instruction either in physical facilities, online, or blended environments. This includes individuals preparing to be professional instructional designers, teachers, and other learning design professionals for PK-20 education, adult education, and workplace training. It specifically addresses the needs of the millennial learner and collaborative, networked communities. Students are encouraged to integrate their professional experiences and engage co-learners from other environments in their explorations.

The outcomes of candidates who successfully complete the Instructional Design Certificate will be to:

- create effective learning artifacts using a variety of media and methods including social media via mobile devices;
- design an effective instructional development plan that meets the needs of various stakeholders;
- collaborate with and lead a team of talented contributors to create an instructional product resulting in an effective and efficient outcome;
- design and integrate virtual community processes into learning environments;
- design effective learning experiences for online and blended students using tools and methods specific to these environments;
- apply knowledge from the quickly evolving field of learning science to the design process;
- create effective technology-enhanced instruction that includes analysis, design, development, implementation and evaluation;
- recognize and adapt learning environments, tools, methods, and strategies to engage and optimize learning for disabled populations;
- negotiate an effective instructional design and development initiative that meets the needs of a real client; and
- plan, develop, evaluate, and manage the rapid design/development of effective instructional materials.

Admission Requirements

Applicants for the program will follow the University standards for admission to graduate study. Prospective students must minimally have earned a bachelor’s degree from an accredited institution and have an undergraduate GPA of 3.0 or higher to be considered for admission (graduate degree GPAs will be considered along with the undergraduate GPA). In addition, prospective students are required to submit the following:

a) Completed Application Form including official transcripts from all universities or colleges attended
b) Two letters of recommendation
c) Personal essay
d) Resume
e) Application fee

The Program Manager will evaluate the applicant’s potential and commitment to succeed in graduate study seeking advise from the Program Director in cases where evidence is not clear. The applicant’s potential to contribute to the overall quality of the program of study will also be considered. An Interview/Intake Advisement session for those candidates who pass the initial screening.

Decisions will be made using dates corresponding to the regular University schedule for rolling admissions in Graduate Admissions.

Program Requirements

Required Core Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 536</td>
<td>Learning Sciences and Instruction Design</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 550</td>
<td>Introduction to Instructional Design</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 554</td>
<td>Learning with Social Media and Mobiles</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 502</td>
<td>E-Learning Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 504</td>
<td>Learning Technologies &amp; Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 532</td>
<td>Designing Virtual Communities for Staff Development - Non-Field Experience</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 811</td>
<td>Designing and Developing Multimedia Applications For Learning</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Required Capstone Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 539</td>
<td>EDLT Co-op Seminar Course I</td>
<td>1.5</td>
</tr>
<tr>
<td>EDLT 540</td>
<td>EDLT Co-op Seminar Course II</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Total Credits 27.0

Certificate in Learning in Game-Based Systems Environments

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Certificate
Number of Credits to Completion: 27.0
Instructional Delivery: Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

The certificate in learning in game-based system environments prepares educators to effectively use educational games in and out of the classroom and training center. The program provides an overview of game development processes, enables participants to build basic games, and most importantly, examines how to assess and evaluate the learning experience as it relates to educational games.

The certificate program culminates with a capstone project in which students produce their own basic educational game and subsequently formulate an evaluative process to address its effectiveness.
Certificate in Math Leadership & Coaching

Certificate in Mathematics Learning & Teaching

Certificate in Museum Education
managers, and exhibit researchers in various foundations, corporations, and associations such as museums, cultural centers, informal education institutions, human services agencies, non-governmental agencies, as well as US government agencies such as the Smithsonian Institution.

The program is a flexible, convenient part-time program and is enhanced by Drexel University’s partnership with the Academy of Natural Sciences (http://www.ansp.org).

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSM 500</td>
<td>Foundations of Informal Education in Museum Settings</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSM 504</td>
<td>Current Research in Museum Design and Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSM 505</td>
<td>Evaluation of Learning in Museum Settings</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSM 506</td>
<td>Technology in Museum Education</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSM 508</td>
<td>Meeting the Educational Needs of Diverse Museum Audiences</td>
<td>3.0</td>
</tr>
<tr>
<td>MUSM 510</td>
<td>Designing and Evaluating Museum Tours: A Practicum</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Credits** 18.0

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**Certificate in Student Development and Affairs**

Certificate Level: Graduate  
Admission Requirements: Bachelor's degree  
Certificate Type: Graduate  
Number of Credits of Completion: 18.0  
Instructional Delivery: Online  
Calendar Type: Quarter  
Estimated Time to Completion: 2 years  
Financial Aid Eligibility: Not aid eligible

The certificate in student development and affairs is an option for students and professionals who have already completed a bachelor's degree and would like to enhance their professional credentials without pursuing a master's degree.

**Additional Information**

For additional information, visit Drexel University's Higher Education, Administration and Leadership (http://drexel.edu/soe/academics/graduate/higher-education) page.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 500</td>
<td>Foundations of Higher Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 520</td>
<td>Student Development &amp; Customer Service Management</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 530</td>
<td>Higher Education Law</td>
<td>3.0</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9.0</td>
</tr>
<tr>
<td>EDHE 652</td>
<td>Enrollment Marketing, Recruitment &amp; Retention</td>
<td></td>
</tr>
<tr>
<td>EDHE 662</td>
<td>Critical Issues in Student Affairs</td>
<td></td>
</tr>
<tr>
<td>EDHE 663</td>
<td>Safety and Crisis Management</td>
<td></td>
</tr>
<tr>
<td>EDHE 669</td>
<td>Diversity in Higher Education</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits** 18.0

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**Doctor of Education in Educational Leadership and Management**

*Doctor of Education (EdD): 60.0 quarter credits*

**About the Program**

The Doctor of Education degree in Educational Leadership and Management program is designed to prepare future leaders with the necessary skills and experience for senior administration and management positions.

Students can specialize in Educational Administration (Superintendent Certification), Higher Education, Educational Policy, Human Resource Development, Special Education Leadership, Athletic Administration or Creativity & Innovation. Regardless of chosen concentration, the program focuses equally on the understanding and critical analysis of both practice and theory.

**Mission**

The mission of the EdD program in Educational Leadership and Management is to prepare graduates with the foremost education and business skills related to administration, management, finance, and strategic planning to successfully lead public school districts, universities and colleges, national foundations and organizations, corporations, and government agencies. The EdD program will prepare graduates for leadership roles in improving educational practice and applying management skills to the field of education.

**About the Curriculum**

The EdD program incorporates an interdisciplinary approach into the curriculum through the collaborative partnerships. The EdD program integrates education and business practices, skills, knowledge and theory into the curriculum, courses and instructional strategies. Students engaged in best practices, current research, and innovations in technology for enhanced instruction.

Recognizing that all practice has a theoretical dimension and all theory springs from questions identified through practice, the students in the EdD program will critically examine their own practices and the practices of their colleagues from a variety of theoretical perspectives.

The program is offered through a blended delivery system combining both on-campus classes and online education. All on-campus courses have an online component. The other option is a fully online program.

For additional information about this program, visit the School of Education's Graduate (https://webedit.drexel.edu/soe/academics/graduate) web site.

**Admission Requirements**

**Application Requirements for New Applicants**

For details regarding the items below please review the Admission Application Checklist (http://www.drexel.edu/grad/apply/checklist).

- Transcripts from all colleges and universities attended verifying completion of a master's degree (with 3.5 GPA or better) in education or an appropriate field and undergraduate degree in an appropriate major.
• Résumé indicating at least 3 years of work experience relevant to applicant's professional goals
• Three letters of recommendation: Use the Electronic Letter of Recommendation (https://deptapp.drexel.edu/em/LOR) form to submit recommendation letters
• Essay: Discuss professional goals and aspirations, including how current skills, along with advanced study of educational leadership, will be of support in the attainment of those goals.
• Writing sample: Submit a 5- to 30-page writing sample that demonstrates writing abilities and potential success in the program. Examples include, but are not limited to, a journal article, a paper written for a class, or a manual or technical report.
• Interview: at the discretion of the application review team.

Supplemental Application Materials for New Applicants
To make your application more competitive, applicants are encouraged to submit two (2) or more of the following items:
• Detailed statement describing sustained Leadership Activities
• Detailed statement describing significant Creative Activities/Products
• Detailed statement describing significant Research Activities/Publications
• GRE or MAT scores

Additional information about how to apply is available on the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/programs/edu/educational-leadership-and-management) website.

Degree Requirements
Students in the EdD program are required to complete core courses including education courses and MBA courses. Students complete courses within their areas of specialization prior to completing required research courses. At that point, students begin the dissertation phase of the EdD program.

EdD Candidacy Requirements
In summary, the sequence of events leading to the EdD candidacy include the following:
• All courses must be passed with a grade of B or better.
• In the fifth quarter, the comprehensive exam must be passed.
• In the ninth quarter, the dissertation proposal must be approved by committee (proposal hearings; filing of the D4 and 4A forms upon approval. At this point students have completed 54.0 of the 60.0 credits required in the program.)
• In terms 10-12, students register for Dissertation. As per the current policy, students pay one credit of tuition but register for multiple credits. A minimum of two credits are needed in the twelfth quarter to accrue the needed 60.0 credits.

Required Courses

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<thead>
<tr>
<th>Core Courses</th>
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<tbody>
<tr>
<td>BUSN 501</td>
<td>Measuring and Maximizing Financial Performance</td>
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<tr>
<td>BUSN 502</td>
<td>Essentials of Economics</td>
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<tr>
<td>EDUC 800</td>
<td>Educational Leadership &amp; Change</td>
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<td>EDUC 802</td>
<td>Using and Integrating Learning Technologies</td>
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<td>EDUC 804</td>
<td>Program Evaluation in Organizations</td>
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<td>ORGB 625</td>
<td>Leadership and Professional Development</td>
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<th>Concentration Course Options (See Below)</th>
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<tr>
<td>Research Courses</td>
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<tr>
<td>EDUC 803</td>
<td>Educational Research Design I</td>
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<td>EDUC 810</td>
<td>Educational Research Design II</td>
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<td>EDUC 815</td>
<td>Writing for Research, Publication and Funding in Education</td>
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<td>EDUC 818</td>
<td>Applied Research Study</td>
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<td>EDUC 835</td>
<td>Quantitative Research Methods and Data Analysis</td>
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<tr>
<td>EDUC 836</td>
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<td>EDUC 880</td>
<td>Doctoral Seminar</td>
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<th>EdD Candidacy Courses</th>
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<tr>
<td>EDUC 998</td>
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<tr>
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<td>EDHE 500</td>
<td>Foundations of Higher Education</td>
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<td>EDHE 510</td>
<td>Governance, Management &amp; Administration in Higher Education</td>
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<td>EDHE 530</td>
<td>Higher Education Law</td>
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<td>EDHE 669</td>
<td>Diversity in Higher Education</td>
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<td>EDGI 506</td>
<td>Comparative Higher Education Systems</td>
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<th>Higher Education Concentration (alternative)</th>
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<tr>
<td>EDAE 601</td>
<td>Foundations of Adult Education</td>
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<td>EDHE 634</td>
<td>Proposal Writing &amp; Sponsored Project Management</td>
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<tr>
<td>EDHE 640</td>
<td>Foundations of Institutional Research</td>
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<tr>
<td>EDHE 646</td>
<td>Survey Tools, Statistical Software &amp; Effective Reporting</td>
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<td>EDHE 664</td>
<td>Strategies for Educational Success</td>
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<tr>
<th>Educational Administration (Pennsylvania Superintendent Certification)</th>
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<tr>
<td>EDEX 712</td>
<td>Instructional &amp; Curriculum Leadership in Special Education</td>
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<tr>
<td>EDUC 817</td>
<td>Curriculum Models</td>
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<tr>
<td>EDUC 820</td>
<td>School Superintendency</td>
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<tr>
<td>EDUC 824</td>
<td>Parents and Schools</td>
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<td>EDUC 827</td>
<td>School Superintendent's Internship: Curriculum Models</td>
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EDUC 828 School Superintendent's Internship: Parents and Schools 1.0
EDUC 829 School Superintendent's Internship III 1.0
EDUC 830 School Superintendent's Internship IV 1.0

Total Credits 16.0

** For students entering the program with a strong background in Higher Education who are looking for an extension of their previous studies:

** Athletic Administration Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>SMT 601</td>
<td>Sports Industry Management</td>
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<tr>
<td>SMT 602</td>
<td>Sport Law &amp; Risk Management</td>
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<tr>
<td>SMT 606</td>
<td>Contemporary Issues in Sport</td>
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<tr>
<td>SMT 612</td>
<td>Development &amp; Fundraising Strategies in Sport</td>
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<tr>
<td>SMT 635</td>
<td>Sport Facilities &amp; Event Management</td>
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Total Credits 15.0

** Students with an MS in Human Resource Development are not required to take EHRD 500.

** Human Resource Development Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>EHRD 500</td>
<td>Foundations of Human Resources Development *</td>
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<td>EHRD 601</td>
<td>Leading and Evaluating Change</td>
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<tr>
<td>EHRD 602</td>
<td>Coaching and Mentoring for Sustainable Learning</td>
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<td>EHRD 604</td>
<td>Development of Human Resources</td>
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<td>EHRD 606</td>
<td>Human and Organizational Performance</td>
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Total Credits 15.0

** Educational Policy Concentration

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<th>Title</th>
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<tbody>
<tr>
<td>EDPO 620</td>
<td>Education Policy: Concepts, Issues, and Applications</td>
<td>3.0</td>
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<tr>
<td>EDPO 624</td>
<td>Shaping of American Education Policy: Global Forces</td>
<td>3.0</td>
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<tr>
<td>EDPO 628</td>
<td>American Educational Policy and U.S. Competitiveness</td>
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<tr>
<td>EDPO 632</td>
<td>Ethics in Educational Policy Making</td>
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<tr>
<td>EDPO 636</td>
<td>Access &amp; Equity in Educational Policy Making</td>
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Total Credits 15.0

** Creativity & Innovation Concentration:

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<tr>
<td>CRTV 501</td>
<td>Foundations in Creativity</td>
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<tr>
<td>CRTV 502</td>
<td>Tools and Techniques in Creativity</td>
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<tr>
<td>CRTV 503</td>
<td>Creativity in the Workplace</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 620</td>
<td>Research Methods and Assessment of Creative and Innovative Thinking</td>
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<tr>
<td>CRTV 630</td>
<td>Global Perspectives on Creativity</td>
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</table>

Total Credits 15.0

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroutis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.
John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs.

Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation.

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.
Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

**Interdepartmental Faculty**

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

**Emeritus Faculty**


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

**Courses**

**EDUC 505 Instructional Systems Design 3.0 Credits**

This course explores and offers in-depth analysis of relevant theories relating to contemporary application of Instructional Systems Design. The purpose is to provide the student with theoretical, experimental and critical perspectives on instructional design as it is applied in a number of educational venues.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**EDUC 506 Assessment of Young Learners 3.0 Credits**

Candidates will demonstrate a thorough understanding of the role of the assessment process in early childhood education. The content will provide graduate candidates with an in-depth review of informal evaluation procedures and classroom-based data collection strategies for young children in inclusive early child care and education settings.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDUC 521 [Min Grade: C]

**EDUC 510 Computer Applications In Teaching 3.0 Credits**

Analyzes issues concerning uses of computing in instruction. Evaluates the microcomputer as an instructional aide in elementary and secondary classroom instruction. Provides hands-on experience with applications in students’ subject matter fields to develop competence in selecting and integrating appropriate instructional software for computers found in today’s classrooms, with particular focus on the Macintosh.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**EDUC 511 Computer Skills for Teachers 3.0 Credits**

Presents major instructional design concepts students will use in developing their own curricular materials. Describes and discusses various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment. Primarily uses the Macintosh microcomputer and appropriate authoring systems. Provides extensive hands-on instruction and experience using various authoring systems to create many different kinds of instructional tools. Students must be experienced with the Macintosh.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDUC 510 [Min Grade: C]

**EDUC 512 Focus on World Geography 3.0 Credits**

Through the study of geography, students will be encouraged to find a meaningful framework for understanding the system of human culture on Earth and become familiar with the vast interactive system involving humanity and its natural environment.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**EDUC 513 Elementary Science Teaching Methods 3.0 Credits**

Methods for teaching elementary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**EDUC 514 Science Teaching Methods 3.0 Credits**

This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit
EDUC 515 Adolescent Learners in Secondary Schools 3.0 Credits
Enables student to understand the organizational structure of high school programs as related to the diverse needs of the adolescent learner. Students will acquire competence in designing learner-oriented communities of practice in the classroom to foster achievement and overall well-being of the secondary learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 516 Diversity and Today’s Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations (and strategies for).
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 517 Math Methods & Content: Early Childhood PK-4 3.0 Credits
Candidates will develop an in-depth understanding of how to effectively deliver standards-aligned academic math content-based on age appropriate understanding and individual and group needs including an appreciation and respect for the individual differences and unique needs of all children in the PK-4 setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 518 Mathematics: Method & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expecting to work, noting the error and correction process as well as gaining an awareness of student's difficulties in mathematics.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 519 Teaching Secondary Mathematics 3.0 Credits
The course focuses on major issues in learning and teaching mathematics in the secondary classroom. Topics will include instructional practices, learning theories, assessment and current research in math. This course also includes multimedia and field-based experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 520 Professional Studies in Instruction 3.0 Credits
For students who lack professional-level classroom teaching in grades K to 12. Examines and develops skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, and identification of instructional resources. Discusses current principles of developmental and learning theories and instructional design applied to teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 521 Typical and Atypical Development in Early Childhood Education 3.0 Credits
This course addresses the multifaceted complexities of typical and atypical child development, through the discussion of classic and emerging theories. The primary aim of the course is to foster the students’ ability to recognize and apply the connections among developmental domains and of theory and research with educational practice. The readings and class assignments make use of research-based, real-world, and cross-cultural examples.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 522 Evaluation of Instruction 3.0 Credits
Enables the student to acquire competence in evaluation techniques including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. The course covers qualitative and quantitative assessment used in measuring student achievement. Techniques for grading will also be explored.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 523 Diagnostic Teaching 4.0 Credits
Focuses on teaching that attempts to identify the student's level of performance and all the relevant information that contributes to that performance. Involves analysis of material to be learned and implementation of instruction that integrates the learner's cognitive and emotional development with the appropriate part of the knowledge or task to be learned. Investigates various learning styles, including field-dependent/independent, convergent/divergent thinking, right/left brain activity, reflective/impulsive personalities, risk-taking/cautious, and attention to locus of control. Includes analysis and application of generic influences on cognitive, social, emotional, psychomotor, and physical aspects of learning. Investigates curriculum in terms of its psychological nature and selection and development of instructional strategies that enhance learning and prevent learning problems. Provides opportunities to work with elementary and secondary school students in the Drexel Diagnostic Mathematics Learning Laboratory.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 524 Current Research in Curriculum & Instruction 3.0 Credits
Examines the relationship of curricula and instruction to current research in learning and knowledge construction, developing higher-order thinking in specific disciplines and content areas, and the role of understanding and metacognition in learning. Complex problems of pedagogy are identified and analyzed (e.g., interdisciplinary curricula, team teaching, collaborative learning), with attention to designing learning goals and outcomes with effective instructional strategies.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 525 Multi-Media Instructional Design 3.0 Credits
Investigates learning theory and its implications for interactive multimedia formats, including the relationship of instructional design principles to selection of media elements (text, video, sound, animation, and graphics) for high-quality design. Examines human-computer interface principles, navigation features, and visual thinking using a wide range of educational software examples. Criteria for software assessment and virtual classrooms are reviewed. Students design and write a software prototype as a group design project. Complex issues and concepts in technology and education are analyzed.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 526 Language Arts Processes 3.0 Credits
Applies contemporary research to processes and problems in teaching oral and written communication, with the basic assumption that listening, speaking, writing, and reading are integrated processes and should be taught as such. Covers analysis and use of instructional strategies for teaching developmental reading and writing, reading and writing in content areas, written correspondence, research reports, journal writing, poetry, and appreciation of children's literature.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 527 Understanding Learning Disabilities 3.0 Credits
Addresses learning disability issues including types of learning disabilities and related general approaches to the assessment and treatment of them. Specific disorders discussed include dyslexia, dyscalculia, attention deficit hyperactivity disorder, social cognition deficit, and disorders of language and hearing.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 528 Cultural and Historical Significance of Mathematics 3.0 Credits
The course explores how mathematics reflects and influences the ideas and movements in culture, history, biography and philosophy. An emphasis on teaching methods is integrated throughout the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 529 Early Literacy 3.0 Credits
Course examines research-validated literacy instruction and literacy interventions. Topics include: phonics, fluency, comprehension, vocabulary, and the reading-writing connection. Significant emphasis is placed on the socio-cultural aspects of reading: appreciating linguistic diversity, integrating cultural narratives, building reading communities, and motivating children through authentic reading and writing experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 530 Advanced Techniques in Instruction & Assessment 3.0 Credits
Major professional and educational issues associated with college teaching are addressed. Provides multiple opportunities to develop and enhance teaching skills, as well as exposure to alternative assessment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 531 College Teaching & Communication Skills 1.0 Credit
This course addresses critical issues in college teaching and communication skills. These are: what is learning, comparative philosophies of education, understanding the adult learner, best practices in integrating technology to enhance learning, methods of evaluation student learning including performance-based assessments and foundations for effective oral and written communication.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers, administrators, librarians, and other professionals in schools responsible for technology and professional development. Online discussion groups, video conferencing, and web-based instruction will be used to form a virtual learning community. There is no field experience component in this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is HRD.

EDUC 533 Designing Virtual Communities 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers and other professionals responsible for technology and professional development. Online discussion groups, video conferencing, and Web-based instruction will be used to form a virtual learning community. This course includes a 20-hour internship for ITS certification.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 534 Developing Educational Leaders Using Technology 3.0 Credits
Addresses leadership and team building competencies that instructional technologists need to work collaboratively with teachers, administrations, parent groups, and the community. Will use technologies that facilitate communication and team building. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 525 [Min Grade: B]

EDUC 535 Researching & Evaluating Instructional Technology 3.0 Credits
Course will focus on teaching and learning technology standards, general applications of technology and basic technology and skills. Will examine and critique educational software and learning technologies, and through research, develop criteria for technology. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 536 Distance Learning 3.0 Credits
The course explores pedagogical issues in distance learning. Readings are integrated with hands-on use of the tools used to create distance learning programs.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 537 Learning Disabilities II 3.0 Credits
The course focuses on how to manage instruction for students with special needs in the inclusive classroom.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 538 English Teaching Methods 3.0 Credits
This course is designed to support the development of pre-service teachers in the secondary English/Language Arts Classroom. Students will be provided opportunities to integrate and apply theories of learning, curriculum and pedagogy of English and L. Arts in the secondary classroom. Additional classroom-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 539 Expressive Arts 3.0 Credits
The focus of this graduate course is to teach future educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts), into the PK-4 classroom. Through observation, curriculum development and assessment, educators will be able to identify, administer, interpret and plan instruction for PK-4 learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 540 Field Experience 3.0 Credits
Provides supervised field experience at a cooperating school designed to develop skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, identification of instructional resources, and applications of current research on effective teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 555 Social Studies Teaching Methods 3.0 Credits
Course prepares the preservice teacher in making appropriate decisions about students and instructional processes in the social studies classroom. Perceptions and perspectives as it relates to social studies instruction in the following areas are explored: curriculum standards, unit development, assessment design and construction, interdisciplinary/ integrated curriculum planning, specific group strategies, individualizing techniques, instructional technology, and professional development.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 558 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students' reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 559 Expressive Arts 3.0 Credits
The focus of this graduate course is to teach future educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts), into the PK-4 classroom. Through observation, curriculum development and assessment, educators will be able to identify, administer, interpret and plan instruction for PK-4 learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 560 Conflict and Dispute Resolution 3.0 Credits
Examines the concept of conflict and means for its resolution as it occurs between individuals and within organizations. Provides foundational knowledge for professionals practicing in many fields and industries to resolve conflicts in positive ways. Students will examine obvious and hidden organizational conflict and the dispute resolutions systems available to resolve these issues. Includes skill development techniques for dispute resolution to apply learned knowledge.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 561 Mediating and Resolving Conflict in School Settings 3.0 Credits
Current theory and research in the field of conflict resolution and mediation with focus on becoming familiar with evidence-based strategies applicable to challenging environments.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 565 Futures Studies in Education and the Workplace 3.0 Credits
Course explains and analyzes the field of futures studies including overview of the origins of futures studies, study of how futures studies methods are and can be utilized in education and a range of other industries, and techniques for developing strategic forecasts and plans. A critical approach is taken to enable an analysis of the field's strengths and weaknesses.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 566 Foundations in Instructing English Language Learners 3.0 Credits
This is a foundations course to prepare all pre-service teachers to work with English Lang. Learners. Focus will be on gaining an understanding of the linguistic, social and academic needs of ELLs and the roles and responsibilities of the classroom teacher in meeting those needs. Field-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 566 Futures Studies in Education and the Workplace 3.0 Credits
Course provides understanding of effective Social Studies methods in secondary classrooms. History of pedagogical debates within Social Studies, is examined to incorporate effective Social Studies teaching methods. Careful attention is given to the Common Core Standards for Social Studies. Requirements include 30 hours of field experience in a school setting to include at least two lessons taught independently. In order to participate students must have the necessary background clearances.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 515 [Min Grade: B]

EDUC 568 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students' reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 601 Language, Learning and Teaching Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 602
EDUC 602 Language Learning & Teaching 3.0 Credits
This course introduces participants to foundational theory in both first and second language acquisition and instruction. The course explores how learners acquire language, what influences the learning process, and how instruction best aids that process. A practicum component includes observations of classrooms and tutorials of English language learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 603 Structure and Sound System Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 604 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 604 Structure and Sound System of English 3.0 Credits
This course focuses on the structural features of the English language, including phonetic, phonological, morphological, syntactic and pragmatic features. In the practicum component, participants will collect and analyze language from both native and non-native speakers of English, using it to develop targeted structural exercises for English instruction.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 605 Design & Assessment Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 606 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 606

EDUC 606 Design and Assessment 3.0 Credits
This course emphasizes the role of ESL teachers as course developers and action researchers, focusing on effective lesson planning, task design, materials development, assessment and evaluation, and the use of computers in instruction. In the practicum component, participants will design thematic units, determine objectives, develop materials, and design assessment tools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 607 Intercultural Learner Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 608 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 608

EDUC 608 The Intercultural Learner 3.0 Credits
This course explores the needs, experiences, values, and beliefs of culturally and linguistically diverse learners and their families and communities. Building home/school relations and adapting and supporting curriculum through school services will be a focus. For a practicum, participants will engage in a case study of an English language learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 609 Language & Culture in Education 3.0 Credits
The purpose of this course is to explore the identity and cultural backgrounds of English Language Learners (ELLs) in our schools and to discuss the impact of these backgrounds on students’ educational progress. The course will address the ways in which teachers can provide an appropriate learning environment for students of diverse backgrounds.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 610 Action Research in Teaching ELLs 3.0 Credits
This course serves as capstone course within the Teaching English as a Second Language (ESL) credential program at Drexel. Candidates integrate content obtained in the prior core courses through an action research project with English Language Learners in a public school setting under the mentorship of a TESL specialist. Candidates also prepare for their transition to an independent ESL program professional by documenting their competencies in a teaching portfolio and creating a professional development plan.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 612 The Science of Sport 3.0 Credits
STEM concepts will be learned through the vehicle of sports in which the underlying principles of science and mathematics are discovered. Topics that will be covered in the course include: geometry, forces, motion, mechanics, biomechanics, anatomy and physiology, kinesiology, simple machines, energy transformations, and aerodynamics. Students will learn these concepts while performing aspects of different sports. The purpose is for students to actually see the science and mathematics concepts happening.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 620 Physics in the Arts in Philadelphia 3.0 Credits
This course explores the city of Philadelphia to identify “physics” concepts within the city and in its art with the goal for students to become better aware of the importance of STEM (science, technology, engineering and math) in their daily lives. STEM knowledge empowers citizens as consumers and voters. An elementary understanding of the basic principles of science can inform better decisions regarding energy use, environmental protection, and even, dietary and exercise choices. Using the city as a laboratory we will explore learning in informal settings and put theoretical lessons into a real-world context.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 622 The Science of Sport 3.0 Credits
STEM concepts will be learned through the vehicle of sports in which the underlying principles of science and mathematics are discovered. Topics that will be covered in the course include: geometry, forces, motion, mechanics, biomechanics, anatomy and physiology, kinesiology, simple machines, energy transformations, and aerodynamics. Students will learn these concepts while performing aspects of different sports. The purpose is for students to actually see the science and mathematics concepts happening.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 700 Classroom Research for Teachers I 4.5 Credits
This course introduces candidates to teacher research, a form of self-reflective systematic inquiry by practitioners on their own practice. The goals of teacher research are the improvement of practice, a better understanding of that practice, and an improvement in the situation in which the practice is carried out. Also examined will be findings from research on practice and how it can be used to support school and instructional change.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 701 Classroom Research for Teachers II 1.5 Credit
In this second course in a two-course sequence, students will utilize school-based, collected research data. Issues pertaining to the ethics of data collection, data analysis and interpretation and writing the classroom research study will be examined and explored. Students will be mentored in the writing of research with a view toward submission of their research for publication and presentation.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 700 [Min Grade: B]

EDUC 702 School Leadership & Decision Making 3.0 Credits
This course will focus on decision-making in the schools. Students will utilize school-based, collected research data. Issues pertaining to the ethics of data collection, data analysis and interpretation and writing the classroom research study will be examined and explored. Students will be mentored in the writing of research with a view toward submission of their research for publication and presentation.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 705 School Law and Politics 3.0 Credits
This course is designed to assist students with their understanding of how law, politics, and power structures interact to influence the goals and operations of the schools. Students will study the roles of school boards and community organizations, state boards of education, state government agencies, special interest groups, professional organizations, and unions.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 708 Integration of Technology with School Instruction and Management 3.0 Credits
In this course students will investigate learning theory and its implication for interactive multimedia learning formats including the relationship of instructional design principles to selection of multimedia elements.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 715

EDUC 710 School Finance and Facilities 3.0 Credits
In this course, students will study the school budgeting process and school facilities management. Students will receive an overview of the basic financial and facility issues, unique to education that affect individual school buildings.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 716

EDUC 712 School and Community Partnerships and Relations 3.0 Credits
In this course, students will study the skills, techniques and attitudes school leaders need to work effectively with school constituents.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 718

EDUC 714 Instructional and Curriculum Leadership 3.0 Credits
In this course, students will examine the relationship between school culture and classroom instruction. Students will study the five fundamental tasks of instructional leadership (direct assistance, group development, professional development, curriculum development, and action research). Students will also investigate effective classroom observation methods.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 717

EDUC 715 School Principal Internship: Technology 1.5 Credit
This yearlong intensive internship is the activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 708 [Min Grade: C] (Can be taken Concurrently)

EDUC 716 School Principal Internship: Finance 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 710 [Min Grade: C] (Can be taken Concurrently)

EDUC 717 School Principal Internship: Leadership 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 714 [Min Grade: C] (Can be taken Concurrently)

EDUC 718 School Principal Internship: School and Community Relations 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 712 [Min Grade: C] (Can be taken Concurrently)
EDUC 750 Critical Issues in Education Seminar 3.0 Credits
This course is offered in the style of a "proseminar" that consists of reading, reflection and discussion with a faculty member on a focused critical issue in education. Specific foci will change each term and be aligned with faculty expertise and student interests. The course is designed to inform doctoral students on educational issues to impact their teaching and research agenda.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 775 Special Topics in Teacher Preparation 9.0 Credits
Covers various topics of particular interest to teacher education students.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

EDUC 799 Independent Study in Teacher Preparation 0.5-9.0 Credits
Covers various topics of particular interest to teacher education students, explored individually by the student under guidance from an instructional team member.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

EDUC 800 Educational Leadership & Change 3.0 Credits
Covers leadership characteristics, styles, and profiles along with the dynamics of the change process. Students develop an action plan for a school-based project, keep a log, and do reflective analysis. Students will interview a leader about their experiences in change and develop a leadership portfolio.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 801 Creative Strategies For Educational Leaders 3.0 Credits
Examines the theoretical and research issues pertaining to creativity and the development of the creative thought process. Emphasizes how role playing and drama techniques can become a powerful tool to promote creative thinking, innovation, and change for educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 802 Using and Integrating Learning Technologies 3.0 Credits
Covers learning theories and integrative models as they use instructional software in different contexts and subject areas. Demonstrates strategies for using and implementing multimedia, hypermedia, and electronic networking for candidates to implement in their own school settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 803 Educational Research Design I 3.0 Credits
Introduces students to research design paradigms and the assumptions behind them, use of the literature, developing research questions, qualitative and quantitative procedures, and research study formats.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 804 Program Evaluation in Organizations 3.0 Credits
This course provides an experience in designing effective program evaluations for many purposes. Increasingly, evaluation and assessment are required for education research, research grants, school and organizational reform, and public policy. Students will study the foundations of program evaluation, examine underlying assumptions about the purposes and models of evaluation, and explore the various roles of the evaluator. In studying examples, students will vicariously experience various program evaluations from start to finish and understand the complexities of decision-making that evaluators face.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 806 Linking Educational Theory to Research 3.0 Credits
Course designed to acquaint students with educational theories and perspectives that have shaped the education discipline. A range of educational theories developed throughout 19th, 20th and 21st centuries will be discussed and explored toward guiding students on how these theories and viewpoints apply to research and educational practice today.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 807 Multi- & Cross-Cultural Perspectives in Leadership 3.0 Credits
Course will assist administrators, researchers and scholars to transform schools to address persistent inequities present in US educational systems and serve the needs of disadvantaged and disenfranchised groups. Course will deepen students' knowledge of multicultural education and advance their skills and talents as educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 808 Introduction to Data Collection and Analysis 3.0 Credits
This course prepares students to collect basic quantitative and qualitative data to be analyzed in a subsequent required course. Students will be introduced to educational research data and implications and use in research.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: B] and EDUC 810 [Min Grade: B]

EDUC 810 Educational Research Design II 3.0 Credits
The course builds upon Educational Research Design I and focuses on five main themes: research design, sampling design, data collection, data analysis, and reporting research results using educational applications.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 803 [Min Grade: C]

EDUC 811 Designing and Developing Multimedia Applications For Learning 3.0 Credits
Allows students to design and develop a multimedia application for learning using an object-oriented authoring application and the process of design, development, and testing. Demonstrates and applies principles of learning that affect interface design, instructional design, storyboard, navigation, interactivity, and feedback design.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 812 Staff Development & Team Building 3.0 Credits
Helps educational leaders explore effective models for professional development in schools and school districts. Covers the development of effective strategies and practices based upon current research, adult learning theory, and successful local and national models. Also provides in-depth training in the area of effective meeting design, involvement, and decision-making.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 813 Educational Issues Seminar 3.0 Credits
Examines current issues in public education, including school community, staff relations, integrating educational innovation, negotiating the bureaucracy, public charter schools, and urban education.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 814 Designing Educational Organizations 3.0 Credits
Examines innovation in rostering, scheduling, and defining the instructional program. Emphasizes middle school education and design of small learning communities such as the cluster concept and public charter schools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 815 Writing for Research, Publication and Funding in Education 3.0 Credits
Guides students in the writing for research, publication, and funding in education by studying examples of effective writing formats written by successful practitioners and by using an active writing process approach: writing drafts, and giving feedback in small peer groups. Students produce a final document for each type of writing that employs authentic tasks and assessments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 816 Inclusion Issues 3.0 Credits
Examines the various inclusion models whereby children with special needs become part of the teaching and learning community in which everyone-teacher and all students-can benefit by an inclusive program. Addresses such topics as how administrators may take leadership in implementing inclusion and designing an inclusive school.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 817 Curriculum Models 3.0 Credits
Allows candidates to develop models of curricula aligned with local, state, and national standards. Presents strategies for interdisciplinary teaching, creating constructivist learning environments, and developing integrative curriculum modules. Considers learning styles in effective methods that will be modeled and implemented in the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 818 Applied Research Study 0.5-20.0 Credits
Offers candidates a field-based opportunity to design and implement a pilot research study that will be presented and defended. Steps include framing the question and methodological approach, collecting and analyzing data, interpreting the results, and writing a report. Students document their research activities in a log. Research approaches can include action research, case studies, experimental designs, etc.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 820 School Superintendency 3.0 Credits
This course is designed to provide both theoretical and practical insights into the evolving responsibilities associated with being the chief executive officer of a school system.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 801 [Min Grade: C] and EDUC 802 [Min Grade: C]

EDUC 824 Parents and Schools 3.0 Credits
This course provides the candidate with the skills required by system-level administrators to work with a broad spectrum of constituencies. Students will focus on the major issues facing families, especially those that mitigate against strong home-school relations, such as poverty, domestic violence, and drug abuse.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: B]
Corequisite: EDUC 828

EDUC 827 School Superintendent's Internship: Curriculum Models 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 820 [Min Grade: C]

EDUC 828 School Superintendent's Internship:: Parents and Schools 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: C]
Corequisite: EDUC 824

EDUC 829 School Superintendent's Internship III 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 828 [Min Grade: C]
EDUC 830 School Superintendent’s Internship IV 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate’s career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 829 [Min Grade: C]

EDUC 835 Quantitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 810. Use of statistical methods using real-world problems and real-world data to gain experience with following topics: analysis of variance and covariance, simple and multiple linear regression, multivariate techniques of factor analysis, cluster analysis and multi-level and structural equation modeling. Course includes a lab for practice-based learning using SPSS.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: C] and EDUC 810 [Min Grade: C]

EDUC 836 Qualitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 835. Use of qualitative methods using real-world problems and real-world data to gain experience with following research techniques such as ethnography and case studies to gain skills in participant observation, interviewing, archival research and historical analysis. Other theoretical frameworks and methodological approaches for qualitative research will be discussed. Course includes a lab for practice-based learning to use computer software for data collection, analysis.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 835 [Min Grade: C]

EDUC 840 Theories of Individual Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective from an individual cognitive perspective and will include emphasis on both recent research and seminal literature. The course will be an introduction to the psychological foundations of STEM education. This course is the first in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 842 Social Foundation and Group Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective and will include emphasis on both recent research and seminal literature. The course will include an introduction to the sociocultural research and foundations of STEM education. This course is the second in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 844 Creativity and Innovation in STEM Education 3.0 Credits
This course will provide a foundation of creativity, innovation theory, awareness of research and seminal literature in the context of STEM education. Theories of creativity and creative thinking, the methods for studying creativity and the biological basis of creativity. The course is the third in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 880 Doctoral Seminar 1.0 Credit
Seminar to prepare students who have completed the core doctoral courses and residency requirement to work with their Dissertation Advisor in the development of their dissertation research proposal.
College/Department: School of Education
Repeat Status: Can be repeated 10 times for 10 credits
Prerequisites: EDUC 810 [Min Grade: B] and EDUC 811 [Min Grade: B] and EDUC 813 [Min Grade: B]

EDUC 998 PhD Dissertation 1.0-12.0 Credit
Allows candidates to conduct an original research study that will comprise the dissertation.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

Graduate Intern Teaching Certificate
Certificate Level: Graduate
Admission Requirements: Bachelor’s degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 33.0 (secondary); 42.0 (Pre-K)
Instructional Delivery: Campus, Online
Calendar Type: Quarter
Expected Time to Completion: 1 - 3 years
Financial Aid Eligibility: Not aid eligible

Admission Requirements
Applicants for the Graduate Intern Teaching Certificate program must complete an interview with a teacher education advisor before completing a graduate application. During this interview the applicant’s transcripts are evaluated in relation to Pennsylvania state standards for the specific certification area. If coursework is dated, a content exam or additional coursework may be required. Life experience that demonstrates knowledge of the content area will be considered. Additional coursework in the content area may be required to meet certification standards. In addition, applicants must meet the general admission requirements for graduate studies at Drexel University.

