

# Drexel University

Catalog 2005 / 2006

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## The School of Education

### About the School

[The School of Education](#) offers Pennsylvania Department of Education-approved programs to certify students who already hold bachelor's degrees to be teachers in elementary education (with an emphasis on mathematics, science, and technology), secondary education (in biology, chemistry, earth and space science, environmental education, general science, mathematics, or physics), and K-12 (instructional technology specialist and library science). Principal and superintendent certifications are also available. Individuals who complete the minimum requirements receive a teaching certificate and have the option to continue coursework to fulfill requirements in the graduate Science of Instruction master's degree program.

The 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 instructional technology specialist teacher certification must already have Pennsylvania Instructional I certification or appropriate equivalent.



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## Master of Science in Higher Education

### About the program

The M.S. in Higher Education 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 M.S. 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 for the M.S. in Higher Education incorporates an interdisciplinary approach, with courses offered through the School of Education, LeBow College of Business and the Goodwin College of Professional Studies. 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.

The 45 required credits are made up of 6 core courses, 3 electives, 1 capstone course (including a co-op assignment and submission of a professional portfolio) as well as 4 courses in one of the following areas of concentration:

- Administration and Organizational Management
- Financial Management in Higher Education
- Enrollment Management
- Academic Development, Technology and Instruction
- Institutional Advancement
- Institutional Research and Planning

View the [degree requirements](#) for more detailed information about the courses.

The program is designed as a part-time cohort model, and can be completed in two years. View the [program delivery options](#) for more information about the available formats for completing the program.

For additional information, visit the [M.S. in Higher Education](#) page.



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## Master of Science in Higher Education

The M.S. in Higher Education requires 45 credit hours, consisting of 39 hours of coursework and a 6 credit capstone course that includes a co-op assignment and results in the submission of a professional portfolio.

Core courses	18.0 Credits
<a href="#">EDHE 500</a> Foundation of Higher Education	3.0
<a href="#">EDHE 510</a> Governance, Management & Administration in Higher Education	3.0
<a href="#">EDHE 520</a> Student Development & Customer Service Management	3.0
<a href="#">EDHE 540</a> Outcomes Assessment and Continuous Improvement	3.0
<a href="#">EDUC 705</a> School Law and Politics	3.0
<a href="#">ORGB 631</a> Leading Effective Organizations	3.0

Capstone	6.0 Credits
<a href="#">EDHE 715</a> Co-op with Portfolio	6.0

Electives	9.0 Credits
Students select three courses as electives from courses within the M.S. in Higher Education concentrations. Courses within a student's primary concentration do not count as electives.	

Higher Education Administration and Organizational Management	
<a href="#">EDHE 600</a> Human and Organizational Performance Improvement	3.0
<a href="#">EDHE 602</a> Managing Campus Operations	3.0
<a href="#">EDHE 606</a> Higher Education Career Development	3.0
<a href="#">AADM 710</a> Strategic Planning and Evaluation	3.0

Institutional Advancement	
<a href="#">EDHE 610</a> Institutional Advancement	3.0
<a href="#">EDHE 614</a> Alumni Relations	3.0
<a href="#">EDHE 616</a> Institutional Communications, Marketing and Public Relations	3.0
<a href="#">AADM 650</a> Fund Development for the Arts	3.0

### Financial Management

<a href="#">EDHE 602</a> <b>Managing Campus Operations</b>	3.0
<a href="#">EDHE 624</a> <b>Capital Financing, Business Development &amp; Asset Management</b>	3.0
<a href="#">EDHE 626</a> <b>Public-Private Funding &amp; Legal Issues</b>	3.0
<a href="#">BUSN 501</a> <b>Measuring and Maximizing Financial Performance</b>	3.0

#### **Academic Development, Technology & Instruction**

<a href="#">EDHE 634</a> <b>Proposal Writing &amp; Sponsored Project Management</b>	4.0
<a href="#">EDUC 522</a> <b>Evaluation of Instruction</b>	3.0
<a href="#">EDUC 524</a> <b>Current Research in Curriculum and Instruction</b>	3.0
<a href="#">EDUC 530</a> <b>Advanced Techniques in Instruction and Assessment</b>	3.0

