Recommended sanctions for low level offenses are listed below; one or more of these may be chosen in each case:

infractions involve a small part of the total course work, or occur on a minor assignment. The following are some examples:

Low Level - These offenses happen because of inexperience or lack of knowledge of academic standards by the persons committing the offense. These

enforcement of the policy. Those charged with levying the sanctions are not restricted to the sanctions listed.

are classified by the severity of the infraction. Below are the recommended sanctions assigned to each level. The sanctions listed are used as a guide for

This list is meant to be a framework to disseminate the expectation for academic integrity. The list and the examples are not exhaustive. Violations of this policy

Plagiarism – The submission of work without the proper use of citation or quotation marks. The use of the words or ideas from others presented as one's own for

Facilitation of academic dishonesty – Allowing another student to use one's work without the authorization of the instructor. Providing information regarding

Academic Integrity Violations

Cheating – The use of information or materials that are written, verbal, electronic or viewed from another student's work without the prior knowledge or

Fabrication – Misrepresentation of research data or creation of research data that does not exist. Fabrication can also take the form of falsifying information

Unauthorized access. Intentionally denying access to resource materials or referenced materials to interfere with the academic progress of others would

Unauthorized access to or obstruction of intellectual property – Theft of course materials from an instructor or theft of another student's work would constitute

Intentionally denying access to resource materials or referenced materials to interfere with the academic progress of others would constitute obstruction of intellectual property.

Facilitation of academic dishonesty – Allowing another student to use one's work without the authorization of the instructor. Providing information regarding

Plagiarism – The submission of work without the proper use of citation or quotation marks. The use of the words or ideas from others presented as one's own for

This list is meant to be a framework to disseminate the expectation for academic integrity. The list and the examples are not exhaustive. Violations of this policy

are classified by the severity of the infraction. Below are the recommended sanctions assigned to each level. The sanctions listed are used as a guide for

• Working with another student on an assignment without instructor authorization.
• Failure to footnote or give proper acknowledgment in an extremely limited section of an assignment.

Recommended sanctions for low level offenses are listed below; one or more of these may be chosen in each case:

• Required attendance in a non-credit workshop or seminar on ethics or related subjects.
• An assigned paper or research project on a relevant topic.
• A make-up assignment at the same level of difficulty.
• A make-up assignment at a more difficult level than the original assignment.
• No credit given for the original assignment.
Records of students who commit low level offenses will be maintained in the Department Chairperson's/Director's Office until graduation. One year after the student graduates, all documentation, paper/electronic, of low level offenses will be destroyed.

Medium Level – These violations are those characterized by dishonesty of a more serious nature or which affect a more significant aspect or portion of the course work. The following are some examples:

• Quoting directly or paraphrasing, to a moderate extent, without acknowledging the source.
• Submitting the same work or major portions thereof to satisfy the requirements of more than one course without permission from the instructor.
• Using data or interpretative material for a laboratory report without acknowledging the sources or the collaborators. All contributors to preparation of data and/or to writing the report must be acknowledged.
• Receiving assistance from others, such as research, statistical, computer programming, or field data collection help that constitutes an essential element in the undertaking, without acknowledging such assistance in a paper, examination, or project.

The recommended sanction for medium level offenses is one year of academic probation. The student will receive zero points on the work and will fail the course. The student will be allowed to reregister for the course after a designated period of time.

Notation of academic probation will be placed on the student's transcript and will remain for the period in which the sanction is in force. A letter from the Dean of the School of Education will be sent to the student and a copy will remain in the student's educational record. Records of students who commit medium level offenses will be maintained in the Department Chairperson's/Director's Office until graduation. One year after the student graduates, all documentation, paper/electronic, of medium level offenses will be destroyed.

High Level Offense – High level offenses include dishonesty that affects a major or essential portion of work done to meet course requirements and/or involves premeditation, or is preceded by one or more violations at low and medium levels. Examples include:

• Copying on examinations.
• Acting to facilitate copying during an exam.
• Using prohibited materials, e.g., books, notes, or calculators during an examination without permission from the instructor.
• Collaborating before an exam to develop methods of exchanging information and implementation thereof.
• Altering examinations for the purposes of regrading.
• Acquiring or distributing an examination from unauthorized sources prior to the examination.
• Plagiarizing major portions of a written assignment.
• Presenting the work of another as one's own.
• Using a purchased term paper or other materials.
• Removing posted or reserved material, or preventing other students from having access to it.
• Fabricating data or inventing or deliberately altering material (for example, citing sources that do not exist).
• Using unethical or improper means of acquiring data.

The normal sanction to be sought for all high level offenses or for repeated violations of low or medium offenses is a minimum of one year Academic Ineligibility from the University and a failing grade for the course. The notation of Academic Ineligibility will be placed on the student's transcript and will remain for the designated period, at minimum. The student may request reinstatement and may retake the course after the designated time period. The designation of Academic Ineligibility will remain on the student's transcript until there is action by the student to have it successfully removed. In certain instances, students may be placed on Permanent Academic Suspension.

Severe Level Offenses – These offenses represent the most serious breaches of intellectual honesty. Examples of serious level offenses include:

• All academic integrity infractions committed after a previous medium or high level academic integrity violation.
• Infractions of academic integrity resembling criminal activity (such as forging a grade form, stealing an examination from a professor or from a university office; buying an examination; or falsifying a transcript). (Actions that may be construed as criminal activity will be handled by the appropriate legal authority as directed by the University’s protocol.)
• Having a substitute take an examination or taking an examination for someone else.
• Fabrication of evidence, falsification of data, quoting directly or paraphrasing without acknowledging the source, and/or presenting the ideas of another as one's own within a master's thesis or doctoral dissertation, in scholarly articles submitted to refereed journals, or in other work represented as one's own as a graduate student.
• Sabotaging another student's work through actions designed to prevent the student from successfully completing an assignment.
• Wilful violation of the code of conduct for Professional Educators issued by PDE (22 Pa. Code §§235.1 - 235.11)
• http://www.portal.state.pa.us/portal/http://www.portal.state.pa.us:80/portal/server.pt/gateway/PTARGS_0_123531_870687_0_0_18/code%20conduct.pdf

The normal sanction for all severe level offenses and a repeat infraction at high level offenses is immediate and Permanent Academic Suspension from the University. A notation of the permanent suspension will be placed on a student's transcript and will remain permanently.

Please note: For Academic Integrity policy violations in those programs requiring certification, a substantiated violation at the medium level or higher will result in “no” response on the PDE submission question requiring affirmation of “Good Moral Character” and a notation referencing the violation of this policy.

Procedure for Enforcement

The student will be made aware of the Academic Integrity policy at the time of initial application and throughout their educational experience. As a part of the application process, applicants will receive a copy of the policy and will be required to complete and submit a form that acknowledges that they have received and read the policy. Applications will not be processed without this documentation. The policy will be referenced in the syllabus of each course and is posted on the University website for easy reference.
The Program Coordinators and Full-Time Faculty are in the best position to ascertain the full impact of the actions of the student and are the catalysts to begin the process of inquiry regarding the allegations of a violation, regardless of the source of the allegation. For the Doctoral Level programs, the Full Time Faculty member will replace the Program Coordinator in the procedures outlined below.

When an instructor is made aware of a violation of the Academic Integrity Policy at the Low Level, the instructor, under the direction of the Program Coordinator, will complete an Academic Integrity Violation Charge Form, communicate with the student and include their feedback on the form. The form and supporting documentation will be submitted to the Program Coordinator for review. The Program Coordinator and Instructor will determine the sanction. The sanction will be communicated to the student by the instructor. Documentation of the infraction will be kept on file with the Department Chairperson/Director through graduation. One year after the student graduates, all documentation, paper/electronic, of low level offenses will be destroyed.

When an instructor becomes aware of a violation of the Academic Integrity Policy at the Medium Level, the instructor, in consultation with the Program Coordinator, will complete the Academic Integrity Violation Charge Form. This will initiate a Formal Review Process. The Program Coordinator and Instructor will determine the sanction. The sanction will be communicated to the student by the instructor. Documentation of the infraction will be kept on file with the Department Chairperson/Director through graduation. One year after the student graduates, all documentation, paper/electronic, of medium level offenses will be destroyed.

When an instructor becomes aware of a violation of the Academic Integrity Policy at the High or Severe Level, the instructor, in consultation with the Program Coordinator, the Department Chairperson/Director and the Dean of the School of Education, will complete the Academic Integrity Violation Charge Form. The form and supporting documentation will be submitted to the Program Coordinator, the Department Chairperson/Director and the Dean of the School of Education. The determination of the Dean is final. For all level offenses, the student has the right to appeal the decision. If a student feels that the charge or sanction related to the academic integrity policy violation is unacceptable and/or unreasonable, the student may submit the complaint, in writing, to the Department Chairperson/Director within two weeks of receiving notification of the determination. If a student does not receive a response from the Department Chairperson/Director within two weeks from the date of originally filing the complaint or is not satisfied with the result of that determination, the student may then submit the complaint to the Dean of the School of Education for review. If a student does not receive a response from the Dean of the School of Education within two weeks from the date of submitting the complaint to the Dean or is not satisfied with the result of that determination, the student may then submit the complaint to the appropriate Vice President or Provost. The determination of the Vice President or Provost is final.

Students may continue to participate in the course until the case has been resolved. If a student chooses to withdraw from the course, the process will continue through to resolution with the recommended documentation included in the student record. A grade of I (incomplete) should be assigned pending resolution. All information and identities of involved parties are confidential. Administering this policy is the responsibility of everyone in the Wilkes School of Education community. Students, instructors, program coordinators, department chairpersons and the Dean all have an investment in providing an environment that promotes scholarship, honesty and integrity. This responsibility is taken seriously and this policy will be enforced uniformly.

Mission

The mission of the Graduate Education Programs at Wilkes University is to provide the educational community with opportunities to become leaders in classroom instruction and in the administration of schools. As such, the Graduate Education Program seeks to promote the highest levels of intellectual growth and career development through a collaborative environment that supports teaching in a diverse learning environment, while valuing commitment to the educational communities it serves.

Purpose

Graduate study in Education is offered primarily to enable teachers to enhance their preparation to become educational leaders. Each program is designed to broaden knowledge in the foundations of education as well as focus on a specific area of advanced training.

The master's degree program in Education is offered with majors in 21st Century Teaching and Learning, Art and Science of Teaching, Classroom Technology, Early Childhood Literacy, Educational Development and Strategies, Educational Leadership, Effective Teaching, Instructional Media, Instructional Technology, International School Leadership, International Teaching and Learning, Middle Level Education Programs, Middle Level Education with Initial Pennsylvania Grade 4-8 Certification, Online Teaching, Reading Specialist, School Business Leadership, Special Education, and Teaching English to Speakers of Other Languages. All programs lead to a Master of Science in Education degree.

Wilkes University offers six graduate programs that lead to an additional certification through the Pennsylvania Department of Education (PDE). The Master of Science Degree in Educational Leadership qualifies an individual for K-12 Principal Certification. The Master of Science Degree in Instructional Technology combined with the IT internship qualifies an individual for Pennsylvania K-12 Instructional Technology Specialist Certification. The Master of Science Degree in Middle Level Education with internship qualifies teachers to apply for Pennsylvania’s grades 4 to 8 certificate in a particular content area. The Master of Science Degree in Middle Level Education with Initial Pennsylvania Certification qualifies an individual to apply for Pennsylvania teaching certification in grades 4 to 8 in a particular content area. The Master of Science Degree in Reading with Pennsylvania Reading Specialist Certification qualifies an individual with a PA instructional certificate for Pennsylvania Reading Specialist Certification. The Master of Science Degree in Education with Special Education Certification qualifies an individual with a PA instructional certificate for additional certification in Special Education. Teachers may obtain the Pennsylvania ESL Program Specialist
Education

Certification by completing the designated four courses in the Teaching English as a Second Language Program. All program requirements for the University as well as for PDE must be met in order for the graduate to be eligible for certification.

An additional program, although not a master's degree, is the Letter of Endorsement. These are available in five areas: Pennsylvania Autism, Discovery Education EDGE, Pennsylvania Gifted, Pennsylvania Online Instruction, and Pennsylvania STEM. These 12-credit programs lead to a Letter of Endorsement that teachers can use to validate that they have advanced knowledge and skill in the area as indicated by the title of the endorsement.

Admission

For admission to graduate study in education, the applicant must have a baccalaureate degree with an appropriate major from an institution that is accredited by one of the six regional accrediting bodies recognized by the U.S. Department of Education, or the equivalent in the case of international students. In addition, several programs require a Pennsylvania teaching certificate. Although no minimum undergraduate grade point average is required for admission, unless otherwise stated, it is expected that candidates shall have maintained good or above-average performance during their undergraduate years and shall exhibit evidence of intellectual and temperamental fitness for graduate study.

All Master of Science in Education degree-seeking applicants must complete the following process to be considered for admission to the graduate program in education:

1. Submit a Wilkes University Graduate Application for Admission,
2. Pay the required one-time, non-refundable application fee,
3. Submit two letters of recommendation,
4. Submit a copy of your teaching certificate, if applicable. See the note on exceptions below for more details.
5. Submit official transcripts from all of the undergraduate universities attended while obtaining the bachelor's degree, including teacher certification and, any master's degrees earned.

Upon receipt of all required documents, the Program Coordinator will review files for acceptance. Accepted students are assigned an advisor to work with as they progress through the program. Students deficient in any academic aspect of the admissions requirements may be granted conditional admission. Such students may be permitted to take up to six credits of graduate courses on a conditional basis and at completion of those credits their application will be reconsidered for regular admission status.

Exceptions to the above process

All programs except Instructional Technology, Effective Teaching, Instructional Media, Middle Level Initial Certification, Online Teaching (master's only option), School Business Leadership, Teaching English to Speakers of Other Languages (non-cert option), and Discovery Education EDGE require a state-approved instructional certificate unless approved by the program coordinator. Applicants to the Educational Leadership principal certification program must follow the admissions process outlined in that section of this bulletin. Note: Applicants to the 21st Century Teaching and Learning, Early Childhood Literacy, and Art and Science of Teaching programs must be currently teaching or have access to a classroom in order to enter the program.

Non-Degree to Degree Seeking Students

Non-degree students who want to change to degree-seeking status must complete a new application for admission indicating their desired program, but do not need to re-pay the application fee. Students should then follow the remaining steps outlined above for submission of all appropriate documents to complete the change of status. A change in status is required at least one year prior to the intended date of graduation. Students must complete all courses required for the degree as outlined in the current Graduate Bulletin at the time of the status change.

Program of Study

Students are encouraged to consult with their advisor to plan their program of study. At the time of acceptance students are sent a Program Plan with which to document their progress through the program. It is highly recommended that students keep track of the courses they take on the Program Plan and contact their advisor with any questions they may have. It is the responsibility of the student to be sure they are taking the correct courses for their major. Students should follow the requirements outlined on the Program Plan or in the Graduate Bulletin to be sure they will meet the requirements for graduation. Students wishing to transfer credits into their program should follow the procedure outlined in the "Transfer Credits" section, listed below.

Students are expected to maintain a GPA acceptable for graduate level work and progress. A graduate student who accumulates two grades below 3.0 in his or her graduate courses will be placed on probation. A student earning a third grade below 3.0 will be dismissed from the graduate program. Grades below a 3.0 are not acceptable for meeting degree requirements, so any student earning a grade less than 3.0 will need to repeat that course in order to achieve an acceptable grade for graduation.