Program Requirements
Graduate Intern Teaching Certificate applicants for secondary certification must have a bachelor’s degree in an area related to that in which they intend to become certified. Minimum coursework requirements include 33.0 credits (secondary) and 42.0 credits (PreK-4) of pedagogy, which may be incorporated into the graduate Teaching, Learning and Curriculum master’s degree program in the subject area of certification.
Intern teachers may obtain a full-time teaching position after they have been recommended for the Pennsylvania Department of Education Intern Teaching Certificate. To be recommended, students must be admitted into the Drexel graduate program, obtain at least a B in EDUC
520 Professional Studies in Instruction, EDEX 542 Fundamentals of Special Education, the appropriate methods course, and EDUC 540 Field Experience, and obtain the necessary scores on the appropriate sections of the Praxis Series assessment through Educational Testing Service (ETS) for Secondary Certification or PECT exams through Pearson Education for PreK-4 Certification.

Completion of all required pedagogy coursework with at least a B in each and a B average in required content courses and passing the appropriate Pennsylvania state licensing exams will satisfy requirements for Pennsylvania Instructional I Certification.

**Instructional Technology Specialist Certificate**

**Certificate Level:** Graduate  
**Admission Requirements:** Bachelor's degree  
**Certificate Type:** Certificate  
**Number of Credits to Completion:** 34.5  
**Instructional Delivery:** Online  
**Calendar Type:** Quarter  
**Expected Time to Completion:** 2 years  
**Financial Aid Eligibility:** Aid eligible

The instructional technology specialist certificate program was designed to address the dramatically increasing need in public education for certified instructional technology specialists at every level of K-12 schooling.

Applicants for instructional technology specialist Certification should ideally possess valid Pennsylvania Instructional I or II Teaching Certification. Students working on their initial teaching certificate may begin working toward this certificate with special permission of a teacher education advisor. (Visit the School of Education (http://www.drexel.edu/soe) for additional information.)

Minimum coursework requirements for the instructional technology specialist Certificate include 25.5-31.5 credits of specific pedagogy. The PA Certification requires a "B" or better in all certification coursework. If a student seeks the Instructional Technology Specialist PA Certification without a previous held teaching certificate, he or she will need to complete EDUC 522 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/instructionaltechnologyspecialistcert) and EDUC 525 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/instructionaltechnologyspecialistcert) .

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 533</td>
<td>Designing Virtual Communities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 534</td>
<td>Developing Educational Leaders Using Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 565</td>
<td>Foundations in Instructing English Language Learners</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
</tr>
<tr>
<td>INFO 520</td>
<td>Social Context of Information Profession</td>
<td>3.0</td>
</tr>
<tr>
<td>INFO 640</td>
<td>Managing Information Organizations</td>
<td>3.0</td>
</tr>
<tr>
<td>Additional required courses for candidates without prior teacher certification:</td>
<td>0.0-6.0</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**

For more information about this program, contact the program manager:

Owen Schugsta  
School of Education  
Drexel University  
215.895.1690  
ocss23@drexel.edu

**Admission Requirements**

Applicants for the program will follow the university standards for admission to graduate study. Prospective students must have earned a bachelor's degree from an accredited institution and have an undergraduate GPA of 3.0 or higher to be considered for admission (graduate degree GPAs will be considered along with the undergraduate GPA).

In addition, prospective students are required to submit the following:

- Completed Application Form including official transcripts from all universities or colleges attended  
- Two letters of recommendation  
- Personal essay  
- Resume  
- Application fee

The admissions committee will evaluate the applicant’s potential and commitment to succeed in graduate study. The applicant’s potential to contribute to the overall quality of the program of study will also be considered.

Interviews, in person or by phone, will be conducted by the admissions committee with those applicants who meet Graduate Admission’s standard admissions criteria.

**Master of Science in Applied Behavior Analysis**

Behavior analysis is a widely accepted and validated scientific approach to the description and investigation of the environmental arrangements that occasion behavior. More than 60 years of research with proven methods and impressive findings has helped develop the technology now called applied behavior analysis. Over the past five decades, behavior analytic clinical and research advances have led to significant contributions in education programming, and mental health and behavioral health therapies.

The Master of Science in Applied Behavior Analysis will prepare clinical and educational leaders in the field of evidence-based interventions using behavior analytic theory and techniques. Leaders from this program will be highly successful candidates for institutions searching for knowledgeable and skilled behavior analytic consultants, program coordinators, senior clinical directors and interventionists. These students will also be prepared to transition to PhD programs in Applied Behavior Analysis, School and Clinical Psychology, and Experimental Psychology.

**Financial Aid Eligibility:** Aid eligible  
**Expected Time to Completion:** 2 years  
**Calendar Type:** Quarter  
**Instructional Delivery:** Online  
**Number of Credits to Completion:** 34.5  
**Certificate Type:** Certificate  
**Admission Requirements:** Bachelor's degree  
**Certificate Level:** Graduate
Decisions will be made using dates corresponding to the regular university schedule for rolling admissions in Graduate Admissions.

Additional Information

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Degree Requirements

Requirements

Core Applied Behavior Analysis Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDEX 551</td>
<td>Pervasive Developmental Disorders</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 630</td>
<td>Fundamental Elements of Behavior Change</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 631</td>
<td>Measurement and Experimental Design</td>
<td>4.5</td>
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<tr>
<td>EDEX 632</td>
<td>Behavioral Assessment and Functional Analysis</td>
<td>4.5</td>
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<tr>
<td>EDEX 633</td>
<td>Behavioral Interventions</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 634</td>
<td>Consultation, Systems Change and Supervision</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 635</td>
<td>Ethical Considerations and Professional Conduct</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Select one option from the following: 12.0

Option 1: Autism Spectrum Disorders Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDEX 556</td>
<td>Characteristics &amp; Methods: Autism</td>
</tr>
<tr>
<td>EDEX 558</td>
<td>Characteristics &amp; Methods: High Functioning Autism</td>
</tr>
<tr>
<td>EDEX 560</td>
<td>Communication &amp; Language Interventions: Autism Spectrum Disorders</td>
</tr>
<tr>
<td>EDEX 562</td>
<td>Behavior &amp; Sensory Support: Autism Spectrum Disorders</td>
</tr>
</tbody>
</table>

Option 2: Professional Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EDEX 700</td>
<td>Practicum in Applied Behavior Analysis</td>
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<td>EDEX 700</td>
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<td>EDEX 700</td>
<td>Practicum in Applied Behavior Analysis</td>
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Capstone Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 610</td>
<td>Action Research for Special Education Teachers I</td>
</tr>
<tr>
<td>EDEX 611</td>
<td>Action Research for Special Education Teachers II</td>
</tr>
</tbody>
</table>

Total Credits 49.5

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Arouitis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling,
virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation.

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.
Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Courses

EDEX 542 Fundamentals of Special Education 3.0 Credits
This course provides an overview of the essentials of special education for today’s teachers. Specific emphasis is placed on the history of special education, purposes of formal and informal assessments and current research on inclusive classrooms. Additional focus will be placed on legal/ethical considerations in testing and the translation of data. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 546 Literacy and Content Skill Development PreK-8 3.0 Credits
The focus of this course is literacy skill development in individuals at-risk for disabilities and with disabilities as well as causes and correlates of individual differences in reading ability. Research, theory, identification approaches and practical, research-supported instructional strategies will be provided for working with students.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 547 Special Education Processes PreK-8 4.5 Credits
This course focuses on special education processes available for students with disabilities in pre-kindergarten through grade 8. Specifically, this course provides an overview of child find, evaluation and education and IEP/IFSP development, implementation and monitoring concepts, as mandated by IDEA and Section 504 of the Rehabilitation Act of 1973. Students will apply special education process strategies such as collaboration, problem solving, progress monitoring and early dispute resolution techniques. Specific legal cases will be reviewed throughout the term.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 548 Emotional and Behavioral Support of Individuals with Disabilities 4.5 Credits
This course focuses on both low and high-incidence emotional and behavioral problems encountered in general and special education environments. Specific emphasis will be on the understanding of characteristics and interventions that work with the most challenging students. Research in the area of behavior disorders will also be introduced. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 549 High Incident Disabilities 4.5 Credits
This course focuses on high-incidence disabilities, specifically learning disabilities and language disorders encountered in the general and special education environments. Additional emphasis is placed on an understanding of characteristics and interventions that support these students. Research-based instructional strategies and accommodations will also be discussed. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 550 Teaching Individuals with Low Incident Disabilities 4.5 Credits
This course focuses on curriculum development approaches, instructional strategies and accommodations for students with low incident and moderate/severe disabilities, with emphasis on age-appropriate functional education in school and community based programs. Additional emphasis is placed on disabilities such as low vision and blindness, hearing impairment and deafness and severe health and physical disabilities. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]
EDEX 551 Pervasive Developmental Disorders 4.5 Credits
The focus of this course will be pervasive developmental disorders (PDD), specifically, understanding of characteristics, instructional strategies and effective interventions. The course will also emphasize behavior reduction strategies that are consistent with a positive behavioral support approach for students with PDD. Research in the area on PDD will also be emphasized. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 542 [Min Grade: C] and EDUC 544 [Min Grade: C]

EDEX 552 Integrating Technology for Learning & Achievement 4.5 Credits
This course is designed to teach educators how to integrate technology into instruction to support achievement in general and special education classes, specifically to support reading, writing and mathematics achievement. It also focuses on the use of technology for universal design for learning and using assistive technology with students with disabilities. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 542 [Min Grade: C] and EDUC 544 [Min Grade: C]

EDEX 553 Special Education: Methods & Practices PreK-8 4.5 Credits
This course will focus on effective instructional strategies to meet the learning needs of students with disabilities. Specific emphasis will be placed upon lesson planning, unit planning, grouping strategies and collaboration with other teachers and staff in all delivery settings. Students choose, evaluate and construct instructional materials. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 542 [Min Grade: C] and EDUC 544 [Min Grade: C]

EDEX 556 Characteristics & Methods: Autism 3.0 Credits
This course furthers the student’s understanding of the diagnosis of Autism. Students will explore current issues and best practices in providing educational services that meet the unique characteristics and needs of students with Autism. Current theories in the field of Autism will be a focus of the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 558 Characteristics & Methods: High Functioning Autism 3.0 Credits
This course furthers the student’s understanding of the diagnosis of High-Functioning Autism and how it is or is not different from Asperger’s Syndrome. Students will explore current issues and best practices in providing educational services that meet the unique characteristics and needs of students with High-Functioning Autism and Asperger’s Syndrome.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 560 Communication & Language Interventions: Autism Spectrum Disorders 3.0 Credits
The focus of this course is on communication and language skills, deficits, needs, and interventions for students with Autism Spectrum Disorders (ASD). Students will gain an understanding of the development of communication and interventions for students with ASD who are non-verbal, limited verbal, or verbal. Social pragamatics will be covered.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 562 Behavior & Sensory Support: Autism Spectrum Disorders 3.0 Credits
The focus of this course is on specific behavioral and sensory issues of students with Autism Spectrum Disorders (ASD). Students will gain skills in research-based interventions for the behavioral issues and sensory needs of students with ASD. Close attention will be paid to prevention strategies that are effective for ASD.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 563 Special Education: Methods & Practices 7-12 4.5 Credits
The focus of this course is on instructional strategies to meet the unique learning needs of secondary students with disabilities. Lesson planning, unit planning and grouping strategies are key elements in this course. Collaboration with other teaching and non-teaching staff members in all delivery settings is emphasized. Students choose, evaluate, construct and implement instructional materials. A formal evaluation will be required. Emphasis will be placed on student transition post high school.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 542 [Min Grade: C] and EDUC 544 [Min Grade: C]

EDEX 565 Literacy and Content Skill Development 7-12 3.0 Credits
The focus of this course is literacy skill development of adolescents at-risk for reading disabilities and adolescents currently identified with reading disabilities. The course will teach a variety of instructional interventions and strategies for improving student comprehension in the content areas. The course will also focus on improving vocabulary, fluency, and motivation in adolescents who struggle with reading. Writing strategies and common core standards will be addressed. The course ends with progress monitoring tools in order to determine the success of the interventions and strategies.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 542 [Min Grade: C] and EDUC 544 [Min Grade: C]
EDEX 567 Special Education Processes 7-12 4.5 Credits
This course focuses on the special education processes available for students with disabilities in grades 7 through 12. Specifically, the course provides an overview of the child find system, evaluation, education and transition processes in the development of an Individualized Education Program (IEP), and implementation and monitoring concepts as mandated by IDEA and Section 504 of the Rehabilitation Act of 1973. Students will apply special education process strategies such as collaboration, problem solving, progress monitoring and early dispute resolution techniques. Specific legal cases will be reviewed.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 570 Integrating Assistive Technology for Individuals with High Incident Disabilities 3.0 Credits
This course is designed to teach educators how to integrate assistive technology into instruction to support achievement in general and special education classes for students with disabilities in high incidence programs.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 552 [Min Grade: C]

EDEX 572 Integrating Assistive Technology for Individuals with Low Incident Disabilities 3.0 Credits
This course is designed to teach educators how to integrate assistive technology into instruction for students with low incidence disabilities, including communication impairments, intellectual disabilities, autism, and physical disabilities.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 552 [Min Grade: C]

EDEX 600 Family, School and Community Engagement in Special Education 3.0 Credits
This course is designed to provide an understanding of how to effectively implement the spirit of the Individuals with Disabilities Education Act (IDEA) and Section 504, using a collaborative approach among families, educators, and service providers. Specifically, this course focuses on the structure and operation of efficacious collaborative teams, facilitating co-educator partnerships and integrating internal and external supports through positive family engagement.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 710 [Min Grade: B]

EDEX 601 Special Education Advocacy 3.0 Credits
This course is designed to provide students with an opportunity to explore and master collaborative advocacy practices critical to the special education process.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 600 [Min Grade: B] and EDEX 710 [Min Grade: B]

EDEX 602 Special Education Dispute Resolution and Skills Training 3.0 Credits
This course is designed to provide a comprehensive understanding of special education dispute resolution opportunities and training in the communication skills necessary to successfully participate within each of those opportunities.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 600 [Min Grade: B] and EDEX 710 [Min Grade: B]

EDEX 610 Action Research for Special Education Teachers I 4.5 Credits
This course will introduce action research, a form of self-reflective systematic inquiry by practitioners on their own practice. The goals are the improvement of practice, a better understanding of practice, and an improvement in the situations where practices are carried out. Findings are examined: to support school/instructional change.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 606 [Min Grade: B] (Can be taken Concurrently)EDUC 602 [Min Grade: B] and EDUC 604 [Min Grade: B] and EDUC 608 [Min Grade: B] and LING 560 [Min Grade: B]

EDEX 611 Action Research for Special Education Teachers II 1.5 Credit
In this second course in action research sequence, students will come to class with data from the classroom. The class will focus on the issues pertaining to the ethics of data collection, data analysis and interpretation, and writing the action research study.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 610 [Min Grade: C]

EDEX 630 Fundamental Elements of Behavior Change 4.5 Credits
This course is designed to provide students with an understanding of behavioral processes as described and defined by the behavior analytic orientation of psychology. Students will learn the terminology associated with operant and classical conditioning including understanding the difference between a procedure and a process, reinforcement, extinction, punishment, association, conditioned stimulus and unconditioned stimulus.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDEX 631 Measurement and Experimental Design 4.5 Credits
Graduate level intensive introduction to research methods in behavior analysis. The empirical methods of inquiry used in behavior analysis are substantially different than those used in traditional psychology. Course design provides knowledge of the concepts and issues related to single-subject design as used in applied behavior analysis research. Topics include the distinction between single subject and group research designs, issues related to reliability and validity, data collection and analysis techniques, treatment integrity and other ethical and professional issues.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B] (Can be taken Concurrently)
EDEX 632 Behavioral Assessment and Functional Analysis 4.5 Credits
Course provides knowledge and skills of behavioral assessment and methodologies for evaluating the effectiveness of interventions. First half of course explores range of assessment techniques in a variety of settings including direct observation/data collection methods, data analysis, functional assessment, stimulus preference and reinforcer assessments, and ethical and professional issues. Second half focuses on functional analysis and history of and variations to the methodology. Relationship between assessment techniques and development of least-restrictive but most effective behavioral intervention explored.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 633 Behavioral Interventions 4.5 Credits
This course is designed to provide the student with advanced knowledge of behavioral interventions designed for both skill acquisition and reduction purposes. Considerations of ethical, social, and cultural variables affecting the selection and effectiveness of intervention strategies will also be highlighted. The course readings and writing assignment will provide students with the skills and opportunity to critically evaluate various intervention procedures and identify opportunities and methods to promote generalization and maintenance of treatment outcomes.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 634 Consultation, Systems Change and Supervision 4.5 Credits
This course is designed to provide the knowledge and skills necessary to effectively consult with education, mental health and behavioral health staff working in community settings. The course is designed to familiarize students with theories and models of adult behavior change, and the procedures and processes used in an indirect-service delivery model. Students will be expected to apply the knowledge acquired through the consultative process and with a consultee.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 635 Ethical Considerations and Professional Conduct 4.5 Credits
Addresses the American Psychological Association’s Ethical Principles of Psychologists and Code of Conduct, and the Behavior Analysis Certification Board’s Ethical Principles and Ethical Guidelines. These guidelines and principles are required readings for those engaging in psychological services and to sit for the National Certification in Behavior Analysis: 1. Ethical Principles of Psychologists and Code of Conduct and 2. Guidelines for Responsible Conduct for Behavior Analysts including Professional Disciplinary and Ethical Standards, Ethical Complaint Process, and summary of possible Disciplinary Actions.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 700 Practicum in Applied Behavior Analysis 1.0-4.0 Credit
This course is designed as a 1-4 credit practicum placement. Course instructors and the practicum coordinator will support the placement of Drexel ABA master’s students in mental health, behavioral health, educational and rehabilitation services settings in the region. In coordination and cooperation with agency staff responsible for the on-site supervision, students will contribute to the discussion and implementation of evidence-based behavior analytic practices within multi-disciplinary team settings. Students will be expected to keep a daily journal recording their activities, complete a reflection paper and.
College/Department: School of Education
Repeat Status: Can be repeated 6 times for 28 credits
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 710 School Law & Policy in Special Education 3.0 Credits
This course provides an overview of the legal rights of students and families in the field of special education. Students will explore the source, history, current status, and litigation affecting special education. This course relates equal protection and procedural due process to school practices and policies affecting students with disabilities.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 712 Instructional & Curriculum Leadership in Special Education 3.0 Credits
This course explores the administration of teaching/learning as a system in an inclusive school. Students learn leadership practices for universal screening, integrating assistive technology, research/evidence based-practices, and assessment systems responsive to and linguistic diversity. Special focus on leadership issues related to the urban, suburban, and rural context.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 714 Development, Supervision, & Support: Special Education Leadership 3.0 Credits
This course provides an overview of personnel functions: recruitment, selection, orientation, support, evaluation, and development; interpersonal skills; motivation/change theorie; and the utilization of technology in the process. In addition, it will look at the unique issues of co-leading personnel with other administrators, collective bargaining, and the grievance process.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 716 Organization & Administration of Special Education 3.0 Credits
This course is designed to provide an overview of the organizational practices for the administration of special education programs. Students will be introduced to special education revenue sources, compliance, child count, and budget monitoring as well as the special education plan.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]
EDEX 721 Supervisor of Special Education Internship: Special Education Leadership 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the first of a four-term internship. The focus is on legal and policy issues in special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 722 Supervisor of Special Education Internship: Instructional Leadership 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the second of a four-term internship. The focus is on instructional leadership in special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 723 Supervisor of Special Education Internship: Collaboration & Personnel 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the third of a four-term internship. The focus is on collaboration and personnel issues: special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 724 Supervisor of Special Education Internship: Finance & Management 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile in a portfolio. This is the fourth of a four-term internship. The focus is on school resources in special education.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

Upon successful completion of this program, students will be able to recognize problematic situations within various settings. They will also enable their organization to foster creative environments and identify creative problem-solvers within their workforce.

For more information, visit Drexel Online’s MS in Creativity and Innovation (http://www.drexel.com/online-degrees/business-degrees/ms-creativity-innovation) website.

Degree Requirements

Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CRTV 501</td>
<td>Foundations in Creativity</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 502</td>
<td>Tools and Techniques in Creativity</td>
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</tr>
<tr>
<td>CRTV 503</td>
<td>Creativity in the Workplace</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 610</td>
<td>Creativity and Change Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 620</td>
<td>Research Methods and Assessment of Creative and Innovative Thinking</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 630</td>
<td>Global Perspectives on Creativity</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 640</td>
<td>Creativity &amp; Innovation: 1500-Present</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 650</td>
<td>Current Trends in Creativity &amp; Innovation</td>
<td>3.0</td>
</tr>
<tr>
<td>CRTV 660</td>
<td>Diagnostic Creative Intervention</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Core Credits: 27.0

Professional Electives: 18.0

Electives will be selected in consultation with the Program Director and/or Advisor.

Total Credits: 45.0

Suggested Electives

Select two courses from the following options:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAM 500</td>
<td>Leading in Urban, Rural and Suburban Settings</td>
</tr>
<tr>
<td>EDPO 620</td>
<td>Education Policy: Concepts, Issues, and Applications</td>
</tr>
<tr>
<td>EDPO 628</td>
<td>American Educational Policy and U.S. Competitiveness</td>
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<tr>
<td>EDPO 632</td>
<td>Ethics in Educational Policy Making</td>
</tr>
<tr>
<td>EDHE 680</td>
<td>Foundations of Evaluation</td>
</tr>
<tr>
<td>EDHE 682</td>
<td>The Evaluation Process</td>
</tr>
<tr>
<td>EDLT 537</td>
<td>Technologies for Performance Support</td>
</tr>
<tr>
<td>EDLT 538</td>
<td>New Media Literacies</td>
</tr>
<tr>
<td>EDUC 516</td>
<td>Diversity and Today’s Teacher</td>
</tr>
</tbody>
</table>

Master of Science in Creativity and Innovation

Master of Science: 45.0 quarter credits

About the Program

In a world of increasing complexity, change, and competition, generating new ideas and bringing them to the table is now essential for corporate management. Creativity is multidisciplinary – it is in all professional fields from chemistry to engineering, from education to computer science, and from sociology to business. Successful organizations, in all fields, view creativity as vital and are the ones that instill creativity throughout the organization. The application of creativity skills distinguishes managers who maintain the status quo from leaders who inspire a new direction or vision. By internalizing the spirit of creativity and the principles of creative problem solving, individuals can be transformed into change leaders.
Master of Science in Education Improvement and Transformation

About the Program

One of the great challenges of our time is the improvement of the American education system from pre-school through retirement. Once the envy of the world, there are cracks in the education crucible which must be repaired or reformed. The system has endured social, intellectual, and economic challenges beyond its capacity to respond in a way that provides a sound foundation for all Americans, while keeping our country safe and competitive for the future.

The MS in Education Improvement and Transformation program is designed to prepare professional educators—as well as other professionals whose career interests lie in leading significant change in education—in the process of initiating transformative (reform) in formal and informal education sectors.

The program is comprised of "stackable" certificates, each focusing on specific topics pertaining to the improvement and transformation of education. (The certificates are also referred to as "professional development concentrations," and are made up of nine credits of courses.) After students complete four of these areas of study, reaching 36.0 credits, they finish the program with two courses that jointly form a capstone project to provide a real-life, hands-on experience in being an agent for change in transformative education.

Students not wishing to complete entirely of the 45.0 required credits for the master of science program may opt to leave with the graduate-level concentration. These 9.0 credit concentrations correspond to certificates offered in the Education and Improvement and Transformation program. View those certificate programs for a list of courses.

Additional Information

For additional information, visit Drexel University's Master of Science Program's in Education (http://www.drexel.edu/soe/academics/graduate) page.

Degree Requirements

The Master of Science in Education Transformation program is comprised of 14 courses. The core of the program is made up of four "Professional Development Concentrations" in strategic education improvement areas and topics.

These concentrations are listed under the Certificate Programs in Education and Transformation, and include areas such as assessment, strategic partnership, change leadership, educational policy, disabilities, virtual schools, charter schooling, home schooling, community engagement & development, urban education, school boards, and financing education. Additional concentrations may be developed on a topical needs or special population-based basis.

The final two courses of the program consist of a 4.5 credit Evaluation & Assessment courses and a 4.5 credit Capstone Project. The Capstone Project is an individualized course.

Degree Requirements

Students complete four areas of professional development concentration. These 9.0 credit concentrations correspond to certificates offered in the Education and Improvement and Transformation program. View those certificate programs for a list of courses.

| Project/Capstone Requirements |
|-------------------------------|-------------------|
| EIT 715                       | EIT Evaluation, Assessment and Capstone Preparation |
| EDUC 799                      | Independent Study in Teacher Preparation (EIT Capstone Project) |

Total Credits: 45.0

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.
D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Arouitis N. Foster, PhD (Michigan State University), Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.
Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O’Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments;Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vondran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Master of Science in Educational Administration

Master of Science: 45.0 quarter credits

About the Program

The MS in Educational Administration program is designed to prepare and mentor future leaders using state and national leadership standards with the practical skills, knowledge, and internship experiences to become effective leaders in rural, urban, and suburban schools. The vision of the program is to create a collaborative and mentoring community of school leaders who contribute to a “research of practice” that significantly improves learning for all students.

Using state and national leadership standards, this master’s degree is designed to prepare and mentor future elementary and secondary educational leaders with the practical skills, knowledge and internship experiences to become effective leaders in rural, city and suburban schools. This program is ideal for prospective students holding a teaching or counseling certificate who wish to advance into school administration with principal certification.

The program is designed as a part-time cohort model, and can be completed in two years. View the degree requirements for more detailed information about the courses.

Program Objectives

Graduates of the MS in Educational Administration program will be prepared to:

• Meet Pennsylvania certification standards
• Facilitate the development, articulation, implementation, and stewardship of a school/district vision of learning that is shared and supported by the school community
• Advocate, nurture, and sustain a school culture and instructional program conducive to student learning and staff professional growth
• Ensure management of the organization, operations, and resources for a safe, efficient, and effective learning environment
• Collaborate with families and community members, responding to diverse community interests and needs, and mobilizing community resources
• Act with integrity, fairness, and in an ethical manner
• Understand, respond to, and influence the larger political, social, economic, legal, and cultural context
• Monitor and evaluate students’ achievements and programs on challenging standards for internal and external accountability goals
• Build teacher leadership capacity and mentor principal interns
• Conduct and share action research that documents sustainability in meeting school accountability goals and has practical, immediate, and useful application for other educators

For additional information, visit the School of Education’s MS in Educational Administration (http://drexel.edu/soe/academics/graduate/educational-administration) web page or the Drexel Online (http://www.drexel.com/online-degrees/education-degrees/ms-ed-admin) website.

Admission Requirements

Acceptance for graduate study in Drexel University’s School of Education requires:

• Bachelor’s degree from a regionally accredited institution.
• Undergraduate GPA of 3.0 or higher (graduate degree GPAs will be considered along with the undergraduate GPA).
• Complete graduate school application (http://www.drexel.com/online-degrees/education-degrees/ms-ed-admin/apply.aspx).
• Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Instead of hard copy transcripts, you may supply official electronic transcripts issued by a post-secondary institution directly to Drexel University Online (use our email address, customerservice@drexel.com). You must supply transcripts regardless of the number of credits earned or the type of school you attended. If you do not list all post-secondary institutions on your application and these are listed on transcripts received from other institutions, processing of your application will be delayed until you have submitted the remaining transcripts. Use the Transcript Lookup Tool (http://www.drexel.com/tools/transcript.aspx) to assist you in contacting your previous institutions. If a college or university that you attended offers the option to send transcripts in a secure, password-protected electronic format, you may have the transcript sent to customerservice@drexel.com.
• Two letters of recommendation, either professional or academic.
  • Drexel University Online now accepts electronic letters of recommendation. Please access the following webpage for instructions regarding their submission: http://www.drexel.edu/apply/recommend. If a recommender prefers to submit an original, hard copy letter of recommendation, please remind the recommender that it must be signed and submitted in a sealed envelope signed across the flap by the recommender.
  • One letter of recommendation must come from the principal of the school where the applicant has worked. (Recommendation must include applicant’s presentation skills and experiences in leadership roles help in a K-12 school setting as well as the skills observed that would have a strong bearing on the applicant’s success as a school leader and administrator.)
• An essay describing why the applicant is interested in pursuing graduate study in this field.
• Applicant must include two paragraphs briefly describing their educational philosophy and explaining how principals shape learning in K-12 schools.
• International Students (http://www.drexel.com/online-degrees/education-degrees/ms-ed-admin/international.aspx): must submit a TOEFL score of 550 or higher. Students with transcripts from non-US institutions should have such transcripts evaluated by World Education Service (WES). The TOEFL examination is required for some non-citizens.