#### **Institutional Research**

<a href="#">EDHE 640</a> <b>Foundation of Institutional Research</b>	3.0
<a href="#">EDHE 644</a> <b>Student Assessments &amp; Academic Program Evaluation</b>	3.0
<a href="#">EDHE 646</a> <b>Survey Tools, Statistical Software and Effective Reporting</b>	3.0
<a href="#">EDUC 803</a> <b>Educational Research Design</b>	3.0

#### **Enrollment Management**

<a href="#">EDHE 650</a> <b>Introduction to Enrollment Management</b>	3.0
<a href="#">EDHE 652</a> <b>Enrollment Marketing, Recruitment and Retention</b>	3.0
<a href="#">EDHE 654</a> <b>Financial Aid &amp; Enrollment Management</b>	3.0
<a href="#">EDHE 656</a> <b>Enrollment Management Database Systems &amp; Management</b>	3.0



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## Master of Science of Instruction

The Master of Science in the Science of Instruction program builds on Drexel's discipline-based teacher education program at the undergraduate level and on the Graduate Intern Teaching Certificate program at the graduate level. Coursework for the Graduate Intern Teaching Certificate program forms the core of this master's degree; the same requirements for Intern and Instructional I Certification apply.

The program is designed primarily for those who wish to teach high school mathematics, science, and/or technology, especially as a subsequent career, although the degree may be obtained without completing the requirements for a teaching certificate. The program is especially appropriate for those who already possess a degree in mathematics, science, or engineering. In addition, the program is relevant to individuals in careers such as business and communications who wish to teach at the elementary grade levels. The program is designed for part-time as well as full-time study. Full-time students can usually complete the program in one year. Both the Pennsylvania Intern Certificate and the Instructional I Certificate may be attained through this program before the degree requirements are met.

The graduate Science of Instruction program incorporates current research on teaching and provides in-depth preparation in pedagogy, curriculum development, heuristic diagnostic teaching, implications of learner and task characteristics for instructional design, 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 in elementary and secondary classrooms. Students seeking a teaching certificate are required to engage in classroom research as a component of several of the required courses. The main goal of the program is to prepare teachers who will strengthen mathematics, science, and technology instruction in kindergarten through high school.

distribution of courses from areas A, B, and C is selected under advisement on an individual basis.

### **Professional Electives**

Students with or without prior certification select 15 credits of professional electives. Professional electives are selected with the advice of a program advisor to strengthen mathematics and science knowledge, to refine and update pedagogy competence, to broaden general education, to gain knowledge about the nature of information and information materials, to develop and refine skills in integrating technology into instruction, and to ensure that certification standards are satisfied. Professional electives may be taken from the core courses or from any course in the content categories. Any graduate course offered in the University may serve as a professional elective if the student has adequate preparation to take the course and it is deemed appropriate by the program advisor. The 15 credits of professional electives may comprise a combination of up to three Performance Learning Systems (PLS) courses and/or approved transfer credits. PLS courses must be taken at Drexel to count toward the master's degree.



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## Master of Science of Instruction

### Degree Requirements

A minimum of 45 credits is required for students with or without prior certification (including 15 credits of professional electives).

### Core Courses

At a minimum, 23 pedagogy credits will be required from the core courses for those without prior teacher certification. Students with prior certification or those seeking an add-on certification will select 11 credits from the core courses.

Courses	Credits
<a href="#">EDUC 520</a> Professional Studies in Instruction*	3.0
<a href="#">EDUC 522</a> Evaluation of Instruction	4.0
<a href="#">EDUC 523</a> Diagnostic Teaching	4.0
<a href="#">EDUC 524</a> Current Research in Curriculum and Instruction	3.0
<a href="#">EDUC 525</a> Multimedia in Instructional Design	3.0
<a href="#">EDUC 526</a> Language Arts Processes	3.0
<a href="#">EDUC 540</a> Field Experience*	3.0

\*Not available to those with prior teacher certification.

### Content Categories

For students without prior teacher certification, 7 credits are required, selected from the following content categories. (A list of suggested courses is available from the department.) Students with prior certification or those seeking add-on certification select 19 credits from the content categories.