NOTE: It is the graduate student's responsibility to register for Graduation (GRD-OOO-B) the same semester they enroll in the final course required for their degree. Students must be fully admitted to their degree program in order to register for GRD-OOO-B. Students not fully accepted into the degree must contact the Student Service Center to obtain information on missing admissions documents. The student is strongly encouraged to contact their advisor at the time of registration for a preliminary audit to be sure all requirements will be met. The deadline for registering for graduation is 90 days prior to the next processing date for degree completion. Graduation is processed at the end of each term, however ceremonies are only held in May and September.
Transfer Credits

Students accepted into a master's degree program may transfer a maximum of six graduate credits from an approved and regionally accredited U.S. college or university as long as they meet all of the requirements identified in the University-wide Transfer Credits section of this document and the specific criteria below. This transfer credit limit is on a per student basis and not per program. This means that students may only transfer a total of six credits into Wilkes at the master's level regardless of the number of master's degrees they choose to complete. The Department Chair will make the final determination regarding transfer credits and whether they will count as elective credits or qualify to replace required courses. Students must complete the Request for Transfer Credit form to initiate the transfer process for courses taken prior to entering Wilkes University. In addition, students must be admitted to the degree program in order for transfer credits to be posted to their Wilkes transcript.

In order for courses to count as electives, they must meet the academic intent of the student’s master’s program or be aligned to their respective professional assignment. External courses requested to transfer as required courses in the student’s program must align with the content of the Wilkes course. Each transfer request is handled on a case-by-case basis and the student will be asked to produce a course syllabus and/or a letter justifying his/her request.

Students desiring to take courses from another college or university while enrolled in the Wilkes program must submit the Request to Transfer Credit form prior to registering for such courses. Failure to submit the proper paperwork may result in the inability to transfer those credits.

The required form is available on the Graduate Education web site: www.wilkes.edu/GradEd under ‘Transfer Credit Info.’ An official transcript must be received before any approved transfer credits can be posted to your Wilkes transcript. For more information, see Transfer Credits in the General Information section at the beginning of this Graduate Bulletin.

Second Master's Degree

A person who has an earned master’s degree from Wilkes University, or is in the final semester of a master’s from Wilkes, may apply to be enrolled in a second master’s degree if the major, program or option is different. Up to 12 credits only of previous course work used to satisfy the requirements for the first degree (typically basic requirements from Areas I and II) may be applied to the second. This only applies to programs that have common courses. If no common courses exist between the two programs, students must take all of the courses in the second degree. All other admission and program requirements must be fulfilled. Students are encouraged to speak to the program coordinator of the new second program for advisement of courses that must be taken. A student who opts for a second master’s degree must submit a written request to the department along with a new Wilkes graduate application form. There is no need to repay any application fees.

Learning Outcomes

School of Education Learning Outcomes (SELO)

Education students will develop and demonstrate the following learning outcomes as appropriate to their selected level and field:

1. the knowledge, skills, and scholarship appropriate in their chosen field of study.
2. effective written and oral communication skills.
3. information literacy that fosters intelligent and active participation in the educational community.
4. technical competence and pedagogical skill to infuse technology in support of the teaching and learning process.
5. the ability to make informed decisions based on accurate and relevant data.
6. Actions reflecting integrity, self-respect, moral courage, personal responsibility, and the ability to understand individual differences in order to meet the needs of the students and communities served.
7. collaborative skills that promote teamwork.

Graduate Education Student Program Outcomes (GEPO)

1. The student will develop the knowledge, skills, and scholarship that are appropriate to the educational program.
2. The student will demonstrate effective written and oral language skills appropriate to knowledge acquisition and professional responsibilities of the discipline.
3. The student will demonstrate data driven decision-making skills.
4. The student will demonstrate an understanding of diversity by applying differentiation to the educational process.
5. The student will understand the critical role of collaboration in creating an effective educational process.

Degree Requirements

All candidates for the Master of Science in Education degree must complete a program of at least thirty (30) credits. The length of the courses in each degree program may vary. See the table for information on duration of courses by program. Individual program descriptions are also provided with the specific course credit requirements for each graduate education program.
<table>
<thead>
<tr>
<th>Program</th>
<th>Number of Weeks in Part of Term</th>
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</thead>
<tbody>
<tr>
<td>21st Century Teaching and Learning</td>
<td>9 weeks or 14 weeks</td>
</tr>
<tr>
<td>Art and Science of Teaching</td>
<td>9 weeks</td>
</tr>
<tr>
<td>Autism Endorsement Program (PA Endorsement)</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Classroom Technology</td>
<td>12 weeks; Summer courses are offered in multiple formats</td>
</tr>
<tr>
<td>Discovery Education EDGE</td>
<td>7 weeks</td>
</tr>
<tr>
<td>Early Childhood Literacy</td>
<td>9 weeks or 14 weeks</td>
</tr>
<tr>
<td>Educational Development and Strategies</td>
<td>12 weeks for Wilkes courses; PLS courses offered in multiple formats</td>
</tr>
<tr>
<td>Educational Leadership Ed.D.</td>
<td>12 weeks; 6 week format available in summer</td>
</tr>
<tr>
<td>Educational Leadership w/ PA K-12 Principal Certification</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Educational M.S. with PA Special Education Certification</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Effective Teaching</td>
<td>12 weeks for Wilkes courses; 7 weeks for PLS courses</td>
</tr>
<tr>
<td>Gifted Letter of Endorsement (PA Endorsement)</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Instructional Media/Online Teaching M.S. with PA Online Instruction Endorsement</td>
<td>7 weeks</td>
</tr>
<tr>
<td>Instructional Technology w/ PA Instructional Technology Specialist Certification</td>
<td>12 weeks</td>
</tr>
<tr>
<td>International School Leadership</td>
<td>12 weeks for Wilkes courses; 7 weeks for PLS courses</td>
</tr>
<tr>
<td>International Teaching and Learning</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Middle Level Education Program (30 credits, 36 credits, &amp; Initial PA Certification)</td>
<td>12 weeks</td>
</tr>
<tr>
<td>Reading M.S. with Reading Specialist Certification</td>
<td>9 weeks or 14 weeks</td>
</tr>
<tr>
<td>School Business Leadership</td>
<td>12 weeks</td>
</tr>
<tr>
<td>STEM Letter of Endorsement (PA Endorsement)</td>
<td>7 weeks</td>
</tr>
<tr>
<td>Superintendent’s Letter of Eligibility</td>
<td>12 weeks; 6 week format available in summer</td>
</tr>
<tr>
<td>Teaching English to Speakers of Other Languages M.S. with PA ESL Program Specialist Certification</td>
<td>12 weeks</td>
</tr>
</tbody>
</table>
21ST CENTURY TEACHING AND LEARNING

21st Century Teaching and Learning
Mrs. Anne Butler, Program Coordinator

The Master of Science in Education with a major in 21st Century Teaching & Learning is a fully online program offered in partnership with the National Institute for Professional Practice Graduate Education. This 30-credit program is designed to support secondary educators in Science, Mathematics, Language Arts, and Social Studies. Throughout this program, teachers will be provided with the tools and strategies that can be immediately applied in the classroom to create an engaging 21st Century Classroom. Unlike traditional master's degrees, teachers in this program will complete a series of courses designed specifically for their discipline with a supportive study group of fellow educators.

Applicants to this program must complete the admission process as outlined earlier in this section, and also be employed at the 6-12 level in an educational institution.

Program Learning Outcomes:

1. The student will describe the role collegial collaboration plays in establishing a 21st century classroom
2. The student will utilize technology in authentic instruction to promote higher level thinking skills in students
3. The student will apply the principles of project-based learning to lesson development to increase student achievement
4. The student will identify the needs and preferences of 21st century learners
5. The student will conduct action research to identify instructional implications for implementing authentic instruction and assessment in the 21st century classroom
6. The student will conduct action research to identify instructional implications for implementing inquiry-based learning in the 21st century classroom
7. The student will apply the principles of differentiated instruction to lesson development to increase student achievement

The program consists of the following courses (30 credits):

- EDAM 5030: Teaching in the 21st Century: The Need for Change (3 Credits)
- EDAM 5031: Action Research for Educational Change (3 Credits)
- EDAM 5032: Educational Assessment to Guide Instruction (3 Credits)
- EDAM 5033: Developing Reading and Writing Across the Curriculum (3 Credits)
- EDAM 5034: Applying Advanced Technology to Support Standards-Based Instruction (3 Credits)
- EDAM 5035A/B/C/D: Teaching Authentic Content in Math/Science/Social Studies/Language Arts (3 Credits)
- EDAM 5036A/B/C/D: Differentiated Instruction in the Classroom (Math/Science/Social Studies/Language Arts) (3 Credits)
- EDAM 5037A/B/C/D: Inquiry-based Learning in the Classroom (Math/Science/Social Studies/Language Arts) (3 Credits)
- EDAM 5038A/B/C/D: Project-based Learning in the Classroom (Math/Science/Social Studies/Language Arts) (3 Credits)
- EDAM 5039: Applying 21st Century Teaching to Educational Practice (3 Credits)

Please refer to the course description section of this bulletin for information on course prerequisite requirements.

There are no transfer credits permitted in this program.
AUTISM ENDORSEMENT PROGRAM

Autism Endorsement Program
Pennsylvania Autism Letter of Endorsement Program

The Autism Letter of Endorsement is a 12-credit fully online graduate program designed to provide professionals with advanced training in the areas of autism spectrum disorders and pervasive developmental disorders. The program has received approval from the Pennsylvania Department of Education. Therefore, satisfactory completion of the 12-credit letter of endorsement program, including all course and field experience requirements, will enable candidates to apply to the PDE for an endorsement on their existing Pennsylvania certificates. The four courses may also be taken as electives by other educational and clinical professionals who wish to gain additional knowledge in the areas addressed in each course. The requirements for this 12-credit endorsement are:

- AUT 501 Autism Diagnosis and Treatment (3 credits; 20 hours field experience)
- AUT 502 Applied Behavioral Analysis and Autism (3 credits; 20 hours field experience)
- AUT 503 Autism Scope and Sequence (3 credits; 20 hours field experience)
- AUT 504 Advanced Autism Instruction and Intervention (3 credits; 20 hours field experience)

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
CLASSROOM TECHNOLOGY

Classroom Technology

The Master of Science in Education with a major in Classroom Technology is designed primarily for teaching professionals. Core education courses are combined with courses in classroom technology to prepare educators to integrate the use of technology into their curriculum and update their computer and technology skills.

Program Learning Outcomes:

1. The student will demonstrate the use of new technologies to create meaningful learning opportunities for all students.
2. The student will develop the ability to provide learning opportunities within the discipline that addresses different approaches to learning and creates instructional opportunities that are equitable, based on developmental levels, and that are adapted to diverse learners, including those with exceptionalities.
3. The student will acquire the ability to understand the role of technology within the discipline and be able to demonstrate skills using instructional tools and technology to gather, analyze and present information, enhance instructional practices, facilitate professional productivity and communication.

The candidate must complete 30 Credits:

Area I: Foundations of Education (6 credits required)

Required:

• ED 519 Issues, Law, and Trends in Education (3 credits)

And one of the following:

• ED 510 Psychological Foundations (3 credits)
• ED 511 Philosophical Foundations (3 credits)
• ED 512 Social Foundations (3 credits)
• ED 513 Comparative Foundations (3 credits)
• ED 515 Cognition (3 credits)
• ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)

Area II: Professional Skills (9 credits required)

• ED 521 Using Technology for Assessment (3 credits)
• ED 522 Curriculum and Instruction (3 credits)
• ED 585 Integrating Technology into the Curriculum (3 credits)

Area VI: Educational Computing Courses (12 credits required)

• ED 526 Internet Literacy for Educators (3 credits)
• ED 527 Multimedia Design for Digital Learning (3 credits) - previously titled Authoring Systems/Instructional Design
• ED 528 Print Media in the Digital Classroom (3 credits) - previously titled Using Print Media to Support Education
• ED 530 Utilizing Emerging Technologies to Improve Learning (3 credits)

Elective Courses (3 credits required)

Completion of the Classroom Technology degree does not fulfill the requirements for any additional teacher certification area.
DISCOVERY EDUCATION
EDGE LETTER OF
ENDORSEMENT

Discovery Education EDGE
Letter of Endorsement

The Discovery Education EDGE is a 12-credit letter of endorsement program that provides a quick pathway to expertise in emerging technologies. By combining a forward thinking curriculum with existing and proven pedagogy, all under the guidance of an established leader in digital instruction, this program will prepare you for the challenges and opportunities of an ever-changing, digital classroom. This endorsement is a Wilkes University issued endorsement.

The requirements for this 12-credit endorsement are:

**Required courses (6 credits)**

- EDIM 515 BYOD: Mobile Devices for Teaching and Learning—Previously titled BYOD: Mobile Learning in Education (3 credits)
- EDIM 516 Sustaining Digital Literacy (3 credits)

**Electives (6 credits- choose two)**

- EDIM 510 Web 2.0 Impacting Learning Environments (3 credits)
- EDIM 511 Portable Video Production and Application (3 credits)
- EDIM 513 Inquiry-based Learning (3 credits)
- EDIM 514 Internet Tools for Teaching (3 credits)

Education.......................................................................................................................................................36
EARLY CHILDHOOD LITERACY

Early Childhood Literacy

The Master of Science in Education with a major in Early Childhood Literacy is a fully online program offered in partnership with the National Institute for Professional Practice Graduate Education. This 33-credit program explores a comprehensive literacy framework that will provide teachers with the tools needed to empower their students to discover the many joys of reading and writing. Each course in this program is classroom embedded, which allows teachers to immediately apply the teaching strategies and techniques they are learning directly into their classroom.

Applicants to this program must complete the admission process as outlined earlier in this section, and also have access to a PK-4 classroom.

Program Learning Outcomes:

1. Students will be able to demonstrate knowledge and understanding of essential concepts, inquiry tools, and structure of content areas related to literacy acquisition and development in young children. (IRA 1/NAEYC 1)
2. Students will be able to interpret literacy assessment data to plan and evaluate instruction using multiple indicators of student progress. (IRA 3/NAEYC 3)
3. Students will be able to plan and adapt literacy instruction using developmentally appropriate instructional strategies, curriculum resources, and technologies that address the diverse needs of PK-4 learners at a variety of instructional levels across all learning domains. (IRA 2,4/NAEYC 4,5)
4. Students will be able to develop a safe, inclusive, literacy-rich learning environment incorporating developmentally appropriate practices that promote skill development and enhance literacy experiences for all learners. (IRA 5/NAEYC 1)
5. Students will be able to engage in reflective practice that leads to improvement in instruction and student learning, and fosters professionalism in school and community settings. (IRA 4,6/NAEYC 2,6)

The program consists of the following courses (33 Credits):

Early Literacy Series (24 Credits)
- EDAM 5001 Early Literacy: Guiding Principles and Language Development (3 credits)
- EDAM 5002 Word Study (3 credits)
- EDAM 5003 Fluency and Vocabulary Development (3 credits)
- EDAM 5004 Developing Comprehension, Pt I (3 credits)
- EDAM 5005 Developing Comprehension, Pt II (3 credits)
- EDAM 5007 Differentiated Small Group Instruction (3 credits)
- EDAM 5009 Developing Independent Readers (3 credits)
- EDAM 5010 Connecting Reading and Writing (3 credits)

Teacher Leadership (9 Credits)
- EDAM 5013 Teacher Leadership (3 credits)
- EDAM 5012 Developing a Results-Driven Early Literacy Classroom (6 credits)

Please refer to the course description section of this bulletin for information on course prerequisite requirements.