Degree Requirements

Option 1: MS in Educational Administration (with principal certification)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 702</td>
<td>School Leadership &amp; Decision Making</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 705</td>
<td>School Law and Politics</td>
<td>3.0</td>
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<tr>
<td>EDUC 708</td>
<td>Integration of Technology with School Instruction and Management</td>
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<tr>
<td>EDUC 710</td>
<td>School Finance and Facilities</td>
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<td>EDUC 712</td>
<td>School and Community Partnerships and Relations</td>
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<tr>
<td>EDUC 714</td>
<td>Instructional and Curriculum Leadership</td>
<td>3.0</td>
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<tr>
<td>EDUC 715</td>
<td>School Principal Internship: Technology</td>
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<tr>
<td>EDUC 716</td>
<td>School Principal Internship: Finance</td>
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<tr>
<td>EDUC 717</td>
<td>School Principal Internship: Leadership</td>
<td>1.5</td>
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<tr>
<td>EDUC 718</td>
<td>School Principal Internship: School and Community Relations</td>
<td>1.5</td>
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</tbody>
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Advanced Leadership Courses

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDAM 500</td>
<td>Leading in Urban, Rural and Suburban Settings</td>
<td>3.0</td>
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<tr>
<td>EDAM 502</td>
<td>Resource Management, Allocation and Entrepreneurship</td>
<td>3.0</td>
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<tr>
<td>EDAM 522</td>
<td>Evaluation &amp; Assessment Competencies</td>
<td>3.0</td>
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<tr>
<td>EDAM 524</td>
<td>Mentoring and Collaborative Leadership</td>
<td>3.0</td>
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<tr>
<td>EDAM 526</td>
<td>Interpreting &amp; Evaluating Research &amp; Achievement Data</td>
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<td>EDAM 528</td>
<td>Research Methodology for Action Research</td>
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<tr>
<td>EDAM 540</td>
<td>Action Research Project</td>
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Option 2: MS in Educational Administration (without principal certification)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 702</td>
<td>School Leadership &amp; Decision Making</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 705</td>
<td>School Law and Politics</td>
<td>3.0</td>
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<tr>
<td>EDUC 708</td>
<td>Integration of Technology with School Instruction and Management</td>
<td>3.0</td>
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<tr>
<td>EDUC 710</td>
<td>School Finance and Facilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 712</td>
<td>School and Community Partnerships and Relations</td>
<td>3.0</td>
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<tr>
<td>EDUC 714</td>
<td>Instructional and Curriculum Leadership</td>
<td>3.0</td>
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<tr>
<td>EDAM 500</td>
<td>Leading in Urban, Rural and Suburban Settings</td>
<td>3.0</td>
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<tr>
<td>EDAM 524</td>
<td>Mentoring and Collaborative Leadership</td>
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</tbody>
</table>
EDAM 526  Interpreting & Evaluating Research & Achievement 3.0
Data
EDAM 528  Research Methodology for Action Research 3.0
EDAM 540  Action Research Project 3.0

6 credits of MS electives  *  6.0

Total Credits  45.0

* An MS elective can be any graduate course at Drexel University, as long as the student has attained prior Program Manager/Director approval for taking the course.

Performances
The performances for meeting Pennsylvania leadership standards and National Leadership Standards include a Leadership Portfolio. The Leadership Portfolio includes:

• Four Log Reflections -- explaining growth in log reflection over each term
• Evidence of 600 hours across four terms logged in the Internship
• Logs over 48 weeks
• Four term Goal Statements and Reflections on accomplishments
• Two to three artifacts on each of the ELCC standards totaling 14 to 21 or more artifacts
• An explanation of how each artifact shows applications of skill on each identified standard
• Four evaluations on the ELCC Standards and Drexel Competencies completed by the school site supervising principal

In addition, students must have a passing score on 580 on the Pennsylvania PRAXIS, Administrative Ed. Leadership (0410).

Education Faculty
Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroulis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children’s achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science
literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. College labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O’Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.

Mary Jean Tece DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development.

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.
Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Educational Administration Courses

EDAM 500 Leading in Urban, Rural and Suburban Settings 3.0 Credits
Provide school leadership experiences from three settings: urban, rural and suburban. The study of the similarities and differences within and across these types of schools to learn effective leadership skills and strategies will be examined. They will identify significant educational issues pertaining to these locales and use problem-solving skills, visitations, recent research and scenarios.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDAM 502 Resource Management, Allocation and Entrepreneurship 3.0 Credits
Students learn to find, use and allocate needed resources for their schools, communities, and organizations from experienced business and school leaders. Management and monitoring technology tools for optimum effective use of resources and how to gain entrepreneurship skills for expanding opportunities to gain new resources will be explored.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDAM 524 Mentoring and Collaborative Leadership 3.0 Credits
Research and experience on mentoring as a critical need in sustaining new teachers, creating renewal for experienced teachers, and building leadership capacity across the staff will be the focus of this course. Specific skills and concepts for effective mentoring/coaching of others and collaborative leadership will be examined. The importance of establishing learning communities in schools will be emphasized with a student's plan for induction within context of supportive school practices.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDAM 526 Interpreting & Evaluating Research & Achievement Data 3.0 Credits
Substantive opportunities for interpreting and evaluating different kinds of research with established criteria will be provided. Ways to lead school teams in analyzing, interpreting and evaluating student achievement data (from several sources, both formative and summative) to monitor student learning, to improve curriculum and instruction, to meet NCLB requirements and for reporting to the community. A balanced perspective in reviewing data from group achievement data to the collaborative analysis of an individual student's work over time will be explored.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDAM 522 [Min Grade: C]

EDAM 528 Research Methodology for Action Research 3.0 Credits
Provides rationale, theoretical constructs and methodology for conducting Action Research within a school and/or classroom setting. Significant practical applications for other school practitioners.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDAM 540 Action Research Project 3.0 Credits
Culminating course in MSEA program. Students will complete the written research project according to established criteria building from the four stages of Action Research completed in previous course work. The research will be shared in an article or summary form on the School of Education website.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDAM 528 [Min Grade: C]

Teacher Education Courses

EDUC 505 Instructional Systems Design 3.0 Credits
This course explores and offers in-depth analysis of relevant theories relating to contemporary application of Instructional Systems Design. The purpose is to provide the student with theoretical, experimental and critical perspectives on instructional design as it is applied in a number of educational venues.

College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 506 Assessment of Young Learners 3.0 Credits
Candidates will demonstrate a thorough understanding of the role of the assessment process in early childhood education. The content will provide graduate candidates with an in-depth review of informal evaluation procedures and classroom-based data collection strategies for young children in inclusive early child care and education settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 510 Computer Applications In Teaching 3.0 Credits
Analyzes issues concerning uses of computing in instruction. Evaluates the microcomputer as an instructional aide in elementary and secondary classroom instruction. Provides hands-on experience with applications in students' subject matter fields to develop competence in selecting and integrating appropriate instructional software for computers found in today's classrooms, with particular focus on the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 511 Computer Skills for Teachers 3.0 Credits
Presents major instructional design concepts students will use in developing their own curricular materials. Describes and discusses various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment. Primarily uses the Macintosh microcomputer and appropriate authoring systems. Provides extensive hands-on instruction and experience using various authoring systems to create many different kinds of instructional tools. Students must be experienced with the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 510 [Min Grade: C]

EDUC 512 Focus on World Geography 3.0 Credits
Through the study of geography, students will be encouraged to find a meaningful framework for understanding the system of human culture on Earth and become familiar with the vast interactive system involving humanity and its natural environment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 513 Elementary Science Teaching Methods 3.0 Credits
Methods for teaching elementary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 514 Science Teaching Methods 3.0 Credits
This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 515 Adolescent Learners in Secondary Schools 3.0 Credits
Enables student to understand the organizational structure of high school programs as related to the diverse needs of the adolescent learner. Students will acquire competence in designing learner-oriented communities of practice in the classroom to foster achievement and overall well-being of the secondary learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 516 Diversity and Today's Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations (and strategies for).
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 517 Math Methods & Content: Early Childhood PK-4 3.0 Credits
Candidates will develop an in-depth understanding of how to effectively deliver standards-aligned academic math content-based on age appropriate understanding and individual and group needs including an appreciation and respect for the individual differences and unique needs of all children in the PK-4 setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 518 Mathematics: Method & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expecting to work, noting the error and correction process as well as gaining an awareness of student's difficulties in mathematics.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 519 Teaching Secondary Mathematics 3.0 Credits
The course focuses on major issues in learning and teaching mathematics in the secondary classroom. Topics will include instructional practices, learning theories, assessment and current research in math. This course also includes multimedia and field-based experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 520 Professional Studies in Instruction 3.0 Credits
For students who lack professional-level classroom teaching in grades K to 12. Examines and develops skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, and identification of instructional resources. Discusses current principles of developmental and learning theories and instructional design applied to teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 521 Typical and Atypical Development in Early Childhood  
Education 3.0 Credits
This course addresses the multifaceted complexities of typical and atypical child development, through the discussion of classic and emerging theories. The primary aim of the course is to foster the students' ability to recognize and apply the connections among developmental domains and of theory and research with educational practice. The readings and class assignments make use of research-based, real-world, and cross-cultural examples.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 522 Evaluation of Instruction 3.0 Credits
Enables the student to acquire competence in evaluation techniques including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. The course covers qualitative and quantitative assessment used in measuring student achievement. Techniques for grading will also be explored.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 523 Diagnostic Teaching 4.0 Credits
Focuses on teaching that attempts to identify the student's level of performance and all the relevant information that contributes to that performance. Involves analysis of material to be learned and implementation of instruction that integrates the learner's cognitive and emotional development with the appropriate part of the knowledge or task to be learned. Investigates various learning styles, including field-dependent/independent, convergent/divergent thinking, right/left brain activity, reflective/impulsive personalities, risk-taking/cautious, and attention to locus of control. Includes analysis and application of generic influences on cognitive, social, emotional, psychomotor, and physical aspects of learning. Investigates curriculum in terms of its psychological nature and selection and development of instructional strategies that enhance learning and prevent learning problems. Provides opportunities to work with elementary and secondary school students in the Drexel Diagnostic Mathematics Learning Laboratory.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 520 [Min Grade: B]

EDUC 524 Current Research in Curriculum & Instruction 3.0 Credits
Examines the relationship of curricula and instruction to current research in learning and knowledge construction, developing higher-order thinking in specific disciplines and content areas, and the role of understanding and metacognition in learning. Complex problems of pedagogy are identified and analyzed (e.g., interdisciplinary curricula, team teaching, collaborative learning), with attention to designing learning goals and outcomes with effective instructional strategies.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 525 Multi-Media Instructional Design 3.0 Credits
Investigates learning theory and its implications for interactive multimedia formats, including the relationship of instructional design principles to selection of media elements (text, video, sound, animation, and graphics) for high-quality design. Examines human-computer interface principles, navigation features, and visual thinking using a wide range of educational software examples. Criteria for software assessment and virtual classrooms are reviewed. Students design and write a software prototype as a group design project. Complex issues and concepts in technology and education are analyzed.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 526 Language Arts Processes 3.0 Credits
Applies contemporary research to processes and problems in teaching oral and written communication, with the basic assumption that listening, speaking, writing, and reading are integrated processes and should be taught as such. Covers analysis and use of instructional strategies for teaching developmental reading and writing, reading and writing in content areas, written correspondence, research reports, journal writing, poetry, and appreciation of children's literature.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 527 Understanding Learning Disabilities 3.0 Credits
Addresses learning disability issues including types of learning disabilities and related general approaches to the assessment and treatment of them. Specific disorders discussed include dyslexia, dyscalculia, attention deficit hyperactivity disorder, social cognition deficit, and disorders of language and hearing.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 528 Cultural and Historical Significance of Mathematics 3.0 Credits
The course explores how mathematics reflects and influences the ideas and movements in culture, history, biography and philosophy. An emphasis on teaching methods is integrated throughout the course.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 529 Early Literacy 3.0 Credits
Course examines research-validated literacy instruction and literacy interventions. Topics include: phonics, fluency, comprehension, vocabulary, and the reading-writing connection. Significant emphasis is placed on the socio-cultural aspects of reading: appreciating linguistic diversity, integrating cultural narratives, building reading communities, and motivating children through authentic reading and writing experiences.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 530 Advanced Techniques in Instruction & Assessment 3.0 Credits
Major professional and educational issues associated with college teaching are addressed. Provides multiple opportunities to develop and enhance teaching skills, as well as exposure to alternative assessment.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit
EDUC 531 College Teaching & Communication Skills 1.0 Credit
This course addresses critical issues in college teaching and communication skills. These are: what is learning, comparative philosophies of education, understanding the adult learner, best practices in integrating technology to enhance learning, methods of evaluation student learning including performance-based assessments and foundations for effective oral and written communication.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers, administrators, librarians, and other professionals in schools responsible for technology and professional development. Online discussion groups, video conferencing, and web-based instruction will be used to form a virtual learning community. There is no field experience component in this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is HRD.

EDUC 533 Designing Virtual Communities 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers and other professionals responsible for technology and professional development. Online discussion groups, video conferencing, and Web-based instruction will be used to form a virtual learning community. This course includes a 20-hour internship for ITS certification.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 534 Developing Educational Leaders Using Technology 3.0 Credits
Addresses leadership and team building competencies that instructional technologists need to work collaboratively with teachers, administrations, parent groups, and the community. Will use technologies that facilitate communication and team building. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 525 [Min Grade: B]

EDUC 535 Researching & Evaluating Instructional Technology 3.0 Credits
Course will focus on teaching and learning technology standards, general applications of technology and basic technology and skills. Will examine and critique educational software and learning technologies, and through research, develop criteria for technology. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 522 [Min Grade: B]

EDUC 536 Distance Learning 3.0 Credits
The course explores pedagogical issues in distance learning. Readings are integrated with hands-on use of the tools used to create distance learning programs.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 537 Learning Disabilities II 3.0 Credits
The course focuses on how to manage instruction for students with special needs in the inclusive classroom.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 538 English Teaching Methods 3.0 Credits
This course is designed to support the development of pre-service teachers in the secondary English/Language Arts Classroom. Students will be provided opportunities to integrate and apply theories of learning, curriculum and pedagogy of English and L. Arts in the secondary classroom. Additional classroom-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 539 Expressive Arts 3.0 Credits
The focus of this graduate course is to teach future educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts), into the PK-4 classroom. Through observation, curriculum development and assessment, educators will be able to identify, administer, interpret and plan instruction for PK-4 learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 540 Field Experience 3.0 Credits
Provides supervised field experience at a cooperating school designed to develop skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, identification of instructional resources, and applications of current research on effective teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 555 Social Studies Teaching Methods 3.0 Credits
Course prepares the preservice teacher in making appropriate decisions about students and instructional processes in the social studies classroom. Perceptions and perspectives as it relates to social studies instruction in the following areas are explored: curriculum standards, unit development, assessment design and construction, interdisciplinary/integrated curriculum planning, specific group strategies, individualizing techniques, instructional technology, and professional development.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 515 [Min Grade: B]

EDUC 556 Secondary Social Studies Methods (7-12) 3.0 Credits
Course provides understanding of effective Social Studies methods in secondary classrooms. History of pedagogical debates within Social Studies, is examined to incorporate effective Social Studies teaching methods. Careful attention is given to the Common Core Standards for Social Studies. Requirements include 30 hours of field experience in a school setting to include at least two lessons taught independently. In order to participate students must have the necessary background clearances.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 515 [Min Grade: B]
EDUC 558 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students’ reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 560 Conflict and Dispute Resolution 3.0 Credits
Examines the concept of conflict and means for its resolution as it occurs between individuals and within organizations. Provides foundational knowledge for professionals practicing in many fields and industries to resolve conflicts in positive ways. Students will examine obvious and hidden organizational conflict and the dispute resolutions systems available to resolve these issues. Includes skill development techniques for dispute resolution to apply learned knowledge.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 561 Mediating and Resolving Conflict in School Settings 3.0 Credits
Current theory and research in the field of conflict resolution and mediation with focus on becoming familiar with evidence-based strategies applicable to challenging environments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 562 Language Learning & Teaching 3.0 Credits
This course introduces participants to foundational theory in both first and second language acquisition and instruction. The course explores how learners acquire language, what influences the learning process, and how instruction best aids that process. A practicum component includes observations of classrooms and tutorials of English language learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 563 Structure and Sound System Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 602

EDUC 564 Structure and Sound System of English 3.0 Credits
This course focuses on the structural features of the English language, including phonetic, phonological, morphological, syntactic and pragmatic features. In the practicum component, participants will collect and analyze language from both native and non-native speakers of English, using it to develop targeted structural exercises for English instruction.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 565 Foundations in Instructing English Language Learners 3.0 Credits
This is a foundations course to prepare all pre-service teachers to work with English Lang. Learners. Focus will be on gaining an understanding of the linguistic, social and academic needs of ELLs and the roles and responsibilities of the classroom teacher in meeting those needs. Field-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 566 Futures Studies in Education and the Workplace 3.0 Credits
Course explains and analyzes the field of futures studies including overview of the origins of futures studies, study of how futures studies methods are and can be utilized in education and a range of other industries, and techniques for developing strategic forecasts and plans. A critical approach is taken to enable an analysis of the field’s strengths and weaknesses.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 601 Language, Learning and Teaching Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 602

EDUC 602 Language Learning & Teaching Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 604 Structure and Sound System Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 605 Design & Assessment Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 606

EDUC 606 Design and Assessment 3.0 Credits
This course emphasizes the role of ESL teachers as course developers and action researchers, focusing on effective lesson planning, task design, materials development, assessment and evaluation, and the use of computers in instruction. In the practicum component, participants will design thematic units, determine objectives, develop materials, and design assessment tools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 607 Intercultural Learner Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 608
EDUC 608 The Intercultural Learner 3.0 Credits
This course explores the needs, experiences, values, and beliefs of culturally and linguistically diverse learners and their families and communities. Building home/school relations and adapting and supporting curriculum through school services will be a focus. For a practicum, participants will engage in a case study of an English language learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 609 Language & Culture in Education 3.0 Credits
The purpose of this course is to explore the identity and cultural backgrounds of English Language Learners (ELLs) in our schools and to discuss the impact of these backgrounds on students' educational progress. The course will address the ways in which teachers can provide an appropriate learning environment for students of diverse backgrounds.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 610 Action Research in Teaching ELLs 3.0 Credits
This course serves as capstone course within the Teaching English as a Second Language (ESL) credential program at Drexel. Candidates integrate content obtained in the prior core courses through an action research project with English Language Learners in a public school setting under the mentorship of an TESL specialist. Candidates also prepare for their transition to an independent ESL program professional by documenting their competencies in a teaching portfolio and creating a professional development plan.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 606 [Min Grade: B] (Can be taken Concurrently)EDUC 602 [Min Grade: B] and EDUC 604 [Min Grade: B] and EDUC 608 [Min Grade: B] and LING 560 [Min Grade: B]

EDUC 620 Physics in the Arts in Philadelphia 3.0 Credits
This course explores the city of Philadelphia to identify “physics” concepts within the city and in its art with the goal for students to become better aware of the importance of STEM (science, technology, engineering and math) in their daily lives. STEM knowledge empowers citizens as consumers and voters. An elementary understanding of the basic principles of science can inform better decisions regarding energy use, environmental protection, and even, dietary and exercise choices. Using the city as a laboratory we will explore learning in informal settings and put theoretical lessons into a real-world context.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 622 The Science of Sport 3.0 Credits
STEM concepts will be learned through the vehicle of sports in which the underlying principles of science and mathematics are discovered. Topics that will be covered in the course include: geometry, forces, motion, mechanics, biomechanics, anatomy and physiology, kinesiology, simple machines, energy transformations, and aerodynamics. Students will learn these concepts while performing aspects of different sports. The purpose is for students to actually see the science and mathematics concepts happening.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 700 Classroom Research for Teachers I 4.5 Credits
This course introduces candidates to teacher research, a form of self-reflective systematic inquiry by practitioners on their own practice. The goals of teacher research are the improvement of practice, a better understanding of that practice, and an improvement in the situation in which the practice is carried out. Also examined will be findings from research on practice and how it can be used to support school and instructional change.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 701 Classroom Research for Teachers II 1.5 Credit
In this second course in a two-course sequence, students will utilize school-based, collected research data. Issues pertaining to the ethics of data collection, data analysis and interpretation and writing the classroom research study will be examined and explored. Students will be mentored in the writing of research with a view toward submission of their research for publication and presentation.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 700 [Min Grade: B]

EDUC 702 School Leadership & Decision Making 3.0 Credits
This course will focus on decision-making in the schools. Emphasis will be placed on major challenges and opportunities in the work world of the principal and the interpersonal skills of school leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 703 School Law and Politics 3.0 Credits
This course is designed to assist students with their understanding of how law, politics, and power structures interact to influence the goals and operations of the schools. Students will study the roles of school boards and community organizations, state boards of education, state government agencies, special interest groups, professional organizations, and unions.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 704 Integration of Technology with School Instruction and Management 3.0 Credits
In this course students will investigate learning theory and its implication for interactive multimedia learning formats including the relationship of instructional design principles to selection of multimedia elements.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 715

EDUC 706 School Finance and Facilities 3.0 Credits
In this course, students will study the school budgeting process and school facilities management. Students will receive an overview of the basic financial and facility issues, unique to education that affect individual school buildings.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 716
EDUC 712 School and Community Partnerships and Relations 3.0 Credits
In this course, students will study the skills, techniques and attitudes school leaders need to work effectively with school constituents.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 718

EDUC 714 Instructional and Curriculum Leadership 3.0 Credits
In this course, students will examine the relationship between school culture and classroom instruction. Students will study the five fundamental tasks of instructional leadership (direct assistance, group development, professional development, curriculum development, and action research). Students will also investigate effective classroom observation methods.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 715 School Principal Internship: Technology 1.5 Credit
This yearlong intensive internship is the activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 708 [Min Grade: C] (Can be taken Concurrently)

EDUC 716 School Principal Internship: Finance 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 710 [Min Grade: C] (Can be taken Concurrently)

EDUC 717 School Principal Internship: Leadership 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 714 [Min Grade: C] (Can be taken Concurrently)

EDUC 718 School Principal Internship: School and Community Relations 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 712 [Min Grade: C] (Can be taken Concurrently)

EDUC 750 Critical Issues in Education Seminar 3.0 Credits
This course is offered in the style of a "proseminar" that consists of reading, reflection and discussion with a faculty member on a focused critical issue in education. Specific foci will change each term and be aligned with faculty expertise and student interests. The course is designed to inform doctoral students on educational issues to impact their teaching and research agenda.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 775 Special Topics in Teacher Preparation 9.0 Credits
Covers various topics of particular interest to teacher education students.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

EDUC 799 Independent Study in Teacher Preparation 0.5-9.0 Credits
Covers various topics of particular interest to teacher education students, explored individually by the student under guidance from an instructional team member.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 800 Educational Leadership & Change 3.0 Credits
Covers leadership characteristics, styles, and profiles along with the dynamics of the change process. Students develop an action plan for a school-based project, keep a log, and do reflective analysis. Students will interview a leader about their experiences in change and develop a leadership portfolio.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 801 Creative Strategies For Educational Leaders 3.0 Credits
Examines the theoretical and research issues pertaining to creativity and the development of the creative thought process. Emphasizes how role playing and drama techniques can become a powerful tool to promote creative thinking, innovation, and change for educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 802 Using and Integrating Learning Technologies 3.0 Credits
Covers learning theories and integrative models as they use instructional software in different contexts and subject areas. Demonstrates strategies for using and implementing multimedia, hypermedia, and electronic networking for candidates to implement in their own school settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 803 Educational Research Design I 3.0 Credits
Introduces students to research design paradigms and the assumptions behind them, use of the literature, developing research questions, qualitative and quantitative procedures, and research study formats.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 804 Program Evaluation in Organizations 3.0 Credits
This course provides an experience in designing effective program evaluations for many purposes. Increasingly, evaluation and assessment are required for education research, research grants, school and organizational reform, and public policy. Students will study the foundations of program evaluation, examine underlying assumptions about the purposes and models of evaluation, and explore the various roles of the evaluator. In studying examples, students will vicariously experience various program evaluations from start to finish and understand the complexities of decision-making that evaluators face.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 806 Linking Educational Theory to Research 3.0 Credits
Course designed to acquaint students with educational theories and perspectives that have shaped the education discipline. A range of educational theories developed throughout 19th, 20th and 21st centuries will be discussed and explored toward guiding students on how these theories and viewpoints apply to research and educational practice today.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 807 Multi- & Cross-Cultural Perspectives in Leadership 3.0 Credits
Course will assist administrators, researchers and scholars to transform schools to address persistent inequities present in US educational systems and serve the needs of disadvantaged and disenfranchised groups. Course will deepen students' knowledge of multicultural education and advance their skills and talents as educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 809 Introduction to Data Collection and Analysis 3.0 Credits
This course prepares students to collect basic quantitative and qualitative data to be analyzed in a subsequent required course. Students will be introduced to educational research data and implications and use in research.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: B] and EDUC 810 [Min Grade: B]

EDUC 810 Educational Research Design II 3.0 Credits
The course builds upon Educational Research Design I and focuses on five main themes: research design, sampling design, data collection, data analysis, and reporting research results using educational applications.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 803 [Min Grade: C]

EDUC 811 Designing and Developing Multimedia Applications For Learning 3.0 Credits
Allows students to design and develop a multimedia application for learning using an object-oriented authoring application and the process of design, development, and testing. Demonstrates and applies principles of learning that affect interface design, instructional design, storyboarding, navigation, interactivity, and feedback design.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 812 Staff Development & Team Building 3.0 Credits
Helps educational leaders explore effective models for professional development in schools and school districts. Covers the development of effective strategies and practices based upon current research, adult learning theory, and successful local and national models. Also provides in-depth training in the area of effective meeting design, involvement, and decision-making.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 813 Educational Issues Seminar 3.0 Credits
Examines current issues in public education, including school community, staff relations, integrating educational innovation, negotiating the bureaucracy, public charter schools, and urban education.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 814 Designing Educational Organizations 3.0 Credits
Examines innovation in rostering, scheduling, and defining the instructional program. Emphasizes middle school education and design of small learning communities such as the cluster concept and public charter schools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 815 Writing for Research, Publication and Funding in Education 3.0 Credits
Guides students in the writing for research, publication, and funding in education by studying examples of effective writing formats written by successful practitioners and by using an active writing process approach: writing drafts, and giving feedback in small peer groups. Students produce a final document for each type of writing that employs authentic tasks and assessments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 816 Inclusion Issues 3.0 Credits
Examines the various inclusion models whereby children with special needs become part of the teaching and learning community in which everyone-teacher and all students-can benefit by an inclusive program. Addresses such topics as how administrators may take leadership in implementing inclusion and designing an inclusive school.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 817 Curriculum Models 3.0 Credits
Allows candidates to develop models of curricula aligned with local, state, and national standards. Presents strategies for interdisciplinary teaching, creating constructivist learning environments, and developing integrative curriculum modules. Considers learning styles in effective methods that will be modeled and implemented in the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 818 Applied Research Study 0.5-20.0 Credits
Offers candidates a field-based opportunity to design and implement a pilot research study that will be presented and defended. Steps include framing the question and methodological approach, collecting and analyzing data, interpreting the results, and writing a report. Students document their research activities in a log. Research approaches can include action research, case studies, experimental designs, etc.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 820 School Superintendency 3.0 Credits
This course is designed to provide both theoretical and practical insights into the evolving responsibilities associated with being the chief executive office of a school system.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 801 [Min Grade: C] and EDUC 802 [Min Grade: C]

EDUC 824 Parents and Schools 3.0 Credits
This course provides the candidate with the skills required by system-level administrators to work with a broad spectrum of constituencies. Students will focus on the major issues facing families, especially those that mitigate against strong home-school relations, such as poverty, domestic violence, and drug abuse.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: B]
Corequisites: EDUC 828

EDUC 827 School Superintendent’s Internship: Curriculum Models 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 820 [Min Grade: C]

EDUC 828 School Superintendent’s Internship: Parents and Schools 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: C]
Corequisite: EDUC 824

EDUC 829 School Superintendent’s Internship III 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate’s career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 828 [Min Grade: C]

EDUC 830 School Superintendent’s Internship IV 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 829 [Min Grade: C]

EDUC 835 Quantitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 810. Use of statistical methods using real-world problems and real-world data to gain experience with following topics: analysis of variance and covariance, simple and multiple linear regression, multivariate techniques of factor analysis, cluster analysis and multi-level and structural equation modeling. Course includes a lab for practice-based learning using SPSS.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: C] and EDUC 810 [Min Grade: C]

EDUC 836 Qualitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 835. Use of qualitative methods using real-world problems and real-world data to gain experience with following research techniques such as ethnography and case studies to gain skills in participant observation, interviewing, archival research and historical analysis. Other theoretical frameworks and methodological approaches for qualitative research will be discussed. Course includes a lab for practice-based learning to use computer software for data collection/analysis.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 835 [Min Grade: C]

EDUC 840 Theories of Individual Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective from an individual cognitive perspective and will include emphasis on both recent research and seminal literature. The course will be an introduction to the psychological foundations of STEM education. This course is the first in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 842 Social Foundation and Group Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective and will include emphasis on both recent and seminal literature. The course will include an introduction to the sociocultural research and foundations of STEM education. This course is the second in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
EDUC 844 Creativity and Innovation in STEM Education 3.0 Credits
This course will provide a foundation of creativity, innovation theory, awareness of research and seminal literature in the context of STEM education. Theories of creativity and creative thinking, the methods for studying creativity and the biological basis of creativity. The course is the third in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 880 Doctoral Seminar 1.0 Credit
Seminar to prepare students who have completed the core doctoral courses and residency requirement to work with their Dissertation Advisor in the development of their dissertation research proposal.

College/Department: School of Education
Repeat Status: Can be repeated 10 times for 10 credits
Prerequisites: EDUC 810 [Min Grade: B] and EDUC 811 [Min Grade: B] and EDUC 813 [Min Grade: B]

EDUC 998 PhD Dissertation 1.0-12.0 Credit
Allows candidates to conduct an original research study that will comprise the dissertation.

College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

Master of Science in Global and International Education

About the Program
The MS in Global and International Education is designed to prepare students with the skills and knowledge necessary to work effectively within the complex economic, political, cultural, and social contexts that influence education and learning in diverse parts of the world. In addition to being aware of the global trends and issues of diverse approaches to education, students will develop the attitudes necessary to support learners and learning within and beyond mainstream educational systems.

Today, leaders are needed who are trained with the skills and practical knowledge required to work effectively within the context of global economic, political, cultural, and community influences on education, are aware of global trends and issues in the field of education, recognize the various dimensions of educational interventions and are able to analyze the implications for learners within and beyond mainstreams, and can critique the roles and approaches of international, comparative, and educational research. The program provides these necessary tools, experiences, understandings, and related attitudes.

Program Objectives
The mission of the Master of Science in Global and International Education program is to prepare students with the skills, knowledge, and attitudes necessary to work effectively with the complex economic, political, cultural, and social contexts that influence education and learning in diverse parts of the world. In addition to being aware of global trends and issues of diverse approaches to education, students will develop the attitudes necessary to support learners and learning within and beyond mainstream educational systems.

Graduates of this program will be qualified to pursue careers in higher education, ESL programs, education abroad, law firms, international education associations, accreditation agencies, local community international outreach centers, US government, international development or human service agencies, non-governmental agencies, as well as act as administrators, managers, and researchers in national and international organizations, foundations, associations, and corporations.

Graduates of this program will lead their organizations in addressing the dramatic change in society and culture due to globalization and how these influence education.

The program is designed as a part-time cohort model, and can be completed in two years. View the degree requirements for more detailed information about the courses.

Admission Requirements
- Bachelor's degree from a regionally accredited institution
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA)
- Completed Application
- Official Transcripts (from all colleges attended)
- Essay discussing your professional goals and interests in the program
- Two Recommendation Letters – Academic or Professional
- Proof of state-issued special education teacher certificate required

For more information about this program, contact the Program Manager/ Academic Advisor:

Samantha Mercanti-Anthony
School of Education
Admission Requirements

Admission to this program requires:

- **Bachelor’s degree** from a regionally accredited institution
- An undergraduate **GPA of 3.0 or higher** (graduate degree GPAs will be considered along with the undergraduate GPA).
- **Graduates of foreign schools** must also have of 550 or higher in the Test of English as a Foreign Language (TOEFL).
- Completed **Application Form**.
- **Official transcripts** from all universities or colleges and other post-secondary educational institutions (including trade schools) attended. Instead of hard copy transcripts, applicants may supply official electronic transcripts issued by a post-secondary institution directly to Drexel University Online (send to: customerservice@drexel.com).

Applicants must supply transcripts regardless of the number of credits earned or the type of school attended. If an applicant does not list all post-secondary institutions on the application and these are listed on transcripts received from other institutions, processing of the application will be delayed until all remaining transcripts have been submitted the remaining transcripts.

Use our Transcript Lookup Tool (http://www.drexel.com/tools/transcript.aspx) to assist contact with previous institutions. If a college or university offers the option to send transcripts in a secure, password-protected electronic format, have the transcript sent to customerservice@drexel.com.

- **Two letters of recommendation** - professional or academic.
  - Drexel University Online now accepts electronic letters of recommendation. Please access the following webpage for instructions regarding their submission: http://www.drexel.edu/apply/recommend. If a recommender prefers to submit an original, hard copy letter of recommendation, please remind the recommender that it must be signed and submitted in a sealed envelope signed across the flap by the recommender.
- **Personal Essay**
- **Resume**.
- **International Students** must submit a TOEFL score of 550 or higher. Students with transcripts from non-US institutions should have such transcripts evaluated by World Education Service (WES). The TOEFL examination is required for some non-citizens. Applicants whose native language is English (who list themselves as born in or citizens of the following countries: American Samoa, Australia, Bahamas, Barbados, Belize, Bermuda, Botswana, British West Indies, Brunei Darussalam, Canada, England, Ghana, Guam, Ireland, Jamaica, Lesotho, Liberia, Malawi, Malta, Mauritius, New Zealand, Papua New Guinea, Puerto Rico, Scotland, Sierra Leone, South Africa, Swaziland, Tanzania, Trinidad/Tobago, Uganda, Virgin Islands, Wales, Zimbabwe) are exempt from the TOEFL. Applicants whose native language is not English are exempt from the TOEFL if the applicant completed 4 years of high school in the United States or completed English 101 and English 102 with a grade of C or better from a US domestic accredited institution.

Please refer to Drexel Online’s Master of Science in Global & International Education Admissions (http://www.drexel.com/online-degrees/education-degrees/ms-global/admissions.aspx) page for additional information.

Degree Requirements

A Master of Science in Global and International Education is a part-time online program. Students complete six core courses, four primary concentration courses, three secondary concentration courses, an elective and a capstone course.