*A. Mathematics and science*

*B. Technological pedagogy*

*C. Applied pedagogy*

Evaluation of transcripts by a program advisor in relation to Pennsylvania state standards determines the required content courses for initial certification and add-on certification. To satisfy state certification requirements, undergraduate courses may be taken in instances where graduate courses are not appropriate. These undergraduate courses will not satisfy graduate degree requirements. However, they will satisfy certification requirements and may satisfy requirements for salary increments in certain school districts. For those with prior certification who do not wish add-on certification, but desire to further professional competence, a





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## Ph.D. in Educational Leadership Development and Learning Technologies

The Ph.D. program in Educational Leadership Development and Learning Technologies prepares visionary leaders who understand the emerging role of technologies in all educational settings and provides a venue for research into effective practices in a variety of learning institutions. This program is designed for students interested in using technology to transform education.

The goals of the program include:

- Expanding the education of principals and other school leaders to include the latest research-based knowledge and skills about learning, teaching, community involvement, and instructional and organizational leadership for the improvement of schools
- Providing a terminal degree for co-operative education leadership, science museum educators, and educational instructional designers that incorporates cutting-edge knowledge delivery systems, including asynchronous and synchronous instruction
- Graduating teacher leaders with learning technologies expertise who will prepare excellent K–12 classroom teachers to integrate multimedia and technology into instruction
- Preparing college and university professors who understand integrative curricula and constructivism and can convey understanding of the interaction between content knowledge and pedagogy knowledge, especially in mathematics, the sciences, and technology education
- Developing a research agenda that addresses technological transformation in education with emphasis on leadership using multimedia, distance learning, and learning technologies

### Program Objectives

- Design and implement integrative learning experiences for the program's students
- Incorporate multimedia technology into the educational experience of the students
- Design and implement new instructional paradigms including synchronous and asynchronous instruction and distance learning
- Develop research-based learning and instruction frameworks for educational technology leadership, especially in mathematics and the sciences

For additional information about this program, visit the [School of Education's Graduate](#) site.



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## Ph.D. in Educational Leadership Development and Learning Technologies

### Degree Requirements

The Ph.D. in Educational Leadership Development and Learning Technologies coursework is built on a logical development of experiences and content knowledge for the students. Students begin the program by taking a set of five core courses with the other members of their cohort.

### Core Courses

Since the two main foci of this program are educational leadership development and learning technologies design, the first two courses will be taken simultaneously by the student so as to provide both leadership and technology contexts. In EDUC 800: Educational Leadership and Change, students will create, implement, and assess new frames of reference for addressing learning, teaching, and curriculum issues in the context of change. In EDUC 801: Creative Strategies for Educational Leaders, leadership and change within the framework of creative thinking and problem solving will be specifically addressed.

The students then move into a technology focus with EDUC 802: Using and Integrating Learning Technologies. Students will learn to communicate content and pedagogic information effectively, utilizing traditional and emerging communication techniques and technologies.

Having established the program foundation, namely, educational leadership and learning technologies, students will then enroll in EDUC 803: Educational Research Design, which is an introductory course on research design models in the area of education in preparation for doctoral research. The course will help to ensure that the students understand the literature and research component of subsequent coursework.

EDUC 804: Study of Educational Organizations and Programs Through Evaluation and Assessment Design, completes the core requirements. This course addresses all curricular goals of the Ph.D. as evaluation is an integral part of learning, teaching, and the educational environment.

Ph.D. students are expected to receive the minimum grade of B or better in each graduate course taken in the program. Students who receive less than a B in any course should make an immediate appointment with their assigned chair as such a grade may lead to dismissal from the program.

### Required Core Courses

<a href="#">EDUC 800</a> Educational Leadership and Change	3.0
<a href="#">EDUC 801</a> Creative Strategies for Educational Leaders	3.0
<a href="#">EDUC 802</a> Using and Integrating Learning Technologies	3.0
<a href="#">EDUC 803</a> Educational Research Design	3.0
<a href="#">EDUC 804</a> Study of Educational Organizations and Programs Through Evaluation and Assessment Design	3.0

Ph.D. students meet the residency requirements for the Ph.D. program in Educational Leadership Development and Learning Technologies during the summer term of their second year. During this term, Ph.D. students take three core courses as a cohort. A grade of B or better in all three residency courses is required in order to take the Qualifying Examination in the subsequent fall term.