There are no transfer credits permitted in this program.
EduCAtion LeAdership

Doctor of Education (Ed.D.)
Dr. Karim Medico Letwinsky, Chair, Assistant Professor of Education, School of Education
Mrs. Pamela Koslosky, Administrative Assistant

Mission
The mission of the Doctor of Education, Education Leadership Program is to combine the principles and theory of leadership, scholarship, and practice to prepare knowledge leaders who have the skills and disposition to affect change in educational systems, advance student learning, and inform future practice through research.

Programs
Wilkes University's Doctor of Education (Ed.D.) in Educational Leadership is a 60-credit post-master's program offered in a hybrid-online format with annual low residencies. The completion of required doctoral level coursework and the development and acceptance of a dissertation proposal to conduct field-based research and its defense are the requirements for the degree.

The objectives of the doctoral program in Educational Leadership are to produce knowledgeable, competent, and dedicated educational leaders with the skills and dispositions needed to serve in leadership capacities in their respective fields for the betterment of education for all students and society at large.

The outcomes of this program: (1) The knowledge-base to serve as educational leaders in their respective fields. (2) The skills to apply research to identify and study current issues and problems in the field of education and to analyze the resulting data toward the betterment of education. (3) Comprehensive training in the areas of administration or technology, to include skills specific to each field, as well as effective interpersonal and communication skills, analytic decision-making abilities, and effective leadership strategies. (4) Dispositions that place value on all students and people and that promote understanding, respect, and an appreciation of diverse perspectives and cultures. (5) Opportunities to develop self and others through informed, ethical, and reflective decision-making.

Degree Requirements
All candidates for the Doctoral Degree in Educational Leadership must complete a program of at least sixty (60) credits.

Doctoral Core Courses Required of All Ed.D. Students

Leadership: 9 credits
ED 610 Ethics for Educational Leaders
ED 612 Leadership, Diversity, & Societal Change
ED 614 Organizational and Leadership Theory

Research: 12 credits
ED 681 Introduction to Educational Research
ED 682 Quantitative Methods for Educational Research I
ED 683 Qualitative Methods in Educational Research I
ED 685 Quantitative Methods for Educational Research II OR ED 686 Qualitative Methods in Educational Research II

Dissertation: 9 credits
ED 697 Dissertation Proposal Seminar (3 credits)
ED 698 Dissertation Proposal (3 credits)
ED 699 Dissertation (3 credits)

Ed.D. Students select one 30-credit hour area of study:

K-12 Administration 30 credits (leading to Pennsylvania superintendent certification)

Required courses: 30 credits
ED 623 Educational Technology Leadership (36-hour field experience)
ED 625 Professional Development & Supervision (36-hour field experience)
ED 627 Advanced Issues in Educational Law
ED 628 Human Resource Development & Labor Negotiations
ED 629 Strategic Thinking and Planning
ED 650 Curriculum, Instruction, & Assessment (36-hour field experience)
ED 652 Special Education Administration (36-hour field experience)
ED 654 School Finance & Facilities Administration (36-hour field experience)
ED 658 Advanced Studies in School District Leadership (90 hour internship)
ED 659 Superintendent Internship (90 hour internship)

Educational Leadership 30 credits

Required courses: 15 credits
ED 615 Professional Seminar in Educational Leadership
ED 626 Politics and Policy for Educational Leaders
ED 629 Strategic Thinking and Planning
ED 632 Cognition and Learning
ED 643 Trends and Innovations in Instructional Technology

Concentrations: 15 credits—Students select one of three available concentrations:

Curriculum and Instruction
Recommended for students who wish to become a faculty member in higher education or work in the area of curriculum design and development.

- ED 670 Curriculum Theory
- ED 672 Curriculum Design and Instructional Models
- ED 673 Controversies in Curriculum, Instruction, and Assessment
- Two 3-credit electives from available doctoral level courses, which can include: ED 679 Internship in Curriculum and Instruction (90 hours)

Educational Technology
Recommended for students who wish to become a faculty member in higher education or work in the field of educational technology in public or private institutions.

- ED 635 Integrating Technology for Diverse Learners
- ED 646 Assistive Technology
- ED 645 Technology Supported Assessment
- Two 3-credit electives from available doctoral level courses, which can include: ED 639 Internship in Instructional Technology (90 hours)

Educational Leadership Studies
Recommended for students who currently work in or would like to work in higher education or in the field of educational leadership as a faculty member or as a member of the professional or administrative staff.

- ED 620 Educational Institutions and Systems
- Four 3-credit electives from available doctoral courses, which can include a 90 hour internship tailored to meet student's career goals

Superintendent's Letter of Eligibility

Students enroll in the superintendent certification-only program through the Doctor of Education program in K-12 Administration. This PDE-approved program consists of 30-credits, which includes: eight 3-credit courses offered in a blended format (with field work totaling 180 hours) and 6-credits of a 180-hour internship at the superintendent’s level.
Students may elect to apply for admission to Wilkes University's Doctor of Education (Ed.D.) during or at the conclusion of the program. The successful completion of this 30-credit certificate program satisfies the K-12 Administrative specialization requirements for the Ed.D. Thirty additional credits, which include research and dissertation coursework, are required to earn the Ed.D. in Educational Leadership.

**K-13 Administration courses for Superintendent Certification (30 credits)**

*Pennsylvania Department of Education required field and internship hours are noted after course titles. NOTE: ED 658 and 659 must be taken last in the program.*

- ED 623 Educational Technology Leadership (field hours)
- ED 625 Professional Development and Supervision (field hours)
- ED 627 Advanced Issues in Educational Law
- ED 628 Human Resource Development and Labor Negotiations
- ED 629 Strategic Planning and Thinking
- ED 650 Curriculum, Instruction and Assessment (field hours)
- ED 652 Special Education Administration (field hours)
- ED 654 School Finance and Facilities Administration
- ED 658 Advanced Studies in School District Leadership (90-hour internship)
- ED 659 Superintendent Internship (90-hour internship)

Students may elect to apply for admission to Wilkes University's Doctor of Education (Ed.D.) during or at the conclusion of the program. The successful completion of this 30-credit certificate program satisfies the K-12 Administrative specialization requirements for the Ed.D.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.

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### Doctoral Program Grading Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Letter</th>
<th>Percentage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0</td>
<td>A</td>
<td>94-100%</td>
<td>Academic achievement of superior quality</td>
</tr>
<tr>
<td>3.5</td>
<td>B+</td>
<td>87-93%</td>
<td>Academic achievement of good quality</td>
</tr>
<tr>
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<td>B</td>
<td>80-86%</td>
<td>Academic achievement of acceptable quality in meeting course requirements but below the average required for graduation</td>
</tr>
<tr>
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<td>C+</td>
<td>75-79%</td>
<td>Academic achievement of adequate quality but below the average required to meet course and graduation requirements</td>
</tr>
<tr>
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<td>C</td>
<td>70-74%</td>
<td>Academic achievement below the average to meet course and graduation requirements</td>
</tr>
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<td>0.0</td>
<td>F</td>
<td>Below 70%</td>
<td>Failure. No credit earned</td>
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</tbody>
</table>

More specific information about the doctoral programs, their requirements and admission procedures can be found on-line at [http://www.wilkes.edu/doctorofeducation](http://www.wilkes.edu/doctorofeducation).
EDUCATIONAL DEVELOPMENT AND STRATEGIES

Educational Development and Strategies
The Master of Science degree in Education with a major in Educational Development and Strategies is designed to meet the needs of practicing teachers by combining effective teaching practices with theory and research. Students will grow their knowledge base as well as gain practical skills and techniques that are directly applicable to their classroom.

Program Learning Outcomes:
1. Students will be able to implement strategies to guide instruction for learning to achieve established learning goals
2. Students will be able to apply differentiated instruction techniques and strategies to create learner centered classrooms and lessons for diverse populations.
3. Students will be able to discuss current, validated research underlying the theory, principles, and practices of the course content and apply them to his/her own instructional setting and content area.

Students will be able to model and directly teach communication skills that build rapport with the community of learners.

The requirements for this 30-credit degree are:

Area I: Foundations of Education (6 credits required)

Required
• ED 519 Issues, Law, and Trends in Education (3 credits)

And one of the following
• ED 510 Psychological Foundations (3 credits)
• ED 511 Philosophical Foundations (3 credits)
• ED 512 Social Foundations (3 credits)
• ED 513 Comparative Foundations (3 credits)
• ED 515 Cognition (3 credits)
• *ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)

Area II: Professional Skills (9 credits required)
• ED 520 Using Assessment to Guide Instruction (3 credits)
• ED 522 Curriculum and Instruction (3 credits)
• ED 585 Integrating Technology into the Curriculum (3 credits)

Area V: Major Courses PLS 3rd Learning (12 credits required)
• (Numbered ED 541-561, ED 5020, ED 5024 and ED 5400-5404)

Elective Courses (3 credits required)
PLS 3rd Learning (Area V) courses cannot be used for elective credits in this degree program, including those listed as 558 Topics courses.

Education.................................................................................................................. 36
The Master of Science in Education with a major in Educational Development and Strategies International program is designed to meet the needs of practicing teachers, abroad, by combining effective teaching practices with theory and research. In this program, teachers will learn new skills that can be immediately implemented in their classroom. The Educational Development and Strategies International master's degree is offered in hybrid format, blending online and face-to-face learning.

Program Learning Outcomes:

1. Students will be able to implement strategies to guide instruction for learning to achieve established learning goals.
2. Students will be able to apply differentiated instruction techniques and strategies to create learner centered classrooms and lessons for diverse populations.
3. Students will be able to discuss current, validated research underlying the theory, principles, and practices of the course content and apply them to his/her own instructional setting and content area.
4. Students will be able to model and directly teach communication skills that build rapport with the community of learners.

The requirements for this 30-credit degree are:

Wilkes Core Courses (Five required: one in hybrid format during initial onsite component; remaining four in online format):

ED 508 Intercultural Communication (3 credits)
ED 510 Psychological Foundations of Education (3 credits)
ED 513 Comparative Foundations of Education (3 credits)
ED 525 Introduction to Educational Research (3 credits)
ED 530 Utilizing Emerging Technologies to Improve Learning (3 credits)

PLS 3rd Learning courses (Five total: one in hybrid format during initial onsite component; four electives in online format):

ED 548 Purposeful Learning Through Multiple Intelligences (3 credits)
ED 552 Teaching Through Learning Channels (3 credits)
ED 554 Successful Teaching for Acceptance of Responsibility (3 credits)
ED 555 Classroom Management: Orchestrating a Community of Learners (3 credits)
ED 557 Differentiated Instruction for Today's Classroom (3 credits)
ED 561 Reading Across the Curriculum (3 credits)
ED 5002 Instructional Design for Online Educators (3 credits)
ED 5003 Facilitating Online Learning Communities (3 credits)
ED 5004 Action Research in the E-Learning Environment (3 credits)
ED 5020 Using Online Resources to Bring Primary Sources to the Classroom (3 credits)
ED 5021 Blended and Synchronous Learning Design (3 credits)
ED 5022 Simulations and Gaming Technologies for the Classroom (3 credits)
ED 5023 Building Online Collaborative Environments (3 credits)
ED 5024 Educating the Net-Generation (3 credits)
ED 5402 Cultural Competence: A Transformative Journey (3 credits)
ED 5405 Teaching the English Language Learner (3 credits)
EDUCATIONAL LEADERSHIP (EDLS)

Educational Leadership with PA K-12 Principal Certification

The Master of Science in Education with a major in Educational Leadership with K-12 principal certification (EDLS) is an advanced program of study consisting of 36 credits. A 27-credit certification only option exists for students in possession of an earned master’s degree. All students applying for admission to the Educational Leadership program, degree or certification only, must follow the special admissions process as described on the program webpage.

The MS in Educational Leadership (EDLS) is primarily available in an online format. The EDLS program orients students to field work and research requirements, the responsibilities of the principalship, and the first course that form the base of the EDLS experience—ED 517 The Principal as Educational Leader. Students may not take courses listed as EDLS certification courses prior to completing ED 517.

Program Learning Outcomes:

1. The student will demonstrate an understanding of the knowledge and skills to think and plan strategically. Creating an organizational vision around personalized student success.
2. The student will demonstrate an understanding of the creation of a culture of teaching and learning with an emphasis on learning.
3. The student will demonstrate the ability to operate in a fair and equitable manner with personal and professional dignity.

Program of Study

A candidate for the EDLS degree, which includes PA Department of Education K-12 Principal Certification, must complete the following courses for certification:

- ED 517 The Principal as Educational Leader (3 credits; prerequisite course for all certification courses—30 field hours)
- ED 523 Administrative Leadership in Curriculum and Instruction (3 credits; 30 field hours)
- ED 571 Special Education Programming and Administration (3 credits; 30 field hours)
- ED 573 Evaluation of Educational Programs (3 credits; 30 field hours)
- ED 575 School Law for Principals (3 credits)
- ED 576 School Management and Communications (3 credits; 30 field hours)
- ED 578 Staff Development and Supervision (3 credits; 30 field hours)
- ED 592 A and ED 592B: Administrative Internship and Applied Research Project 3 credits; taken last—180 intern hours)

To fulfill degree requirements, students admitted as of 2014 must also complete:

- ED 508 Intercultural Communication (3 credits)
- ED 525 Introduction to Educational Research (3 credits)
- ED 587 Technology Leadership (3 credits)

These courses can be completed at any point in the program prior to graduation.

A ‘Certification Only’ option is available for the Educational Leadership program and requires the same admissions process as the degree-seeking option. A previous Master’s degree, either from Wilkes or another university, is required for admission as a ‘Certification Only’ student. Certification only students complete only the 27 credits required for certification through the PDE for K-12 Principal.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
## EFFECTIVE TEACHING

### Effective Teaching

The program teaches advanced skills needed to engage students and improve classroom practice for new or veteran teachers, with or without certification who are working in international schools. Coursework is aligned with the Danielson and Marzano teacher frameworks in order to provide curriculum that is in line with these widely adopted models for effective teaching. Students enrolling in the Effective Teaching program must be currently employed in an international school setting.

### Program Learning Outcomes:

1. Develop the knowledge and skills to promote the engagement of diverse learners.
2. Demonstrate professional growth as effective and responsive teachers.
3. Gain skills in instructional design and the fundamentals of instruction in online learning environments.
4. Students will use research to synthesize theory and practice by applying cumulative program knowledge in an authentic way and consistent with 21st century best practice.

The program requires 30 credits. Courses are aligned with InTASC teaching standards adapted for national and international educators.

### Foundations of Education

#### Required courses:

- ED 525 Introduction to Educational Research (3 credits)
- ED 539 Advanced Studies in Teaching & Learning (capstone – 3 credits)

#### Choose one:

### 21st Century Teaching Practice

#### Required courses:

- ED 5026 Engaging 21st Century Learners to Promote Student Interaction (PLS) (6 credits)
- ED 5027 Effective and Responsive Teaching and Assessment (PLS) (5 credits)
- ED 5028 Building a Professional Network (PLS) (4 credits)

#### Choose 6 credits:

- ED 5029 Essential Classroom Strategies (PLS) (6 credits)
- ED 5030 Instructional Design for Online Educators™ (PLS) (3 credits)
- ED 5031 Facilitating Online Learning Communities™ (PLS) (3 credits)
INSTRUCTIONAL MEDIA

Instructional Media with Pennsylvania STEM Letter of Endorsement Option

The Master of Science in Education with a major in Instructional Media is a fully online program that is offered in collaboration with Discovery Education. This 30-credit program prepares teachers to engage today’s students in learning through the use of cutting-edge instructional media resources from video to Web 2.0 to virtual fieldtrips. It will train educators to become specialists who can effectively blend academic rigor and research with the latest technology in digital media, capitalizing on their “Net Gen” students’ strengths. Participants in the program will have access to the #1 non-fiction media brand in the world, Discovery Education, which transforms K-12 and Higher-Ed classrooms with the highest-quality content that empowers educators to measure and improve student achievement. Applicants to this program should follow the admission guidelines outlined earlier in this section.