### Core Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDHE 680</td>
<td>Foundations of Evaluation</td>
<td>3.0</td>
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<tr>
<td>EDGI 500</td>
<td>Introduction to Global, International &amp; Comparative Education</td>
<td>3.0</td>
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<tr>
<td>EDGI 504</td>
<td>History and Theory of Comparative Education</td>
<td>3.0</td>
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<tr>
<td>EDGI 510</td>
<td>Culture, Society &amp; Education in Comparative Perspective</td>
<td>3.0</td>
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<tr>
<td>EDGI 512</td>
<td>Globalization and Educational Change</td>
<td>3.0</td>
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<tr>
<td>EDGI 520</td>
<td>Comparative Economics of Education</td>
<td>3.0</td>
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### Primary Concentration Courses

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<tr>
<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>EDGI 506</td>
<td>Comparative Higher Education Systems</td>
<td>3.0</td>
</tr>
<tr>
<td>EDGI 508</td>
<td>Understanding Research in International &amp; Comparative Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDGI 514</td>
<td>Education and National Development</td>
<td>3.0</td>
</tr>
<tr>
<td>EDGI 518</td>
<td>Analysis of Policy Issues in Global &amp; International Education</td>
<td>3.0</td>
</tr>
</tbody>
</table>

### Capstone Requirement

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDGI 715</td>
<td>Co-op with Portfolio</td>
<td>1.5</td>
</tr>
<tr>
<td>EDGI 716</td>
<td>GIE Co-op Experience with Seminar</td>
<td>4.5</td>
</tr>
</tbody>
</table>

### Select one of the following Secondary Concentrations:

#### Secondary Peace Education Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDGI 530</td>
<td>Peace Education</td>
<td></td>
</tr>
<tr>
<td>EDGI 532</td>
<td>International Organizations in International Education</td>
<td></td>
</tr>
<tr>
<td>EDGI 534</td>
<td>Conflict Resolution in an International Context</td>
<td></td>
</tr>
</tbody>
</table>

#### Secondary Higher Education Concentration

Select 3 of the following Higher Education courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 500</td>
<td>Foundations of Higher Education</td>
<td></td>
</tr>
<tr>
<td>EDHE 510</td>
<td>Governance, Management &amp; Administration in Higher Education</td>
<td></td>
</tr>
<tr>
<td>EDHE 520</td>
<td>Student Development &amp; Customer Service Management</td>
<td></td>
</tr>
<tr>
<td>EDHE 530</td>
<td>Higher Education Law</td>
<td></td>
</tr>
</tbody>
</table>

### Secondary E-Learning Leadership Concentration

Select 3 of the following E-Learning Leadership courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELL 501</td>
<td>The Purpose and Business of E-Learning</td>
<td></td>
</tr>
<tr>
<td>ELL 502</td>
<td>E-Learning Technologies</td>
<td></td>
</tr>
<tr>
<td>ELL 503</td>
<td>Teaching and Learning Issues in E-Learning</td>
<td></td>
</tr>
<tr>
<td>ELL 504</td>
<td>Learning Technologies &amp; Disabilities</td>
<td></td>
</tr>
<tr>
<td>ELL 604</td>
<td>Design &amp; Delivery of E-Learning I</td>
<td></td>
</tr>
</tbody>
</table>
Secondary Educational Policy Concentration

Select 3 of the following Educational Policy courses

EDPO 620 Education Policy: Concepts, Issues, and Applications
EDPO 624 Shaping of American Education Policy: Global Forces
EDPO 632 Ethics in Educational Policy Making
EDPO 636 Access & Equity in Educational Policy Making

Secondary Learning Technology Concentration

Select 3 of the following:

EDLT 538 New Media Literacies
EDUC 535 Researching & Evaluating Instructional Technology
EDLT 537 Technologies for Performance Support
EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience

Sample Electives

Students can select courses as additional electives from within the School of Education or a course (with School of Education approval) from another Drexel University program, such as international business administration, foreign languages, women’s studies, or science/technology/society.

EDGI 600 Study Abroad Experience
EDGI 610 International Ecotourism & Education

Total Credits 45.0

* As an alternative secondary concentration, students may create a customized area of study from other Drexel University departments/programs such as International Business Administration, Women’s Studies, or Science/Technology/Society.

** To complete the Drexel Educational Policy Certificate, students complete 2 additional 3-credit courses: EDPO 628 and EDPO 640.

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Arouitis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early
schooling experiences in prekindergarten and kindergarten on children’s achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O’Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation.

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.

Mary Jean Tece DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph's University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development.

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.
Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Courses

EDGI 500 Introduction to Global, International & Comparative Education 3.0 Credits
Exploration and Analysis of international and comparative education. Comparative method serves as the framework to understand comparative analysis. Theories of the state serves as the framework to understand global theories of education across cultures.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 502 Global, International and Comparative Education II 3.0 Credits
Exploration of tradition of national culture and its influence on education as well as an examination of educational and societal developments from a comparative cross-national perspective.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 504 History and Theory of Comparative Education 3.0 Credits
Examination of the history of comparative education development and higher education systems of different nations as well as analysis of issues related to comparative education research and the internationalization of globalization of postsecondary education.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 506 Comparative Higher Education Systems 3.0 Credits
Examination of higher education systems around the world including the cultural and historical bases of these systems and their spread across the globe.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 508 Understanding Research in International & Comparative Education 3.0 Credits
Examination of major concepts, methods and current trends in international and comparative education research.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 510 Culture, Society & Education in Comparative Perspective 3.0 Credits
Exploration of global education through concepts of culture, cultural relativism and ethnocentrism from a comparative perspective.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 512 Globalization and Educational Change 3.0 Credits
Exploration of issues related to economic globalization, politics of globalization, educational change, and the ways individuals and groups of people have changed and must further change to meet new global challenges in the 21st Century.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 514 Education and National Development 3.0 Credits
Exploration of the role of education as a primary agent of the socio-economic, cultural and technological advancement of developing countries in world regions.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 518 Analysis of Policy Issues in Global & International Education 3.0 Credits
Analysis of current public policy issues using various models of policy analysis across cultures and the globe with specific emphasis in creating, monitoring and evaluating frameworks to guide education sector policy work.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 520 Comparative Economics of Education 3.0 Credits
Focus on the principal issues in the economics of education and in education and economic development.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 522 Comparative Education 3.0 Credits
Examination of the conditions required for the construction of peace, the various forms of conflict, philosophical bases of human rights, discrimination with particular focus on curriculum reform that emphasizes knowledge, understanding and respect for cultures of others at the national/global level.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDGI 532 International Organizations in International Education 3.0 Credits
Examine current international organizations, foreign assistance and their influence on educational policy. Both public and private organizations will be explored.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 533 Culture and Learning: From Violence Toward Peace 3.0 Credits
This course provides students with a critical understanding of the role of “culture” in influencing the dynamics of conflicts, including those that can be manifested in physical violence, as well as strategies for resolving or transforming such conflicts. Expressions of forms of discrimination, including prejudices, stereotyping, xenophobia, ethnocentrism and racism will be considered as important basic conceptual tools for peace educators in resolving intercultural conflicts.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 534 Conflict Resolution in an International Context 3.0 Credits
Examination of conceptual underpinnings of peace and conflict resolution and the paradigmatic models of conflict resolution currently practiced, as well as the substantive enquiry into a variety of approaches to building peace at local, national and global levels.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 535 Practices of Conflict Management & Peace Building 3.0 Credits
This course focuses on the development of practical and conceptual tools for the transformation of conflict on the micro-level. Taking the perspective that all participants will be involved in both conflict and ‘peace processes’ of different sorts and in different capacities throughout their future professional and personal lives, the aim is to engage with these processes through various situational learning exercises. This will provide an opportunity for the practical deployment and development of peace-building skills.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 536 Action Strategies for Peace Education 3.0 Credits
The major assumption of this course is that peace education is a challenge and a need to face not only in formal educational systems but also in community settings, non-formal and informal education. This course will examine the implementation of peace education programs linked to various settings, and analyze the challenges and issues of the different approaches of governments, communities, and other institutions. The course explores concepts such as citizenship, respect, learning community and interactive dialog.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 541 Special Issues in Sustainability 3.0 Credits
The environmental movement of the 1960s and 1970s started as a reaction to the ecological degradation of the environment; in the 1980s and 1990s the sustainability revolution emerged, but what is sustainable development and how does it apply to education? Through readings, videos and board discussions, this class will examine concepts that include ecological footprint, ecocriticism, advertisement awareness, technology appraisal, ecological intelligence, systems thinking, etc. There are various schools of thought regarding sustainability in three areas – the environment, the economy, and society.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDGI 600 Study Abroad Experience 3.0 Credits
From a city-base in a foreign country, student actively engages in a country’s literary, artistic, and cultural traditions through firsthand encounters with literary specialists, authors, artists, and artisans. Homestay model serves as portal for enhanced opportunities for language acquisition, cultural analysis and interpretation.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is GIED.

EDGI 610 International Ecotourism & Education 3.0 Credits
From a city-base in a foreign country, student integrates the different perspectives of diverse natural, biological and social science disciplines to improve understanding of relationships between human societies and the natural environment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is GIED.
Corequisite: EDGI 600

EDGI 715 Co-op with Portfolio 1.5 Credit
Students participate in 10 weeks of a part time co-op to provide students with real-life, hands-on experience in international development. Weekly seminar component.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is GIED.
Prerequisites: EDGI 514 [Min Grade: C]

EDGI 716 GIE Co-op Experience with Seminar 4.5 Credits
Students continue to identify career fields and professional development opportunities in the field of global and international education through action research. Students gain practical skills through a co-operative learning assignments/placement and complete a culminating project and/or research as proposed in EDGI 715.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is GIED.
Prerequisites: EDGI 715 [Min Grade: C]

Master of Science in Higher Education
Master of Science: 45.0 quarter credits
About the Program
The MS in Higher Education program is designed specifically to prepare highly skilled and knowledgeable practitioners for administrative and management careers in higher education in the United States and abroad. Graduates will be qualified to pursue careers as professionals in university and college offices as well as careers in national and international organizations, foundations, associations, and corporations.

Program Objectives
Students graduating with an MS in Higher Education will possess outstanding leadership, organizational, interpersonal and advocacy skills, including the ability to communicate effectively with internal and external groups. Students will be provided with in-depth knowledge regarding both public and private (non-profit and for-profit) institutions, as well as small and large institutions and multi-campus institutions.

About the Curriculum
The curriculum incorporates an interdisciplinary approach, with courses offered through the School of Education and The LeBow College of Business. The program integrates leading learning strategies and instructional technologies into the course delivery. Courses introduce students to best practices, current research, software applications and database management systems. Students demonstrate knowledge and skills through both individual and group projects.

This program is 45.0 credits and consists of 14 courses: 6 core courses, 4 primary concentration courses, 3 elective courses or secondary concentration courses, and 1 capstone course (co-op with portfolio).

Primary concentration areas include:
- administration and organizational management

Secondary areas of concentration include:
- academic development, technology and instruction
- community college administration and leadership
- enrollment management
- financial management in higher education
- institutional advancement
- institutional research and planning
- student development and affairs

The program is designed as a part-time cohort model, and can be completed in two years.

Additional Information
For additional information, visit Drexel University’s Higher Education, Administration and Leadership (http://drexel.edu/soe/academics/graduate/higher-education) page.

Admission Requirements
Applicants for the program will follow the university standards for admission to graduate study. In addition, the admissions committee will evaluate the applicant’s potential and commitment to succeed in graduate study in higher education and at least one of the two program delivery formats. The applicant’s potential to contribute to the overall quality of the program of study will also be considered.

Prospective students are required to submit the following:
- Completed Application Form
- Transcripts (must be provided for every institution attended)
- Referrals (two letters are required)
- Personal Essay

Prospective students must apply through Drexel Online (http://www.drexel.com) using the online application (http://www.drexel.com/Fields_of_Study/education/MSHE/apply.asp). Additional information about how to apply is available on the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/programs/edu/higher-education) website.

Degree Requirements
This Master of Science in Higher Education program consists of 14 courses: 6 core courses, 4 primary concentration courses, 3 elective courses or secondary concentration courses, and 1 capstone course (co-op with portfolio).

Core Courses
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 500</td>
<td>Foundations of Higher Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 510</td>
<td>Governance, Management &amp; Administration in Higher Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 520</td>
<td>Student Development &amp; Customer Service Management</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 530</td>
<td>Higher Education Law</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 602</td>
<td>Managing Campus Operations</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 714</td>
<td>Introduction to Research Methods</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Capstone
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 715</td>
<td>Higher Education Co-op I with Portfolio</td>
<td>1.5</td>
</tr>
<tr>
<td>EDHE 716</td>
<td>Higher Education Co-op II</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Primary Concentration
Students complete the four required courses for the primary concentration:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDHE 540</td>
<td>Outcomes, Assessments &amp; Continuous Improvement</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 601</td>
<td>Strategic Planning &amp; Evaluation</td>
<td>3.0</td>
</tr>
<tr>
<td>EDHE 606</td>
<td>Higher Education Career Development</td>
<td>3.0</td>
</tr>
<tr>
<td>ORGB 631</td>
<td>Leading Effective Organizations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Electives or Secondary Concentration (See Below)
Students select either any three elective courses (from offerings within the School of Education) or three courses within the secondary concentrations offered. Courses within a student’s primary concentration do not count as electives.

Total Credits

45.0

Electives or Secondary Concentration

Secondary Concentration in Adult Education
Select three of the following:
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAE 601</td>
<td>Foundations of Adult Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDAE 602</td>
<td>Adult Learning and Development</td>
<td>3.0</td>
</tr>
<tr>
<td>EDAE 603</td>
<td>Program Planning: Assessment &amp; Evaluation of Adult Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDAE 604</td>
<td>Instructional Design and Delivery Strategies</td>
<td>3.0</td>
</tr>
<tr>
<td>EDAE 605</td>
<td>Instructional Skills for Teaching Adults Online</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Secondary Concentration in Global and International Education
Select three of the following:
EDGI 500 Introduction to Global, International & Comparative Education 3.0
EDGI 506 Comparative Higher Education Systems 3.0
EDGI 508 Understanding Research in International & Comparative Education 3.0
EDGI 510 Culture, Society & Education in Comparative Perspective 3.0
EDGI 512 Globalization and Educational Change 3.0

Secondary Concentration in Higher Education Educational Policy
Required
EDPO 620 Education Policy: Concepts, Issues, and Applications 3.0
Select two of the following:
EDPO 624 Shaping of American Education Policy: Global Forces 3.0
EDPO 632 Ethics in Educational Policy Making 3.0
EDPO 636 Access & Equity in Educational Policy Making 3.0
EDPO 640 Educational Policy-Making Tactics & Influence 3.0

Secondary Concentration in Community College Administration and Leadership
Select three of the following:
EDHE 634 Proposal Writing & Sponsored Project Management 3.0
EDHE 664 Strategies for Educational Success 3.0
EDHE 668 Transformational Leadership 3.0
EDHE 669 Diversity in Higher Education 3.0

Secondary Concentration in Institutional Development and University Relations
Select three of the following:
EDHE 610 Institutional Advancement 3.0
EDHE 614 Alumni Relations 3.0
EDHE 616 Institutional Communications, Marketing & Public Relations 3.0
AADM 650 Fund Development for the Arts 3.0

Secondary Concentration in Financial Management
Select three of the following:
BUSN 501 Measuring and Maximizing Financial Performance 3.0
EDHE 602 Managing Campus Operations 3.0
EDHE 624 Capital Financing, Business Development & Asset Management 3.0
EDHE 626 Public-Private Funding and Legal Issues 3.0

Secondary Concentration in Institutional Research
Select three of the following:
EDHE 640 Foundations of Institutional Research 3.0
EDHE 644 Student Assessments & Academic Program Evaluation 3.0
EDHE 646 Survey Tools, Statistical Software & Effective Reporting 3.0
EDHE 680 Foundations of Evaluation 3.0
EDUC 803 Educational Research Design I 3.0

Secondary Concentration in Enrollment Management
Select three of the following:
EDHE 650 Introduction to Enrollment Management 3.0
EDHE 652 Enrollment Marketing, Recruitment & Retention 3.0
EDHE 654 Financial Aid & Enrollment Management 3.0
EDHE 656 Enrollment Management Database Systems & Management 3.0

Secondary Concentration in Learning Technologies and Instructional Design
Select 3 of the following:
EDLT 536 Learning Sciences and Instructional Design 3.0
EDLT 537 Technologies for Performance Support 3.0
EDLT 550 Introduction to Instructional Design 3.0
ELL 502 E-Learning Technologies 3.0
ELL 504 Learning Technologies & Disabilities 3.0

Secondary Concentration in Student Development and Affairs
Select three of the following:
EDHE 652 Enrollment Marketing, Recruitment & Retention 3.0
EDHE 662 Critical Issues in Student Affairs 3.0
EDHE 663 Safety and Crisis Management 3.0
EDHE 664 Strategies for Educational Success 3.0
EDHE 669 Diversity in Higher Education 3.0

* If students have completed EDPO 632 as part of the primary concentration, it may not be used for the secondary concentration. In this case, students must select another EDPO course from the list.

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

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Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

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Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P.ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Master of Science in Human Resource Development

Master of Science: 45.0 quarter credits

About the Program

The MS in Human Resource Development program, with its strong emphasis on learning theory, is designed to prepare students with the competencies for success in promoting individual and organizational learning world wide. The online curriculum is both practice-oriented and research-based. Drexel’s program is unique in the inclusion of a substantial co-op/capstone experience.

Human resource development refers to the principles, methods, and techniques for assessing and responding to the learning and development needs of employees and their organizations. The Master of Science in Human Resource Development prepares students to have a positive direct and indirect influence on the future of human resource development in its many forms. The program is designed to prepare graduates for strategic roles in promoting employee and organizational learning in various national and multi-national organizations, as well as to promote the use and integration of technology to support organizational learning.

The MS degree in Human Resource Development incorporates an interdisciplinary curriculum. Students may choose an area of concentration in either strategic human resources, evaluation and return on investment, instructional systems design and e-learning, or project management. The program integrates leading learning strategies and instructional technologies into course delivery. Courses expose students to best practices, current research, software applications, and database management systems. Students demonstrate their knowledge and skill acquisition through individual and group projects.

For additional information, contact the School of Education (http://www.drexel.edu/soe) or view the master’s degrees online on the Drexel Online (http://www.drexel.com) web site.

Admission Requirements

Applicants for the program will follow the university standards for admission to graduate study. Prospective students must have earned a bachelor’s degree from an accredited institution and have an undergraduate GPA of 3.0 or higher to be considered for admission (graduate degree GPAs will be considered along with the undergraduate GPA). In addition, prospective students are required to submit the following:
• Completed Application Form, including official transcripts from all universities or colleges attended
• Two letters of recommendation
• Personal essay
• Resume
• Application fee

The admissions committee will evaluate the applicant’s potential and commitment to succeed in graduate study in the online environment. The applicant’s potential to contribute to the overall quality of the program of study will also be considered.

Interviews, in person or by phone, will be conducted by the admissions committee with those applicants who meet Graduate Admission’s standard admissions criteria.

Decisions will be made using dates corresponding to the regular university schedule for rolling admissions in Graduate Admissions.

For additional information, contact the School of Education (http://www.drexel.edu/soe) or view the master's degrees online on the Drexel Online (http://www.drexel.com) website.

Find additional details about how to apply on the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/programs/edu/hrd-resource-development) website.

**Degree Requirements**

The program requires 45.0 credit hours, consisting of 30.0 hours of core coursework and a 6.0 credit capstone course that includes a co-op project and results in the submission of a professional portfolio. In addition, students complete one of the following 9.0 credit concentrations:

• Strategic human resources
• Evaluation and return on investment (ROI)
• Instructional systems design (ISD) and e-learning
• Project management

**Core Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHRD 500</td>
<td>Foundations of Human Resources Development</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 600</td>
<td>Organizational Consulting</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 601</td>
<td>Leading and Evaluating Change</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 602</td>
<td>Coaching and Mentoring for Sustainable Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 604</td>
<td>Development of Human Resources</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 606</td>
<td>Human and Organizational Performance</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 607</td>
<td>Global Human Resource Development</td>
<td>3.0</td>
</tr>
<tr>
<td>EHRD 609</td>
<td>Training and Development</td>
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</tr>
<tr>
<td>EDHE 660</td>
<td>Principles of Adult Education</td>
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</tr>
<tr>
<td>EDUC 804</td>
<td>Program Evaluation in Organizations</td>
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</table>

**Capstone Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHRD 715</td>
<td>Capstone Co-op with Portfolio I</td>
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<tr>
<td>EHRD 716</td>
<td>Capstone Co-op with Portfolio II</td>
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**Concentration Options**

Students must select one concentration and complete all 9.0 credits of the required courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHRD 605</td>
<td>Organizational Learning &amp; Strategy</td>
</tr>
<tr>
<td>EHRD 610</td>
<td>Strategic Competencies for HRD Leaders</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORGB 631</td>
<td>Leading Effective Organizations</td>
</tr>
<tr>
<td>EDHE 682</td>
<td>The Evaluation Process</td>
</tr>
<tr>
<td>EDHE 684</td>
<td>Evaluation and Assessment in Practice</td>
</tr>
<tr>
<td>EHRD 608</td>
<td>Evaluating the Value &amp; Impact of Human Resource Development Interventions</td>
</tr>
</tbody>
</table>

**Instructional Design & E-Learning Concentration Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHRD 607</td>
<td>Instructional Design</td>
</tr>
<tr>
<td>ELL 501</td>
<td>The Purpose and Business of E-Learning</td>
</tr>
<tr>
<td>ELL 502</td>
<td>E-Learning Technologies</td>
</tr>
</tbody>
</table>

**Project Management Concentration Courses:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJ 501</td>
<td>Introduction to Project Management</td>
</tr>
<tr>
<td>PROJ 502</td>
<td>Project Planning &amp; Scheduling</td>
</tr>
<tr>
<td>PROJ 603</td>
<td>Project Leadership &amp; Teamwork</td>
</tr>
</tbody>
</table>

**Total Credits: 45.0**

**Education Faculty**

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

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Bernard Lentz, PhD (*Yale University*) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

**Master of Science in Learning Technologies**

**About the Program**

**Master of Science Options**

- **Master of Science in Learning Technologies**
  - MS degree with Instructional Technology Specialist, Game-based Learning, Instructional Design, or E-Learning Leadership concentration: 45.0 quarter credits
  - MS degree with Instructional Technology Specialist PA Certification (with previous teacher certification): 45.0 quarter credits
  - MS degree with Instructional Technology Specialist PA Certification (without previous teaching certification): 49.5 quarter credits

**Scope of the Program**

The School of Education offers an MS in Learning Technologies program to prepare graduate students to meet the challenges schools, educational and corporate organizations face related to technology learning needs. Students can select an instructional technologies specialist concentration, a certificate concentration that prepares for the PA Certification in Instructional Technologies Specialist, or the following concentrations:

- E-Learning Leadership ([https://nextcatalog.drexel.edu/graduate/schoolofeducation/learningtechnologies/#degreerequirementstext](https://nextcatalog.drexel.edu/graduate/schoolofeducation/learningtechnologies/#degreerequirementstext))
- Instructional Design ([https://nextcatalog.drexel.edu/graduate/schoolofeducation/learningtechnologies/#degreerequirementstext](https://nextcatalog.drexel.edu/graduate/schoolofeducation/learningtechnologies/#degreerequirementstext))
- Instructional Technology Specialist
- Learning in Game-based Environments

The MS in Science and Learning Technologies program provides multiple field experiences, extensive skill development in coaching and mentoring, and a yearlong internship for hands-on experiences in various settings. Each student will develop a unique plan of study in cooperation with an advisor. Students are expected to maintain a continuous registration and will be encouraged to take two courses per term until completion of their program of study.

Courses are offered in an online format. The program also features occasional on-campus events and an annual conference for presentation of program participant research papers and projects, as well as invited keynote speakers, workshops and poster sessions.

**Additional Information**

For additional information about this program, contact the Program Manager:

Samantha Mercanti-Anthony
Program Manager
School of Education
Admission Requirements

Each candidate to the MS in Science and Learning Technologies will submit the following application materials:

- Completed application form
- Appropriate application fee
- Transcripts (must be provided for every institution attended)
- Personal essay, providing commitment to program’s unique features
- Professional resume

Admission to the MS in Learning Technologies program will follow the University standards for admission to graduate study including the receipt of a Bachelor’s degree from an accredited college or university with an earned GPA of 3.0 on a 4.0 scale.

Undergraduates who meet the rigorous requirements for participation in an MS program also may be considered. Ideally, a successful candidate will possess a public school teaching certificate or, in the case of an undergraduate pursuing the BS /MS track, complete teacher certification requirement in conjunction with the MS degree. For additional information, contact the School of Education. (http://www.drexel.edu/soe)

Information about how to apply is available on the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/apply/overview) website.

Degree Requirements

Depending on their goals and interests, students completing the MS in Learning Technologies choose either the Instructional Technology Specialist concentration, the Instructional Technology Specialist PA Certification option, or the Learning in Game-Based Environments concentration.

Required Courses

**Core Courses**

- **EDAM 528** Research Methodology for Action Research 3.0
- **EDLT 536** Learning Sciences and Instructional Design 3.0
- **EDLT 537** Technologies for Performance Support 3.0
- **EDLT 538** New Media Literacies 3.0

**Internship/Co-op (2 terms)**

- **EDLT 539** EDLT Co-op Seminar Course I 1.5
- **EDLT 540** EDLT Co-op Seminar Course II 4.5

**Professional Electives**

Electives are selected with the approval of an advisor from within the School of Education or from other Drexel programs. *

| Total Credits | 19.5-27 |

* Electives are selected with the approval of an advisor from within the School of Education or from other Drexel programs. The total number of credits for graduation for the MS in Learning Technologies is a minimum of 45.0.

- 1.5 credits of professional electives for students pursuing the Instructional Technology Certification option without prior teaching certification
- 6.0 credits of professional electives for students pursuing the Instructional Technology Certification option with prior teaching certification
- 9.0 credits of professional electives for students pursuing ITS, ELL, LGBE concentrations.

Instructional Technology Concentration

**18.0 quarter credits**

The Instructional Technology Specialist Concentration program is designed for students interested in specializing in the area of instructional technology while not choosing to continue to pursue the formal certification.

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 511 or INFO 688</td>
<td>Computer Skills for Teachers</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 532</td>
<td>Designing Virtual Communities for Staff Development - Non-Field Experience</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 534</td>
<td>Developing Educational Leaders Using Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>INFO 520</td>
<td>Social Context of Information Professions</td>
<td>3.0</td>
</tr>
<tr>
<td>INFO 640</td>
<td>Managing Information Organizations</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits: **18.0**

Instructional Technology Specialist Certificate Concentration

**25.5 Credits**

The Instructional Technology Specialist Certificate Concentration was designed to address the dramatically increasing need in public education for certified Instructional Technology Specialists at every level of K-12 schooling.

Students pursuing the Instructional Technology Specialist PA Certification require a "B" or better in all certification coursework. Applicants for Instructional Technology Specialist Certification should ideally possess valid Pennsylvania Instructional I or II Teaching Certification. (Visit the School of Education (http://goodwin.drexel.edu/soe) for additional information.) If a student seeks the Instructional Technology Specialist PA Certification without a previous held teaching certificate, he or she will need to complete EDUC 522 and EDUC 525.

**Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 533</td>
<td>Designing Virtual Communities</td>
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<tr>
<td>EDUC 534</td>
<td>Developing Educational Leaders Using Technology</td>
<td>3.0</td>
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<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
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<td>INFO 520</td>
<td>Social Context of Information Professions</td>
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<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
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<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
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<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
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</tr>
<tr>
<td>EDUC 565</td>
<td>Foundations in Instructing English Language Learners</td>
<td>3.0</td>
</tr>
</tbody>
</table>

For students without prior teaching certification

Two additional courses are required for candidates without prior teacher certification to complete the Instructional Technology Specialist Certificate. (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 522</td>
<td>Evaluation of Instruction</td>
<td></td>
</tr>
<tr>
<td>EDUC 525</td>
<td>Multi-Media Instructional Design</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits: **28.5**
E-Learning Leadership Concentration

18.0 Credits

The E-Learning Leadership concentration provides an in-depth understanding of online and distance learning theories.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELL 501</td>
<td>The Purpose and Business of E-Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 502</td>
<td>E-Learning Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 503</td>
<td>Teaching and Learning Issues in E-Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 504</td>
<td>Learning Technologies &amp; Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 604</td>
<td>Design &amp; Delivery of E-Learning I</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 605</td>
<td>Design &amp; Delivery of E-Learning II</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits 18.0

Learning in Game-Based Environments Concentration

18.0 quarter credits

The Learning in Game-based Environments Concentration prepares graduates to effectively use educational games in and out of the classroom and training center, provides an overview of game development processes, enables participants to build basic games, and most importantly, examines how to assess and evaluate the learning experience as it relates to educational games.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 541</td>
<td>Foundations of Game-Based Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 542</td>
<td>Research in Motivation &amp; Game-based Learning</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 543</td>
<td>Play &amp; Learning in a Participatory Culture</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 544</td>
<td>Integrating Games &amp; Pedagogical Content Knowledge</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 545</td>
<td>Design &amp; Development of Learning Games I</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits 18.0

Instructional Design Concentration

18.0 quarter credits

This concentration is designed to prepare teachers, instructors, practitioners and others to use instructional design for K-20 education, adult education, and workplace training that addresses the needs of the millennial learner and collaborative networked communities.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLT 550</td>
<td>Introduction to Instructional Design</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLT 554</td>
<td>Learning with Social Media and Mobiles</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 811</td>
<td>Designing and Developing Multimedia Applications</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td>For Learning</td>
<td></td>
</tr>
<tr>
<td>ELL 502</td>
<td>E-Learning Technologies</td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td><strong>Select two electives from the following:</strong></td>
<td>6.0</td>
</tr>
<tr>
<td>EDUC 525</td>
<td>Multi-Media Instructional Design</td>
<td></td>
</tr>
<tr>
<td>EDUC 533</td>
<td>Designing Virtual Communities</td>
<td></td>
</tr>
<tr>
<td>EDLT 541</td>
<td>Foundations of Game-Based Learning</td>
<td></td>
</tr>
<tr>
<td>EDLT 543</td>
<td>Play &amp; Learning in a Participatory Culture</td>
<td></td>
</tr>
</tbody>
</table>

Total Credits 18.0

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

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Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Arouitis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.
Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, Indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.
Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers’ ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph's University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Courses

EDLT 536 Learning Sciences and Instructional Design 3.0 Credits
The learning sciences and learning by doing bring about a new instructional design emphasis on how the learning technologies provide scaffolding for collaborative learning and reasoning. Students will learn innovative learning techniques and develop an experiential learning design such as, problem-based learning, goal-based scenarios, role-plays, mini-games and simulations.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDLT.

EDLT 537 Technologies for Performance Support 3.0 Credits
This course focuses on online performance support systems, job aids, and assessment tools for e-portfolios, authentic assessments, and data collection to meet performance requirements in education and business. Students will have experience in designing embedded interventions for information help, procedural support, feedback and tracking goals, and develop their own e-portfolio.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDLT.

EDLT 538 New Media Literacies 3.0 Credits
Students will learn how new media are changing the dimensions of school literacies and challenge traditional ways of learning and communicating. Students will use action research to study current literacies, collaboratively explore and analyze a range of media texts, and design meaningful media-related literacy learning experiences across the curriculum.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDLT.

EDLT 539 EDLT Co-op Seminar Course I 1.5 Credit
The first of a two course sequence in which the student proposes and arranges for a party-time co-op experience/project in the field of learning technologies. In the weekly seminar, students share journal entries, do assigned readings and participate in discussions.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDLT.
Prerequisites: EDLT 536 [Min Grade: C] and EDLT 537 [Min Grade: C] and EDLT 538 [Min Grade: C]
Corequisite: EDAM 538

EDLT 540 EDLT Co-op Seminar Course II 4.5 Credits
Students implement co-op/capstone project proposed in EDLT 539 to apply knowledge, skills, principles and experiences from the learning technologies coursework and field experiences through action research. Students gain practical skills through culminating, comprehensive ePortfolio based on explicit criteria including samples of work in the co-op experience/project and formally present it and the experience to a panel of professionals.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is EDLT.
Prerequisites: EDLT 539 [Min Grade: C]
EDLT 541 Foundations of Game-Based Learning 3.0 Credits
Students explore the rationale of game studies, the history of games and learning, the role of digital media, and the social nature of games as an affinity space for social learning. Students demonstrate their understanding of why games are powerful environments for learning, identity formation, and motivation.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDLT 542 Research in Motivation & Game-based Learning 3.0 Credits
This course introduces students to research in game-based learning and the role of motivational theories associated with games and player styles. Students conduct research on existing games to identify the motivational and learning factors. The course provides a foundation for incorporating the role of motivation for engaging learning.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDLT 543 Play & Learning in a Participatory Culture 3.0 Credits
Students examine games, emerging media, and learning in the context of participatory culture. Students focus on play, its role in learning in social spaces, and the current research around these practices. Students study the issues relating to how schools, organizations, and society are responding to the challenges of emerging technologies.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDLT 544 Integrating Games & Pedagogical Content Knowledge 3.0 Credits
Students use the technological, pedagogical and content knowledge (TPACK) educational technology framework. Students explore game design systematically by framing game genres as forms of pedagogy as they consider educational content. Students demonstrate their understanding of the interplay of technology, pedagogy, and content in the game environment.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDLT 545 Design & Development of Learning Games I 3.0 Credits
This course introduces students to the design process of creating learning games. Students will engage in the game design research process of understanding how to apply content and pedagogical elements to a game storyline along with understanding other key elements such as mechanics, technology, and aesthetics.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDLT 544 [Min Grade: C]

EDLT 546 Design & Development of Learning Games II 3.0 Credits
This course engages students in the design of a framework for their capstone project using techniques learned in EDLT 545: Design/Dev Learning Games I. Students work in teams to develop a detailed learning games framework.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDLT 545 [Min Grade: C]

EDLT 547 Capstone Project I 1.5 Credit
This capstone course is the first part of an independent study where students engage in designing a framework and conducting research. Each student researches a game concept and develops a design framework. Research includes user research and technological, pedagogical and content theories to create the foundation for their learning game.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDLT 546 [Min Grade: C]

EDLT 548 Capstone Project II 4.5 Credits
This capstone course is the 2nd part of an independent study where students engage in a design and development project based on their design framework. Students submit documents, conduct play testing, report on the testing results, write a descriptive analysis of their worked example, and present their game prototypes.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDLT 547 [Min Grade: C]

EDLT 550 Introduction to Instructional Design 3.0 Credits
Students examine the research and theory of instructional design models and formats in educational, corporate, and workplace settings. Students identify the interrelationships of context, technology and media resources, learner needs and goals, and learning and assessment strategies through case study analysis. Students design an action plan for a learning need.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDLT 554 Learning with Social Media and Mobiles 3.0 Credits
Students learn to use social media tools based on a more relevant pedagogy of 21st century learning and change. Students examine the culture of connectivity and networking, use mobile learning strategies and role play, and design an action plan that incorporates social media for learning outcomes.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

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**Master of Science in Mathematics Learning & Teaching**

**Master of Science:** 45.0 quarter credits

**About the Program**

The MS in Mathematics Learning and Teaching is designed for current middle and high school mathematics teachers as well as mathematically inclined elementary teachers. The program is intended to support teachers in teaching mathematics where students learn with understanding, including supporting students in reasoning through the variety of complex mathematical situations that they encounter in the school mathematics curriculum. The Mathematics Learning and Teaching program includes courses with explicit focus on the use of technology in teaching and unpacking, and re-conceptualizing the mathematics of middle and high school curricula. In particular, the program of study involves courses that model best practices in mathematics education, including collaborative problem solving, reflection on practice, and student-centered instruction.

The mathematics education core courses are divided into two sets of courses: introductory (500-level) and advanced (600-level) courses.
The introductory courses emphasize content-based and informed pedagogy, representation and communication, connections between multiple representations and multiple solution methods. The advanced courses emphasize common student conceptions, misconceptions and difficulties, diagnosing student thinking, addressing particular students’ needs effectively, scaling “individualized instruction,” and collaborative instructional design and analysis.