Ph.D. Residency Courses	Credits
<a href="#">EDUC 810</a> Educational Research Design II	3.0
<a href="#">EDUC 811</a> Designing and Developing Multimedia Applications for Learning	3.0
<a href="#">EDUC 813</a> Educational Issues	3.0

Additional required coursework includes:

Ph.D. Candidacy Courses	Credits
<a href="#">EDUC 815</a> Writing for Research, Publication, and Funding in Education	3.0
<a href="#">EDUC 818</a> Applied Research Study	3.0
<a href="#">EDUC 820</a> School Superintendency	3.0
<a href="#">EDUC 880</a> Doctoral Seminar	1.0
<a href="#">EDUC 998</a> Ph.D. Dissertation	2.0

Specific courses to complete the program requirements will be selected from the professional electives list in collaboration with the student's program advisor.

Possible Electives	Credits
<a href="#">EDUC 527</a> Understanding Learning Disabilities	3.0
<a href="#">EDUC 530</a> Advanced Techniques in Instruction and Assessment	3.0
<a href="#">EDUC 531</a> College Teaching and Communication Skills	1.0
<a href="#">EDUC 812</a> Staff Development and Team Building	3.0
<a href="#">EDUC 814</a> Designing Educational Organizations	3.0
<a href="#">EDUC 816</a> Inclusion Issues	3.0
<a href="#">EDUC 817</a> Curriculum Models	3.0

### School Superintendent Courses

Qualified students wishing to include the School Superintendent Certificate as part of their Ph.D. degree should include the following courses to serve as the professional elective component of their degree requirements.

School Superintendent Courses	Credits
<a href="#">EDUC 801</a> Creative Strategies for Educational Leaders*	3.0
<a href="#">EDUC 813</a> Educational Issues*	3.0
<a href="#">EDUC 817</a> Curriculum Models**	3.0
<a href="#">EDUC 820</a> School Superintendency	3.0

<a href="#">EDUC 824</a> Parents and Schools	30
<a href="#">EDUC 827</a> School Superintendency Internship I - Curriculum Models	1.0
<a href="#">EDUC 828</a> School Superintendency Internship II - Parents and Schools	1.0
<a href="#">EDUC 829</a> School Superintendency Internship III ***	1.0
<a href="#">EDUC 830</a> School Superintendency Internship IV ***	1.0

\* All Ph.D. students take these courses as part of the regular Ph.D. program.

\*\* Course may be taken by any interested student in Ph.D. program.

\*\*\* EDUC 829 and EDUC 830 are one-year internships.



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## Graduate Intern Teaching Certificate

The part-time Graduate Intern Teaching Certificate program offers pedagogy coursework necessary for teacher certification in the evening so that students may teach or work during the day. An exception is EDUC 540 (Field Experience), which requires the student to spend a minimum of six hours per day for 12 weeks with a cooperating teacher in an appropriate elementary or secondary school classroom.



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## Graduate Intern Teaching Certificate

### Program Requirements

Graduate Intern Teaching Certificate applicants for elementary certification may come from a variety of undergraduate backgrounds. 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 23 credits of pedagogy, which may be incorporated into the graduate Science of Instruction program or into the electives portion of another approved Drexel 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) or EDUC 523 (Diagnostic Teaching), obtain at least a B in EDUC 540 (Field Experience), and obtain the necessary scores on the appropriate sections of the Praxis Series assessment through Educational Testing Service (ETS).

Completion of all required pedagogy coursework with at least a B in each and a B average in required content courses and passing Praxis Series scores will satisfy requirements for Pennsylvania Instructional I Certification.



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## Instructional Technology Specialist

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 these certificate with special permission of a teacher education advisor. (Visit the [School of Education](#) for additional information.)

Minimum coursework requirements for the Instructional Technology Specialist Certificate include 21.0-32.0 credits of specific pedagogy.

Core Courses	Credits
<a href="#">EDUC 522</a> Evaluation of Instruction*	4.0
<a href="#">EDUC 523</a> Diagnostic Teaching*	4.0
<a href="#">EDUC 525</a> Multimedia in Instructional Design*	3.0
<a href="#">EDUC 533</a> Designing Virtual Communities for Staff Development	3.0
<a href="#">EDUC 534</a> Developing Educational Leadership and Team Building	3.0
<a href="#">EDUC 535</a> Researching and Evaluating Technology	3.0
<a href="#">INFO 601</a> Professional and Social Aspects of Information Services	4.0
<a href="#">INFO 640</a> Managing Information Organizations	4.0
<a href="#">INFO 688</a> Instructional Role of the Information Specialist	4.0

\* Not required by students who received their initial teaching certification through Drexel's undergraduate program.