While a state approved teaching certificate is not required for admission to this program, it is strongly encouraged that students have experience in an educational environment. Experience using technology is also recommended.

Program Learning Outcomes:

1. The student will demonstrate leadership skills as they apply the concepts of globalization and creativity to the design of effective technology integration in the classroom.
2. The student will develop skills to create authentic and differentiated learning experiences in the classroom through the implementation of technology and digital resources.
3. The student will demonstrate effective skills in digital media production, editing, and sharing that are consistent with appropriate utilization and fair use guidelines.
4. The student will demonstrate the ability to develop effective assessments for student work that incorporates digital media and various technology resources.

The requirements for this 30 credit degree are:

Foundations and pedagogy courses (21 credits)

EDIM 501 Cognition and Technology: Aligning Brain-based Research and Technology Integration (3 credits)
EDIM 502 Project-based Learning (3 credits)
EDIM 503 Differentiation Supported by Technology (3 credits)
EDIM 504 Digital Storytelling (3 credits)
EDIM 507 Globalization and Advocacy (3 credits)
EDIM 508 Digital Media in the Classroom (3 credits)
ED 521 Using Technology for Assessment (3 credits)

Elective courses (choose 9 credits)

EDIM 510 Web 2.0 Impacting Learning Environments (3 credits)
EDIM 511 Portable Video Production and Application (3 credits)
EDIM 513 Inquiry-based Learning (3 credits)
EDIM 514 Internet Tools for Teaching (3 credits)
EDIM 515 BYOD: Mobile Devices for Teaching and Learning - Previously titled BYOD: Mobile Learning in Education (3 credits)
EDIM 516 Sustaining Digital Literacy (3 credits)
EDIM 517: Practices and Implementation of STEM Education (10 hours of field experience)*
EDIM 518: Creating a STEM Culture Through Application (10 hours of field experience)*
ED 5083 Common Core Standards in Practice (3 credits)

*Courses marked with an asterisk are required for the Pennsylvania Department of Education STEM Letter of Endorsement. Students seeking the STEM Endorsement must possess a PA Level I or Level II teaching certificate.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
INSTRUCTIONAL TECHNOLOGY

Instructional Technology with Pennsylvania Instructional Technology Specialist Certification Option

The Master of Science in Education with a major in Instructional Technology is designed primarily for teaching professionals. Core education courses are combined with courses in educational technology to prepare educators to assume positions of leadership in their school or district in the area of technology. In addition to the master’s degree, the program offers Pennsylvania Department of Education certification as an Instructional Technology Specialist.

Program Learning Outcomes:

1. The student will demonstrate an understanding of the fundamental concepts of technology infrastructure including the selection, installation, maintenance and responsible, ethical and safe use of current and emerging hardware and software applications for school administration and instruction.

2. The student will demonstrate practical and efficient ways to integrate technology resources into instructional designs that will systematically create educational experiences that will help K-16 students achieve specified sets of learning outcomes.

3. The student will demonstrate the ability to manage technology within a school district including creating an environment that fosters interest and growth in all aspects of technology by establishing and maintaining rapport with all staff and students through the planning, preparation and delivery of technology related in-service programs that foster the use of technology to meet current academic standards.

Program of Study

ED 530 Utilizing Emerging Technologies to Improve Learning (3 credits)
ED 577 Principles of Information Security (3 credits; Prereq: ED 588)
ED 579 Media Design (3 credits)
ED 583 Courseware Design and Construction (3 credits)
ED 587 Technology Leadership (3 credits)
ED 588 Operating Systems and Networking (3 credits)
ED 5080: Technology for Assessment and Adaptation (3 credits)
ED 5081: Technology to Support All Learners (3 credits)
ED 5082: Technology to Support Curriculum & Instruction (3 credits)
ESL 509: Computer Assisted Language Learning (3 credits)

Required for Certification

ED 591 Internship (3 credits)

For Pennsylvania Department of Education certification as a K-12 Instructional Technology Specialist, 33 credits are required. Candidates for the Instructional Technology Specialist Certificate who do not have a valid Level I or Level II Pennsylvania Instructional certificate must achieve a qualifying score on the PAPA.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
INTERNATIONAL SCHOOL
LEADERSHIP

International School
Leadership

The Master of Science in Education with a major in International School Leadership is for educators in international schools who want to assume leadership positions in those schools. It is designed in partnership with the Association for the Advancement of International Education (AAIE) and PLS 3rd Learning. The program develops the leadership, instructional, and management skills needed to be an international school leader. The degree includes 12 courses (36 credit hours) all offered online. Students will be paired with a program mentor who is an experienced education professional who has worked extensively in international schools.

The requirements for this 36-credit degree are:

PLS 3rd Learning/ AAIE Courses (24 credits)

- EDIL 5001 Vision and Mission to Guide International Schools (3 credits)
- EDIL 5002 Leading for Staff and Student Learning in International Schools (3 credits)
- EDIL 5003 Governance in International Schools (3 credits)
- EDIL 5004 International School Management and Leadership (3 credits)
- EDIL 5005 Building and Sustaining a Healthy International School Culture (3 credits)
- EDIL 5006 Ethical Leadership in International Schools (3 credits)
- EDIL 5007 Situational Awareness and Diplomacy in International Schools (3 credits)
- EDIL 5008 Continuous Professional Growth for International School Leaders (3 credits)

Wilkes Required: 6 credits

- ED 508 Intercultural Communication (3 credits)
- ED 525 Introduction to Educational Research (3 credits)

Wilkes Electives: 6 credits (Choose two courses)

- ED 510 Psychological Foundations of Education (3 credits)
- ED 513 Comparative Foundations of Education (3 credits)
- ED 515 Cognition (3 credits)
- ED 585 Integrating Technology into the Curriculum (3 credits)
- ED 587 Technology Leadership (3 credits)

Courses offered through the PLS 3rd Learning course management system are designated by the EDIL acronym, while courses offered through the Wilkes course management system are designated by the ED acronym.
INTERNATIONAL TEACHING AND LEARNING

International Teaching and Learning
Dr. Karim Medico Letwinsky, Chair/Assistant Professor of Education, Program Director

The Master of Science in Education with a major in International Teaching and Learning provides comprehensive graduate-level education in the study of teaching and learning to international educators and/or international school community members holding bachelor’s degrees from accredited post-secondary institutions. It is designed so that previous education coursework or practice is not required. The program focuses on the various foundations of education, as well as introducing cultural agility and educational technology.

Program Learning Outcomes:
1. The student will understand the components -- theoretical, cultural, psychological, and/or historical in nature -- necessary to create classroom learning environments, which are conducive to effective learning and committed to the cultivation of lifelong learners.
2. The student will demonstrate understanding of research-based learning theory and practices to motivate and instruct students in content areas that are consistent with 21st century learning principles.
3. The student will develop and employ communication skills to facilitate understanding, build relationships, and foster a community of learners with collaborative relationships, a culture of integrity, and ethical practices inclusive of both educators and educational stakeholders.
4. The student will demonstrate understanding for the need and value of lifelong learning, ongoing critical reflection, and informed action to promote continuous personal and professional growth.

This program is cohort-based and site-based. It combines an on-site low-residency model with online coursework. Degree completion requires 30 credits.

The requirements for this 30-credit degree are:

Required Courses (15 credits)
• ED 508 Intercultural Communication (3 credits)
• ED 520 Using Assessment to Guide Instruction (3 credits)
• ED 522 Curriculum and Instruction (3 credits)
• ED 525 Introduction to Educational Research (3 credits)
• ED 539 Advanced Studies in Teaching and Learning (3 credits; Capstone)

Area I: Foundations of Education (6-9 credits)
• ED 510 Psychological Foundations of Education (3 credits)
• ED 511 Philosophical Foundations of Education (3 credits)
• ED 512 Social Foundations of Education (3 credits)
• ED 513 Comparative Foundations of Education (3 credits)
• ED 515 Cognition (3 credits)

Area II: Educational Technology (6-9 credits)
• ED 526 Internet Literacy for Educators (3 credits)
• ED 530 Utilizing Emerging Technologies to Improve Instruction (3 credits)
• ED 585 Integrating Technology into the Curriculum (3 credits)
• ED 587 Technology Leadership (3 credits)
• ED 5080 Technology for Assessment and Adaptation (3 credits)
LETTER OF ENDORSEMENT:
GIFTED

Pennsylvania Gifted Letter of Endorsement Program

This PDE-approved program provides the skills needed meet the academic, social and emotional needs of students who are gifted and talented. Courses align with guidelines provided by the Council for Exceptional Children, the National Association for Gifted Children and the Pennsylvania Department of Education. The Gifted Letter of Endorsement program is completely online with 30 hours of embedded field experiences required. Satisfactory completion of the 12-credit letter of endorsement program, including all course and field experience requirements, will enable candidates to apply to the PDE for an endorsement on their existing Pennsylvania certificates. The four courses may also be taken as electives by other educational and clinical professionals who wish to gain additional knowledge in the areas addressed in each course.

The requirements for this 12-credit endorsement are:

Courses

- ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices
- EDSP 501 Special Education Methodology I (with 10 hours of field experience)
- EDSP 508 Foundations of Gifted Education (with 10 hours of field experience)
- EDSP 509 Gifted Curriculum, Assessment and Instruction (with 10 hours of field experience)

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
LETTER OF ENDORSEMENT:
ONLINE INSTRUCTION

Pennsylvania Online
Instruction Letter of
Endorsement

The Online Instruction Letter of Endorsement is a 12-credit program designed to teach best practices in instructional design, effective online communication, and assessment, promoting social and ethical responsibility in online and blended classrooms.

The Online Instruction Letter of Endorsement is approved by the Pennsylvania Department of Education. The endorsement consists of 12 credits culminating including 20 hours of field experience. Candidates must hold a valid Pennsylvania Instructional I or II teaching certificate.

The requirements for this 12-credit endorsement are:

• ED 521 Using Technology for Assessment (3 credits) (Wilkes)
• ED 5030 Instructional Design for Online Educators™ (3 credits) (PLS 3rd Learning)
• ED 5031 Facilitating Online Learning Communities™ (3 credits) (PLS 3rd Learning)
• ED 5032 Online Teaching for Pennsylvania Educators (3 credits; 20 hours field experience) (Wilkes; prerequisite- ED-521, ED-5030, ED-5031)

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LETTER OF ENDORSEMENT: STEM

Pennsylvania STEM Letter of Endorsement

This 12-credit letter of endorsement program provides the tools teachers need to plan, design and incorporate STEM strategies into everyday learning. Upon successful completion, Pennsylvania educators can apply to add the STEM endorsement to their teaching certificate.

The STEM Letter of Endorsement is approved by the Pennsylvania Department of Education. The endorsement consists of 12 credits and includes 20 of field experience. Candidates must hold a valid Pennsylvania Instructional I or II teaching certificate.

Program Learning Outcomes:

1. The student will use project-based learning and inquiry-based learning to link content standards to career, community and real-world experiences.
2. The student will demonstrate a transdisciplinary approach to teaching and learning that integrates STEM across the curriculum.
3. The student will create authentic assessments that reinforce student-centered learning and provide appropriate differentiation to accommodate all students.
4. The student will utilize collaboration, leadership, and advocacy to promote a shift in culture and dispositions related to STEM education.

The requirements for this 12-credit endorsement are:

- EDIM 502: Project-based Learning
- EDIM 513: Inquiry-based Learning
- EDIM 517: Practices and Implementation of STEM Education (10 hours of field experience)
- EDIM 518: Creating a STEM Culture Through Application (10 hours of field experience)

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
MIDDLE LEVEL EDUCATION

Middle Level Education

The Master of Science in Education with a major in Middle Level Education (EDML) is a 30-credit program with a choice of concentration in Middle Level Mathematics, Science, English/Language Arts, or Social Studies. The degree only option meets the needs of teachers who wish to add the Grade 4-8 certification through the Pennsylvania Department of Education's "test only" option, or who do not wish to seek certification.

Prospective students must hold Pennsylvania Level I or Level II instruction certification. The curriculum for the degree and certification program includes adolescent development, cognition and learning, subject matter pedagogy, and assessment in the program of study.

Students will select one of four concentrations at the time of application:

- Middle Level Mathematics
- Middle Level Science
- Middle Level Social Studies
- Middle Level English/Language Arts

Program Learning Outcomes:

1. The student will strengthen content and process knowledge in the chosen academic specialization.
2. The student will acquire and apply research-based pedagogical knowledge to practice that has been found to be most effective with diverse middle level learners in the chosen academic specialization.
3. The student will apply knowledge of instructional strategies and sound educational practice focused on meeting the needs of diverse adolescent learners in a middle school environment.

30-Credit EDML Master of Science in Education plus certification Program

Core Education

- ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)
- EDML 5001 Teaching Adolescent Learners at the Middle Level (3 credits)
- EDML 5007 Development of the Adolescent Learner at the Middle Level (3 credits)

Electives (6 credits required)

Choose two of the following outside of the concentration area:

- EDML 5002 Mathematics in Middle Level Education (3 credits)
- EDML 5003 Science in Middle Level Education (3 credits)
- EDML 5004 Literacy & Language in Middle Level Education (3 credits)
- EDML 5005 Social Studies in Middle Level Education (3 credits)
- ED 520 Using Assessment to Guide Instruction (3 credits)
- ED 522 Curriculum & Instruction (3 credits)
- ED 524 Action Research for Educational Change (3 credits)
- ED 525 Introduction to Educational Research (3 credits)

Academic Subject Concentration - Select one concentration (15 credits required)

Middle Level Mathematics Concentration

- EDML 5010 Number Theory in Middle Level Education (3 credits)
- EDML 5011 Measurement Concepts in Middle Level Education (3 credits)
- EDML 5012 Data Analysis, Probability, and Statistics in Middle Level Education (3 credits)
- EDML 5013 Algebraic Concepts in Middle Level Education (3 credits)
- EDML 5014 Geometry Essentials in Middle Level Education (3 credits)

Middle Level Science Concentration

- EDML 5020 Scientific Inquiry and Literacy in Middle Level Science (3 credits)
- EDML 5022 Life Sciences in Middle Level Education (3 credits)
- EDML 5023 Physical Science in Middle Level Education (3 credits)
- EDML 5024 Earth and Space Sciences in Middle Level Education (3 credits)
- EDML 5025 Chemical Science in Middle Level Education (3 credits)

Middle Level English/Language Arts Concentration

- EDML 5030 Adolescent Literature (3 credits)
- EDML 5031 Literary Forms and Media Literacy in Middle Level Education (3 credits)
- EDML 5032 Reading Strategies in Middle Level Education (3 credits)
- EDML 5033 Teaching and Evaluating Writing I in Middle Level Education (3 credits)
- EDML 5034 Teaching and Evaluating Writing II in Middle Level Education (3 credits)

Middle Level Social Studies Concentration

- EDML 5040 US History in Middle Level Education (3 credits)
- EDML 5041 Geography in Middle Level Education (3 credits)
- EDML 5042 Government and Civics in Middle Level Education (3 credits)
- EDML 5043 World History in Middle Level Education (3 credits)
- EDML 5044 Fundamentals of Economics in Middle Level Education (3 credits)

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MIDDLE LEVEL EDUCATION
WITH CERTIFICATION

Middle Level Education
Programs with Pennsylvania Grades 4 to 8 Certification

The Master of Science in Education with a major in Middle Level Education (EDML) is a 36-credit program with a choice of concentration in Middle Level Mathematics, Science, English/Language Arts, or Social Studies. The degree prepares teachers to better meet the needs of adolescent learners and prepares teachers to apply for Pennsylvania’s grades 4-8 certificate in a particular content area.