Currently, all courses in this program are offered in an online format.

Building on the existing offerings of this program, a concentration in Math Leadership and Coaching is available and will enable current mathematics teachers and leaders to apply for State-Approved Endorsements in Mathematics Coaching.

For additional information about this program, contact the School of Education (http://www.drexel.edu/soe).

### Admission Requirements

Each candidate will submit the following application materials:

- Completed application form
- Appropriate application fee
- Transcripts (must be provided for every institution attended)
- Personal essay, providing commitment to program’s unique features
- Professional resume

Admission to the MS in Mathematics Learning & Teaching program will follow the University standards for admission to graduate study including the receipt of a Bachelor’s degree from an accredited college or university with an earned GPA of 3.0 on a 4.0 scale.

The Mathematics Learning and Teaching (MLT) program is built around the importance of the integration of research and practice and the importance of connecting school teaching practices with university coursework. As a result, there will be a fieldwork component for some courses. These courses require university students to interact with school-aged students, document their activity (ideally with video-recordings), and bring the results of their work back to the university class for collective analysis and reflection. MS and certificate students who are not current classroom teachers will need to obtain the appropriate Child Abuse and Criminal Record clearances for their state to work with school-aged students during the school day. Such program candidates must secure a site for field placement and complete the Child Abuse and Criminal Record Clearance by the end of the winter term in the first year in the program.

### Degree Requirements

#### Education Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 522</td>
<td>Evaluation of Instruction</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 524</td>
<td>Current Research in Curriculum &amp; Instruction</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 525</td>
<td>Multi-Media Instructional Design</td>
<td>3.0</td>
</tr>
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</table>

#### Mathematics Education Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTED 501</td>
<td>Proportional and Algebraic Reasoning</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 502</td>
<td>Geometry &amp; Spatial Reasoning</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 503</td>
<td>Data Analysis and Probabilistic &amp; Statistical Reasoning</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 511</td>
<td>Functions through the Curriculum</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 601</td>
<td>Diagnosing Student Mathematical Thinking</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 611</td>
<td>Virtual Field Experience I - Online Mentoring</td>
<td>1.5</td>
</tr>
<tr>
<td>MTED 612</td>
<td>Virtual Field Experience II - Online Mentoring</td>
<td>1.5</td>
</tr>
<tr>
<td>MTED 621</td>
<td>Collaborative Instructional Design &amp; Analysis I</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 622</td>
<td>Collaborative Instructional Design &amp; Analysis II</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 651</td>
<td>Problem Solving Strategies</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 690</td>
<td>Current Research in Mathematics Learning &amp; Teaching</td>
<td>3.0</td>
</tr>
</tbody>
</table>

#### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
</table>

**Total Credits:** 45.0

Building on the existing offerings of the Mathematics Learning and Teaching Program, this concentration will enable current mathematics teachers and leaders to apply for State-Approved Endorsements in Mathematics Coaching. The program is designed to address the needs of math coaches and leaders for all levels of pre-K-12 education. However, the program’s flexible design will allow for students to specialize in pre-K-12, pre-K-8 or 6-12 mathematics coaching and leadership through appropriate selection of Mathematics Education Core courses.

The tables below show the courses required for this concentration as well as an example of how they fit into the MS Mathematics Learning & Teaching program.

#### Mathematics Coaching and Leadership Concentration Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTED 642</td>
<td>Mathematics Coaching and Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 643</td>
<td>Practicum in Mathematics Coaching and Leadership</td>
<td>2.0</td>
</tr>
<tr>
<td>EDAM 524</td>
<td>Mentoring and Collaborative Leadership</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Credits:** 8.0

**Term 1 Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 522</td>
<td>Evaluation of Instruction</td>
<td>3.0</td>
</tr>
<tr>
<td>MTED 503</td>
<td>Data Analysis and Probabilistic &amp; Statistical Reasoning</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Term 2 Credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTED 502</td>
<td>Geometry &amp; Spatial Reasoning</td>
<td>3.0</td>
</tr>
</tbody>
</table>
### Education Faculty

Jennifer Adams, EdD (*Harvard University*). Associate Professor. Global and International Education.

Kristen Betts, EdD (*George Washington University*). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

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José Luis Chávez, EdD (*University of Southern California*). Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (*University of Pittsburgh*). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

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Salvatore V. Falletta, EdD (*North Carolina State University*). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Arotis N. Foster, PhD (*Michigan State University*). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (*University of Maryland*). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (*Fielding Graduate University*). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (*University of Louisville, Kentucky*). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (*University of Illinois at Urbana-Champaign*). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (*The Pennsylvania State University*). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (*University of Pittsburgh*). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (*Louisiana State University*). Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (*Case Western Reserve University*). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (*Indiana University*) Associate Dean of Research. Professor. Studying the relative and long-range effects of early

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Total Credit: 47.0
schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lytple, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.

Mary Jean Tecc DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph's University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development.

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.
Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Courses

MTED 500 Learning and Teaching Number and Operation 3.0 Credits
Course focus is on the key ideas of number and operation and support students in developing a coherent understanding of both our number system and the structural similarities between it and the computation, arithmetic, algebra, and problem solving that appear throughout the school mathematics curriculum.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 501 Proportional and Algebraic Reasoning 3.0 Credits
This course is about learning and teaching algebra, focusing on patterns, functions and graphs, proportionality, and algebraic connections. Participants will collaboratively explore open-ended problems, discussing, evaluating, revising, and analyzing others’ solutions. This is the first course in a sequence to prepare teachers for implementing student-centered, content-based and technology-enhanced instruction.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 502 Geometry & Spatial Reasoning 3.0 Credits
This course is about learning and teaching geometry, focusing on characteristics of shapes, representational systems, geometric modeling, and proof. Participants will collaboratively explore open-ended geometric problems, discussing, evaluating, revising, and analyzing others solutions. This is the second of three introductory courses that prepare teachers to enact student-centered learning and teaching.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 503 Data Analysis and Probabilistic & Statistical Reasoning 3.0 Credits
This course is about learning and teaching data analysis and probabilistic and statistical reasoning, focusing on representation of data, measures of center and spread, inferential statistics, proportionality and probability, and introductory statistical analysis. Participants will discuss, evaluate, revise and analyze solutions and methods. This is the third of a 3-course sequence.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 511 Functions through the Curriculum 3.0 Credits
This course will consist of an extended analysis of the conception of function, including its historical development. Participants will gain personal experience in thinking of function as a unifying idea on mathematics as well as with conceptual instructional materials.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 517 Mathematics Methods and Content (PreK-4) 3.0 Credits
Candidates will develop an in-depth understanding of how to effectively deliver standards-aligned academic math content based on age appropriate understanding and individual and group needs, including an appreciation and respect for the individual differences and unique needs of all children in the PK-4 setting. This course requires field experience hours to be completed outside of regular class meetings.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prerequisites: EDUC 521 [Min Grade: C]

MTED 518 Advanced Mathematics Methods and Content (PreK-4) 3.0 Credits
This course provides teacher candidates with an advanced perspective on the learning and teaching of mathematics to elementary school students and includes a combination of readings and analysis of current research and activities that integrate mathematical content and pedagogy. This course is designed to support teachers’ understandings of PreK-4 mathematics as well as the way that this content serves as the foundation for advanced elementary and middle school mathematics.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prerequisites: MTED 517 [Min Grade: B]

MTED 519 Teaching Secondary Mathematics 3.0 Credits
This course focuses on major issues in learning and teaching mathematics in the secondary classroom. Topics will include instructional practices, learning theories, assessment and current research in math. This course also includes multimedia and field-based experiences.

College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 528 Cultural and Historical Significance of Mathematics 3.0 Credits
The course explores how mathematics reflects and influences the ideas and movements in culture, history, biography and philosophy. An emphasis on teaching methods is integrated throughout the course.

College/Department: School of Education
Repeat Status: Not repeatable for credit

Prerequisites: MTED 517 [Min Grade: B]
MTED 551 Resources & Strategies for Effective Implementation of Problems-based Instruction 3.0 Credits
This course will enhance teachers’ understanding of the Common Core State Standards’ Mathematical Practices and the role of problem solving in addressing them. The goal is to develop participants’ ability to support approaches that maximize problem-solving discussions in the classroom and strengthen their students’ ability to practice perseverance.
College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 601 Diagnosing Student Mathematical Thinking 3.0 Credits
This course is about student-centered learning and teaching of mathematics. This goal is to develop participants’ expertise in analyzing student work, understanding student thinking, and using that understanding to guide subsequent interactions and interventions with the student.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT.

MTED 601 Virtual Field Experience I - Online Mentoring 1.5 Credit
This course utilizes the Math Forum’s online learning environment to provide teachers with opportunities to engage with students, diagnose student understandings, and implement appropriate instructional responses. Key to this course is virtual one-on-one interactions and an opportunity to reflect on these interactions. This is the first of a 2-course sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT.
Prerequisites: MTED 601 [Min Grade: C]

MTED 611 Virtual Field Experience II - Online Mentoring 1.5 Credit
This course utilizes the Math Forum’s online learning environment to provide teachers with opportunities to engage with students, diagnose student understandings, and implement appropriate instructional responses. Key to this course is continued virtual interactions and an opportunity to reflect on these interactions. This is the second of a 2-course sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT.
Prerequisites: MTED 601 [Min Grade: C]

MTED 621 Collaborative Instructional Design & Analysis I 3.0 Credits
This course focuses on teachers identifying critical areas from their colleagues’ classrooms that are in need of improvement and designing and implementing a substantive, outcome-driven response. The course will involve intensive analysis of curricular goals, intended student outcomes, lesson planning and classroom-based action research.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT.
Prerequisites: MTED 601 [Min Grade: C]

MTED 622 Collaborative Instructional Design & Analysis II 3.0 Credits
This course is the second of two courses designed to help teachers identify critical areas from their colleagues’ classrooms that are in need of improvement and designing and implementing an appropriate response. The course will involve similar tasks and assignments as MDED 621 but will differ in curricular focus.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT.
Prerequisites: MTED 621 [Min Grade: C]

MTED 642 Mathematics Coaching and Leadership 3.0 Credits
This course explores the attributes of effective mathematics coaching. The goal is to develop candidates’ understanding and expertise of the structure, skills, core concepts, facts, methods of inquiry and application of technology required to build and sustain a successful mathematics coaching practice within their chosen specialization (preK-12, pre-K-8 or 6-12).
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: MTED 621 [Min Grade: B]
Corequisite: MTED 643

MTED 643 Practicum in Mathematics Coaching and Leadership 2.0 Credits
This course offers teachers the opportunity to engage in a wide range of practical experiences in authentic educational settings and connect their coaching knowledge with practical issues in real school contexts. As the term develops, participants’ required exposure to learning situations and school settings under the guidance of program faculty and trained mentors will increase significantly. There is a substantial field experience component in this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: MTED 621 [Min Grade: B]
Corequisite: MTED 642

MTED 651 Problem Solving Strategies 3.0 Credits
Course focus is on supporting the development of mathematical approaches to problems that allow students to productively engage with and reason through a wide variety of mathematical tasks. Students will develop high levels of competence and sophistication with a wide range of mathematical approaches, including guess and check, consider a simpler problem, analyze in terms of parity, case analysis, etc.
College/Department: School of Education
Repeat Status: Not repeatable for credit

MTED 661 Teach Math Geometer Sketchpad 3.0 Credits
Course explores how the teaching and learning of math in grades 6 through calculus is enhanced by appropriate use of dynamic mathematics software such as Sketchpad. Course activities will include constructing sketches from scratch and using existing activities and highly-authored sketches to cover topics in middle school, algebra, geometry, pre-calculus, and calculus. Sketchpad topics such as animation, action buttons, presentation sketches, custom tools, etc. will also be covered.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is MLAT or major is TLC.
Math Leadership and Coaching Concentration

Building on the existing offerings of the Mathematics Learning and Teaching Program, this concentration will enable current mathematics teachers and leaders to apply for State-Approved Endorsements in Mathematics Coaching. The program is designed to address the needs of math coaches and leaders for all levels of pre-K-12 education. However, the program’s flexible design will allow for students to specialize in preK-12, pre-K-8 or 6-12 mathematics coaching and leadership through appropriate selection of Mathematics Education Core courses.

The tables below shows the courses required for this concentration as well as an example of how they fit into the MS Mathematics Learning & Teaching program.

Mathematics Coaching and Leadership Concentration Courses

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<td>Mathematics Coaching and Leadership</td>
<td>3.0</td>
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<td>Practicum in Mathematics Coaching and Leadership</td>
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<tr>
<td>EDAM 524</td>
<td>Mentoring and Collaborative Leadership</td>
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<td>EDUC 522</td>
<td>Evaluation of Instruction</td>
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<td>Data Analysis and Probabilistic &amp; Statistical Reasoning</td>
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Term 2

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<td>Geometry &amp; Spatial Reasoning</td>
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<td>MTED 601</td>
<td>Diagnosing Student Mathematical Thinking</td>
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<td>Problem Solving Strategies</td>
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<td>Multi-Media Instructional Design</td>
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<td>MTED 642</td>
<td>Mathematics Coaching and Leadership</td>
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Total Credit: 47.0

Master of Science in Special Education

Master of Science: 49.5 quarter credits

About the Program

The Master of Science in Special Education program is intended for those interested in gaining greater skills and expertise in the area of Special Education and/or a teaching certificate in the area of special education. Candidates seeking PA special education certification must have an active PA Instructional I or II teaching certificate in the appropriate area.

The Master of Science in Special Education seeks to produce professionals who are equipped with the fundamental skills, knowledge, and competencies they will need to meet the needs of students at risk for and with disabilities in multiple settings. The program is a flexible, part-time graduate program consisting of 49.5 credits: 31.5 credits in Core Special Education Certification courses, 12.0 credits in concentration courses, and 6.0 credits in research. The program culminates with each potential graduate completing an action research project and presentation within his or her area of concentration.
Available Concentrations

Autism Spectrum Disorders
Within the past decade, the number of children diagnosed with Autism or Asperger’s Syndrome has increased drastically. Consequently, the need for professionals trained in this specialized area has significantly increased. This concentration is designed for those who seek additional expertise in this critical need area. It will provide knowledge and skills for working with both students with Autism and Asperger’s Syndrome as well as effective teaching methods, interventions, and supports. Students who have an active PA Instructional I or Instructional II teaching certificate are eligible to apply for the PA Autism Spectrum Disorders endorsement upon completion of EDEX 551 and the concentration courses.

Collaborative Special Education Law and Process
Meeting the needs of children with disabilities through school-family-community collaboration is an ambitious goal of educational policy in the United States. An implementing objective is to develop highly qualified special education teachers and administrators in schools and the community, as well as to offer special education collaborative knowledge and practical skills training to parents and advocates, whose cooperative partnership is imperative to support the provisions for the successful learning of all students as incorporated and mandated in legislation such as No Child Left Behind (NCLB) and the Individuals with Disabilities Education Improvement Act of 2004 (IDEA).

Multisensory Reading Instruction Level I
It is estimated that up to 20% of school age children experience difficulty with some aspect of literacy. This course sequence gives teachers the necessary skills to provide direct instruction in a multisensory phonetic-based program to students with decoding deficits. With successful completion of the coursework, students are eligible for WILSON® Level 1 Certification. The Wilson Reading System® is recognized nationwide and is a highly desirable certification to have in Special Education.

Technologies for Special Education
Best practices in the education of students with disabilities require educational professionals to be proficient with a wide range of technologies. This concentration is designed for those seeking additional expertise in the area of educational technologies and assistive technology that can be used to create accessible learning opportunities and increased outcomes for students with disabilities.

Customized Concentration
Students who already possess a special education certification or who are not interested in obtaining a special education certification but want to enhance their skills in specific special education topic areas may choose to take two of the concentrations (24 credits) and 19.5 credits of their choosing from the special education certification core in addition to completing the research courses.

Additional Information
For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Admission Requirements
Applicants for the program will follow the university standards for admission to graduate study. Prospective students must have earned a bachelor’s degree from an accredited institution and have an undergraduate GPA of 3.0 or higher to be considered for admission (graduate degree GPAs will be considered along with the undergraduate GPA). In addition, prospective students are required to submit the following:

- Completed Application Form including official transcripts from all universities or colleges attended
- Two letters of recommendation
- Personal essay
- Application fee

The admissions committee will evaluate the applicant’s potential and commitment to succeed in graduate study in the online environment. The applicant’s potential to contribute to the overall quality of the program of study will also be considered. Interviews, in person or by phone, will be conducted by the admissions committee with those applicants who meet Graduate Admission’s standard admissions criteria.

Decisions will be made using dates corresponding to the regular university schedule for rolling admissions in Graduate Admissions.

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Degree Requirements
The Master of Science in Special Education requires 49.5 credits consisting of 31.5 credits in core special education certification courses, 12 credits in concentration courses, and 6 credits in research. For a certification in special education, students must have completed 9 prerequisite credits in special education accommodations to apply for certification in Pennsylvania.

A field component is required in most courses.

Pre-Requisite Courses
Students must have the following courses in order to apply for a certification in special education. All students entering this master’s program from an approved PA certification program after 2011 should have had these core courses in their initial certification program. If a student does not have these courses, they must complete them with a minimum grade of "B" in addition to the core certification offerings.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
<td>3.0</td>
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<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
<td>3.0</td>
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One of the following, depending on whether pursuing the PreK-8 or 7-12 certification concentration:

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>EDEX 546</td>
<td>Literacy and Content Skill Development PreK-8</td>
<td>3.0</td>
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<tr>
<td>or EDEX 566</td>
<td>Literacy and Content Skill Development 7-12</td>
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Required Courses: MS in Special Education Program

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<td>EDEX 548</td>
<td>Emotional and Behavioral Support of Individuals with Disabilities</td>
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<td>EDEX 549</td>
<td>High Incident Disabilities</td>
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<tr>
<td>EDEX 550</td>
<td>Teaching Individuals with Low Incident Disabilities</td>
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<tr>
<td>EDEX 551</td>
<td>Pervasive Developmental Disorders</td>
<td>4.5</td>
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<tr>
<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
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</table>

Students complete a sequence of two courses specific to either the PreK-8 or the 7-12 certification concentration from the following:

- EDEX 547 & EDEX 553 Special Education Processes PreK-8 and Special Education: Methods & Practices PreK-8
- EDEX 567 & EDEX 563 Special Education Processes 7-12 and Special Education: Methods & Practices 7-12

Capstone Courses

- EDEX 610 Action Research for Special Education Teachers I 4.5
- EDEX 611 Action Research for Special Education Teachers II 1.5

Concentration Courses

Students complete courses from one of the concentrations listed below.

Total Credits 49.5

Concentration Options

Students must complete one of the following 12.0 credit concentration options:

- Autism Spectrum Disorders Concentration
  - EDEX 556 Characteristics & Methods: Autism
  - EDEX 558 Characteristics & Methods: High Functioning Autism
  - EDEX 560 Communication & Language Interventions: Autism Spectrum Disorders
  - EDEX 562 Behavior & Sensory Support: Autism Spectrum Disorders

- Technologies for Special Education
  - EDEX 570 Integrating Assistive Technology for Individuals with High Incident Disabilities
  - EDEX 572 Integrating Assistive Technology for Individuals with Low Incident Disabilities
  - EDUC 535 Researching & Evaluating Instructional Technology
  - ELL 504 Learning Technologies & Disabilities

- Collaborative Special Education Law & Process
  - EDEX 710 School Law & Policy in Special Education
  - EDEX 600 Family, School and Community Engagement in Special Education
  - EDEX 601 Special Education Advocacy
  - EDEX 602 Special Education Dispute Resolution and Skills Training

- Multisensory Reading Instruction Level I
  - EDLS 620 Applied Methods in Multisensory Reading Instruction
  - EDLS 621 Multisensory Reading Instruction K/1
  - EDLS 622 Basic Word Study I
  - EDLS 623 Basic Word Study II

- EDLS 624 Multisensory Practicum I
- EDLS 625 Multisensory Practicum II

Language and Cultural Issues

- LING 560 Introduction to Linguistics
- EDUC 602 Language Learning & Teaching
- EDUC 604 Structure and Sound System of English
- EDUC 606 Design and Assessment

Total Credits 12.0

* The multisensory reading instruction courses fulfill certain requirements (but not all) for the Wilson Language Level I certification.
** Students interested in pursuing the PA TESL credential must be accepted into Drexel's TESL program and pass LING 560, EDUC 602, EDUC 604, EDUC 608, and EDUC 610 with a grade of “B” or better.

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.
Arotus N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children’s achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hikowtitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O’Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation.

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration;
industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania), Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

**Emeritus Faculty**


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

**Special Education Courses**

**EDEX 542 Fundamentals of Special Education 3.0 Credits**

This course provides an overview of the essentials of special education for today's teachers. Specific emphasis is placed on the history of special education, purposes of formal and informal assessments and current research on inclusive classrooms. Additional focus will be placed on legal/ethical considerations in testing and the translation of data. Field observation hours are required.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDEX 542 [Min Grade: C]

**EDEX 544 The Inclusive Classroom 3.0 Credits**

The focus of this course is to teach teachers how to manage instruction for students with diverse learning and behavioral profiles in the inclusive classroom by examining normal and abnormal cognitive, physical, social, behavioral and language development of children. The course will address curricular, environmental and instructional adaptations in addressing students' needs. Field observation hours are required.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDEX 542 [Min Grade: C]

**EDEX 546 Literacy and Content Skill Development PreK-8 3.0 Credits**

The focus of this course is literacy skill development in individuals at-risk for disabilities and with disabilities as well as causes and correlates of individual differences in reading ability. Research, theory, identification approaches and practical, research-supported instructional strategies will be provided for working with students.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

**EDEX 547 Special Education Processes PreK-8 4.5 Credits**

This course focuses on special education processes available for students with disabilities in pre-kindergarten through grade 8. Specifically, this course provides an overview of child find, evaluation and education and IEP/IFSP development, implementation and monitoring concepts, as mandated by IDEA and Section 504 of the Rehabilitation Act of 1973. Students will apply special education process strategies such as collaboration, problem solving, progress monitoring and early dispute resolution techniques. Specific legal cases will be reviewed throughout the term.

**College/Department:** School of Education

**Repeat Status:** Not repeatable for credit

**Prerequisites:** EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]
EDEX 548 Emotional and Behavioral Support of Individuals with Disabilities 4.5 Credits
This course focuses on both low and high-incidence emotional and behavioral problems encountered in general and special education environments. Specific emphasis will be on the understanding of characteristics and interventions that work with the most challenging students. Research in the area of behavior disorders will also be introduced. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 549 High Incident Disabilities 4.5 Credits
This course focuses on high-incidence disabilities, specifically learning disabilities and language disorders encountered in the general and special education environments. Additional emphasis is placed on an understanding of characteristics and interventions that support these students. Research-based instructional strategies and accommodations will also be discussed. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 550 Teaching Individuals with Low Incident Disabilities 4.5 Credits
This course focuses on curriculum development approaches, instructional strategies and accommodations for students with low incident and moderate/severe disabilities, with emphasis on age-appropriate functional education in school and community based programs. Additional emphasis is placed on disabilities such as low vision and blindness, hearing impairment and deafness and severe health and physical disabilities. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 551 Pervasive Developmental Disorders 4.5 Credits
The focus of this course will be pervasive developmental disorders (PDD), specifically, understanding of characteristics, instructional strategies and effective interventions. The course will also emphasize behavior reduction strategies that are consistent with a positive behavioral support approach for students with PDD. Research in the area on PDD will also be emphasized. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 552 Integrating Technology for Learning & Achievement 4.5 Credits
This course is designed to teach educators how to integrate technology into instruction to support achievement in general and special education classes, specifically to support reading, writing and mathematics achievement. It also focuses on the use of technology for universal design for learning and using assistive technology with students with disabilities. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 553 Special Education: Methods & Practices PreK-8 4.5 Credits
This course will focus on effective instructional strategies to meet the learning needs of students with disabilities. Specific emphasis will be placed upon lesson planning, unit planning, grouping strategies and collaboration with other teachers and staff in all delivery settings. Students choose, evaluate and construct instructional materials. Field observation hours are required.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 555 Characteristics & Methods: Autism 3.0 Credits
This course furthers the student's understanding of the diagnosis of Autism. Students will explore current issues and best practices in providing educational services that meet the unique characteristics and needs of students with Autism. Current theories in the field of Autism will be a focus of the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 556 Characteristics & Methods: High Functioning Autism 3.0 Credits
This course furthers the student's understanding of the diagnosis of High-Functioning Autism and how it is or is not different from Asperger's Syndrome. Students will explore current issues and best practices in providing educational services that meet the unique characteristics and needs of students with High-Functioning Autism and Asperger's Syndrome.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 558 Communication & Language Interventions: Autism Spectrum Disorders 3.0 Credits
The focus of this course is on communication and language skills, deficits, needs, and interventions for students with Autism Spectrum Disorders (ASD). Students will gain an understanding of the development of communication and interventions for students with ASD who are non-verbal, limited verbal, or verbal. Social pragmatics will be covered.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]

EDEX 560 Behavior & Sensory Support: Autism Spectrum Disorders 3.0 Credits
The focus of this course is on specific behavioral and sensory issues of students with Autism Spectrum Disorders (ASD). Students will gain skills in research-based interventions for the behavioral issues and sensory needs of students with ASD. Close attention will be paid to prevention strategies that are effective for ASD.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 551 [Min Grade: C]
EDEX 563 Special Education: Methods & Practices 7-12 4.5 Credits
The focus of this course is on instructional strategies to meet the unique learning needs of secondary students with disabilities. Lesson planning, unit planning and grouping strategies are key elements in this course. Collaboration with other teaching and non-teaching staff members in all delivery settings is emphasized. Students choose, evaluate, construct and implement instructional materials. A formal evaluation will be required. Emphasis will be placed on student transition post high school.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 566 Literacy and Content Skill Development 7-12 3.0 Credits
The focus of this course is literacy skill development of adolescents at-risk for reading disabilities and adolescents currently identified with reading disabilities. The course will teach a variety of instructional interventions and strategies for improving student comprehension in the content areas. The course will also focus on improving vocabulary, fluency, and motivation in adolescents who struggle with reading. Writing strategies and common core standards will be addressed. The course ends with progress monitoring tools in order to determine the success of the interventions and strategies.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 567 Special Education Processes 7-12 4.5 Credits
This course focuses on the special education processes available for students with disabilities in grades 7 through 12. Specifically, the course provides an overview of the child find system, evaluation, education and transition processes in the development of an Individualized Education Program (IEP), and implementation and monitoring concepts as mandated by IDEA and Section 504 of the Rehabilitation Act of 1973. Students will apply special education process strategies such as collaboration, problem solving, progress monitoring and early dispute resolution techniques. Specific legal cases will be reviewed.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 542 [Min Grade: C] and EDEX 544 [Min Grade: C]

EDEX 570 Integrating Assistive Technology for Individuals with High Incident Disabilities 3.0 Credits
This course is designed to teach educators how to integrate assistive technology into instruction to support achievement in general and special education classes for students with disabilities in high incidence programs.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 552 [Min Grade: C]

EDEX 572 Integrating Assistive Technology for Individuals with Low Incident Disabilities 3.0 Credits
This course is designed to teach educators how to integrate assistive technology into instruction for students with low incidence disabilities, including communication impairments, intellectual disabilities, autism, and physical disabilities.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 552 [Min Grade: C]

EDEX 560 Family, School and Community Engagement in Special Education 3.0 Credits
This course is designed to provide an understanding of how to effectively implement the spirit of the Individuals with Disabilities Education Act (IDEA) and Section 504, using a collaborative approach among families, educators, and service providers. Specifically, this course focuses on the structure and operation of efficacious collaborative teams, facilitating co-educator partnerships and integrating internal and external supports through positive family engagement.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 710 [Min Grade: B]

EDEX 601 Special Education Advocacy 3.0 Credits
This course is designed to provide students with an opportunity to explore and master collaborative advocacy practices critical to the special education process.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 600 [Min Grade: B] and EDEX 710 [Min Grade: B]

EDEX 602 Special Education Dispute Resolution and Skills Training 3.0 Credits
This course is designed to provide a comprehensive understanding of special education dispute resolution opportunities and training in the communication skills necessary to successfully participate within each of those opportunities.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** (EDEX 547 [Min Grade: B] or EDEX 567 [Min Grade: B]) and EDEX 600 [Min Grade: B] and EDEX 710 [Min Grade: B]

EDEX 610 Action Research for Special Education Teachers I 4.5 Credits
This course will introduce action research, a form of self-reflective systematic inquiry by practitioners on their own practice. The goals are the improvement of practice, a better understanding of practice, and an improvement in the situations where practices are carried out. Findings are examined: to support school/instructional change.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 606 [Min Grade: B] (Can be taken Concurrently)EDUC 602 [Min Grade: B] and EDUC 604 [Min Grade: B] and EDUC 608 [Min Grade: B] and LING 560 [Min Grade: B]

EDEX 611 Action Research for Special Education Teachers II 1.5 Credit
In this second course in action research sequence, students will come to class with data from the classroom. The class will focus on the issues pertaining to the ethics of data collection, data analysis and interpretation, and writing the action research study.
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDEX 610 [Min Grade: C]
EDEX 630 Fundamental Elements of Behavior Change 4.5 Credits
This course is designed to provide students with an understanding of behavioral processes as described and defined by the behavior analytic orientation of psychology. Students will learn the terminology associated with operant and classical conditioning including understanding the difference between a procedure and a process, reinforcement, extinction, punishment, association, conditioned stimulus and unconditioned stimulus.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDEX 631 Measurement and Experimental Design 4.5 Credits
Graduate level intensive introduction to research methods in behavior analysis. The empirical methods of inquiry used in behavior analysis are substantially different than those used in traditional psychology. Course design provides knowledge of the concepts and issues related to single-subject design as used in applied behavior research. Topics include the distinction between single subject and group research designs, issues related to reliability and validity, data collection and analysis techniques, treatment integrity and other ethical and professional issues.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B] (Can be taken Concurrently)

EDEX 632 Behavioral Assessment and Functional Analysis 4.5 Credits
Course provides knowledge and skills of behavioral assessment and methodologies for evaluating the effectiveness of interventions. First half of course explores range of assessment techniques in a variety of settings including direct observation/data collection methods, data analysis, functional assessment, stimulus preference and reinforcer assessments, and ethical and professional issues. Second half focuses on functional analysis and history of and variations to the methodology. Relationship between assessment techniques and development of least-restrictive but most effective behavioral intervention explored.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 633 Behavioral Interventions 4.5 Credits
This course is designed to provide the student with advanced knowledge of behavioral interventions designed for both skill acquisition and reduction purposes. Considerations of ethical, social, and cultural variables affecting the selection and effectiveness of intervention strategies will also be highlighted. The course readings and writing assignment will provide students with the skills and opportunity to critically evaluate various intervention procedures and identify opportunities and methods to promote generalization and maintenance of treatment outcomes.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 634 Consultation, Systems Change and Supervision 4.5 Credits
This course is designed to provide the knowledge and skills necessary to effectively consult with education, mental health and behavioral health staff working in community settings. The course is designed to familiarize students with theories and models of adult behavior change, and the procedures and processes used in an indirect-service delivery model. Students will be expected to apply the knowledge acquired through the consultative process and with a consultee.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 635 Ethical Considerations and Professional Conduct 4.5 Credits
Addresses the American Psychological Association’s Ethical Principles of Psychologists and Code of Conduct, and the Behavior Analysis Certification Board’s Ethical Principles and Ethical Guidelines. These guidelines and principles are required readings for those engaging in psychological services and to sit for the National Certification in Behavior Analysis: 1. Ethical Principles of Psychologists and Code of Conduct and 2. Guidelines for Responsible Conduct for Behavior Analysts including Professional Disciplinary and Ethical Standards, Ethical Complaint Process, and summary of possible Disciplinary Actions.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 700 Practicum in Applied Behavior Analysis 1.0-4.0 Credit
This course is designed as a 1-4 credit practicum placement. Course instructors and the practicum coordinator will support the placement of Drexel ABA master’s students in mental health, behavioral health, educational and rehabilitation services settings in the region. In coordination and cooperation with agency staff responsible for the on-site supervision, students will contribute to the discussion and implementation of evidence-based behavior analytic practices within multi-disciplinary team settings. Students will be expected to keep a daily journal recoding their activities, complete a reflection paper and.