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## School Principal Certificate

The School Principal Certification 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 who already possess initial teaching certificates and requires a minimum of five years of appropriate teaching experience.

Applicants interested in School Principal Certification must interview with the director of the Leadership and Change area of studies in the School of Education. During the interview, the applicant's transcripts and life experiences 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. Specific content courses are generally not required for students working toward School Principal certification. 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 five years of satisfactory professional school experience have been completed. Minimum coursework requirements for the School Principal Certificate include 21-32 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.

### Core Courses for School Principal Track

At a minimum, 33 credits will be required from the core courses. (A minimum of 22 credits is required for students not wishing to build the School Principal Certificate into the master's degree program.)

School Principal Courses	Credits
<a href="#">EDUC 522 Evaluation of Instruction*</a>	4.0



<a href="#">EDUC 523</a> Diagnostic Teaching*	4.0
<a href="#">EDUC 525</a> Multi-Media in Instructional Design*	3.0
<a href="#">EDUC 702</a> School Leadership and Decision Making	3.0
<a href="#">EDUC 705</a> School Law and Politics	3.0
<a href="#">EDUC 708</a> Managing Integration of Technology in School Setting	3.0
<a href="#">EDUC 710</a> School Finance and Facilities	3.0
<a href="#">EDUC 712</a> School and Community Relations and Partnerships	3.0
<a href="#">EDUC 714</a> Instructional and Curriculum Leadership	3.0
<a href="#">EDUC 715</a> School Principal Internship: Technology	1.0
<a href="#">EDUC 716</a> School Principal Internship: Finance/Facility	1.0
<a href="#">EDUC 717</a> School Principal Internship: Leadership	1.0
<a href="#">EDUC 718</a> School Principal Internship: Community Relations	1.0

\* 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, EDUC 710, EDUC 712, and EDUC 714, related to each course's content.

Students who possess a valid Pennsylvania Instructional I or II Teaching Certificate and have completed a minimum of five years of satisfactory professional school experience upon successful completion of these core courses, and who also meet the current state minimum score on the Praxis Exam entitled, School Leaders License Assessment (Principal), may apply for School Principal Certification and continue working toward the master's degree requirements.

### **Master of Science Degree Requirements**

Once students complete the 33 core credits for the School Principal certification, an additional 12 credits of Professional electives are necessary to finish the Master of Science, Science of Instruction degree.



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## School Superintendent Certificate

Qualified students in the Educational Leadership Development and Learning Technologies program can include the School Superintendent Certificate as part of their Ph.D. degree. Students select the following courses to serve as the professional elective component of their degree requirements.

School Superintendent Courses	Credits
<a href="#">EDUC 801 Creative Strategies for Educational Leaders*</a>	3.0
<a href="#">EDUC 813 Educational Issues*</a>	3.0
<a href="#">EDUC 817 Curriculum Models**</a>	3.0
<a href="#">EDUC 820 School Superintendency</a>	3.0
<a href="#">EDUC 824 Parents and Schools</a>	3.0
<a href="#">EDUC 827 School Superintendency Internship I - Curriculum Models</a>	1.0
<a href="#">EDUC 828 School Superintendency Internship II - Parents and Schools</a>	1.0
<a href="#">EDUC 829 School Superintendency Internship III ***</a>	1.0
<a href="#">EDUC 830 School Superintendency Internship IV ***</a>	1.0

\* All Ph.D. students take these courses as part of the regular Ph.D. program.

\*\* Course may be taken by any interested student in Ph.D. program.

\*\*\* EDUC 829 and EDUC 830 are one-year internships.



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## Teaching English as a Second Language

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 12-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. It does not require that the instructor speak another language. Credits earned through this program may be applied toward the [M.S. in the Science of Instruction](#).

This program satisfies PA State of Education requirements for certification in English as a second language. 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		Credits
<a href="#">EDUC 602</a>	Language Learning and Teaching	3.0
<a href="#">EDUC 604</a>	Structure and Sound System of English	3.0
<a href="#">EDUC 606</a>	Design and Assessment	3.0
<a href="#">EDUC 608</a>	The Intercultural Learner	3.0