Prospective students must hold Pennsylvania Level I or Level II instruction certification. The curriculum for the degree and certification program includes adolescent development, cognition and learning, subject matter pedagogy, and assessment in the program of study.

Students will select one of four concentrations at the time of application:

- Middle Level Mathematics
- Middle Level Science
- Middle Level Social Studies
- Middle Level English/Language Arts

Program Learning Outcomes:

1. The student will strengthen content and process knowledge in the chosen academic specialization.
2. The student will acquire and apply research-based pedagogical knowledge to practice that has been found to be most effective with diverse middle level learners in the chosen academic specialization.
3. The student will apply knowledge of instructional strategies and sound educational practice focused on meeting the needs of diverse adolescent learners in a middle school environment.

36-Credit EDML Master of Science in Education plus certification Program

Core Education

- ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)

Core Knowledge Courses (9 credits required – Choose three of the following outside your concentration area):

- EDML 5002 Mathematics in Middle Level Education (3 credits)
- EDML 5003 Science in Middle Level Education (3 credits)
- EDML 5004 Literacy & Language in Middle Level Education (3 credits)
- EDML 5005 Social Studies in Middle Level Education (3 credits)

Professional Practice Courses (9 credits required)

- EDML 5001 Teaching Adolescent Learners at the Middle Level (3 credits)
- EDML 5007 Development of the Adolescent Learner at the Middle Level (3 credits)
- EDML 5009 Internship in Middle Level Education (Taken in final semester; special permission required) (3 credits)

Students select from one of four concentrations:

Middle Level Mathematics Concentration

- EDML 5010 Number Theory in Middle Level Education (3 credits)
- EDML 5011 Measurement Concepts in Middle Level Education (3 credits)
- EDML 5012 Data Analysis, Probability, and Statistics in Middle Level Education (3 credits)
- EDML 5013 Algebraic Concepts in Middle Level Education (3 credits)
- EDML 5014 Geometry Essentials in Middle Level Education (3 credits)

Middle Level Science Concentration

- EDML 5020 Scientific Inquiry and Literacy in Middle Level Science (3 credits)
- EDML 5022 Life Sciences in Middle Level Education (3 credits)
- EDML 5023 Physical Science in Middle Level Education (3 credits)
- EDML 5024 Earth and Space Sciences in Middle Level Education (3 credits)
- EDML 5025 Chemical Science in Middle Level Education (3 credits)

Middle Level English/Language Arts Concentration

- EDML 5030 Adolescent Literature (3 credits)
- EDML 5031 Literary Forms and Media Literacy in Middle Level Education (3 credits)
- EDML 5032 Reading Strategies in Middle Level Education (3 credits)
- EDML 5033 Teaching and Evaluating Writing I in Middle Level Education (3 credits)
- EDML 5034 Teaching and Evaluating Writing II in Middle Level Education (3 credits)

Middle Level Social Studies Concentration

- EDML 5040 US History in Middle Level Education (3 credits)
- EDML 5041 Geography in Middle Level Education (3 credits)
- EDML 5042 Government and Civics in Middle Level Education (3 credits)
- EDML 5043 World History in Middle Level Education (3 credits)
- EDML 5044 Fundamentals of Economics in Middle Level Education (3 credits)

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
MIDDLE LEVEL EDUCATION WITH INITIAL PA GRADES 4 TO 8 TEACHING CERTIFICATION

Middle Level Education with Initial PA Grades 4 to 8 Teaching Certification

The Master of Science degree in Education with a major in Middle Level Education is a 39-credit program designed for adults who wish to teach in Pennsylvania at the middle level -- grades 4 to 8. Upon successful completion of the program, students will be eligible to apply for Pennsylvania teaching certification. Candidates will also earn an advanced degree to excel in teaching adolescent learners. The program includes observation and student teaching hours. All courses are three credits unless otherwise noted. Additional coursework may be required, per transcript review.

Admissions Requirements

The program is ideal for students with bachelor’s degrees in mathematics, the sciences, English or communications, or the social sciences. Wilkes will also consider students who hold a bachelor’s degree in other disciplines, but have at least 18 credits in one of these core areas.

In addition, applicants must submit:

- Online application at www.wilkes.edu/applyonline
- Official undergraduate and graduate transcripts
- Two recommendation forms
- Current and valid clearances, all indicating "no record"

Program Learning Outcomes:

1. The student will strengthen content and process knowledge in the chosen academic specialization.
2. The student will acquire and apply research-based pedagogical knowledge to practice that has been found to be most effective with diverse middle level learners in the chosen academic specialization.
3. The student will apply knowledge of instructional strategies and sound educational practice focused on meeting the needs of diverse adolescent learners in a middle school environment.

Required Courses (39 credits)

General Education Requirements (15 credits)
ED 520 Using Assessment to Guide Instruction (3 credits)
ESL 506 Teaching the Four Skills: Reading, Writing, Listening & Speaking* (3 credits; 15 field hours)
EDSP 501 Special Education Methodology I* (3 credits; 20 field hours)
EDSP 503 Behavior Management* (3 credits; 20 field hours)
EDAM 503 Developing Reading/Writing Across Content (3 credits)

Middle Level Professional Practice Requirements (15 credits)
EDML 5000 Foundations of the Education Professional* (3 credits; 30 field hours)
EDML 5001 Teaching Adolescent Learners at the Middle Level* (3 credits; 15 field hours)
EDML 5007 Development of the Adolescent Learner at the Middle Level* (3 credits; 15 field hours)

Middle Level Core Knowledge Requirements (9 credits)
Select three courses not in your concentration area
EDML 5002 Mathematics in Middle Level Education (3 credits)
EDML 5003 Science in Middle Level Education (3 credits)
EDML 5004 Literacy & Language Arts in Middle Level Education (3 credits)
EDML 5005 Social Studies in Middle Level Education (3 credits)

*Observation and Student Teaching Requirements
Field experiences and student teaching are mandatory, hands-on learning components to teacher certification. These experiences take place in a school near your home. The program culminates in a full-time, semester long student teaching assignment.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.

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ONLINE TEACHING

Online Teaching with Pennsylvania Online Instruction Letter of Endorsement Option

The Master of Science in Education with a major in Online Teaching will develop skills in instructional design, course facilitation, effective assessment practices, and creation of collaborative learning communities in the online environment. In addition to the master's degree, the program offers an embedded option for the Pennsylvania Department of Education Online Instruction Endorsement.

Program Learning Outcomes:

1. Apply action research, data analysis, and assessment techniques to design effective instruction that facilitates student learning in an online environment.
2. Employ effective communications skills and strategies to facilitate and build an online learning community consistent with a personal code of ethics.
3. Effectively design appropriate learning activities to engage students and meet the needs of diverse learners in an online environment through the application of theory and strategy.
4. Evaluate and apply varied instructional design models and emerging technologies to achieve best practices in online teaching.

The requirements for this 30-credit degree are:

- ED 521* Using Technology for Assessment (3 credits; Wilkes)*
- ED 530 Utilizing Emerging Technologies to Improve Learning (3 credits; Wilkes)
- ED 5030* Instructional Design for Online Educators™ (3 credits; PLS 3rd Learning; Previously titled ED 5002 Instructional Design for Online Educators™)*
- ED 5031* Facilitating Online Learning Communities™ (3 credits; PLS 3rd Learning; Previously titled ED 5003 Facilitating Online Learning Communities™)*
- ED 5032* Online Teaching for Pennsylvania Educators (3 credits; Wilkes; 20 hours field experience)*

-or-

- ED 5033 Social & Ethical Issues in Online Learning (3 credits; Wilkes; Previously titled ED 5001 Social & Ethical Issues in Distance Learning)
- ED 5034 Action Research in the E-Learning Environment™ (3 credits; PLS 3rd Learning; Previously titled ED 5004 Action Research in the E-Learning Environment™)
- ED 5035 Blended and Synchronous Learning Environments™ (3 credits; PLS 3rd Learning; Previously titled ED 5021 Blended and Synchronous Learning Environments™)
- ED 5036 Building Online Collaborative Environments™ (3 credits; PLS 3rd Learning; Previously titled ED 5023 Building Online Collaborative Environments™)
- ED 5037 Developing Online Programs (3 credits; Wilkes)
- ED 5038 Teaching and Learning in the Online Environment (3 credits; Wilkes; to be taken last by all students in degree program)

Courses marked with an asterisk are required for the Pennsylvania Department of Education Online Instruction Endorsement.

Students seeking the Online Instruction Endorsement must possess a PA Level I or Level II teaching certificate.
**READING WITH PENNSYLVANIA READING SPECIALIST CERTIFICATE**

**Reading with Pennsylvania Reading Specialist Certificate**

The Master of Science degree in Education with a concentration in Reading with Pennsylvania Reading Specialist certification is designed for teachers who seek instructional methods for readers of differing abilities or who would like to become a reading specialist. The program is offered in partnership with the National Institute for Professional Practice, a private organization specializing in e-learning for the professional development of educators.

The program is offered in a convenient online format, with required field hours completed where students reside. Participants will engage in embedded learning, allowing for immediate application of program coursework to their own classroom. Action research will be employed to explore the use and effectiveness of instructional strategies that help diagnose and remediate reading difficulties.

A 100-hour internship serves as the culminating experience preparing students for the role of reading specialist while working in an instructional setting under the supervision of a licensed reading specialist. Interns will implement reading programs, plan interventions, and apply a range of reading assessments and instructional strategies in the diagnosis and remediation of reading problems. Interns will demonstrate the ability to manage the instructional environment and effectively communicate to promote the development of literacy.

**Program Learning Outcomes:**

1. The student will demonstrate knowledge of the fundamental concepts of reading and competence in teaching K-12 students reading including: historical perspectives, methodologies, systems of language, and theories of language and reading acquisition and development. (IRA 1; PA I.A, I.B)

2. The student will demonstrate an awareness of literacy at all levels and across all content areas through the selection of classic and contemporary literature, textbooks, and curriculum materials that are appropriate for various age levels and mediums. (IRA 2; PA I.C)

3. The student will create and manage a safe physical environment that fosters growth in all aspects of literacy and communicates high expectations for all learners. (IRA 4.5; PA II.A)

4. The student will plan, implement, and adapt instruction in collaboration with other professionals using effective teaching strategies, curriculum resources, and technologies that address the diverse needs of learners at a variety of instructional levels (IRA 2.4; PA II.B, II.C)

5. The student will select, develop, administer, and record a variety of assessments that provide for multiple indicators of students’ progress (IRA 3; PA II.D)

6. The student will demonstrate knowledge and competencies that foster professionalism in school and community settings (IRA 6; PA IIIA-D)

The requirements for this 36-credit degree are:

- EDAM 5060  Foundations of Literacy and Language Acquisition (3 credits)
- EDAM 5064  Instructional Strategies to Support Independent Readers (3 credits)
- EDAM 5061  Assessing Literacy (3 credits)
- EDAM 5069  Diagnosis & Intervention in Literacy (3 credits)
- EDAM 5066  Accommodations and Adaptations in Literacy for Diverse Learners (3 credits)
- EDAM 5049  Content Literacy (3 credits)
- EDAM 5065  Literacy Leadership and Coaching (3 credits)
- EDAM 5067  Reading Specialist Internship (6 Credits)

A 30-credit degree-only option is available for those who do not wish to obtain the PA Reading Specialist PK-12 certification. This program consists of all listed courses EXCEPT EDAM 5067 Internship.

A 30-credit certification-only option is available for those who do not wish to earn a Master’s degree. This program consists of all listed courses EXCEPT EDAM 5064 and EDAM 5065.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.

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SCHOOL BUSINESS
LEADERSHIP

School Business Leadership
The Master of Science degree in Education with a major in School Business Leadership is a 30-credit fully online program offered in collaboration with the Pennsylvania Association of School Business Officials (PASBO) to design advanced courses for the practicing school business professional or anyone interested in entering the field. Applicants must have a minimum of a bachelor’s degree from an accredited college or university in an appropriate field. A teaching certificate is not required.

Program Learning Outcomes:
1. The student will demonstrate conceptual and practical knowledge of public school financial, facilities, food service, information technology, human resources, and transportation operations.
2. The student will demonstrate the ability to apply principles of stewardship, efficiency, and fiscal responsibility to revenue and expenditure processes.
3. The student will demonstrate the ability to analyze information and circumstances, formulate data-driven decisions, and communicate them effectively.

The requirements for this 30-credit degree are:

- SBL 501 Public Relations and School Communications (3 credits)
- SBL 502 School Facility Management (3 credits)
- SBL 503 Financial Operations of School Districts (3 credits)
- SBL 504 Financial Planning & Management for School Business (3 credits)
- SBL 505 Human Resources in Education (3 credits)
- SBL 506 Materials Management in Schools (3 credits)
- SBL 507 Information Technology in Education (3 credits)
- SBL 508 Student Transportation (3 credits)
- SBL 509 Food Service in Education (3 credits)
- SBL 510 Leadership for School Business (3 credits; Capstone)
SECONDARY EDUCATION

Requirements

Wilkes offers Master's degree programs in Secondary Education in various content areas including Biology, Chemistry, English, History, and Mathematics. Applicants must possess teacher certification in the content area for which they are applying. The secondary education programs are not designed to prepare students for certification. A candidate for the Master of Science in Education degree whose program is in one of the secondary school teaching subjects must complete 18 credits in the appropriate content area and 12 Education graduate course credits consisting of six credits in Area I Foundations of Education and six credits in Area II Professional Skills to include ED 520 Using Assessment to Guide Instruction and ED 522 Curriculum and Instruction. Information about specific courses in the Secondary Education master's degree programs can be found in the Biology, Chemistry, English, History or Mathematics sections of this bulletin. Students are encouraged to contact the department chair of the specific content area to inquire about course availability. The education courses of the Secondary Education programs may be taken at off-campus locations in any semester, but the content area courses can only be taken on the Wilkes campus, typically during fall and spring semesters only.
SPECIAL EDUCATION
Pennsylvania Special Education Certification Option

The Master of Science in Education with a Special Education Certification option provides students with an in-depth understanding of teaching students with exceptionalities across multiple settings and service models. The program requires students to complete field hours within school settings serving students with exceptionalities across all IDEA disability categories. Students have the choice of completing the full degree with certification or simply the certification program track. The Master of Science program with Special Education Certification is designed to prepare individuals for PA Certification in Special Education.

To be eligible for admission into the Master of Science program with Special Education certification option, applicants must possess a previously earned Pennsylvania instructional certificate in one of the areas below and present a copy of the certificate during the admissions process. Candidates who enter the program will declare either the PK-8 or 7-12 grade band option. The previous N-12 certification is no longer granted by the state as of August 31, 2013. The criteria for certification and admission to each grade band option are regulated by the Pennsylvania Department of Education (PDE) as follows:

**Special Education PreK-8 Option:** Candidates with previous PA certificates in early childhood N-3, elementary K-6 or PreK-4, middle school 4-8, K-12 and certified reading specialists are eligible for this option.

**Special Education 7-12 Option:** Candidates with previous PA certificates in secondary education 7-12 (content areas), K-12 and certified reading specialists are eligible for this option.

**Credits Required for Program Completion:**

*All students will apply to the ‘degree seeking’ program, but will notify the program coordinator if ONLY seeing certification.