College/Department: School of Education
Repeat Status: Can be repeated 6 times for 28 credits
Prerequisites: EDEX 630 [Min Grade: B]

EDEX 710 School Law & Policy in Special Education 3.0 Credits
This course provides an overview of the legal rights of students and families in the field of special education. Students will explore the source, history, current status, and litigation affecting special education. This course relates equal protection and procedural due process to school practices and policies affecting students with disabilities.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]
EDEX 712 Instructional & Curriculum Leadership in Special Education 3.0 Credits
This course explores the administration of teaching/learning as a system in an inclusive school. Students learn leadership practices for universal screening, integrating assistive technology, research/evidence based-practices, and assessment systems responsive to and linguistic diversity. Special focus on leadership issues related to the urban, suburban, and rural context.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 714 Development, Supervision, & Support: Special Education Leadership 3.0 Credits
This course provides an overview of personnel functions: recruitment, selection, orientation, support, evaluation, and development; interpersonal skills; motivation/change theory; and the utilization of technology in the process. In addition, it will look at the unique issues of co-leading personnel with other administrators, collective bargaining, and the grievance process.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 716 Organization & Administration of Special Education 3.0 Credits
This course is designed to provide an overview of the organizational practices for the administration of special education programs. Students will be introduced to special education revenue sources, compliance, child count, and budget monitoring as well as the special education plan.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 721 Supervisor of Special Education Internship: Special Education Leadership 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the first of a four-term internship. The focus is on legal and policy issues in special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 722 Supervisor of Special Education Internship: Instructional Leadership 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the second of a four-term internship. The focus is on instructional leadership in special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 723 Supervisor of Special Education Internship: Collaboration & Personnel 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile activities in a portfolio. This is the third of a four-term internship. The focus is on collaboration and personnel issues: special education leadership.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

EDEX 724 Supervisor of Special Education Internship: Finance & Management 1.0 Credit
The student will be required to log at least 75 hours of mentored leadership activities during each quarter to total at least 300 hours and compile in a portfolio. This is the fourth of a four-term internship. The focus is on school resources in special education.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]

Teacher Education Courses
EDUC 505 Instructional Systems Design 3.0 Credits
This course explores and offers in-depth analysis of relevant theories relating to contemporary application of Instructional Systems Design. The purpose is to provide the student with theoretical, experimental and critical perspectives on instructional design as it is applied in a number of educational venues.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 506 Assessment of Young Learners 3.0 Credits
Candidates will demonstrate a thorough understanding of the role of the assessment process in early childhood education. The content will provide graduate candidates with an in-depth review of informal evaluation procedures and classroom-based data collection strategies for young children in inclusive early child care and education settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 510 Computer Applications In Teaching 3.0 Credits
Analyzes issues concerning uses of computing in instruction. Evaluates the microcomputer as an instructional aide in elementary and secondary classroom instruction. Provides hands-on experience with applications in students’ subject matter fields to develop competence in selecting and integrating appropriate instructional software for computers found in today’s classrooms, with particular focus on the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 544 [Min Grade: C]
EDUC 511 Computer Skills for Teachers 3.0 Credits
Presents major instructional design concepts students will use in developing their own curricular materials. Describes and discusses various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment. Primarily uses the Macintosh microcomputer and appropriate authoring systems. Provides extensive hands-on instruction and experience using various authoring systems to create many different kinds of instructional tools. Students must be experienced with the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 510 [Min Grade: C]

EDUC 512 Focus on World Geography 3.0 Credits
Through the study of geography, students will be encouraged to find a meaningful framework for understanding the system of human culture on Earth and become familiar with the vast interactive system involving humanity and its natural environment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 513 Elementary Science Teaching Methods 3.0 Credits
Methods for teaching elementary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 514 Science Teaching Methods 3.0 Credits
This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 515 Adolescent Learners in Secondary Schools 3.0 Credits
Enables student to understand the organizational structure of high school programs as related to the diverse needs of the adolescent learner. Students will acquire competence in designing learner-oriented communities of practice in the classroom to foster achievement and overall well-being of the secondary learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 516 Diversity and Today's Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations (and strategies for).
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 517 Math Methods & Content: Early Childhood PK-4 3.0 Credits
Candidates will develop an in-depth understanding of how to effectively deliver standards-aligned academic math content-based on age appropriate understanding and individual and group needs including an appreciation and respect for the individual differences and unique needs of all children in the PK-4 setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 518 Mathematics: Method & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expecting to work, noting the error and correction process as well as gaining an awareness of student's difficulties in mathematics.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 519 Teaching Secondary Mathematics 3.0 Credits
The course focuses on major issues in learning and teaching mathematics in the secondary classroom. Topics will include instructional practices, learning theories, assessment and current research in math. This course also includes multimedia and field-based experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 520 Professional Studies in Instruction 3.0 Credits
For students who lack professional-level classroom teaching in grades K to 12. Examines and develops skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, and identification of instructional resources. Discusses current principles of developmental and learning theories and instructional design applied to teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 521 Typical and Atypical Development in Early Childhood Education 3.0 Credits
This course addresses the multifaceted complexities of typical and atypical child development, through the discussion of classic and emerging theories. The primary aim of the course is to foster the students' ability to recognize and apply the connections among developmental domains and of theory and research with educational practice. The readings and class assignments make use of research-based, real-world, and cross-cultural examples.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 522 Evaluation of Instruction 3.0 Credits
Enables the student to acquire competence in evaluation techniques including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. The course covers qualitative and quantitative assessment used in measuring student achievement. Techniques for grading will also be explored.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 523 Diagnostic Teaching 4.0 Credits
Focuses on teaching that attempts to identify the student's level of performance and all the relevant information that contributes to that performance. Involves analysis of material to be learned and implementation of instruction that integrates the learner's cognitive and emotional development with the appropriate part of the knowledge or task to be learned. Investigates various learning styles, including field-dependent/independent, convergent/divergent thinking, right/left brain activity, reflective/impulsive personalities, risk-taking/cautious, and attention to locus of control. Includes analysis and application of generic influences on cognitive, social, emotional, psychomotor, and physical aspects of learning. Investigates curriculum in terms of its psychological nature and selection and development of instructional strategies that enhance learning and prevent learning problems. Provides opportunities to work with elementary and secondary school students in the Drexel Diagnostic Mathematics Learning Laboratory.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 524 Current Research in Curriculum & Instruction 3.0 Credits
Examines the relationship of curricula and instruction to current research in learning and knowledge construction, developing higher-order thinking in specific disciplines and content areas, and the role of understanding and metacognition in learning. Complex problems of pedagogy are identified and analyzed (e.g., interdisciplinary curricula, team teaching, collaborative learning), with attention to designing learning goals and outcomes with effective instructional strategies.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 525 Multi-Media Instructional Design 3.0 Credits
Investigates learning theory and its implications for interactive multimedia formats, including the relationship of instructional design principles to selection of media elements (text, video, sound, animation, and graphics) for high-quality design. Examines human-computer interface principles, navigation features, and visual thinking using a wide range of educational software examples. Criteria for software assessment and virtual classrooms are reviewed. Students design and write a software prototype as a group design project. Complex issues and concepts in technology and education are analyzed.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 526 Language Arts Processes 3.0 Credits
Applies contemporary research to processes and problems in teaching oral and written communication, with the basic assumption that listening, speaking, writing, and reading are integrated processes and should be taught as such. Covers analysis and use of instructional strategies for teaching developmental reading and writing, reading and writing in content areas, written correspondence, research reports, journal writing, poetry, and appreciation of children's literature.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 527 Understanding Learning Disabilities 3.0 Credits
Addresses learning disability issues including types of learning disabilities and related general approaches to the assessment and treatment of them. Specific disorders discussed include dyslexia, dyscalculia, attention deficit hyperactivity disorder, social cognition deficit, and disorders of language and hearing.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 528 Cultural and Historical Significance of Mathematics 3.0 Credits
The course explores how mathematics reflects and influences the ideas and movements in culture, history, biography and philosophy. An emphasis on teaching methods is integrated throughout the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 529 Early Literacy 3.0 Credits
Course examines research-validated literacy instruction and literacy interventions. Topics include: phonics, fluency, comprehension vocabulary, and the reading-writing connection. Significant emphasis is placed on the socio-cultural aspects of reading: appreciating linguistic diversity, integrating cultural narratives, building reading communities, and motivating children through authentic reading and writing experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 530 Advanced Techniques in Instruction & Assessment 3.0 Credits
Major professional and educational issues associated with college teaching are addressed. Provides multiple opportunities to develop and enhance teaching skills, as well as exposure to alternative assessment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 531 College Teaching & Communication Skills 1.0 Credit
This course addresses critical issues in college teaching and communication skills. These are: what is learning, comparative philosophies of education, understanding the adult learner, best practices in integrating technology to enhance learning, methods of evaluation student learning including performance-based assessments and foundations for effective oral and written communication.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers, administrators, librarians, and other professionals in schools responsible for technology and professional development. Online discussion groups, video conferencing, and web-based instruction will be used to form a virtual learning community. There is no field experience component in this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is HRD.
EDUC 533 Designing Virtual Communities 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers and other professionals responsible for technology and professional development. Online discussion groups, video conferencing, and Web-based instruction will be used to form a virtual learning community. This course includes a 20-hour internship for ITS certification.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 534 Developing Educational Leaders Using Technology 3.0 Credits
Addresses leadership and team building competencies that instructional technologists need to work collaboratively with teachers, administrations, parent groups, and the community. Will use technologies that facilitate communication and team building. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 525 [Min Grade: B]

EDUC 535 Researching & Evaluating Instructional Technology 3.0 Credits
Course will focus on teaching and learning technology standards, general applications of technology and basic technology and skills. Will examine and critique educational software and learning technologies, and through research, develop criteria for technology. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 522 [Min Grade: B]

EDUC 536 Distance Learning 3.0 Credits
The course explores pedagogical issues in distance learning. Readings are integrated with hands-on use of the tools used to create distance learning programs.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 537 Learning Disabilities II 3.0 Credits
The course focuses on how to manage instruction for students with special needs in the inclusive classroom.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 538 English Teaching Methods 3.0 Credits
This course is designed to support the development of pre-service teachers in the secondary English/Language Arts Classroom. Students will be provided opportunities to integrate and apply theories of learning, curriculum and pedagogy of English and L. Arts in the secondary classroom. Additional classroom-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 539 Expressive Arts 3.0 Credits
The focus of this graduate course is to teach future educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts), into the PK-4 classroom. Through observation, curriculum development and assessment, educators will be able to identify, administer, interpret and plan instruction for PK-4 learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 540 Field Experience 3.0 Credits
Provides supervised field experience at a cooperating school designed to develop skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, identification of instructional resources, and applications of current research on effective teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 553 Social Studies Teaching Methods 3.0 Credits
Course prepares the preservice teacher in making appropriate decisions about students and instructional processes in the social studies classroom. Perceptions and perspectives as it relates to social studies instruction in the following areas are explored: curriculum standards, unit development, assessment design and construction, interdisciplinary/ integrated curriculum planning, specific group strategies, individualizing techniques, instructional technology, and professional development.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 554 [Min Grade: B]

EDUC 554 Secondary Social Studies Methods (7-12) 3.0 Credits
Course provides understanding of effective Social Studies methods in secondary classrooms. History of pedagogical debates within Social Studies, is examined to incorporate effective Social Studies teaching methods. Careful attention is given to the Common Core Standards for Social Studies. Requirements include 30 hours of field experience in a school setting to include at least two lessons taught independently. In order to participate students must have the necessary background clearances.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 555 [Min Grade: B]

EDUC 555 Social Studies Teaching Methods 3.0 Credits
Course prepares the preservice teacher in making appropriate decisions about students and instructional processes in the social studies classroom. Perceptions and perspectives as it relates to social studies instruction in the following areas are explored: curriculum standards, unit development, assessment design and construction, interdisciplinary/ integrated curriculum planning, specific group strategies, individualizing techniques, instructional technology, and professional development.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 554 [Min Grade: B]

EDUC 556 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students' reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 560 Conflict and Dispute Resolution 3.0 Credits
Examines the concept of conflict and means for its resolution as it occurs between individuals and within organizations. Provides foundational knowledge for professionals practicing in many fields and industries to resolve conflicts in positive ways. Students will examine obvious and hidden organizational conflict and the dispute resolutions systems available to resolve these issues. Includes skill development techniques for dispute resolution to apply learned knowledge.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 561 Mediating and Resolving Conflict in School Settings 3.0 Credits
Current theory and research in the field of conflict resolution and mediation with focus on becoming familiar with evidence-based strategies applicable to challenging environments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 565 Foundations in Instructing English Language Learners 3.0 Credits
This is a foundations course to prepare all pre-service teachers to work with English Lang. Learners. Focus will be on gaining an understanding of the linguistic, social and academic needs of ELLs and the roles and responsibilities of the classroom teacher in meeting those needs. Field-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 566 Futures Studies in Education and the Workplace 3.0 Credits
Course explains and analyzes the field of futures studies including overview of the origins of futures studies, study of how futures studies methods are and can be utilized in education and a range of other industries, and techniques for developing strategic forecasts and plans. A critical approach is taken to enable an analysis of the field's strengths and weaknesses.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 601 Language, Learning and Teaching Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 604 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 603 Structure and Sound System Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 604 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 604 Structure and Sound System of English 3.0 Credits
This course focuses on the structural features of the English language, including phonetic, phonological, morphological, syntactic and pragmatic features. In the practicum component, participants will collect and analyze language from both native and non-native speakers of English, using it to develop targeted structural exercises for English instruction.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 605 Design & Assessment Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 606 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 606

EDUC 606 Design and Assessment 3.0 Credits
This course emphasizes the role of ESL teachers as course developers and action researchers, focusing on effective lesson planning, task design, materials development, assessment and evaluation, and the use of computers in instruction. In the practicum component, participants will design thematic units, determine objectives, develop materials, and design assessment tools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 607 Intercultural Learner Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 608 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 608

EDUC 608 The Intercultural Learner 3.0 Credits
This course explores the needs, experiences, values, and beliefs of culturally and linguistically diverse learners and their families and communities. Building home/school relations and adapting and supporting curriculum through school services will be a focus. For a practicum, participants will engage in a case study of an English language learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 609 Language & Culture in Education 3.0 Credits
The purpose of this course is to explore the identity and cultural backgrounds of English Language Learners (ELLs) in our schools and to discuss the impact of these backgrounds on students' educational progress. The course will address the ways in which teachers can provide an appropriate learning environment for students of diverse backgrounds.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 610 Action Research in Teaching ELLs 3.0 Credits
This course serves as capstone course within the Teaching English as a Second Language (ESL) credential program at Drexel. Candidates integrate content obtained in the prior core courses through an action research project with English Language Learners in a public school setting under the mentorship of an TESL specialist. Candidates also prepare for their transition to an independent ESL program professional by documenting their competencies in a teaching portfolio and creating a professional development plan.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 606 [Min Grade: B] (Can be taken Concurrently) EDUC 602 [Min Grade: B] and EDUC 604 [Min Grade: B] and EDUC 608 [Min Grade: B] and LING 560 [Min Grade: B]

EDUC 620 Physics in the Arts in Philadelphia 3.0 Credits
This course explores the city of Philadelphia to identify "physics" concepts within the city and in its art with the goal for students to become better aware of the importance of STEM (science, technology, engineering and math) in their daily lives. STEM knowledge empowers citizens as consumers and voters. An elementary understanding of the basic principles of science can inform better decisions regarding energy use, environmental protection, and even, dietary and exercise choices. Using the city as a laboratory we will explore learning in informal settings and put theoretical lessons into a real-world context.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 622 The Science of Sport 3.0 Credits
STEM concepts will be learned through the vehicle of sports in which the underlying principles of science and mathematics are discovered. Topics that will be covered in the course include: geometry, forces, motion, mechanics, biomechanics, anatomy and physiology, kinesiology, simple machines, energy transformations, and aerodynamics. Students will learn these concepts while performing aspects of different sports. The purpose is for students to actually see the science and mathematics concepts happening.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 701 Classroom Research for Teachers I 1.5 Credit
In this second course in a two-course sequence, students will utilize school-based, collected research data. Issues pertaining to the ethics of data collection, data analysis and interpretation and writing the classroom research study will be examined and explored. Students will be mentored in the writing of research with a view toward submission of their research for publication and presentation.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 700 [Min Grade: B]

EDUC 702 School Leadership & Decision Making 3.0 Credits
This course will focus on decision-making in the schools. Emphasis will be placed on major challenges and opportunities in the work world of the principal and the interpersonal skills of school leadership.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 705 School Law and Politics 3.0 Credits
This course is designed to assist students with their understanding of how law, politics, and power structures interact to influence the goals and operations of the schools. Students will study the roles of school boards and community organizations, state boards of education, state government agencies, special interest groups, professional organizations, and unions.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 708 Integration of Technology with School Instruction and Management 3.0 Credits
In this course students will investigate learning theory and its implication for interactive multimedia learning formats including the relationship of instructional design principles to selection of multimedia elements.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 715

EDUC 710 School Finance and Facilities 3.0 Credits
In this course, students will study the school budgeting process and school facilities management. Students will receive an overview of the basic financial and facility issues, unique to education that affect individual school buildings.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 716

EDUC 712 School and Community Partnerships and Relations 3.0 Credits
In this course, students will study the skills, techniques and attitudes school leaders need to work effectively with school constituents.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 718
EDUC 714 Instructional and Curriculum Leadership 3.0 Credits
In this course, students will examine the relationship between school culture and classroom instruction. Students will study the five fundamental tasks of instructional leadership (direct assistance, group development, professional development, curriculum development, and action research). Students will also investigate effective classroom observation methods.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 717

EDUC 715 School Principal Internship: Technology 1.5 Credit
This yearlong intensive internship is the activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 708 [Min Grade: C] (Can be taken Concurrently)

EDUC 716 School Principal Internship: Finance 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 710 [Min Grade: C] (Can be taken Concurrently)

EDUC 717 School Principal Internship: Leadership 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 714 [Min Grade: C] (Can be taken Concurrently)

EDUC 718 School Principal Internship: School and Community Relations 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 712 [Min Grade: C] (Can be taken Concurrently)

EDUC 750 Critical Issues in Education Seminar 3.0 Credits
This course is offered in the style of a “proseminar” that consists of reading, reflection and discussion with a faculty member on a focused critical issue in education. Specific foci will change each term and be aligned with faculty expertise and student interests. The course is designed to inform doctoral students on educational issues to impact their teaching and research agenda.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 775 Special Topics in Teacher Preparation 9.0 Credits
Covers various topics of particular interest to teacher education students.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

EDUC 799 Independent Study in Teacher Preparation 0.5-9.0 Credits
Covers various topics of particular interest to teacher education students, explored individually by the student under guidance from an instructional team member.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

EDUC 800 Educational Leadership & Change 3.0 Credits
Covers leadership characteristics, styles, and profiles along with the dynamics of the change process. Students develop an action plan for a school-based project, keep a log, and do reflective analysis. Students will interview a leader about their experiences in change and develop a leadership portfolio.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 801 Creative Strategies For Educational Leaders 3.0 Credits
Examines the theoretical and research issues pertaining to creativity and the development of the creative thought process. Emphasizes how role playing and drama techniques can become a powerful tool to promote creative thinking, innovation, and change for educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 802 Using and Integrating Learning Technologies 3.0 Credits
Covers learning theories and integrative models as they use instructional software in different contexts and subject areas. Demonstrates strategies for using and implementing multimedia, hypermedia, and electronic networking for candidates to implement in their own school settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 803 Educational Research Design I 3.0 Credits
Introduces students to research design paradigms and the assumptions behind them, use of the literature, developing research questions, qualitative and quantitative procedures, and research study formats.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 804 Program Evaluation in Organizations 3.0 Credits
This course provides an experience in designing effective program evaluations for many purposes. Increasingly, evaluation and assessment are required for education research, research grants, school and organizational reform, and public policy. Students will study the foundations of program evaluation, examine underlying assumptions about the purposes and models of evaluation, and explore the various roles of the evaluator. In studying examples, students will vicariously experience various program evaluations from start to finish and understand the complexities of decision-making that evaluators face.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 806 Linking Educational Theory to Research 3.0 Credits
Course designed to acquaint students with educational theories and perspectives that have shaped the education discipline. A range of educational theories developed throughout 19th, 20th and 21st centuries will be discussed and explored toward guiding students on how these theories and viewpoints apply to research and educational practice today.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 807 Multi- & Cross-Cultural Perspectives in Leadership 3.0 Credits
Course will assist administrators, researchers and scholars to transform schools to address persistent inequities present in US educational systems and serve the needs of disadvantaged and disenfranchised groups. Course will deepen students' knowledge of multicultural education and advance their skills and talents as educational leaders.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 809 Introduction to Data Collection and Analysis 3.0 Credits
This course prepares students to collect basic quantitative and qualitative data to be analyzed in a subsequent required course. Students will be introduced to educational research data and implications and use in research.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: B] and EDUC 810 [Min Grade: B]

EDUC 810 Educational Research Design II 3.0 Credits
The course builds upon Educational Research Design I and focuses on five main themes: research design, sampling design, data collection, data analysis, and reporting research results using educational applications.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 803 [Min Grade: C]

EDUC 811 Designing and Developing Multimedia Applications For Learning 3.0 Credits
Allows students to design and develop a multimedia application for learning using an object-oriented authoring application and the process of design, development, and testing. Demonstrates and applies principles of learning that affect interface design, instructional design, storyboarding, navigation, interactivity, and feedback design.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 812 Staff Development & Team Building 3.0 Credits
Helps educational leaders explore effective models for professional development in schools and school districts. Covers the development of effective strategies and practices based upon current research, adult learning theory, and successful local and national models. Also provides in-depth training in the area of effective meeting design, involvement, and decision-making.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 813 Educational Issues Seminar 3.0 Credits
Examines current issues in public education, including school community, staff relations, integrating educational innovation, negotiating the bureaucracy, public charter schools, and urban education.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 814 Designing Educational Organizations 3.0 Credits
Examines innovation in rostering, scheduling, and defining the instructional program. Emphasizes middle school education and design of small learning communities such as the cluster concept and public charter schools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 815 Writing for Research, Publication and Funding in Education 3.0 Credits
Guides students in the writing for research, publication, and funding in education by studying examples of effective writing formats written by successful practitioners and by using an active writing process approach: writing drafts, and giving feedback in small peer groups. Students produce a final document for each type of writing that employs authentic tasks and assessments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 816 Inclusion Issues 3.0 Credits
Examines the various inclusion models whereby children with special needs become part of the teaching and learning community in which everyone-teacher and all students-can benefit by an inclusive program. Addresses such topics as how administrators may take leadership in implementing inclusion and designing an inclusive school.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 817 Curriculum Models 3.0 Credits
Allows candidates to develop models of curricula aligned with local, state, and national standards. Presents strategies for interdisciplinary teaching, creating constructivist learning environments, and developing integrative curriculum modules. Considers learning styles in effective methods that will be modeled and implemented in the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 818 Applied Research Study 0.5-20.0 Credits
Offers candidates a field-based opportunity to design and implement a pilot research study that will be presented and defended. Steps include framing the question and methodological approach, collecting and analyzing data, interpreting the results, and writing a report. Students document their research activities in a log. Research approaches can include action research, case studies, experimental designs, etc.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 820 School Superintendency 3.0 Credits
This course is designed to provide both theoretical and practical insights into the evolving responsibilities associated with being the chief executive officer of a school system.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 801 [Min Grade: C] and EDUC 802 [Min Grade: C]

EDUC 824 Parents and Schools 3.0 Credits
This course provides the candidate with the skills required by system-level administrators to work with a broad spectrum of constituencies. Students will focus on the major issues facing families, especially those that mitigate against strong home-school relations, such as poverty, domestic violence, and drug abuse.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: B]
Corequisite: EDUC 828

EDUC 827 School Superintendent's Internship: Curriculum Models 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 820 [Min Grade: C]

EDUC 828 School Superintendent's Internship II 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: C]
Corequisite: EDUC 824

EDUC 829 School Superintendent's Internship III 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 828 [Min Grade: C]

EDUC 830 School Superintendent's Internship IV 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 829 [Min Grade: C]

EDUC 835 Quantitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 810. Use of statistical methods using real-world problems and real-world data to gain experience with following topics: analysis of variance and covariance, simple and multiple linear regression, multivariate techniques of factor analysis, cluster analysis and multi-level and structural equation modeling. Course includes a lab for practice-based learning using SPSS.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: C] and EDUC 810 [Min Grade: C]

EDUC 836 Qualitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 835. Use of qualitative methods using real-world problems and real-world data to gain experience with following research techniques such as ethnography and case studies to gain skills in participant observation, interviewing, archival research and historical analysis. Other theoretical frameworks and methodological approaches for qualitative research will be discussed. Course includes a lab for practice-based learning to use computer software for data collection/analysis.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 835 [Min Grade: C]

EDUC 840 Theories of Individual Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective from an individual cognitive perspective and will include emphasis on both recent research and seminal literature. The course will be an introduction to the psychological foundations of STEM education. This course is the first in a three-course STEM (Science, Engineering, Technology, and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 842 Social Foundation and Group Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective and will include emphasis on both recent and seminal literature. The course will include an introduction to the sociocultural research and foundations of STEM education. This course is the second in a three-course STEM (Science, Engineering, Technology, and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
EDUC 844 Creativity and Innovation in STEM Education 3.0 Credits
This course will provide a foundation of creativity, innovation theory, awareness of research and seminal literature in the context of STEM education. Theories of creativity and creative thinking, the methods for studying creativity and the biological basis of creativity. The course is the third in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 880 Doctoral Seminar 1.0 Credit
Seminar to prepare students who have completed the core doctoral courses and residency requirement to work with their Dissertation Advisor in the development of their dissertation research proposal.
College/Department: School of Education
Repeat Status: Can be repeated 10 times for 10 credits
Prerequisites: EDUC 810 [Min Grade: B] and EDUC 811 [Min Grade: B] and EDUC 813 [Min Grade: B]

EDUC 998 PhD Dissertation 1.0-12.0 Credit
Allows candidates to conduct an original research study that will comprise the dissertation.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

Master of Science in Teaching, Learning & Curriculum

Master of Science: 45.0 quarter credits

About the Program
The MS in Teaching, Learning, and Curriculum program provides two options: (Track I) earning a master's degree while completing initial certification to become a classroom teacher; or (Track II) earning a master's degree to enhance an existing career as a classroom teacher. Students in Track II select an area of concentration from among a variety of options, providing an opportunity for intensive study in teaching, learning, and curriculum; educational leadership; international education; instructional technology; or higher education. Students may also customize their own concentration based on their interests and professional needs.

Track I: Initial Pennsylvania Teacher Certification
This track incorporates current research on teaching and provides in-depth preparation in pedagogy, curriculum development, teaching students with special needs, implications of learner and task characteristics for instructional design, scaffolding instruction for diverse learners, the latest techniques in evaluation of instruction, and use of interactive technology in instruction. The student is provided opportunities to synthesize theoretical and practical knowledge through field study.

Successful completion of the core pedagogy courses, subject area content courses and state licensure exams allows for recommendation for PA Instructional I certification.

Track II: Advanced Studies in Teaching, Learning and Curriculum
This track is designed to provide students with advanced teaching knowledge and skills well beyond that required for initial Pennsylvania certification. Graduates will be prepared to function in a variety of roles as instructors, instructional leaders or researchers in local, state, national and international organizations, foundations, associations, corporations and private educational institutions. The program also provides a strong foundation for doctoral level studies.

Program Goals
Graduates of the MS in Teaching, Learning and Curriculum will:

- Possess advanced knowledge related to effective instruction in a variety of educational settings.
- Demonstrate skills in developing, analyzing, implementing, and evaluating existing and new instructional strategies and practices in a variety of educational institutions/organizations.
- Exhibit outstanding leadership, organizational, cross cultural, interpersonal and advocacy skills including the ability to communicate effectively with internal and external groups.
- Have in-depth knowledge of both public and private (non-profit and for-profit) institutions as well as small and large institutions.

Admission Requirements
Admission to the MS in Teaching, Learning and Curriculum will follow the University standards for admission to graduate study including receipt of a bachelor's degree from an accredited college or university with an earned GPA of 3.0 on a 4.0 scale. Undergraduates who meet the rigorous requirements for participation in a Bachelor's and Master Dual Degree Program may also be considered. Ideally, a successful candidate will possess a public school teaching certificate or, in the case of an undergraduate pursuing the BS/MS track, complete teacher certification requirement in conjunction with the MS degree.

Prospective students can learn about specific admission requirements by visiting the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/programs/edu/teaching-learning-and-curriculum) website.

Degree Requirements
Track I: Initial Pennsylvania Teacher Certification
A minimum of 45.0 credits is required for students with or without prior certification for the Master of Science degree.

Core Courses
Completion of the following 33.0 (secondary certification) credits or 42.0 (PreK-4) credits of core pedagogy courses allows for recommendation for PA Instructional I certification. View the requirements on the Post-Baccalaureate Teaching Certificate: Elementary Pre-K-4 and Secondary Concentrations page for additional information on requirements for specialization in subject areas.

Secondary Education Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 566</td>
<td>Literacy and Content Skill Development 7-12</td>
<td>3.0</td>
</tr>
</tbody>
</table>
EDUC 514 Science Teaching Methods 3.0
EDUC 515 Adolescent Learners in Secondary Schools 3.0
EDUC 520 Professional Studies in Instruction 3.0
EDUC 522 Evaluation of Instruction 3.0
EDUC 525 Multi-Media Instructional Design 3.0
EDUC 540 Field Experience 3.0
EDUC 558 Reading in the Content Areas 3.0
EDUC 565 Foundations in Instructing English Language Learners 3.0
Professional Electives 12.0
Total Credits 45.0

Elementary Education (PreK-4) Core Courses
EDEX 542 Fundamentals of Special Education 3.0
EDEX 544 The Inclusive Classroom 3.0
EDEX 546 Literacy and Content Skill Development PreK-8 3.0
EDUC 506 Assessment of Young Learners 3.0
EDUC 513 Elementary Science Teaching Methods 3.0
EDUC 520 Professional Studies in Instruction 3.0
EDUC 521 Typical and Atypical Development in Early Childhood Education 3.0
EDUC 525 Multi-Media Instructional Design 3.0
EDUC 529 Early Literacy 3.0
EDUC 539 Expressive Arts 3.0
EDUC 540 Field Experience (Graduate Student Teaching with Seminar) 3.0
EDUC 555 Social Studies Teaching Methods 3.0
EDUC 565 Foundations in Instructing English Language Learners 3.0
MTED 517 Mathematics Methods and Content (PreK-4) 3.0
Professional Elective 3.0
Total Credits 45.0

Track II: Advanced Studies in Teaching, Learning and Curriculum

Students will complete a total of 45 credit hours consisting of seven core courses, two research courses, and six concentration courses in an approved area.

Core Courses
EDUC 530 Advanced Techniques in Instruction & Assessment 3.0
EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0
EDUC 609 Language & Culture in Education 3.0
EDUC 714 Instructional and Curriculum Leadership 3.0
EDUC 813 Educational Issues Seminar 3.0
Select two courses from the following list: 6.0
EDPO 620 Education Policy: Concepts, Issues, and Applications 3.0
EDUC 705 School Law and Politics 3.0
EDUC 804 Program Evaluation in Organizations 3.0

Research Courses
EDUC 700 Classroom Research for Teachers I 4.5
EDUC 701 Classroom Research for Teachers II 1.5

Concentration Courses * 18.0
Total Credits 45.0

* Students choose from the following concentration options with the approval of a graduate academic advisor and the program director:
  - Educational Administration
  - Global and International
  - Instructional Technology
  - Higher Education
  - Customized Concentration (including other Drexel academic departments) e.g., ESL Program Specialist, Autism Spectrum Disorders, Educational Policy, Evaluation and Assessment

Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education
Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/university articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroutis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).
Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access. college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provizano, PhD (Marywood University). Associate Clinical Professor. Educational administration.
Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance.

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph’s University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development.

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

**Interdepartmental Faculty**

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.

**Emeritus Faculty**


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

**PhD in Educational Leadership Development and Learning Technologies**

*Doctor of Philosophy: 74.0 quarter credits (beyond the master's degree requirements)*

**About the Program**

**Vision**

The PhD program in Educational Leadership Development and Learning Technologies is designed for those who aspire to be education researchers, university faculty or research analysts. The program is designed so that students will have the skills, knowledge and experience to be leaders and stewards of the field. Graduates from this program develop research and critical thinking abilities directed toward the creation of new knowledge, integration and original application and/or teaching of existing knowledge and scholarly inquiry in their field of study.

Applicants to this program are expected to have high aptitude for research and inquiry in the field of education. They will express career interest in topics into which the faculty of the school are actively inquiring and researching. The assumption is that the most effective training for the PhD stems from collaborative research and inquiry into topics of mutual interest by an able student and faculty scholars and researchers. The major emphasis of the program consists of the individual students and faculty members(s) jointly researching and inquiring into an area of study to conduct scholarly research.

In addition, two areas of concentration are available:

**Leadership**

Designed to introduce student to leadership characteristics, styles, and profiles along with the dynamics of the process of change in educational organizations. Students also systematically learn techniques to promote creative thinking, innovation, and change for educational leaders, as well as how to design effective program evaluations.

**Science, Technology, Engineering, and Mathematics (STEM)**

Designed to prepare students to become members of the STEM education community, through both reading, discussing, analyzing and criticizing important research from the science, technology, education, and mathematics education literature, synthesizing this work around common themes, and drawing practical conclusions within the students area of interest as well within the broader area of STEM education.

**Mission**

The emphasis of the program is philosophical underpinning and theory-driven research. In addition to study in educational leadership, policy and the foundation of education, the program requires extensive preparation in quantitative and qualitative research methods. A small cohort of students will be admitted for full-time study. Students will be immersed in an internship to scholarly life, learning to teach and conducting research with faculty while completing coursework and other program requirements. These three areas will combine to:
• convey deep scholarly knowledge of education and related areas outside of education,
• promote a broad understanding of various methods of inquiry in education and develop competency in several of those methods,
• impart broad knowledge of theory and practice, and
• promote excellence as a college teacher.

Cohort and Delivery Format
This program will be limited to a cohort of full-time students for whom full funding is available and who will be fully embraced as members of the School of Education. The program will be delivered on-campus and will be situated in the framework of collaborative, transformational learning and knowledge generation. Small seminars, independent projects and practicum opportunities are designed for an individualized program.

Additional Information
For more information about this program, contact the program manager:

Jemina Williams
jtb84@drexel.edu
215-895-1965
Or visit the School of Education’s Graduate Program (https://webedit.drexel.edu/soe/academics/graduate) website.

Admission Requirements
The ideal candidate will have a research-oriented master’s degree in an area relevant to their desired specialization, a GPA of 3.25 (ideally 3.5 on a 4.0 scale) and competitive Graduate Record Exam (GRE) scores on each of the sub-tests: Verbal, Quantitative and Analytical.

All applicants are required to submit the following materials.
• Graduate School Application
• Official transcripts from all undergraduate and graduate study
• Official copies of GRE score reports sent directly to the Office of Graduate Admissions. International applicants who have not studied in the US, and whose first language is not English, are required to take the TOEFL and score 100 or higher (highest score is 120).
• Resume or curriculum vitae
• A statement of career goals, including specific research and scholarly interests. The applicant should be sure to indicate how their interests coincide with those of particular School of Education faculty members. (Visit our website for a list of current faculty research interests.)
• Three letters of reference from people familiar with prior academic performance
• Copies of students’ scholarly writing, including published papers and theses or term papers

The School of Education admissions committee will review each application and, prior to acceptance, an interview may be required.

Early application is recommended; please refer to the current information available from the Office of Graduate Admissions for the application deadline.

Additional information about how to apply is available on the Graduate Admissions at Drexel University (http://www.drexel.edu/grad/programs/edu/educational-leadership-development-and-learning-technologies) site.

Degree Requirements

Course of Study
The PhD program of study involves formal coursework and informal experiences. The total minimum credits for the PhD degree is 74.0 credits, distributed among the following areas:
• Breadth and depth in education and educational research (12.0 credits)
• Research core (20.0 credits)
• Content concentration (27.0 credits)
• Mentored research experiences (6.0 credits)
• Dissertation research (9.0 credits minimum)

Research preparation is the foundation of the PhD program. Students begin research activities during the first year of the program, and continue to develop their skills by conducting various research projects with School of Education faculty, presenting research findings at conferences and writing research papers, culminating with the dissertation work. Thus, the program is designed to immerse the student in educational content, inquiry and methodology, so as to ask critical questions and design procedures to conduct research.

Required Courses

Breadth and Depth in Education Courses 12.0
EDUC 750 Critical Issues in Education Seminar (3-credit course taken 3 times) 9.0
Elective 3.0
Research Core Courses 20.0
EDUC 803 Educational Research Design I 3.0
EDUC 809 Introduction to Data Collection and Analysis 3.0
EDUC 810 Educational Research Design II 3.0
EDUC 815 Writing for Research, Publication and Funding in Education 3.0
EDUC 835 Quantitative Research Methods and Data Analysis 4.0
EDUC 836 Qualitative Research Methods and Data Analysis 4.0
Concentration Courses 27.0
Students select either a concentration in Leadership or in STEM Education. All courses in the chosen concentration area must be completed.