**Certification Only: 30 Credits**

Courses designated with * are required courses for state certification

**Master’s Degree with Certification: 39 Credits**

*If seeking the Master’s Degree with Certification EDAM 5066, ESL 504, and ED 569 have to be taken through Wilkes and/or transferred into your program as approved graduate course(s) from another accredited college/university*

**Program Delivery:**

Special Education Core Course offerings are set on a rotational schedule, contact the program coordinator for a specific offering schedule of the courses. The Special Education Core Courses (EDSP 501 – 505) are only available at the Wilkes campus in Wilkes-Barre, PA. These courses are all face-to-face courses held on 6 different Saturdays or Sundays during the traditional semester. The only exception is EDSP 501 which is only offered in a fully online format. All other courses within the program are available in an online format or at selected site locations during each semester, if students are interested in face-to-face offerings for some degree courses. Students will need to check the schedule each semester for courses offered in their area.

**Completion of this graduate program:**

- Offers graduates specialization to work with students in the field of Special Education
- Distinguishes graduates from colleagues in the field of education
- Adds a Special Education PreK-8 OR 7-12 Certification to a student’s existing PA State Certification

Program Learning Outcomes:

1. Students will develop the knowledge, skills, and scholarship relevant to highly qualified special education teachers.
2. Students will be able to identify fundamental characteristics of learners with cognitive, behavioral, emotional, social, physical, and health disabilities.
3. Students will be able to create and analyze learning expectations based on available data and multifaceted evaluations of student(s) with special needs
4. Students will be able to evaluate and apply research and evidence based instructional methods and strategies with students during field based experiences.

**Courses:**

Courses designated with * are required for state certification

**PREREQUISITE COURSES: 9 Credits:** Prerequisite courses or their equivalents may be completed at the undergraduate (for those only seeking certification) or graduate level, online or face-to-face. Candidates may receive credit for the certification competencies completed through previous program coursework. Prerequisite courses can be completed at any time prior to applying to the state for special education certification.

*EDAM 5066: Accommodations and Adaptations in Literacy for Diverse Learners (3 credits)*

*ESL 504: Intercultural Communication for Language Teachers (3 credits)*

*ED 569: Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)*

**CORE COURSES: 12 Credits**

*ED 510: Psychological Foundations (3 credits)*

ED 519 Issues, Laws & Trends in Ed (3 credits)

ED 522: Curriculum and Instruction (3 credits)

ED 558: Integrating Technology into the Curriculum (3 credits)

**SPECIAL EDUCATION COURSES: 15 credits**

(Act 34, 151, and 114 clearances are required for field experiences)

*EDSP 501: Sp Ed Meth I w/Field Exp. (3 credits; 20 hrs.)*

*EDSP 502: Sp Ed Meth II w/Field Exp. (3 credits; 20 hrs.)*

*EDSP 503: Behavior Mgt w/Field Exp. (3 credits; 20 hrs.)*

*EDSP 504: Assessment in Sp Ed (3 credits)*

*EDSP 505: Effective Practices in Sp Ed (3 credits)*

**SPECIAL ED INTERNSHIP: 3 Credits**

*EDSP 506 Internship in Sp Ed (3 credits; 100 hrs.)*

Must be taken as the final EDSP course or in conjunction with the final EDSP course. Advisor must give permission to register for the internship.

**Additional Information:**

There is no set order for how students have to take these courses, but it is important to note that EDSP 506: Internship cannot be scheduled until the student successfully completes EDSP 501 through EDSP 505 and contacts their advisor to be registered for this course. The Special Education Core Courses (EDSP 501 – 505) are only available at the Wilkes campus in Wilkes-Barre, PA. These courses are all face-to-face courses held on 6 different Saturdays or Sundays during the traditional
semester. The only exception is EDSP 501 which is only offered in a fully online format.
NOTE: Student enrollments will dictate whether courses are offered each semester. If the minimum enrollment is not met in a course, the course will be withdrawn from the schedule.
The state will require candidates to take the new Special Education Certification tests called the PECT (Pennsylvania Educator Certification Tests) available at: http://www.pa.nesinc.com. There are two PECT modules for each grade band. Candidates will select the appropriate grade band modules; either PK-8 or 7-12.

**New Wilkes University Requirement(s) Regarding Completion of both Special Education Certification Grade Bands**

Wilkes graduate students completing the Special Education PK-8 program may choose to pursue Special Education 7-12 certification by completing the following:

1. Obtain certification in a Grade 7-12 Content Area by passing the certifying exam and applying for certification through PDE TIMS.
2. Once the 7-12 content area certification is approved by PDE, the student will request registration into the Special Education 7-12 internship course through the Program Coordinator. *The hours for this internship course will be determined by the PDE requirements at the time of registration.
3. Once the internship is successfully completed, the student will apply through PDE TIMS for certification and will need to pass the designated certifying exam for Special Education 7-12.

Wilkes graduate students completing the Special Education 7-12 program first, may choose to pursue Special Education PK-8 certification through the same process by substituting the appropriate grade band content area certification.

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.
The requirements for this 30-credit degree are:

- ESL 501 and 503 are prerequisite courses. They may be taken together or separately in either order, but must be completed prior to enrolling in other ESL courses.
- ESL 502* Language Concepts for Second Language Learning and Teaching (3 credits)
- ESL 506* Teaching the Four Skills: Reading, Writing, Listening and Speaking (3 credits; 15 hours field experience)
- ESL 508* Second Language Program Development (3 credits; 30 hours Field Experience)
- ESL 504 Intercultural Communication for Language Teachers (3 credits)
- ESL 505 Second Language Acquisition (3 credits)
- ESL 507 Sociolinguistics and Second Language Acquisition (3 credits)
- ESL 509 Computer-Assisted Language Learning (3 credits)
- ESL 512 ESL Teaching and Evaluation Theory (3 credits)

(* Required for ESL Specialist Letter of Endorsement)

PA ESL Program Specialist Courses (after completing these courses, students possessing Instructional Level 1 or 2 certification may apply for ESL Program specialist certification through the TIMS website).

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.

Certificate Only option (Non degree seeking)

Pennsylvania teachers with an instructional certificate may obtain the ESL Program Specialist designation by completing the first five courses of the master’s program, and 60 hours of field experience. Field experiences are structured by the course instructor and allow full time working teachers to easily meet the necessary requirements. All field experiences take place live. ESL Program Specialist certification is not a stand-alone instructional certificate in Pennsylvania, therefore you must have a Bachelor’s degree in Education and be a fully certified teacher in the State of PA to obtain this certification. Upon successful completion of the first five courses, whether or not you continue to pursue the master’s degree, you may request the specialist designation from the PDE by applying through the TIMS system.

The requirements for this 30-credit degree are:

- ESL 501* Approaches to Teaching Second Languages (3 credits; prerequisite course)
- ESL 503* Second Language Assessment (prerequisite course) (3 credits; 15 hours field experience)
The Art and Science of Teaching

The Master of Science in Education with a major in Art and Science of Teaching is a 30 credit online graduate program designed to increase student achievement by enhancing teacher's knowledge and understanding of effective instructional practices. This program is the result of a two-way collaborative partnership between Wilkes University and National Institute for Professional Practice, a private organization specializing in e-learning for the professional development of educators. The structure of the program consists of 8 three-credit courses and one six-credit capstone course. The content of the courses is based on the extensive research of Dr. Robert Marzano regarding the impact of effective instructional practices on student learning. The goal of this master's program is to develop Expert Teachers by increasing teacher knowledge and understanding of evidence-based practices, which will translate to measurable changes in the classroom and subsequently increase student achievement. The program is primarily targeted at elementary, middle, and high school teachers.

Program Learning Outcomes:

1. Students will synthesize the research findings on effective teaching strategies
2. Students will develop a learning goal representing four levels of difficulty demonstrating a progression from simple to complex thinking as a framework for differentiating instruction for the topic or unit of study
3. Students will monitor and measure student progress by developing, implementing, and analyzing a formative assessment strategy with instructional feedback for one learning goal
4. Students will identify and create critical-input experiences along a continuum from simple to complex levels of knowledge aligned to the learning goal
5. Students will develop and implement a lesson plan that incorporates strategies and techniques that support hypothesis generating and testing
6. Students will develop and implement a lesson plan that incorporates strategies and techniques that foster high levels of student engagement
7. Students will design and implement an overall disciplinary plan, including a clearly defined strategy for high intensity situations
8. Students will analyze the research findings that provide an in-depth understanding of the dynamics that constitute and effective teacher-student relationship including concern, cooperation, guidance, and control
9. The student will demonstrate evidence of learning and competency across components of the art and science of teaching through the collection and analysis of course artifacts and self-reflection

The courses in the program include:

- EDAM 5040 Foundations of the Art and Science of Teaching (3 credits; prerequisite course)
- EDAM 5041 Establishing Learning Goals to Support Learning & Instructional Design (3 credits)
- EDAM 5042 Monitoring & Measuring Student Progress (3 credits)
- EDAM 5043 Actively Processing New Content (3 credits)
- EDAM 5044 Extending Student Learning (3 credits)
- EDAM 5045 Designing Instruction for Student Engagement (3 credits)
- EDAM 5046 Creating an Effective Classroom Environment (3 credits)
- EDAM 5047 Developing Relationships and High Expectations for Student Learning (3 credits)
- EDAM 5048 Applying the Art and Science of Teaching (6 credits)

There are no transfer credits permitted in this program. Courses in this program run on National Institute for Professional Practice's academic calendar. Visit www.professionalpractice.org or call 888-235-6555 for a copy of the most recent academic calendar.

Registration and payment for courses in the MS Ed: The Art & Science of Teaching program are processed by National Institute for Professional Practice. Visit www.professionalpractice.org or call 888-235-6555 for more information on payment options and the registration process.
AUT. AUTISM

AUT-501. AUTISM DIAGNOSIS AND TREATMENT
Credits: 3
The course will include an historical overview of the diagnosis and treatment of Autism and Autistic Spectrum Disorders. Special education policies, procedures, IEP development, and ethical considerations will be addressed. A review of contemporary diagnostic tools and biological research will be presented. A special emphasis will be given to evidence based treatment protocols as highlighted by the National Autism Standards Project. A 20 hour field experience is required.

AUT-502. APPLIED BEHAVIORAL ANALYSIS AND AUTISM
Credits: 3
This course will introduce the basic principles of Applied Behavior Analysis (ABA) with special consideration given to its applications to ASD and Pervasive Developmental Disorders (PDD). Emphasis will be placed on positive behavioral supports, behavioral intervention plans (BIP), Functional Behavior Analysis (FBA), and error analysis. A review of outcome research in Early Intensive Behavior Intervention will be presented. A 20 hour field experience is required.

AUT-503. AUTISM SCOPE AND SEQUENCE
Credits: 3
This course will present a review of past and present curricular approaches for students with ASD and Pervasive Developmental Disorders (PDD) including Asperger's Syndrome. Particular emphasis will be placed on ABA designs and visually mediated strategies, including ME, ABLLS, and VB-MAPP that address core language deficits and social competence. The role of specific augmentative and alternative communication systems (AAC) will be discussed. A 20 hour field experience is required.

AUT-504. ADVANCED AUTISM INSTRUCTION AND INTERVENTION
Credits: 3
This course will offer an in-depth examination of state-of-the-art instructional techniques and protocols for ASD and Pervasive Developmental Disorders (PDD). Topics will include Functional Behavior Assessment, Positive Behavior Support Plans, Precision Teaching, Instructional Control, Classwide Behavior Plans, FloorTime, Sensory Integrative Approaches, and Direct Instruction. Materials from the statewide Verbal Behavior Project, TEACCH, and Competent Learner Models will be reviewed. A 20 hour field experience is required.

ED. EDUCATION

ED-508. INTERCULTURAL COMMUNICATION
Credits: 3
This course examines the ways cultural differences, ethical perspectives, and characteristics of the communication process influence interaction in intercultural settings. The course focuses upon critical issues in intercultural communication. Special emphasis is given to intercultural competence in educational settings.

ED-510. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION
Credits: 3
A study of human development and learning, application of psychological principles in the practice of education.

ED-511. PHILOSOPHICAL FOUNDATIONS OF EDUCATION
Credits: 3
An examination of philosophical issues which bear upon American education. The problem of relating theory to practice is considered.

ED-512. SOCIAL FOUNDATIONS OF EDUCATION
Credits: 3
An introduction to the history, scope, materials and methods of the sociological analysis of education. Instruction includes the concepts of culture, socialization, stratification, social control and change as they relate to formal education.

ED-513. COMPARATIVE FOUNDATIONS OF EDUCATION
Credits: 3
An analytic study of educational patterns in contemporary societies. Educational policies and institutions are studied in their cultural context. Educational patterns of developed and developing nations are described, analyzed and compared; examples from each pattern are examined.

ED-515. COGNITION
Credits: 3
This course provides in depth study of the processes required for students to process information, including perception, attention, memory, encoding, retrieval, problem solving, and the information processing requirements of reading and writing. Consideration of problem solving in specific subject areas is also covered.

ED-517. PRINCIPAL AS AN EDUCATIONAL LEADER
Credits: 3
This course will focus on the leadership roles and responsibilities of the principal. Leadership theories, ethics, organizational models, data-driven decision making, managing change and conflict, effective communication, diversity, and community relations are critical areas that will be analyzed, assessed and practiced. This course requires a minimum of 30 hours of field experience. Students are conditionally admitted to the EDLS program until successful completion of this course. Required for K-12 principal certification.

EDUCATION-518. SCHOOL LAW
Credits: 3
An examination of school law at the federal, state and local levels; review, discussion and analysis of court decisions which affect schools.

ED-519. ISSUES, LAWS AND TRENDS IN EDUCATION
Credits: 3
(Students who have previously taken either ED-514 or ED-518 may not register for ED-519.) This course will focus on an examination of school law at the federal, state and local levels through review, discussion and analysis of court decisions that affect educational institutions. The study of school law and American education will be centered on contemporary issues with consideration given to historical perspectives, accountability issues and future trends. Topics will include legal and ethical issues in instructional delivery systems and the functions of education. Required for the Classroom Technology, Educational Development & Strategies, and Special Education Programs for students beginning courses in Fall 2007.
ED-520. USING ASSESSMENT TO GUIDE INSTRUCTION  
Credits: 3  
An examination of various assessment strategies and current methods of assessment, through the study of theory and effective practices in assessment translated into design. The analysis of disaggregated student data to implement effective change in teaching and assessment practices will be explored. Research based strategies for the assessment and instruction of diverse learners will be examined. (Cross listed with EDAM-5032).

ED-521. USING TECHNOLOGY FOR ASSESSMENT  
Credits: 3  
This course will explore the use of various technological tools in assessment that helps improve teaching and learning in both face-to-face and online environments. Students will examine practices and strategies for developing effective assessments and utilizing assessment data.

ED-522. CURRICULUM AND INSTRUCTION  
Credits: 3  
The course will engage students in the study of school curricula in elementary and secondary education. Models and trends in curriculum development will be explored by examining past and present influences on curriculum. The needs of diverse learners will be addressed through a survey of the latest research addressing differentiated instruction and societal factors influencing achievement gaps. Participants will relate this knowledge to their delivery of curriculum to students.

ED-523. ADMINISTRATIVE LEADERSHIP IN CURRICULUM AND INSTRUCTION  
Credits: 3  
This course familiarizes future principals with the nature of curriculum and the impact of national and state standards on the instructional program. The importance of the role of the principal in developing an organizational structure for curricular change to provide the most appropriate instructional environment for all students will be embedded throughout the course. This course requires a 30 hour field experience focusing on school curriculum leadership. Pre-requisite: ED-517 Principal as Educational Leader Required for K-12 principal certification.

ED-524. ACTION RESEARCH FOR EDUCATIONAL CHANGE  
Credits: 3  
Action research is applied research educators can do within the school to improve practice, from instruction to learning. Knowledge and skill will be in designing action research, using both quantitative and qualitative data collection methods, to inform and improve practice. (Cross-listed with EDAM-5031)

ED-525. INTRODUCTION TO EDUCATIONAL RESEARCH / MASTER’S LEVEL  
Credits: 3  
This course is designed to facilitate learning methods and techniques of educational research, critiquing published research and conducting a thorough and professional search for research literature on a selected topic.

ED-526. INTERNET LITERACY FOR EDUCATORS  
Credits: 3  
(Previously titled Telecommunications for the 21st Century - do not repeat for additional credit)  
This course will explore developmentally appropriate teaching and learning opportunities that are available to classroom teachers via the Internet. Students will learn to use various types of electronic communications including the development of curriculum web sites that address content standards and student technology standards. The use of technology to communicate with peers, parents and the larger community to nurture student learning will be explored. The safe and healthy use of technology resources to facilitate equitable access of resources for all students will be endorsed. Research of best practice regarding online pedagogy will be examined.

ED-527. MULTIMEDIA DESIGN FOR DIGITAL LEARNING  
Credits: 3  
(Previously titled Authoring Systems/Instructional Design - do not repeat for additional credit)  
This course explores how multimedia is used for teaching and learning. Research-based principles of multimedia design will be explored to enhance competency and skills in multimedia development.

ED-528. PRINT MEDIA IN THE DIGITAL CLASSROOM  
Credits: 3  
(Previously titled Using Print Media to Support Education/Desktop Publishing - do not repeat for additional credit)  
This course will explore research-based visual design principles for the design and production of print and web-based media utilizing 21st century digital tools for teaching and learning. Required for Classroom Technology Program.

ED-530. UTILIZING EMERGING TECHNOLOGIES TO IMPROVE LEARNING  
Credits: 3  
This course is designed to help students understand different key learning theories and their effective use in the design of accessible learning activities. Students will apply learning theory principles to develop model lessons using emerging technologies. Students will also identify appropriate strategies and technologies to support equitable access and diverse learning styles. Using technology to accomplish data-driven decision-making will be explored.

ED-531. CHILDREN’S LITERATURE  
Credits: 3  
A study of methods and materials appropriate for elementary school instruction in literature.

ED-539. ADVANCED STUDIES IN TEACHING AND LEARNING  
Credits: 3  
This capstone course offers a culminating experience to demonstrate the attainment and integration of program outcomes. Students will be provided an in-depth opportunity to synthesize learning, think critically about their role as life-long learners, and apply new knowledge in creative ways.

Pre-Requisites  
Completion of required International Teaching and Learning program coursework. Department permission required.
Course Descriptions

ED-541. DESIGNING MOTIVATION FOR ALL LEARNERS  
Credits: 3  
Students will design learning experiences and develop effective leadership strategies that promote motivation for all learners. Additionally, they will learn verbal encouragement techniques that motivate by reinforcing student effort and reducing risk and discover how purposeful work and goal achievement can support all types of learners.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-542. MEANINGFUL ACTIVITIES TO GENERATE INTERESTING CLASSROOMS (MAGIC)  
Credits: 3  
A hands-on course which offers students the opportunity to learn a variety of engaging activities to go beyond textbook and workbook instruction. Participation in over 60 activities provides practice in creating, evaluating, and adapting ideas to each participant's specific curriculum.

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ED-543. ACHIEVING STUDENT OUTCOMES THROUGH COOPERATIVE LEARNING  
Credits: 3  
Designed to encourage teachers to use cooperative strategies appropriately in classrooms. Activities include simulations, use of cooperative learning models, and creation of lesson plans.

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ED-548. PURPOSEFUL LEARNING THROUGH MULTIPLE INTELLIGENCES  
Credits: 3  
Based on the research of Howard Gardner, this course focuses on understanding each of the intelligences and identifying them. Discovery centers are used to experience each intelligence and teaching strategies and classroom activities that enhance the intelligences are designed by participants.

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ED-552. TEACHING THROUGH LEARNING CHANNELS  
Credits: 3  
This course utilizes recent brain research, examines individual differences in learning styles, and develops adaptive teaching procedures to accommodate varying cognitive processes.

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ED-553. BRAIN-BASED WAYS WE THINK AND LEARN  
Credits: 3  
This course will explore the four basic thinking skills of induction, deduction, analysis, and synthesis. Students will experience, model, and internalize specific techniques of brain-based teaching and learning and will integrate thinking processes into real-life applications.

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ED-554. SUCCESSFUL TEACHING FOR ACCEPTANCE OF RESPONSIBILITY
Credits: 3
This course is designed to help experienced and beginning K-12 educators create a classroom environment in which responsible behavior is modeled, taught, and supported. Participants will explore the underlying causes of irresponsible behavior and learn specific strategies associated with four instructional approaches that empower students to be self-directed, responsible learners. As participants learn to mentor, model, coach, and facilitate responsible actions in their students, they likewise develop increasing responsibility and personal power in their own professional practice.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-555. CLASSROOM MANAGEMENT: ORCHESTRATING A COMMUNITY OF LEARNERS
Credits: 3
This course equips experienced and beginning K-12 educators with current, research-validated concepts and strategies for orchestrating classroom life and learning so that instruction flows smoothly, student misbehavior is minimized, and learning potential is maximized. Participants will learn strategies associated with seven key areas of expertise that collectively contribute to a teacher’s classroom management effectiveness.

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ED-557. DIFFERENTIATED INSTRUCTION FOR TODAY’S CLASSROOM
Credits: 3
This course equips experienced and beginner educators with the essential knowledge and skills to implement differentiated instruction (DI) successfully in their own classrooms. In a highly interactive learning environment that models the DI principles and processes, class members will gain expertise in understanding and implementing a broad range of strategies associated with the essential, distinguishing components of DI.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-558. TOPICS COURSES
Credits: 3
Advanced study of topics of special interest not extensively treated in regular courses.

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ED-559. BEHAVIORAL, ACADEMIC, AND SOCIAL INTERVENTIONS FOR THE CLASSROOM
Credits: 3
This course provides educators with research-based interventions in the behavioral, academic, and social areas of student performance. Through a multitiered response to intervention model, educators implement a solution-seeking cycle for gathering information, identifying issues, and planning and assessing early and effective interventions.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-560. BUILDING COMMUNICATION AND TEAMWORK IN THE CLASSROOM
Credits: 3
This course equips experienced and beginner educators with the essential knowledge and skills necessary to foster an emotionally engaging classroom. The selected strategies participants will learn and practice are designed to improve teacher expertise in five specific areas: leadership, communication and listening, positive thinking, student support, and team building.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-561. READING ACROSS THE CURRICULUM
Credits: 3
This course provides research-based active reading comprehension strategies that participants can apply to their grade level or content area. By learning how to implement these metacognitive reading strategies, participants will be able to plan lessons more effectively. Emphasis is on learning styles, types of text, notation systems, content-area reading, assessments, fluency, motivation, and grade-level vocabulary.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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ED-569. TEACHING DIVERSE LEARNERS USING INCLUSIVE CLASSROOM PRACTICES
Credits: 3
Research-based strategies for the instruction of diverse learners in inclusive settings will be examined in this course. Participants will examine effective teaching practices including the research and theories to support such practices. Students will apply the practices to an educational setting. Instructional strategies such as Differentiated Instruction, Universal Design for Learning, co-teaching, differentiated instruction, Understanding by Design (UbD), formative assessments, and other effective inclusive classroom practices will be explored.

ED-571. SPECIAL EDUCATION PROGRAMMING AND ADMINISTRATION
Credits: 3
This course will familiarize future principals with methods and strategies to design and implement programs for students with disabilities that are compliant with legal requirements and current research in improving student achievement. The importance of the role of the principal in developing an organizational structure that facilitates the most appropriate teaching and learning environment for students with disabilities will be embedded throughout the course. This course requires a 30 hour field experience focusing on special education administration from the principal’s perspective. Pre-requisite: ED-517 Principal as Educational Leader Required for K-12 principal certification.

ED-573. EVALUATION OF EDUCATIONAL PROGRAMS
Credits: 3
Students will undertake advanced study in educational assessment strategies and program evaluation with a focus on student learning within the operation of these programs. It will encompass various types of assessment strategies and methods, as well as the analysis of assessment data to guide instruction and curriculum design. Instruction will focus on the principal's role in guiding teachers in the design of effective assessments and alternative assessment strategies, and the use of assessment in program evaluation. Working in collaboration with faculty, colleagues, and a practicing administrator, students will design a leadership plan of study for a topic in this area. The plan of study must directly relate to the role and responsibilities of the principal in this capacity. Sample topics can be drawn from such areas as: student assessment methods, evaluation of special and regular education programs, academic standards and the PA Assessment System or other related topics. Pre-requisite: ED-517 Principal as Educational Leader. Required for K-12 principal certification.
ED-577. PRINCIPLES OF INFORMATION SECURITY  
Credits: 3  
With focus on the educational environment, this course will discuss the principles of information security, building a clear understanding of the foundations of information security, the principles on which managerial strategy can be formulated and the technical solutions available to technology coordinators.

Pre-Requisites  
ED-588.

ED-578. STAFF DEVELOPMENT AND SUPERVISION  
Credits: 3  
This course focuses on staff development and teacher supervision. Models of supervision, such as clinical supervision and differentiated supervision, are examined. Case studies will be utilized to gain understanding of the teacher evaluation process. Mentoring and new teacher induction programs will be investigated. An overview of the laws and policies, which influence and govern these programs will be included. Pre-requisite: ED-517 Principal as Educational LeaderRequired for K-12 principal certification.

ED-579. MEDIA DESIGN  
Credits: 3  
This course is designed to give specific and realistic examples of how different types of media and instructional technology can complement each other in the computer age classroom. Emphasis will be given to the design and production of instructional materials using text, video, audio, and computer based and photographic formats for use in both distance learning and traditional classrooms.

ED-583. COURSEWARE DESIGN AND CONSTRUCTION  
Credits: 3  
Using state-of-the-art technology to design and construct appropriate courseware support and curricula. Topics include the use of authoring software, optical technologies, ISD (Instructional Systems Design) models and strategies geared towards proper courseware design.

ED-585. INTEGRATING TECHNOLOGY INTO THE CURRICULUM  
Credits: 3  
The course will present models of instructional design to provide a theoretical framework in the application and integration of microcomputer technology into the K-12 curriculum. Participants will develop a portfolio of computer-generated materials for their classroom. Required for the Classroom Technology, Special Education, and Educational Development and Strategies Programs.

ED-587. TECHNOLOGY LEADERSHIP  
Credits: 3  
This course is designed to develop educational technology leaders who are knowledgeable and skilled in technology leadership practices that improve student learning and school operations in K-12 schools. It addresses skills and competencies necessary for the support and assessment of technology standards and will include issues and trends relevant to the field of educational technology. Required for Instructional Technology degree and & the master’s degree in Educational Leadership.

ED-588. OPERATING SYSTEMS & NETWORKING  
Credits: 3  
An exploration into the design of present-day microcomputer systems. Topics include microcomputer architecture and hardware, telecommunications, networking and general operating systems.

ED-589. INSTRUCTIONAL TECHNOLOGY: MODELS AND METHODS  
Credits: 3  
A ‘wide area’ look into technology integration. An investigation into what the responsibilities of a technology coordinator will be - relating technology and thinking processes, the cognitive effects of technology integration, materials acquisition and placement and general administrative strategies.

ED-591. INTERNSHIP (INSTRUCTIONAL TECH)  
Credits: 3  
Participation in field experience to observe the use of technology to support instruction, the management of technology resources in educational settings, and the evaluation of effectiveness of technology resources for teaching and learning; application of technology resources to support instruction in classroom settings. Required for PA Instructional Technology Specialist Certification.

Pre-Requisites  
ED-587, ED-588, ED-589 (or equivalent) and permission of Director.

ED-592. K-12 PRINCIPAL INTERNSHIP  
Credits: Parts A & B - two semesters at 3 credits each  
Students will complete work as an administrative intern with practicing K-12 principals. Within this experience, students will design a leadership plan of study to implement a research-based project, which will attest to their ability to perform as an educational leader. The project is to address the needs of the candidate, as well as the needs of the school where the internship is being completed. Required for K-12 principal certification.

Pre-Requisites  
Completion of the 21 credits required for principal certification. Required for K-12 principal certification.

ED-598. TOPICS  
Credits: 3  
Advanced study of topics of special interest not extensively treated in regular courses.

ED-610. ETHICS FOR EDUCATIONAL LEADERS  
Credits: 3  
This course focuses on the principles, practices and issues related to ethics in educational leadership within a variety of institutional settings. The ethical dimensions of leadership will be examined through both traditional and nontraditional paradigms. Students will reflect on personal ethical stances, examine the influence of ethics and values on decision-making, and analyze and critique ethical issues in a variety of contexts to frame their professional ethical perspectives.

ED-612. LEADERSHIP, DIVERSITY AND SOCIETAL CHANGE  
Credits: 3  
This course examines the impact of diversity, culture, ethnic origin and societal change on educational institutions and the emerging leadership styles resulting from these factors. This course is designed to better prepare leaders to meet the challenges of cultural diversity and rapid societal change in organizations. Attention is given as to how language, gender, race, tradition, education, economic structure, societal transitions and global events interact with organizational philosophy to create behavioral norms at all levels. The influence of these factors on leaders’ behaviors, as well as their interactions with diverse groups both inside and outside the organization, will be studied.
ED-614. ORGANIZATIONAL AND LEADERSHIP THEORY
Credits: 3
This course focuses on organizational and leadership theories as they relate to K-12 and higher education institutions. The central aim of this course is to enable students to understand the structure and function of organizations and leadership from multiple theoretical perspectives. Through the linking of theory to practice, future educational leaders will be empowered to make conscious, deliberate decisions utilizing multiple, and at times divergent, theoretical frames.

ED-616. PUBLIC RELATIONS: ISSUES AND TRENDS FOR EDUCATIONAL LEADERS
Credits: 3
This course will focus on understanding contemporary public relations issues and trends with emphasis on public relations in educational institutions, changes in society and in educational institutions, public opinions, and political contexts; understanding of public relations relative to public relations' theory and practice, legal and ethical aspects, technology, and public relations in a communication context; learning about educational leadership responsibilities relative to planning in public relations; setting goals and developing strategies, working with the media, responding to crisis, collecting and analyzing decision-oriented data, public relations in a funding campaign, and evaluating public relations programs.

ED-620. EDUCATIONAL INSTITUTIONS AND SYSTEMS
Credits: 3
This course will focus on historic foundations, institutional structures, long-standing debates, and challenges related to American Education, including pre-K-12, 2-yr institutions, public and private 4-yr. institutions, and for-profit schools. Governance, funding, and mission, and current issues will be examined. Required for Leadership Studies concentration.

ED-623. EDUCATIONAL TECHNOLOGY LEADERSHIP
Credits: 3
This course will focus on how to organize and provide leadership in instructional technology programs, facilities and resource management, including technological in-service training programs. This course will also include the laws and regulations that govern the selection and utilization of media, sources for funding, and collaboration on development of a grant proposal. Required for K-12 Administration and Educational Technology specialization.