Leadership Concentration: 27.0
EDUC 800 Educational Leadership & Change 3.0
EDUC 801 Creative Strategies For Educational Leaders 3.0
EDUC 804 Program Evaluation in Organizations 3.0
12 credits of independent study/electives in concentration specialization area 12.0
6 credits of electives in specialization area outside of the School of Education 6.0

STEM Education Concentration: 27.0
EDUC 840 Theories of Individual Cognition in STEM Education 3.0
EDUC 842 Social Foundation and Group Cognition in STEM Education 3.0
EDUC 844 Creativity and Innovation in STEM Education 3.0
Education Faculty

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

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James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroutis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Guilfo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children’s achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.
Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.

Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor.

Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph's University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vomdran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.
Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Courses

EDUC 505 Instructional Systems Design 3.0 Credits
This course explores and offers in-depth analysis of relevant theories relating to contemporary application of Instructional Systems Design. The purpose is to provide the student with theoretical, experimental and critical perspectives on instructional design as it is applied in a number of educational venues.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 506 Assessment of Young Learners 3.0 Credits
Candidates will demonstrate a thorough understanding of the role of the assessment process in early childhood education. The content will provide graduate candidates with an in-depth review of informal evaluation procedures and classroom-based data collection strategies for young children in inclusive early child care and education settings.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 510 Computer Applications In Teaching 3.0 Credits
Analyzes issues concerning uses of computing in instruction. Evaluates the microcomputer as an instructional aide in elementary and secondary classroom instruction. Provides hands-on experience with applications in students' subject matter fields to develop competence in selecting and integrating appropriate instructional software for computers found in today's classrooms, with particular focus on the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 511 Computer Skills for Teachers 3.0 Credits
Presents major instructional design concepts students will use in developing their own curricular materials. Describes and discusses various kinds of teacher-developed instructional tools in relation to appropriate instructional task or learning environment. Primarily uses the Macintosh microcomputer and appropriate authoring systems. Provides extensive hands-on instruction and experience using various authoring systems to create many different kinds of instructional tools. Students must be experienced with the Macintosh.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 510 [Min Grade: C]

EDUC 512 Focus on World Geography 3.0 Credits
Through the study of geography, students will be encouraged to find a meaningful framework for understanding the system of human culture on Earth and become familiar with the vast interactive system involving humanity and its natural environment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 513 Elementary Science Teaching Methods 3.0 Credits
Methods for teaching elementary school science are explored including strategies and technologies to support student learning as defined by the state and national science standards. Inquiry-based model of learning and assessment emphasized. Theory and practice bridged to provide hands-on experiences in application of constructivist learning theory and effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 514 Science Teaching Methods 3.0 Credits
This course bridges theory and practice, providing hands-on experience in the application of constructivist learning theory to designing and delivering effective classroom experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 515 Adolescent Learners in Secondary Schools 3.0 Credits
Enables student to understand the organizational structure of high school programs as related to the diverse needs of the adolescent learner. Students will acquire competence in designing learner-oriented communities of practice in the classroom to foster achievement and overall well-being of the secondary learner.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 516 Diversity and Today's Teacher 3.0 Credits
This course explores major issues related to the increasing diversity of students in elementary and secondary classrooms in the United States. The multifaceted challenges of teaching heterogeneous student populations (and strategies for).
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 517 Math Methods & Content: Early Childhood PK-4 3.0 Credits
Candidates will develop an in-depth understanding of how to effectively deliver standards-aligned academic content-based on age appropriate understanding and individual and group needs including an appreciation and respect for the individual differences and unique needs of all children in the PK-4 setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 518 Mathematics: Method & Content 3.0 Credits
Course emphasizes diagnostic instruction in mathematics by allowing students to complete problems that their students will be expecting to work, noting the error and correction process as well as gaining an awareness of student's difficulties in mathematics.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 519 Teaching Secondary Mathematics 3.0 Credits
The course focuses on major issues in learning and teaching mathematics in the secondary classroom. Topics will include instructional practices, learning theories, assessment and current research in math. This course also includes multimedia and field-based experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 520 Professional Studies in Instruction 3.0 Credits
For students who lack professional-level classroom teaching in grades K to 12. Examines and develops skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, and identification of instructional resources. Discusses current principles of developmental and learning theories and instructional design applied to teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 521 Typical and Atypical Development in Early Childhood Education 3.0 Credits
This course addresses the multifaceted complexities of typical and atypical child development, through the discussion of classic and emerging theories. The primary aim of the course is to foster the students’ ability to recognize and apply the connections among developmental domains and of theory and research with educational practice. The readings and class assignments make use of research-based, real-world, and cross-cultural examples.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 522 Evaluation of Instruction 3.0 Credits
Enables the student to acquire competence in evaluation techniques including portfolios, journals, performance assessments, individual and collaborative projects, and presentations. The course covers qualitative and quantitative assessment used in measuring student achievement. Techniques for grading will also be explored.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 523 Diagnostic Teaching 4.0 Credits
Focuses on teaching that attempts to identify the student's level of performance and the all the relevant information that contributes to that performance. Involves analysis of material to be learned and implementation of instruction that integrates the learner's cognitive and emotional development with the appropriate part of the knowledge or task to be learned. Investigates various learning styles, including field-dependent/independent, convergent/divergent thinking, right/left brain activity, reflective/impulsive personalities, risk-taking/cautious, and attention to locus of control. Includes analysis and application of generic influences on cognitive, social, emotional, psychomotor, and physical aspects of learning. Investigates curriculum in terms of its psychological nature and selection and development of instructional strategies that enhance learning and prevent learning problems. Provides opportunities to work with elementary and secondary school students in the Drexel Diagnostic Mathematics Learning Laboratory.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]

EDUC 524 Current Research in Curriculum & Instruction 3.0 Credits
Examines the relationship of curricula and instruction to current research in learning and knowledge construction, developing higher-order thinking in specific disciplines and content areas, and the role of understanding and metacognition in learning. Complex problems of pedagogy are identified and analyzed (e.g., interdisciplinary curricula, team teaching, collaborative learning), with attention to designing learning goals and outcomes with effective instructional strategies.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 525 Multi-Media Instructional Design 3.0 Credits
Investigates learning theory and its implications for interactive multimedia formats, including the relationship of instructional design principles to selection of media elements (text, video, sound, animation, and graphics) for high-quality design. Examines human-computer interface principles, navigation features, and visual thinking using a wide range of educational software examples. Criteria for software assessment and virtual classrooms are reviewed. Students design and write a software prototype as a group design project. Complex issues and concepts in technology and education are analyzed.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 526 Language Arts Processes 3.0 Credits
Applies contemporary research to processes and problems in teaching oral and written communication, with the basic assumption that listening, speaking, writing, and reading are integrated processes and should be taught as such. Covers analysis and use of instructional strategies for teaching developmental reading and writing, reading and writing in content areas, written correspondence, research reports, journal writing, poetry, and appreciation of children's literature.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 527 Understanding Learning Disabilities 3.0 Credits
Addresses learning disability issues including types of learning disabilities and related general approaches to the assessment and treatment of them. Specific disorders discussed include dyslexia, dyscalculia, attention deficit hyperactivity disorder, social cognition deficit, and disorders of language and hearing.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 528 Cultural and Historical Significance of Mathematics 3.0 Credits
The course explores how mathematics reflects and influences the ideas and movements in culture, history, biography and philosophy. An emphasis on teaching methods is integrated throughout the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
EDUC 529 Early Literacy 3.0 Credits
Course examines research-validated literacy instruction and literacy interventions. Topics include: phonics, fluency, comprehension, vocabulary, and the reading-writing connection. Significant emphasis is placed on the socio-cultural aspects of reading: appreciating linguistic diversity, integrating cultural narratives, building reading communities, and motivating children through authentic reading and writing experiences.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 530 Advanced Techniques in Instruction & Assessment 3.0 Credits
Major professional and educational issues associated with college teaching are addressed. Provides multiple opportunities to develop and enhance teaching skills, as well as exposure to alternative assessment.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 531 College Teaching & Communication Skills 1.0 Credit
This course addresses critical issues in college teaching and communication skills. These are: what is learning, comparative philosophies of education, understanding the adult learner, best practices in integrating technology to enhance learning, methods of evaluation student learning including performance-based assessments and foundations for effective oral and written communication.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 532 Designing Virtual Communities for Staff Development - Non-Field Experience 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers, administrators, librarians, and other professionals in schools responsible for technology and professional development. Online discussion groups, video conferencing, and web-based instruction will be used to form a virtual learning community. There is no field experience component in this course.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is HRD.

EDUC 533 Designing Virtual Communities 3.0 Credits
Examines the impact of distance learning and multimedia technologies on the educational systems of teachers and other professionals responsible for technology and professional development. Online discussion groups, video conferencing, and Web-based instruction will be used to form a virtual learning community. This course includes a 20-hour internship for ITS certification.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 534 Developing Educational Leaders Using Technology 3.0 Credits
Addresses leadership and team building competencies that instructional technologists need to work collaboratively with teachers, administrators, parent groups, and the community. Will use technologies that facilitate communication and team building. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 525 [Min Grade: B]

EDUC 535 Researching & Evaluating Instructional Technology 3.0 Credits
Course will focus on teaching and learning technology standards, general applications of technology and basic technology and skills. Will examine and critique educational software and learning technologies, and through research, develop criteria for technology. This course includes a 1-2 day field-based research assignment.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 522 [Min Grade: B]

EDUC 536 Distance Learning 3.0 Credits
The course explores pedagogical issues in distance learning. Readings are integrated with hands-on use of the tools used to create distance learning programs.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 537 Learning Disabilities II 3.0 Credits
The course focuses on how to manage instruction for students with special needs in the inclusive classroom.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 538 English Teaching Methods 3.0 Credits
This course is designed to support the development of pre-service teachers in the secondary English/Language Arts Classroom. Students will be provided opportunities to integrate and apply theories of learning, curriculum and pedagogy of English and L. Arts in the secondary classroom. Additional classroom-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 539 Expressive Arts 3.0 Credits
The focus of this graduate course is to teach future educators to develop and incorporate relevant curriculum for the expressive arts (dance, music, theatre and visual arts), into the PK-4 classroom. Through observation, curriculum development and assessment, educators will be able to identify, administer, interpret and plan instruction for PK-4 learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 521 [Min Grade: C]

EDUC 540 Field Experience 3.0 Credits
Provides supervised field experience at a cooperating school designed to develop skills in instructional planning, pedagogy, motivation, classroom management and discipline, interrelationships among diverse populations within school settings, identification of instructional resources, and applications of current research on effective teaching.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 520 [Min Grade: B]
EDUC 555 Social Studies Teaching Methods 3.0 Credits
Course prepares the preservice teacher in making appropriate decisions about students and instructional processes in the social studies classroom. Perceptions and perspectives as it relates to social studies instruction in the following areas are explored: curriculum standards, unit development, assessment design and construction, interdisciplinary/integrated curriculum planning, specific group strategies, individualizing techniques, instructional technology, and professional development.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 556 Secondary Social Studies Methods (7-12) 3.0 Credits
Course provides understanding of effective Social Studies methods in secondary classrooms. History of pedagogical debates within Social Studies, is examined to incorporate effective Social Studies teaching methods. Careful attention is given to the Common Core Standards for Social Studies. Requirements include 30 hours of field experience in a school setting to include at least two lessons taught independently. In order to participate students must have the necessary background clearances.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 515 [Min Grade: B]

EDUC 558 Reading in the Content Areas 3.0 Credits
This introductory course is designed to help all (7-12) teacher candidates improve their students' reading, writing, research and discussion skills in school and for lifetime learning. The course will focus on important formats and strategies for learning to read and write well and to learn in any subject.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 560 Conflict and Dispute Resolution 3.0 Credits
Examines the concept of conflict and means for its resolution as it occurs between individuals and within organizations. Provides foundational knowledge for professionals practicing in many fields and industries to resolve conflicts in positive ways. Students will examine obvious and hidden organizational conflict and the dispute resolutions systems available to resolve these issues. Includes skill development techniques for dispute resolution to apply learned knowledge.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 561 Mediating and Resolving Conflict in School Settings 3.0 Credits
Current theory and research in the field of conflict resolution and mediation with focus on becoming familiar with evidence-based strategies applicable to challenging environments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 565 Foundations in Instructing English Language Learners 3.0 Credits
This is a foundations course to prepare all pre-service teachers to work with English Lang. Learners. Focus will be on gaining an understanding of the linguistic, social and academic needs of ELLs and the roles and responsibilities of the classroom teacher in meeting those needs. Field-based observation hours will be required.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 566 Futures Studies in Education and the Workplace 3.0 Credits
Course explains and analyzes the field of futures studies including overview of the origins of futures studies, study of how futures studies methods are and can be utilized in education and a range of other industries, and techniques for developing strategic forecasts and plans. A critical approach is taken to enable an analysis of the field's strengths and weaknesses.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 601 Language, Learning and Teaching Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 602 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 602

EDUC 602 Language Learning & Teaching 3.0 Credits
This course introduces participants to foundational theory in both first and second language acquisition and instruction. The course explores how learners acquire language, what influences the learning process, and how instruction best aids that process. A practicum component includes observations of classrooms and tutorials of English language learners.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 603 Structure and Sound System Portfolio 1.5 Credit
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 604 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 604

EDUC 604 Structure and Sound System of English 3.0 Credits
This course focuses on the structural features of the English language, including phonetic, phonological, morphological, syntactic and pragmatic features. In the practicum component, participants will collect and analyze language from both native and non-native speakers of English, using it to develop targeted structural exercises for English instruction.
College/Department: School of Education
Repeat Status: Not repeatable for credit
**EDUC 605 Design & Assessment Portfolio 1.5 Credit**
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 606 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Corequisite:** EDUC 606

**EDUC 606 Design and Assessment 3.0 Credits**
This course emphasizes the role of ESL teachers as course developers and action researchers, focusing on effective lesson planning, task design, materials development, assessment and evaluation, and the use of computers in instruction. In the practicum component, participants will design thematic units, determine objectives, develop materials, and design assessment tools.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 607 Intercultural Learner Portfolio 1.5 Credit**
This course is designed to assist students in developing a professional Teaching English as a Second Language (TESL) Teaching Portfolio. In this course the students will focus on the TESL competencies that are covered in EDUC 606 and demonstrate through artifacts, reflections, activities and course work how they can directly relate the standard to the instructional setting.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 608 The Intercultural Learner 3.0 Credits**
This course explores the needs, experiences, values, and beliefs of culturally and linguistically diverse learners and their families and communities. Building home/school relations and adapting and supporting curriculum through school services will be a focus. For a practicum, participants will engage in a case study of an English language learner.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Corequisite:** EDUC 608

**EDUC 609 Language & Culture in Education 3.0 Credits**
The purpose of this course is to explore the identity and cultural backgrounds of English Language Learners (ELLs) in our schools and to discuss the impact of these backgrounds on students’ educational progress. The course will address the ways in which teachers can provide an appropriate learning environment for students of diverse backgrounds.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 610 Action Research in Teaching ELLs 3.0 Credits**
This course serves as capstone course within the Teaching English as a Second Language (ESL) credential program at Drexel. Candidates integrate content obtained in the prior core courses through an action research project with English Language Learners in a public school setting under the mentorship of an TESL specialist. Candidates also prepare for their transition to an independent ESL program professional by documenting their competencies in a teaching portfolio and creating a professional development plan.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 620 Physics in the Arts in Philadelphia 3.0 Credits**
This course explores the city of Philadelphia to identify "physics" concepts within the city and in its art with the goal for students to become better aware of the importance of STEM (science, technology, engineering and math) in their daily lives. STEM knowledge empowers citizens as consumers and voters. An elementary understanding of the basic principles of science can inform better decisions regarding energy use, environmental protection, and even, dietary and exercise choices. Using the city as a laboratory we will explore learning in informal settings and put theoretical lessons into a real-world context.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 622 The Science of Sport 3.0 Credits**
STEM concepts will be learned through the vehicle of sports in which the underlying principles of science and mathematics are discovered. Topics that will be covered in the course include: geometry, forces, motion, mechanics, biomechanics, anatomy and physiology, kinesiology, simple machines, energy transformations, and aerodynamics. Students will learn these concepts while performing aspects of different sports. The purpose is for students to actually see the science and mathematics concepts happening.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

**EDUC 700 Classroom Research for Teachers I 4.5 Credits**
This course introduces candidates to teacher research, a form of self-reflective systematic inquiry by practitioners on their own practice. The goals of teacher research are the improvement of practice, a better understanding of that practice, and an improvement in the situation in which the practice is carried out. Also examined will be findings from research on practice and how it can be used to support school and instructional change.

**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit
EDUC 701 Classroom Research for Teachers II 1.5 Credit
In this second course in a two-course sequence, students will utilize school-based, collected research data. Issues pertaining to the ethics of data collection, data analysis and interpretation and writing the classroom research study will be examined and explored. Students will be mentored in the writing of research with a view toward submission of their research for publication and presentation.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 700 [Min Grade: B]

EDUC 702 School Leadership & Decision Making 3.0 Credits
This course will focus on decision-making in the schools. Emphasis will be placed on major challenges and opportunities in the work world of the principal and the interpersonal skills of school leadership.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 705 School Law and Politics 3.0 Credits
This course is designed to assist students with their understanding of how law, politics, and power structures interact to influence the goals and operations of the schools. Students will study the roles of school boards and community organizations, state boards of education, state government agencies, special interest groups, professional organizations, and unions.

College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 708 Integration of Technology with School Instruction and Management 3.0 Credits
In this course students will investigate learning theory and its implication for interactive multimedia learning formats including the relationship of instructional design principles to selection of multimedia elements.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 715

EDUC 710 School Finance and Facilities 3.0 Credits
In this course, students will study the school budgeting process and school facilities management. Students will receive an overview of the basic financial and facility issues, unique to education that affect individual school buildings.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 716

EDUC 712 School and Community Partnerships and Relations 3.0 Credits
In this course, students will study the skills, techniques and attitudes school leaders need to work effectively with school constituents.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 718

EDUC 713 School and Community Partnerships and Relations 3.0 Credits
In this course, students will study the skills, techniques and attitudes school leaders need to work effectively with school constituents.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 718

EDUC 714 Instructional and Curriculum Leadership 3.0 Credits
In this course, students will examine the relationship between school culture and classroom instruction. Students will study the five fundamental tasks of instructional leadership (direct assistance, group development, professional development, curriculum development, and action research). Students will also investigate effective classroom observation methods.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Corequisite: EDUC 717

EDUC 715 School Principal Internship: Technology 1.5 Credit
This yearlong intensive internship is the activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 708 [Min Grade: C] (Can be taken Concurrently)

EDUC 716 School Principal Internship: Finance 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 710 [Min Grade: C] (Can be taken Concurrently)

EDUC 717 School Principal Internship: Leadership 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 714 [Min Grade: C] (Can be taken Concurrently)

EDUC 718 School Principal Internship: School and Community Relations 1.5 Credit
The yearlong intensive internship is the culminating activity for the students in the Drexel Education Leadership Program. During this course, the students will put school leadership theory and knowledge to practical application.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 712 [Min Grade: C] (Can be taken Concurrently)

EDUC 750 Critical Issues in Education Seminar 3.0 Credits
This course is offered in the style of a “proseminar” that consists of reading, reflection and discussion with a faculty member on a focused critical issue in education. Specific foci will change each term and be aligned with faculty expertise and student interests. The course is designed to inform doctoral students on educational issues to impact their teaching and research agenda.

College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
EDUC 775 Special Topics in Teacher Preparation 9.0 Credits  
Covers various topics of particular interest to teacher education students.  
**College/Department:** School of Education  
**Repeat Status:** Can be repeated multiple times for credit

EDUC 799 Independent Study in Teacher Preparation 0.5-9.0 Credits  
Covers various topics of particular interest to teacher education students, explored individually by the student under guidance from an instructional team member.  
**College/Department:** School of Education  
**Repeat Status:** Can be repeated multiple times for credit

EDUC 800 Educational Leadership & Change 3.0 Credits  
Covers leadership characteristics, styles, and profiles along with the dynamics of the change process. Students develop an action plan for a school-based project, keep a log, and do reflective analysis. Students will interview a leader about their experiences in change and develop a leadership portfolio.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 801 Creative Strategies For Educational Leaders 3.0 Credits  
Examines the theoretical and research issues pertaining to creativity and the development of the creative thought process. Emphasizes how role playing and drama techniques can become a powerful tool to promote creative thinking, innovation, and change for educational leaders.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 802 Using and Integrating Learning Technologies 3.0 Credits  
Covers learning theories and integrative models as they use instructional software in different contexts and subject areas. Demonstrates strategies for using and implementing multimedia, hypermedia, and electronic networking for candidates to implement in their own school settings.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 803 Educational Research Design I 3.0 Credits  
Introduces students to research design paradigms and the assumptions behind them, use of the literature, developing research questions, qualitative and quantitative procedures, and research study formats.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 804 Program Evaluation in Organizations 3.0 Credits  
This course provides an experience in designing effective program evaluations for many purposes. Increasingly, evaluation and assessment are required for education research, research grants, school and organizational reform, and public policy. Students will study the foundations of program evaluation, examine underlying assumptions about the purposes and models of evaluation, and explore the various roles of the evaluator. In studying examples, students will vicariously experience various program evaluations from start to finish and understand the complexities of decision-making that evaluators face.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 806 Linking Educational Theory to Research 3.0 Credits  
Course designed to acquaint students with educational theories and perspectives that have shaped the education discipline. A range of educational theories developed throughout 19th, 20th and 21st centuries will be discussed and explored toward guiding students on how these theories and viewpoints apply to research and educational practice today.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 807 Multi- & Cross-Cultural Perspectives in Leadership 3.0 Credits  
Course will assist administrators, researchers and scholars to transform schools to address persistent inequities present in US educational systems and serve the needs of disadvantaged and disenfranchised groups. Course will deepen students’ knowledge of multicultural education and advance their skills and talents as educational leaders.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 809 Introduction to Data Collection and Analysis 3.0 Credits  
This course prepares students to collect basic quantitative and qualitative data to be analyzed in a subsequent required course. Students will be introduced to educational research data and implications and use in research.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Restrictions:** Can enroll if major is ELLT.  
**Prerequisites:** EDUC 803 [Min Grade: B] and EDUC 810 [Min Grade: B]

EDUC 810 Educational Research Design II 3.0 Credits  
The course builds upon Educational Research Design I and focuses on five main themes: research design, sampling design, data collection, data analysis, and reporting research results using educational applications.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit  
**Prerequisites:** EDUC 803 [Min Grade: C]

EDUC 811 Designing and Developing Multimedia Applications For Learning 3.0 Credits  
Allows students to design and develop a multimedia application for learning using an object-oriented authoring application and the process of design, development, and testing. Demonstrates and applies principles of learning that affect interface design, instructional design, storyboarding, navigation, interactivity, and feedback design.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit

EDUC 812 Staff Development & Team Building 3.0 Credits  
Helps educational leaders explore effective models for professional development in schools and school districts. Covers the development of effective strategies and practices based upon current research, adult learning theory, and successful local and national models. Also provides in-depth training in the area of effective meeting design, involvement, and decision-making.  
**College/Department:** School of Education  
**Repeat Status:** Not repeatable for credit
EDUC 813 Educational Issues Seminar 3.0 Credits
Examine current issues in public education, including school community, staff relations, integrating educational innovation, negotiating the bureaucracy, public charter schools, and urban education.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 814 Designing Educational Organizations 3.0 Credits
Examines innovation in rostering, scheduling, and defining the instructional program. Emphasizes middle school education and design of small learning communities such as the cluster concept and public charter schools.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 815 Writing for Research, Publication and Funding in Education 3.0 Credits
Guides students in the writing for research, publication, and funding in education by studying examples of effective writing formats written by successful practitioners and by using an active writing process approach: writing drafts, and giving feedback in small peer groups. Students produce a final document for each type of writing that employs authentic tasks and assessments.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 816 Inclusion Issues 3.0 Credits
Examines the various inclusion models whereby children with special needs become part of the teaching and learning community in which everyone-teacher and all students-can benefit by an inclusive program. Addresses such topics as how administrators may take leadership in implementing inclusion and designing an inclusive school.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 817 Curriculum Models 3.0 Credits
Allows candidates to develop models of curricula aligned with local, state, and national standards. Presents strategies for interdisciplinary teaching, creating constructivist learning environments, and developing integrative curriculum modules. Considers learning styles in effective methods that will be modeled and implemented in the course.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 818 Applied Research Study 0.5-20.0 Credits
Offers candidates a field-based opportunity to design and implement a pilot research study that will be presented and defended. Steps include framing the question and methodological approach, collecting and analyzing data, interpreting the results, and writing a report. Students document their research activities in a log. Research approaches can include action research, case studies, experimental designs, etc.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 820 School Superintendency 3.0 Credits
This course is designed to provide both theoretical and practical insights into the evolving responsibilities associated with being the chief executive office of a school system.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 801 [Min Grade: C] and EDUC 802 [Min Grade: C]

EDUC 824 Parents and Schools 3.0 Credits
This course provides the candidate with the skills required by system-level administrators to work with a broad spectrum of constituencies. Students will focus on the major issues facing families, especially those that mitigate against strong home-school relations, such as poverty, domestic violence, and drug abuse.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: B]
Corequisite: EDUC 828

EDUC 827 School Superintendent's Internship: Curriculum Models 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 820 [Min Grade: C]
Corequisite: EDUC 827

EDUC 828 School Superintendent's Internship:: Parents and Schools 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 827 [Min Grade: C]
Corequisite: EDUC 824

EDUC 829 School Superintendent's Internship III 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 828 [Min Grade: C]

EDUC 830 School Superintendent's Internship IV 1.0 Credit
This is a yearlong internship in various central office positions depending on the candidate's career preferences. The experience will focus on school issues of a system-wide impact, such as policy development, long-range planning, school board function and personnel management.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Prerequisites: EDUC 829 [Min Grade: C]
EDUC 835 Quantitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 810. Use of statistical methods using real-world problems and real-world data to gain experience with following topics: analysis of variance and covariance, simple and multiple linear regression, multivariate techniques of factor analysis, cluster analysis and multi-level and structural equation modeling. Course includes a lab for practice-based learning using SPSS.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 803 [Min Grade: C] and EDUC 810 [Min Grade: C]

EDUC 836 Qualitative Research Methods and Data Analysis 4.0 Credits
Continuation of EDUC 835. Use of qualitative methods using real-world problems and real-world data to gain experience with following research techniques such as ethnography and case studies to gain skills in participant observation, interviewing, archival research and historical analysis. Other theoretical frameworks and methodological approaches for qualitative research will be discussed. Course includes a lab for practice-based learning to use computer software for data collection/analysis.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 835 [Min Grade: C]

EDUC 840 Theories of Individual Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective and will include emphasis on both recent research and seminal literature. The course will be an introduction to the psychological foundations of STEM education. This course is the first in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.
Prerequisites: EDUC 835 [Min Grade: C]

EDUC 842 Social Foundation and Group Cognition in STEM Education 3.0 Credits
Course foci is on the knowing and learning of STEM education from a social perspective and will include emphasis on both recent and seminal literature. The course will include an introduction to the sociocultural research and foundations of STEM education. This course is the second in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit
Restrictions: Can enroll if major is ELLT.

EDUC 844 Creativity and Innovation in STEM Education 3.0 Credits
This course will provide a foundation of creativity, innovation theory, awareness of research and seminal literature in the context of STEM education. Theories of creativity and creative thinking, the methods for studying creativity and the biological basis of creativity. The course is the third in a three-course STEM (Science, Engineering, Technology and Mathematics) education content specialization sequence.
College/Department: School of Education
Repeat Status: Not repeatable for credit

EDUC 880 Doctoral Seminar 1.0 Credit
Seminars to prepare students who have completed the core doctoral courses and residency requirement to work with their Dissertation Advisor in the development of their dissertation research proposal.
College/Department: School of Education
Repeat Status: Can be repeated 10 times for 10 credits
Prerequisites: EDUC 810 [Min Grade: B] and EDUC 811 [Min Grade: B] and EDUC 813 [Min Grade: B]

EDUC 998 PhD Dissertation 1.0-12.0 Credit
Allows candidates to conduct an original research study that will comprise the dissertation.
College/Department: School of Education
Repeat Status: Can be repeated multiple times for credit

Post-Bachelor's Certificate in Applied Behavior Analysis

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-baccalaureate
Number of Credits to Completion: 31.5
Instructional Delivery: Campus; Online
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Aid eligible

Behavior analysis is a widely accepted and validated scientific approach to the description and investigation of the environmental arrangements that occasion behavior. More than 60 years of research with proven methods and impressive findings has helped develop the technology now called applied behavior analysis. Over the past five decades, behavior analytic clinical and research advances have led to significant contributions in education programming, and mental health and behavioral health therapies.

The post bachelor's certificate in applied behavior analysis is designed to prepare clinical and educational leaders in the field of evidence-based interventions using behavior analytic theory and techniques. Leaders from this program will be highly successful candidates for institutions searching for knowledgeable and skilled behavior analytic consultants, program coordinators, senior clinical directors and interventionists.

Admission Requirements

Students applying to this program should have the following:

- Bachelor’s degree from a regionally accredited institution.
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
- Completed graduate school application.
• Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
• Two letters of recommendation - professional or academic.
• An essay describing why the applicant is interested in pursuing graduate study in this field.
• An interview, in person or by phone, will be conducted by the admissions committee with those applicants who meet Graduate Admission’s standard admissions criteria.

Core Applied Behavior Analysis Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 551</td>
<td>Pervasive Developmental Disorders</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 630</td>
<td>Fundamental Elements of Behavior Change</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 631</td>
<td>Measurement and Experimental Design</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 632</td>
<td>Behavioral Assessment and Functional Analysis</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 633</td>
<td>Behavioral Interventions</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 634</td>
<td>Consultation, Systems Change and Supervision</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 635</td>
<td>Ethical Considerations and Professional Conduct</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Total Credits 31.5

A field component is required in EDEX 551.

Additional Information:

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Post-Bachelor's Certificate in Secondary Education: Special Education 7-12

Certificate Level: Graduate
Admission Requirements: Bachelor’s degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 31.5
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Expected Time to Completion: 3 years
Financial Aid Eligibility: Aid eligible

The special education 7-12 certification program seeks to produce professionals who are equipped with the fundamental skills, knowledge, and competencies necessary to meet the needs of students at risk for school failure and students with disabilities in multiple settings.

This certificate program focuses on students at the secondary level. The special education 7-12 certification program is intended for those interested in gaining greater skills and expertise in the area of secondary special education and a teaching certificate in the area of secondary special education. Candidates seeking PA special education 7-12 certification must have an active PA Instructional I or Instructional II teaching certificate in a required area.

This program is a part-time graduate program consisting of 31.5 credits in core special education 7-12 certification courses. For students that have not completed the prerequisite courses, the program will require 40.5 credits; 31.5 credits in core special education 7-12 certification courses and 9 credits in prerequisite courses.

The program is designed for currently certified teachers who wish to obtain special education 7-12 certification in Pennsylvania. Out-of-state teachers may also earn their PA special education 7-12 certification if they transfer their current teacher certification to PA.

Admission Requirements

Students applying to this program should have the following:

• Bachelor’s degree from a regionally accredited institution.
• Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
• Completed graduate school application.
• Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
• Two letters of recommendation - professional or academic.
• An essay describing why the applicant is interested in pursuing graduate study in this field.

Program Requirements

Pre-requisites for Special Education 7-12 Certification *

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
<td></td>
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<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
<td></td>
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<tr>
<td>EDEX 566</td>
<td>Literacy and Content Skill Development 7-12</td>
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</tbody>
</table>

Required Courses: 7-12 Special Education Certification Concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 548</td>
<td>Emotional and Behavioral Support of Individuals with Disabilities</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 549</td>
<td>High Incident Disabilities</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 550</td>
<td>Teaching Individuals with Low Incident Disabilities</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 551</td>
<td>Pervasive Developmental Disorders</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 563</td>
<td>Special Education: Methods &amp; Practices 7-12</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 567</td>
<td>Special Education Processes 7-12</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Total Credits 31.5

* 9.0 quarter credits total. All students entering this program from an approved PA certification program after 2011 should have had these three courses in their initial certification requirements. If a student does not have these courses, he or she must complete them with a minimum grade of “B” in addition to the required core certification courses.

A field component is required in each course.

Additional Information:

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu
Post-Bachelor's Certificate in Special Education Leadership

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certification Type: Post-Baccalaureate
Number of Credits to Completion: 28.0
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Aid eligible

The Post-Bachelor's Certificate in Special Education Leadership program is designed to produce educators who are equipped with the advanced skills, knowledge, and competencies necessary to lead programs that meet the needs of students at risk for and with disabilities in multiple settings.

The program requires 16.0 credits of special education leadership courses and 12.0 credits of leadership core courses (for a total of 28.0 credits). The courses in the leadership core focus on areas of change, finance, evaluation and assessment, and technology. Students must complete all courses and meet the prerequisite standards established by the PA Dept of Education for recommendation for the PA Supervisor of Special Education certification.

Admission Requirements

Students applying to this program should have the following:

- Bachelor's degree from a regionally accredited institution.
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
- Completed graduate school application.
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
- Two letters of recommendation - professional or academic.
- An essay describing why the applicant is interested in pursuing graduate study in this field.

Leadership Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAM 522</td>
<td>Evaluation &amp; Assessment Competencies</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 708</td>
<td>Integration of Technology with School Instruction and Management</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 710</td>
<td>School Finance and Facilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 800</td>
<td>Educational Leadership &amp; Change</td>
<td>3.0</td>
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</tbody>
</table>

Special Education Leadership Concentration Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 710</td>
<td>School Law &amp; Policy in Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 712</td>
<td>Instructional &amp; Curriculum Leadership in Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 714</td>
<td>Development, Supervision, &amp; Support: Special Education Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 716</td>
<td>Organization &amp; Administration of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 721</td>
<td>Supervisor of Special Education Internship: Special Education Leadership</td>
<td>1.0</td>
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<tr>
<td>EDEX 722</td>
<td>Supervisor of Special Education Internship: Instructional Leadership</td>
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</tr>
<tr>
<td>EDEX 723</td>
<td>Supervisor of Special Education Internship: Collaboration &amp; Personnel</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Additional Information:

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Post-Bachelor's Teaching Certificate: Elementary Education

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certification Type: Post-Baccalaureate
Number of Credits to Completion: 42.0
Instructional Delivery: Campus
Calendar Type: Quarter
Expected Time to Completion: 3 years
Financial Aid Eligibility: Aid eligible

This certificate program is designed for individuals who hold a bachelor's degree and who seek to qualify for Pennsylvania teacher certification at the elementary level. The curriculum is designed for those changing careers as well as those who already serve as temporary, emergency, or substitute teachers and wish to earn a formal teaching credential. Students completing the certification program have the option to continue coursework to earn MS in Teaching, Learning & Curriculum degree. All graduate credits earned in this certificate program may be applied toward the Master's degree in Teaching, Learning and Curriculum.

The program will prepare students for a Pennsylvania Instructional I Certificate. Students also have the option of earning the Graduate Intern Teaching Certificate during the course of the program. The PA Graduate Intern Teaching Certificate feature is only available to students who want to teach in Pennsylvania.

For students intending to teach outside of Pennsylvania, through operation of interstate reciprocity agreements, a Pennsylvania teaching certificate may be converted to the analogous teaching certificate in another state. The School recommends prospective students contact their state’s Department of Education to find out these transfer procedures before proceeding.

Certification Area

Drexel University's Pennsylvania Department of Education-approved programs certify students who already hold Bachelor's degrees to be teachers in Elementary Education (PreK-4).

Additional undergraduate content courses may be required. Learn more about undergraduate content course requirements for elementary or secondary certification in each subject.

Early Childhood/Elementary (PreK-4) Certification

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>EDEX 542</td>
<td>Fundamentals of Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 544</td>
<td>The Inclusive Classroom</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 546</td>
<td>Literacy and Content Skill Development PreK-8</td>
<td>3.0</td>
</tr>
</tbody>
</table>
**Education Faculty**

Jennifer Adams, EdD (Harvard University). Associate Professor. Global and International Education

Kristen Betts, EdD (George Washington University). Clinical Professor. Higher education administration and governance, online blended education, instructional design and technology, program assessment and evaluation.

W. Edward Bureau, PhD (University of Pennsylvania) Site Director of the Sacramento EdD program. Associate Clinical Professor. Leadership, supervision, and capacity development.

Jamie Callahan, EdD (George Washington University). Clinical Professor. Leadership, sociological explorations of emotions occurring in organizational contexts, contextual issues confronting organizations.

Holly Carpenter, PhD (Arizona State University). Assistant Clinical Professor. Higher education policy development and implementation, community college/undergraduate articulation, and online education.

José Luis Chávez, EdD (University of Southern California) Program Coordinator for Sacramento MS in Higher Education. Clinical Professor. Higher education leadership and administration.

Rebecca Clothey, PhD (University of Pittsburgh). Assistant Professor. Comparative and international education, education of ethnic and linguistic minorities, sociology of education.

James E. Connell, Jr., PhD, NCSP, BCBA-D (Louisiana State University) Clinical Director and Research Fellow, A.J. Drexel Autism Institute. Associate Professor. Identifying the variables that influence adult behavior change in community settings.

D. Brent Edwards, PhD (University of Maryland). Assistant Clinical Professor. Global and international education.

Salvatore V. Falletta, EdD (North Carolina State University). Associate Clinical Professor. Human Resource intelligence (i.e., HR research and analytics practices); HRD assessment, measurement, and evaluation models and taxonomies; organizational diagnostic models; web-based employee and organizational survey methods, and computational modeling.

Aroutis N. Foster, PhD (Michigan State University). Assistant Professor. Educational psychology and educational technology, especially the following: Motivation; Technological Pedagogical Content Knowledge (TPACK); Immersive Interactive Digital Environments (simulation, games, virtual realities).

Timothy Fukawa-Connelly, PhD (University of Maryland). Assistant Professor. Mathematics education, mathematical concepts, proof, proof presentation, statistics education.

Kathy D. Geller, PhD (Fielding Graduate University). Assistant Clinical Professor. Educational leadership and management; Transformational leadership; Adult learning; Career development; Organizational effectiveness; Change management.

Rajashi Ghosh, PhD (University of Louisville, Kentucky). Assistant Professor. Mentoring and leader development, workplace Incivility, workplace learning and development.

Rod P. Githens, PhD (University of Illinois at Urbana-Champaign). Associate Clinical Professor. Increasing access to self-sustaining careers through workforce development; Online education.

Roger Geertz Gonzalez, PhD (The Pennsylvania State University). Associate Clinical Professor. Civic Engagement, college student identity development, indigenous higher education, comparative higher education access policies.

John M. Gould, PhD (University of Pittsburgh). Associate Clinical Professor. Change leadership, curriculum re-design, the impact of technology on learning.

Allen C. Grant, PhD (Louisiana State University) Program Director of Educational Administration Program and Site Director of Philadelphia and Online EdD Program. Assistant Clinical Professor. K-3 virtual schooling, virtual school leadership, collaborative technologies, 21st century learning skills.

Mary Jo Grdina, PhD (Case Western Reserve University). Associate Clinical Professor. Undergraduate studies; Science education; Curriculum design; Informal science education; Preparation and development of science educators; Physics in Philadelphia.

Dominic F. Gullo, PhD (Indiana University) Associate Dean of Research. Professor. Studying the relative and long-range effects of early schooling experiences in prekindergarten and kindergarten on children's achievement and social adaptation to school routine.

Penny Hammrich, PhD (University of Minnesota) Doctor of Doctoral Programs. Professor. Urban education, science, education, science literacy, genetics, gender equity, sport science, science knowledge for conceptual teaching, conceptual change learning.

Paul Harrington, EdD (University of Massachusetts) Director of the Center for Markets and Policy. Professor. Health labor markets, teen and young adult job access, college labor market, high school to college transition, drop-outs, vocational rehabilitation and job market transition, disability in the labor market, older workers, career and technical education, economic outlook, immigrants in the college labor market, workforce development, planning and evaluation.

Elizabeth Haslam, PhD (University of Pennsylvania) Program Director of Learning Technologies. Associate Clinical Professor. Educational field coordinator, instructional design, qualitative evaluation, writing across the curriculum.
Marlene Hilkowitz Assistant Clinical Professor. Science education; Curriculum development; Student engagement.

Deanna Hill, JD, PhD (University of Iowa, University of Pittsburgh Program) Program Director of Higher Education. Assistant Clinical Professor. Higher education, international education, education law, education policy.

Jennifer Katz-Buonincontro, PhD (University of Oregon). Assistant Professor. Leadership development, psychology of developing creative thinking and problem solving in leaders, adult learning, case study design, survey and instrument design, creativity and the arts.

Kristine Kelly, PhD (University of Wisconsin-Madison) Program Director of Global and International Education Program. Assistant Clinical Professor. Sociology of development, anthropology of policy, comparative and international education, qualitative research methods, Vietnam and Southeast Asia.


Bruce Levine, JD (New York University) Program Director of Educational Policy and Educational Improvement and Transformation Programs. Assistant Clinical Professor. Educational policy, school law, public-private partnerships, intersection of business and education.

Kristine Lewis, PhD (Temple University). Assistant Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

Kristine S. Lewis Grant, PhD (Temple University). Associate Clinical Professor. Experiences of students of African descent at predominantly white colleges and universities, college access and college student development, youth civic engagement in urban school reform, qualitative research and evaluation.

William Lynch, PhD (University of Maryland). Professor. Educational technology, curriculum and educational leadership, distance learning policy development, high and adult education.

Constance Lyttle, PhD, JD (University of Pittsburgh). Associate Clinical Professor. Legal rights of gifted and talented children and children with disabilities, inclusive education of exceptional children, special education mediation, special education IEP/IFSP facilitation facilitation, resolution session facilitation.

Kenneth J. Mawritz, PhD (University of Pittsburgh) Site Director for Pottstown and Blue Bell EdD Cohorts. Assistant Clinical Professor. Educational administration.

Michel L. Miller O'Neal, PhD (University of Miami). Assistant Professor. Special education; Autism Spectrum Disorders; Program evaluation

Joyce Pittman, PhD (Iowa State University of Science and Technology) Site Director for Harrisburg EdD Program. Associate Clinical Professor. Curriculum and instruction K-16; Teaching English as a Foreign Language (TEFL); instructional design business education and administration; industrial and career technology; oral and written communication; research methodology; instructional and assistive technology assessment; Online learning pedagogy.

Kathleen Provinzano, PhD (Marywood University). Associate Clinical Professor. Educational administration.

Fredricka K. Reisman, PhD (Syracuse University) Director of Torrance Center for Creativity and Innovation. Professor. Mathematics education, learning mathematics, mathematics pedagogy, teacher education, heuristic diagnostic learning and teaching, theory and research in creativity and applied creativity.

Lori Severino, EdD (Neumann University) Program Director for Special Education Programs. Assistant Clinical Professor. Special education, differentiated instruction, reading, Wilson language, multi-sensory instruction, reading comprehension, assessment, adolescent literacy.

Jason Silverman, PhD (Vanderbilt University) Program Director for Mathematical Learning and Teaching Program. Associate Professor. Teaching and learning of advanced mathematical ideas (algebra and calculus); improving teachers' ability to orchestrate and sustain inquiry-based and discussion-based instruction; technology in mathematics education.

Brian Smith, PhD (Northwestern University). Professor. Design of computer-based learning environments; Human-computer interaction; Design sciences.

Nancy Butler Songer, PhD (University of California, Berkeley) Dean, School of Education. Distinguished Professor. STEM education, urban education, educational assistance

Mary Jean Tecce DeCarlo, EdD (University of Pennsylvania). Assistant Clinical Professor. Early Literacy Development; Digital and Information Literacy; Learning differences; Urban education.

Sarah P. Ulrich, EdD (St. Joseph's University) Program Director, Teacher Education. Associate Clinical Professor. Emphasis in Cross Cultural, Language and Academic Development

Sheila Vaidya, PhD (Temple University). Associate Professor. Educational psychology, school psychology, research design.

Christina Vorndran, PhD (Louisiana State University). Associate Clinical Professor. Applied behavior analysis; Developmental disabilities.

M. Hope Yursa Assistant Clinical Professor. Mathematics learning and teaching.

Interdepartmental Faculty

Jacqueline Genovesi, PhD (Drexel University) Vice President, Education, the Academy of Natural Sciences. Assistant Clinical Professor. Museum education, interpretive strategies and museum leadership.

Barbara Jean Hoekje, PhD (University of Pennsylvania) Director of English Language Center. Associate Professor. Sociolinguistic theory, discourse analysis, applied linguistics (language teaching, learning, and testing).

Patricia Henry Russell, MS (Drexel University). Teaching Professor. Probability and statistics.
Emeritus Faculty


Bernard Lentz, PhD (Yale University) Vice Provost for Institutional Research Emeritus. Professor. Institutional research in higher education; Educational and labor market impacts of work-integrated learning; Economics of higher education; Racial and gender equity among faculty in higher education and the learned professions.

Post-Bachelor's Teaching Certificate: Elementary Education Special Education Concentration

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 31.5
Instructional Delivery: Online; Campus
Calendar Type: Quarter
Expected Time to Completion: 3 years
Financial Aid Eligibility: Aid eligible

The special education PreK-8 certification program seeks to produce professionals who are equipped with the fundamental skills, knowledge, and competencies necessary to meet the needs of students at risk for school failure and students with disabilities in multiple settings.

This certificate program focuses on students from the prekindergarten to middle school levels. The special education PreK-8 certification program is intended for those interested in gaining greater skills and expertise in the area of PreK-8 special education and a teaching certificate in the area of PreK-8 special education. Candidates seeking PA special education PreK-8 certification must have an active PA Instructional I or Instructional II teaching certificate in a required area.

This program is a part-time graduate program consisting of 31.5 credits in core special education PreK-8 certification courses. For students that have not completed the prerequisite courses, the program will require 40.5 credits: 31.5 credits in core special education PreK-8 certification courses and 9 credits in prerequisite courses.

The program is designed for currently certified teachers who wish to obtain special education PreK-8 certification in Pennsylvania. Out of state teachers may also earn their PA special education PreK-8 certification if they transfer their current teacher certification to PA.

The courses cover all required state and federal regulations related to No Child Left Behind (NCLB) and Chapter 49 as well as the PA General Standards for Special Education and the standards outlined by the Council of Exceptional Children (CEC).

Admission Requirements

Students applying to this program should have the following:

- Bachelor’s degree from a regionally accredited institution.
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
- Completed graduate school application.

- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
- Two letters of recommendation - professional or academic.
- An essay describing why the applicant is interested in pursuing graduate study in this field.

Program Requirements

Pre-requisites for Certification in Special Education (PreK-8)

Students must have completed the following courses in order to apply for a Pennsylvania Special Education PreK-8 certification. All students entering the post-bachelor’s certificate program after 2011 should have had these core courses in their initial certification program. If a student has not completed the following three courses, they should be taken to apply for special education certification:

EDEX 542 Fundamentals of Special Education 3.0
EDEX 544 The Inclusive Classroom 3.0
EDEX 546 Literacy and Content Skill Development PreK-8 3.0

Core Certification Courses

EDEX 547 Special Education Processes PreK-8 4.5
EDEX 548 Emotional and Behavioral Support of Individuals with Disabilities 4.5
EDEX 549 High Incident Disabilities 4.5
EDEX 550 Teaching Individuals with Low Incident Disabilities 4.5
EDEX 551 Pervasive Developmental Disorders 4.5
EDEX 552 Integrating Technology for Learning & Achievement 4.5
EDEX 553 Special Education: Methods & Practices PreK-8 4.5

Total Credits 31.5

A field component is required in each course.

Additional Information:

For more information about this program, contact the program manager:

Owen Schugsta
School of Education
Drexel University
215.895.1690
ocs23@drexel.edu

Post-Bachelor's Teaching Certificates: Secondary Education

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate
Number of Credits to Completion: 33.0
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Aid eligible

These certificate programs are designed for individuals who hold a bachelor's degree and who seek to qualify for Pennsylvania teacher certification at the secondary level. The curriculum is designed for those changing careers as well as those who already serve as temporary, emergency, or substitute teachers and wish to earn a formal teaching
credential. Students completing the certification program have the option to continue coursework to earn MS in Teaching, Learning & Curriculum degree. All graduate credits earned in this certificate program may be applied toward the Master's degree in Teaching, Learning and Curriculum.

The program will prepares students for a Pennsylvania Instructional I Certificate. Students also have the option of earning the Graduate Intern Teaching Certificate during the course of the program. The PA Graduate Intern Teaching Certificate feature is only available to students who want to teach in Pennsylvania.

For students intending to teach outside of Pennsylvania, through operation of interstate reciprocity agreements, a Pennsylvania teaching certificate may be converted to the analogous teaching certificate in another state. The School recommends prospective students contact their state’s Department of Education to find out these transfer procedures before proceeding.

**Certification Areas**

Drexel University’s Pennsylvania Department of Education-approved programs certify students who already hold Bachelor's degrees to be teachers in Secondary Education (7-12):

- biology
- chemistry
- physics
- earth and space science
- general science
- environmental education
- English
- social studies
- mathematics

Additional undergraduate content courses may be required. Learn more about undergraduate content course requirements for secondary certification in each subject.

**Secondary Biology Certification**

<table>
<thead>
<tr>
<th>Core Pedagogy Courses</th>
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<tbody>
<tr>
<td>EDUC 514</td>
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<td>EDUC 515</td>
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<td>EDEX 566</td>
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<td>EDUC 558</td>
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<td>EDUC 565</td>
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</table>

**Total Credits** 33.0

**Secondary Chemistry Certification**

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<th>Core Pedagogy Courses</th>
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<tbody>
<tr>
<td>EDUC 514</td>
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<td>EDUC 515</td>
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**Secondary Earth and Space Science Certification**

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<th>Core Pedagogy Courses</th>
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<td>EDUC 558</td>
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<td>EDUC 565</td>
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**Total Credits** 33.0

**Secondary English Certification**

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<tr>
<td>EDUC 515</td>
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<td>EDUC 558</td>
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<td>EDUC 565</td>
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</tbody>
</table>

**Total Credits** 33.0

**Environmental Education (K-12) Certification**

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<tr>
<th>Core Pedagogy Courses</th>
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<td>EDUC 514</td>
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<td>EDUC 525</td>
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<td>EDUC 540</td>
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<td>EDEX 542</td>
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</tbody>
</table>

**Total Credits** 33.0
### Secondary General Science Certification

**Core Pedagogy Courses**
- **EDUC 514** Science Teaching Methods 3.0
- **EDUC 515** Adolescent Learners in Secondary Schools 3.0
- **EDUC 520** Professional Studies in Instruction 3.0
- **EDUC 522** Evaluation of Instruction 3.0
- **EDUC 525** Multi-Media Instructional Design 3.0
- **EDUC 540** Field Experience 3.0
- **EDEX 542** Fundamentals of Special Education 3.0
- **EDEX 544** The Inclusive Classroom 3.0
- **EDEX 566** Literacy and Content Skill Development 7-12 3.0
- **EDUC 556** Reading in the Content Areas 3.0
- **EDUC 565** Foundations in Instructing English Language Learners 3.0

**Total Credits** 33.0

### Secondary Social Studies Certification

**Core Pedagogy Courses**
- **EDUC 540** Field Experience 3.0
- **EDEX 566** Literacy and Content Skill Development 7-12 3.0
- **EDUC 558** Reading in the Content Areas 3.0
- **EDUC 565** Foundations in Instructing English Language Learners 3.0

**Total Credits** 33.0

### Secondary Mathematics Certification

**Core Pedagogy Courses**
- **EDEX 542** Fundamentals of Special Education 3.0
- **EDEX 544** The Inclusive Classroom 3.0
- **EDUC 556** Reading in the Content Areas 3.0
- **EDUC 558** Reading in the Content Areas 3.0
- **EDUC 565** Foundations in Instructing English Language Learners 3.0

**Total Credits** 33.0

### Secondary Physics Certification

**Core Pedagogy Courses**
- **EDEX 542** Fundamentals of Special Education 3.0
- **EDEX 544** The Inclusive Classroom 3.0
- **EDUC 558** Reading in the Content Areas 3.0
- **EDUC 565** Foundations in Instructing English Language Learners 3.0

**Total Credits** 33.0

### Professional Development Certificate: Collaborative Special Education Law and Process

**Certificate Level:** Graduate  
**Admission Requirements:** Bachelor’s degree  
**Certificate Type:** Professional Development  
**Number of Credits to Completion:** 9.0  
**Instructional Delivery:** Campus, Online  
**Calendar Type:** Quarter  
**Expected Time to Completion:** 1 year  
**Financial Aid Eligibility:** Not aid eligible

The Collaborative Special Education Law and Process Professional Development Certificate seeks to prepare individuals to meet the unique learning needs of students with disabilities, through legally mandated school, home and community collaboration.

Meeting the needs of children with disabilities through school-parent-community collaboration is the goal of educational policy in the United States. An implementing goal is to develop highly qualified special education teachers and administrators in schools and the community as well as offer special education collaborative-knowledge and practical-skills training to parents and advocates, whose cooperative partnership is imperative to support the provisions for the successful learning of all students as incorporated and mandated in NCLB and the IDEA 2004.

Achieving these goals requires collaborative educators, advocates and service providers committed to meeting the learning needs of all students with disabilities. This professional development certificate will benefit participants by providing them with the specialized training necessary to be collaborative partners in the complex process of implementing federal and state mandates to appropriately educate students with disabilities.

### Admission Requirements

- Bachelor’s degree from a regionally accredited institution.
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
- Completed graduate school application.
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
- Two letters of recommendation - professional or academic.
- An essay describing why the applicant is interested in pursuing graduate study in this field
- International Students must submit a TOEFL score indicating a minimum of 600 (paper exam) or 250 (CBT exam). For more information, view the International Students page.

Program Requirements

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDEX 600</td>
<td>Family, School and Community Engagement in Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 601</td>
<td>Special Education Advocacy</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 602</td>
<td>Special Education Dispute Resolution and Skills Training</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Total Credits**: 9.0

**Professional Development Certificate: Technologies for Special Education**

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Professional Development
Number of Credits to Completion: 12.0
Instructional Delivery: Campus, Online, Hybrid
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible

Those who will benefit from this program are people working with individuals with disabilities in the field of education and other related fields. Technology is always changing and it is imperative that the professionals working with individuals with disabilities are aware of the new technologies / assistive technologies and are skilled in selecting and using these technologies to promote the learning, achievement, and independence of individuals with disabilities. Additionally, assistive technology must be discussed and implemented for all individuals with disabilities who require it to receive a Free Appropriate Public Education (FAPE).

Admission Requirements

- Bachelor's degree from a regionally accredited institution.
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA).
- Completed graduate school application.
- Hold a PA Instructional I or Instructional II teaching certificate
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended.
- Two letters of recommendation - professional or academic.
- An essay describing why the applicant is interested in pursuing graduate study in this field.
- International Students must submit a TOEFL score indicating a minimum of 600 (paper exam) or 250 (CBT exam). For more information, view the International Students page.

Program Requirements

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
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<tr>
<td>EDEX 570</td>
<td>Integrating Assistive Technology for Individuals with High Incident Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 572</td>
<td>Integrating Assistive Technology for Individuals with Low Incident Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
<td>3.0</td>
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<tr>
<td>ELL 504</td>
<td>Learning Technologies &amp; Disabilities</td>
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**Total Credits**: 16.5

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>EDLS 624</td>
<td>Multisensory Practicum I</td>
<td>1.5</td>
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<tr>
<td>EDLS 625</td>
<td>Multisensory Practicum II</td>
<td>1.5</td>
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</tbody>
</table>

**Total Credits**: 12.0
Professional Development Certificates in Education Improvement and Transformation

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Professional Development
Number of Credits to Completion: 9.0 - 16.5
Instructional Delivery: Campus, Online
Calendar Type: Quarter
Expected Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible

About the Certificates
The certificates are designed to prepare professional educators and others to lead transformative (reform) initiatives in formal and informal education sectors through a professional development grounded model.

Each concentration addresses key topics pertinent to the improvement of PK-adult education.

In addition to being stand-alone certificates, four of these may be “stacked” within the MS in Education Improvement and Transformation to create a total of 36.0 credits toward graduation of that degree program.

Professional Development (PD) Certificates

Collaborative Special Education Law and Process
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- EDEX 600 Family, School and Community Engagement in Special Education 3.0
- EDEX 601 Special Education Advocacy 3.0
- EDEX 602 Special Education Dispute Resolution and Skills Training 3.0

Total Credits 9.0

Creativity & Innovation Concentration
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- CRTV 502 Tools and Techniques in Creativity 3.0
- CRTV 503 Creativity in the Workplace 3.0
- CRTV 650 Current Trends in Creativity & Innovation 3.0

Total Credits 9.0

E-Learning Leadership
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- ELL 501 The Purpose and Business of E-Learning 3.0
- ELL 502 E-Learning Technologies 3.0
- ELL 503 Teaching and Learning Issues in E-Learning 3.0

Total Credits 9.0

Education Innovation and Transformation: Evaluation and Assessment Concentration
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- EDHE 680 Foundations of Evaluation 3.0
- EDHE 682 The Evaluation Process 3.0
- EDUC 804 Program Evaluation in Organizations 3.0

Total Credits 9.0

Educational Policy Concentration
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- EDPO 620 Education Policy: Concepts, Issues, and Applications 3.0
- EDPO 628 American Educational Policy and U.S. Competitiveness 3.0
- EDPO 632 Ethics in Educational Policy Making 3.0

Total Credits 9.0

Instructional Design
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- EDLT 550 Introduction to Instructional Design 3.0
- EDLT 554 Learning with Social Media and Mobiles 3.0
- EDUC 811 Designing and Developing Multimedia Applications For Learning 3.0

Total Credits 9.0

Leadership in Educational Settings Concentration
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Course Requirements
- EDHE 680 Foundations of Evaluation 3.0
- EDHE 682 The Evaluation Process 3.0
- EDUC 804 Program Evaluation in Organizations 3.0

Total Credits 9.0

Learning in Game-based Environments
Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses
- EDLT 541 Foundations of Game-Based Learning 3.0
- EDLT 542 Research in Motivation & Game-based Learning 3.0
Learning Technologies Concentration

Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDLT 537</td>
<td>Technologies for Performance Support</td>
<td>3.0</td>
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<tr>
<td>EDLT 538</td>
<td>New Media Literacies</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 532</td>
<td>Designing Virtual Communities for Staff Development - Non-Field Experience</td>
<td>3.0</td>
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<tr>
<td>Total Credits</td>
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Multisensory Reading Instruction

Required Courses

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<th>Course</th>
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<tr>
<td>EDLS 620</td>
<td>Applied Methods in Multisensory Reading Instruction</td>
<td>1.0</td>
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<tr>
<td>EDLS 621</td>
<td>Multisensory Reading Instruction K/1</td>
<td>2.0</td>
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<tr>
<td>EDLS 622</td>
<td>Basic Word Study I</td>
<td>3.0</td>
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<tr>
<td>EDLS 623</td>
<td>Basic Word Study II</td>
<td>3.0</td>
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<tr>
<td>EDLS 624</td>
<td>Multisensory Practicum I</td>
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<tr>
<td>EDLS 625</td>
<td>Multisensory Practicum II</td>
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Special Education Leadership

Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDEX 710</td>
<td>School Law &amp; Policy in Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 712</td>
<td>Instructional &amp; Curriculum Leadership in Special Education</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 714</td>
<td>Development, Supervision, &amp; Support: Special Education Leadership</td>
<td>3.0</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>9.0</td>
</tr>
</tbody>
</table>

Technologies for Special Education

Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEX 552</td>
<td>Integrating Technology for Learning &amp; Achievement</td>
<td>4.5</td>
</tr>
<tr>
<td>EDEX 570</td>
<td>Integrating Assistive Technology for Individuals with High Incident Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDEX 572</td>
<td>Integrating Assistive Technology for Individuals with Low Incident Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Researching &amp; Evaluating Instructional Technology</td>
<td>3.0</td>
</tr>
<tr>
<td>ELL 504</td>
<td>Learning Technologies &amp; Disabilities</td>
<td>3.0</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>16.5</td>
</tr>
</tbody>
</table>

Urban Education

Note: Effective Winter 2014, students are no longer being accepted into this certificate program.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAM 500</td>
<td>Leading in Urban, Rural and Suburban Settings</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 516</td>
<td>Diversity and Today's Teacher</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 561</td>
<td>Mediating and Resolving Conflict in School Settings</td>
<td>3.0</td>
</tr>
<tr>
<td>Total Credits</td>
<td></td>
<td>9.0</td>
</tr>
</tbody>
</table>

Reading Specialist Certification

Certificate Level: Graduate
Admissions Requirements: Bachelor's degree
Certificate Type: Post-Baccalaureate Certificate
Number of Credits to Completion: 31.0
Instructional Delivery: Campus
Calendar Type: Quarter
Expected Time to Completion: 2 years
Financial Aid Eligibility: Not aid eligible

The Reading Specialist Certification Program was developed in response to the local and national need for training teachers who are skilled literacy instructors no matter what grade or subject they teach, the School of Education’s faculty seeks to create a new stand alone reading certificate program for teachers who already hold have at least an instruction I teaching certificate in PA, and to offer a new reading specialist certificate for inservice teachers who are seeking to become experts as reading teachers and literacy leaders in their classroom, schools, and districts, or ones who want to obtain a dual certification as a Reading Specialist and another content area. Additionally, students in the Reading Specialist Certificate program will obtain a Wilson certificate when they complete the 31-credit program because 3 Wilson reading courses and 3 Wilson practicum courses are a part of the core curriculum for this program.

The Reading Specialist Certification Program is designed for teachers who already possess an Instructional I certificate in PA or another State who has a desire to become literacy coach, a literacy program/curriculum consultant (for a school, literacy center, etc.), a reading intervention specialist, or to supplement existing knowledge/skills in developing expertise as a reading instructor. The program is designed for teachers who want to obtain another certification as a Reading Specialist. Through reciprocity agreements among the states, graduates can transfer their certification in almost any state across the United States.

Reading Specialist Certification Requirements:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLS 550</td>
<td>Theories of Reading and Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 555</td>
<td>Understanding Literacy through Sociocultural Perspectives</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 560</td>
<td>Reading and Writing in the Content Areas (7-12)</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 565</td>
<td>Constructing Meaning through Reading and Writing</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 570</td>
<td>Literacy and Evaluation</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 575</td>
<td>Responding to Children’s and Young Adult Literature</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 620</td>
<td>Applied Methods in Multisensory Reading Instruction</td>
<td>1.0</td>
</tr>
<tr>
<td>EDLS 622</td>
<td>Basic Word Study I</td>
<td>3.0</td>
</tr>
<tr>
<td>EDLS 623</td>
<td>Basic Word Study II</td>
<td>3.0</td>
</tr>
</tbody>
</table>
STEM Education Certificate

Certificate Level: Graduate
Admission Requirements: Bachelor's degree
Certificate Type: Graduate
Number of Credits to Completion: 18.0
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Estimated Time to Completion: 1 year
Financial Aid Eligibility: Not aid eligible

The Certificate in STEM embraces the School of Education’s and Universities focus on STEM education. The program creates an opportunity for those individuals who want to gain further understanding of STEM and provides the comprehensive education needed to effectively teach STEM concepts, as well as integrates strategies within the curriculum to effectively enhance student performance in STEM areas. The primary goal for the certificate in STEM Education is to broaden and deepen students’ understanding of STEM education.

Admission Requirements

- Bachelor’s degree from a regionally accredited institution
- Two letters of recommendation
- Official transcripts from all universities or colleges and other post-secondary educational institutions (including trade schools) attended
- Completed Application Form
- Undergraduate GPA of 3.0 or higher (graduate GPAs will be considered along with the undergraduate GPA)
- An essay describing why you are interested in pursuing graduate study in this field
- International Students must submit a TOEFL score indicating a minimum of 600 (paper exam) or 250 (CBT exam).

Program Requirements

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLS 624</td>
<td>Multisensory Practicum I</td>
<td>1.0</td>
</tr>
<tr>
<td>EDLS 625</td>
<td>Multisensory Practicum II</td>
<td>1.0</td>
</tr>
<tr>
<td>EDLS 626</td>
<td>Multisensory Practicum III</td>
<td>1.0</td>
</tr>
<tr>
<td>EDLS 650</td>
<td>Designing a Literacy Program</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits: 18.0

Electives

- Students select a minimum of 9.0 credits of additional electives, to reach a total of 18.0 credits required for the certificate.
- Other science-based, graduate electives may be taken in lieu of the suggested electives listed with permission of the Program Director and/or Program Manager. For example, electives may include courses in learning technologies, mathematics education, engineering, the sciences, as well as other appropriate options.

Total Credits: 31.0

School Principal Certificate

Certificate Level: Graduate
Admissions Requirements: Bachelor’s degree
Certificate Type: Graduate
Number of Credits to Completion: 24.0
Instructional Delivery: Online, Campus
Calendar Type: Quarter
Estimated Time to Completion: 2 years
Financial Aid Eligibility: Aid eligible

24.0 quarter credits (if not pursuing MS program); 45.0 quarter credits (if pursuing of MS program)

The School Principal Certificate program was designed to produce school leaders who are knowledgeable about current theories and strategies in leadership and change. Components of the program’s conceptual bedrock are heuristic diagnostic learning, intelligent use of emotions in interpersonal skills of leadership, creative problem solving, and learning technologies.

The School Superintendent (Letter of Eligibility) available at the PhD level was designed to offer future school district leaders current research-based knowledge in creative instructional, community, and technological leadership.

Admission Requirements

Applicants come from a variety of undergraduate and graduate backgrounds and typically desire to provide leadership for change as a school principal. The School Principal Certification is available for teachers or counselors who already possess initial teaching certificates and requires a minimum of three years of appropriate experience. Applicants must meet the general admissions requirements for graduate studies at Drexel University.

Program Requirements

Students will not be recommended for the School Principal Certificate until all course requirements are met, initial teaching certificate has been received, and all required sections of the Praxis Exams have been taken, and three years of satisfactory professional school experience have been completed. Minimum coursework requirements for the School Principal Certificate include 24.0 credits of specific pedagogy as outlined below. These credits may be incorporated into the graduate Science of Instruction program or into the electives portion of another approved Drexel master’s degree program. Students must achieve the grade of B or better in each graduate level course needed for certification and receive passing Praxis Exam scores in order to satisfy requirements for the desired certification.

School Principal Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 522</td>
<td>Evaluation of Instruction *</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 523</td>
<td>Diagnostic Teaching *</td>
<td>4.0</td>
</tr>
<tr>
<td>EDUC 525</td>
<td>Multi-Media Instructional Design *</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 702</td>
<td>School Leadership &amp; Decision Making</td>
<td>3.0</td>
</tr>
</tbody>
</table>
EDUC 705  School Law and Politics  3.0  
EDUC 708  Integration of Technology with School Instruction and Management  3.0  
EDUC 710  School Finance and Facilities  3.0  
EDUC 712  School and Community Partnerships and Relations  3.0  
EDUC 714  Instructional and Curriculum Leadership  3.0  
EDUC 715  School Principal Internship: Technology  1.5  
EDUC 716  School Principal Internship: Finance  1.5  
EDUC 717  School Principal Internship: Leadership  1.5  
EDUC 718  School Principal Internship: School and Community Relations  1.5  

Total Credits  34.0  

* Not required for students who pursue the School Principal Certificate without working toward the master's degree.

Students working toward School Principal Certification engage in a corresponding one-credit school-based internship when enrolled in EDUC 708 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/principalcert), EDUC 710 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/principalcert), EDUC 712 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/principalcert), and EDUC 714 (https://nextcatalog.drexel.edu/graduate/schoolofeducation/principalcert), related to each course’s content.

Students who possess a valid state-issued teacher or counselor certification and have completed a minimum of three years of satisfactory professional school experience upon successful completion of theses core courses, and who also meet the current state minimum score on the appropriate Praxis Exam may apply for School Principal Certification and continue working toward the master’s degree requirements.

**Master of Science Degree Requirements**

Once students complete the 24.0 core credits for the School Principal certification, an additional 21.0 core credits of Educational Administration courses are necessary to finish the Master of Science degree.

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**Teaching English as a Second Language**

*Certificate Level: Graduate*

*Admission Requirements: Bachelor's degree*

*Certificate Type: Certificate*

*Number of Credits to Completion: 18.0*

*Instructional Delivery: Online, Campus*

*Calendar Type: Quarter*

*Expected Time to Completion: 1 year*

*Financial Aid Eligibility: Aid eligible*

Teaching English as a second language certification is an add-on certificate available to students that currently possess a Pennsylvania Instructional I or Instructional II teaching certificate. The 18-credit ESL certificate program covers the theory and practice of second language education, the structure and sound of English, the design and assessment of ESL course materials, as well as broader issues in intercultural learning. Completion of the program also includes field-based experiences and a capstone action research project, under the guidance of an ESL Program Specialist. It does not require that the instructor speak another language. Credits earned through this program may be applied toward the MS in the Science of Instruction, or the MS in Teaching, Learning and Curriculum (https://nextcatalog.drexel.edu/graduate/schoolofeducation/teachinglearningandcurriculum).

This program satisfies PA State of Education requirements for Program Specialist: ESL endorsement. Interstate agreements generally allow applicability across the US. However, prospective students outside of Pennsylvania are advised to check with their state authorities to determine whether this program is appropriate for their case.

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 560</td>
<td>Introduction to Linguistics</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 602</td>
<td>Language Learning &amp; Teaching</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 604</td>
<td>Structure and Sound System of English</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 606</td>
<td>Design and Assessment</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 608</td>
<td>The Intercultural Learner</td>
<td>3.0</td>
</tr>
<tr>
<td>EDUC 610</td>
<td>Action Research in Teaching ELLs</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Total Credits  18.0