ED-625. PROFESSIONAL DEVELOPMENT & SUPERVISION
Credits: 3
This course concentrates on the development and supervision of faculty and staff. A range of models of supervision that can be applied in all educational institutions, such as clinical and differentiated supervision, will be examined for their effectiveness in improving instructional performance. Case studies will be utilized to gain understanding of supervision and evaluation processes. The management and design of induction and professional development programs will be analyzed. The laws and policies that govern these programs, as well as employee rights and termination procedures, will be studied. Required for Ed.D. program/K-12 Administration specialization.

ED-626. POLITICS AND POLICY FOR EDUCATIONAL LEADERS
Credits: 3
This course will explore the roles of public policy and politics in education at the federal, state, and local levels. Students will examine policy models, frameworks, and processes as they relate to policy issues in the k-12 and higher education arenas. A second major area of focus will be the political forces that influence and shape decision-making processes, reform efforts, and community relations.

ED-627. ADVANCED ISSUES IN EDUCATIONAL LAW
Credits: 3
This course will focus on the most current laws at both the state and federal levels and their impact on the operation of educational institutions for leaders. Both state and federal statutes will be examined with a focus on accurate analysis and interpretation of the law through case reviews. Law, legislation and court decisions that may impact the rights and responsibilities of faculty, students and parents will be studied and analyzed. The course is structured to assist educational leaders in acquiring the knowledge and skills necessary to ensure that the management of their educational institution through adherence to the law produces a safe, efficient and effective learning environment for all students. Required for Ed.D. program/K-12 Administration, Curriculum and Instruction, and Higher Education Administration specializations.

ED-628. HUMAN RESOURCE DEVELOPMENT AND LABOR NEGOTIATIONS
Credits: 3
This course examines the influences of major theories of personnel leadership on public and private education. Students will learn about the use of resource management, including labor laws, labor negotiation protocols, recruitment, personnel assistance and development, and evaluation procedures. Also, students will learn to develop and implement professional development programs that reflect teacher/faculty development research and strategies that include technology utilization, simulations of various HRD functions such as labor negotiations focusing on differing perspectives that impinge on the process of creating agreement, living with the agreement, and seeking a successor agreement. Required for Ed.D. program/K-12 Administration and Higher Education Administration specializations.

ED-629. STRATEGIC PLANNING FOR PUBLIC AND NON-PROFIT ORGANIZATIONS
Credits: 3
Students will learn about a variety of planning models, including the Pennsylvania Department of Education's Strategic Planning Model and the Strategy Change Cycle - a proven planning process used by a large number of organizations throughout the United States. Students will be provided detailed guidance on implementing the planning process and will acquire specific knowledge and skills to make the planning process work successfully in any organization. In addition, new information will be provided to students on creating public value, stakeholder analysis, strategy mapping, balanced scorecards, and collaboration. Finally, case study analysis and field assignments will serve as important component in this course. Required for Ed.D. program/K-12 Administration and Higher Education Administration specializations.
ED-632. COGNITION AND LEARNING
Credits: 3
This course covers the fundamentals of perception, memory, thinking, and emotion that collectively comprise human learning. This foundation of learning is what instruction, administration, and technology must support to promote student achievement. The last twenty-five years of brain research into learning styles, motivation, and learning science will be used to deduce sound learning and teaching practices.

ED-633. MEDIA DESIGN FOR INSTRUCTION
Credits: 3
This course will explore design and production of instructional materials using text, video, audio and photographic formats for use in both distance learning and traditional classrooms instruction. Required for Educational Technology specialization.

ED-635. INTEGRATING TECHNOLOGY FOR DIVERSE LEARNERS
Credits: 3
The course will examine best practices for integrating technology into curricular planning and present models of instructional design for all learners. Required for Educational Technology specialization.

ED-637. SYSTEMS INFRASTRUCTURE & MANAGEMENT
Credits: 3
Students will explore the design of present-day technology infrastructures. Topics include computer hardware, telecommunications, networking and general operating systems. Required for Pennsylvania Instructional Technology Specialist certification.

ED-638. INFORMATION SECURITY
Credits: 3
This course will cover the principles of information security, within the educational environment, the foundations of information security, and the principles on which managerial strategy can be formulated and the technical solutions available to technology coordinators. Required for Pennsylvania Instructional Technology Specialist certification.

Pre-Requisites
ED-637 Systems Infrastructure & Management.

ED-639. INTERNSHIP IN EDUCATION TECHNOLOGY LEADERSHIP
Credits: 3
This course is tailored to meet the needs of students who will work as leaders in technology within educational institutions. The internship is designed to provide experience in the completion of identified tasks related to technology under the guidance of a mentoring administrator. A Leadership Competency Portfolio and internship will provide evidence of the leadership competencies attained.

Pre-Requisites
Completion of the Ed.D. Leadership core and Educational technology courses with the exception of 639. Department permission required.

ED-640. INSTRUCTIONAL DESIGN AND DEVELOPMENT
Credits: 3
In this course students will analyze various theories of instructional design through research and application. Required for Educational Technology specialization.

ED-643. TRENDS AND INNOVATION IN INSTRUCTIONAL TECHNOLOGY
Credits: 3
This course will explore the present trends and future vision of technology as influenced by its foundations. Factors that are likely to influence the future of the instructional technology will be explored, such as distance education and virtual environments. Required for Educational Technology specialization.

ED-644. GRAPHIC DESIGN FOR INSTRUCTION
Credits: 3
This course will focus on the design and production of instructional computer graphics and graphic presentations. Professional, design software will be used for creative and efficient layout, editing, processing and file handling. Fundamental layout organization through the use of grid with emphasis on color, fonts and simple drawing techniques will be incorporated into the course. The value of communication and information design with graphics in the learning process will be presented.

ED-645. TECHNOLOGY SUPPORTED ASSESSMENT
Credits: 3
Students will research and explore traditional methods of educational assessment and consider ways technology can be used to augment assessment to enhance best practices for teaching and learning.

ED-646. ADAPTIVE AND ASSISTIVE TECHNOLOGY IN EDUCATION
Credits: 3
This course will provide an awareness of contemporary adaptive and assistive technologies for students with disabilities in an inclusive setting. Students will explore technology to support the needs of English Language Learners and the acquisition of a second language for all learners. Required for Educational Technology specialization.

ED-647. WEB DESIGN AND DEVELOPMENT FOR LEARNING
Credits: 3
Students will apply the tools and skills of competent designers as they construct web-based learning activities. Topics such as creative applications and project-based learning will be explored. Required for the Educational Technology specialization.

ED-650. CURRICULUM,/Instruction AND ASSESSMENT
Credits: 3
This course will examine cognitive theories of learning for all learners, with a particular focus on research-based practices in instruction for diverse learners in contemporary school settings. Educational leaders will gain a strong background in differentiated modes of instruction, along with the coaching skills needed to work with instructors as they strive to improve and expand their pedagogy to enhance student learning. Current methods of curriculum and program design, development and evaluation will be studied. Implications for supporting and sustaining high-quality instruction and learning will be addressed through the relationships and importance of coherence among curriculum, instruction, and assessment. Required for Ed.D. program/K-12 Administration specialization.
ED-652. SPECIAL EDUCATION ADMINISTRATION  
Credits: 3
The content of this course is composed of professional problems; standards and procedures; the history of special education, special education philosophy, legal provisions, rules and regulations; major developments and trends at federal, state and local levels; services of other organizations and agencies. Required for Ed.D. program/K-12 Administration specialization.

ED-654. SCHOOL FINANCE AND FACILITIES ADMINISTRATION  
Credits: 3
The content of this course centers on administrative functions related to the management of school finance and facilities in educational institutions. Topics covered are budget planning related to facilities management, as well as resource allocation and scheduling to maximize the use of school facilities; school finance related to sources of revenue for capital projects and the impact of these projects on the allocation of resources, scheduling of programs, and use of personnel will be studied. Additional topics include management techniques, strategic planning approaches, building assessment, energy issues, technology in schools, community development and contract management. Required for Ed.D. program/K-12 Administration specialization.

ED-658. ADVANCED STUDIES IN SCHOOL DISTRICT LEADERSHIP  
Credits: 3
This course will prepare future school district leaders for complex situations and specialized functions that are performed as part of district oversight in the central office. Students will review their prior coursework in K-12 Administration by compiling and informally assessing their Leadership Competency Portfolio, and determine the focus areas to begin the superintendent internship.

Pre-Requisites
Completion of Ed.D. Leadership core and K-12 School Administration courses with the exception of ED-659. Department permission required.

ED-659. SUPERINTENDENT INTERNSHIP (90 HOURS)  
Credits: 3
This course will prepare future school district leaders for complex situations and specialized functions that are performed as part of district-wide oversight in the central office. Students will continue the superintendent internship, review prior learning in K-12 administration using the Leadership Competency Portfolio, and implement and complete the internship project.

Pre-Requisites
Completion of Ed.D. Leadership core and all K-12 School Administration courses. Department permission required.

ED-660. HIGHER EDUCATION INSTITUTIONS AND ADULT LEARNERS  
Credits: 3
This course engages doctoral students in an investigation of the history and development of higher education institutions, with emphasis on the adult learners who attend them. Included in this course is a comparative study of the philosophies, objectives and functions of various types of higher education institutions and the adult learning population in contemporary colleges and universities. The various settings in which adults learn and the variety of objectives adults have for learning are also studied. Required for Ed.D. program/Higher Education Administration specialization.

ED-662. FACULTY AND ACADEMIC GOVERNANCE IN HIGHER EDUCATION  
Credits: 3
The purpose of this course is to provide an intensive introduction to the organization and governance of American colleges and universities. It is designed to familiarize students with the faculty, academic and administrative contexts and organizational cultures within which they may work. The focus of study will include both individuals and groups (organizational behavior) and organizations themselves (organizational theory). Required for Ed.D. program/Higher Education Administration specialization.

ED-663. FACULTY DEVELOPMENT & CURRICULUM MANAGEMENT  
Credits: 3
Three creditsThis course will focus on faculty development related to scholarship, teaching, and service. The relationship between faculty development and curriculum, instruction, and assessment will be examined. Topics related to curriculum management will include syllabus development and program design, instructional delivery models, and assessment at the program and institutional levels, as well as the relationship of assessment to accreditation. Required for Ed.D. program/Higher Education Administration specialization.

ED-664. FINANCIAL MANAGEMENT IN HIGHER EDUCATION  
Credits: 3
The purpose of this course is to expose students to both theoretical and applied concepts of higher education financial management concepts and practices. Emphasis will be placed on developing familiarity with the financial terminology and competencies that are necessary for successful administrative performance within a higher education institution. Upon completion of the course, students should possess a greater understanding of the subject matter and inherent issues of higher education financial management. Required for Ed.D. program/Higher Education Administration specialization.

ED-665. INSTITUTIONAL ADVANCEMENT IN HIGHER EDUCATION  
Credits: 3
This course enables doctoral students to refine the knowledge, skills and dispositions needed to plan and execute sound and innovative approaches to advance the institution’s mission by increasing private and public financial support, promoting awareness of the institution to key publics, and involving constituents in the life of the institution. Students will be involved in problem solving and decision-making related to institutional advancement. Traditional and evolving sources of financial support will be examined with an emphasis on grant writing. Required for Ed.D. program/Higher Education Administration major.

ED-668. STUDENT SERVICES AND ENROLLMENT MANAGEMENT IN HIGHER EDUCATION  
Credits: 3
This course examines the comprehensive nature of student affairs as a vital component in the evolving learner-centered environments of higher education. Theory and effective practice are used to guide the discussion, investigate the issues, and generate solutions. Students investigate and seek potential solutions to authentic problems facing leaders in student affairs, such as those concerning student enrollment management, student diversity, student induction, advising and counseling, placement testing, career development, residential life, food services, health services, student activities, Greek organizations, athletics, security and discipline. Required for Ed.D. program/Higher Education Administration specialization.
ED-669. INTERNSHIP IN HIGHER EDUCATION ADMINISTRATION (90 HOURS)
Credits: 3
This internship is tailored to address the leadership needs and goals of students in higher education administration. It is designed to provide experience in the completion of identified administrative tasks within an institution of higher education under the guidance of a mentoring administrator. A Leadership Competency Portfolio and internship project will provide evidence of the leadership competencies attained.

Pre-Requisites
Completion of the Ed.D. Leadership core and Higher Education Administration courses. Department permission required.

ED-670. CURRICULUM THEORY
Credits: 3
This course will focus on the theory of curriculum and its philosophical and historical foundations and the ideologies that influence and shape curriculum, governance, control, and macro and micro perspectives of curriculum will be examined.

ED-671. MEASUREMENT AND ASSESSMENT
Credits: 3
This course provides an introduction to issues in educational measurement and assessment with an emphasis on applications in both k-12 and higher education settings. Topics include: types of assessments including standardized tests; portfolios, performance tasks; computer adaptive tests; test development; item writing and analysis; test administration; evaluating tests and items including reliability and validity; and interpreting test results.

ED-672. CURRICULUM DESIGN AND INSTRUCTIONAL MODELS
Credits: 3
This course will engage students in the practical aspects of curriculum design and implementation, its evaluation, and the alignment of curriculum, instruction, and assessment, instructional models appropriate to addressing the needs of diverse learners in varied learning environments and delivery formats will be examined.

Pre-Requisites
ED-670 and ED-671

ED-673. CONTROVERSIES IN CURRICULUM, INSTRUCTION, AND ASSESSMENT
Credits: 3
This course explores the varying attitudes and beliefs of teaching, learning, and assessment as they relate to present-day curricular controversies. Students will analyze the cultural and social contexts of early childhood education, k-12 schooling, and post-secondary schooling. Specific emphasis will be given to the relevant salience of class, race, age, and gender as they relate to the study of everyday inequities in pre-k-20 education.

ED-679. INTERNSHIP IN CURRICULUM AND INSTRUCTION
Credits: 3
This course is tailored to meet the needs of students who will work as leaders in curriculum and instruction within educational institutions. The internship is designed to provide experience in the completion of identified tasks related to curriculum and instruction under the guidance of a mentoring administrator. A leadership competency portfolio and internship project will provide evidence of the leadership competencies attained.

Pre-Requisites
Completion of the Ed.D. leadership core and curriculum instruction courses/department permission required.

ED-681. INTRODUCTION TO EDUCATIONAL RESEARCH
Credits: 3
This course is designed to provide foundational knowledge of quantitative and qualitative research methodologies and to develop skills in reading and evaluating the quality of research. Focus is placed on research design factors such as sampling, validity, reliability, statistical methods, and ethical safeguards. Required to be taken in the first year of the Ed.D. program.

ED-682. QUANTITATIVE METHODS FOR EDUCATIONAL RESEARCH I
Credits: 3
This introductory quantitative methods course will provide students with a fundamental understanding of the types of quantitative designs and statistical techniques used in education research. The course will use hands-on activities and emphasize the interpretation of data. Statistical software is used throughout the course.

Pre-Requisites
ED-681 Introduction to Educational Research.

ED-683. QUALITATIVE METHODS IN EDUCATIONAL RESEARCH I
Credits: 3
This course will provide students with a foundational knowledge of qualitative research focusing on designs and methodologies, theoretical and interpretive frameworks, ethical considerations, standards of validation, and introductory data collection, analysis, and reporting.

Pre-Requisites
ED-681 Introduction to Educational Research.

ED-684. SPECIAL TOPICS IN EDUCATIONAL RESEARCH
Credits: 1-3
This is a one to three credit hour course open to students in the doctoral program in Educational Leadership, but specifically for those who have a background in educational research. Topics are designed to further student's understanding of educational research and can include topics like survey design and analysis, mixed method approaches, qualitative data analysis, or an in-depth look at a particular method of research. Prerequisites: ED-681, ED-682 or equivalent, ED-683 or equivalent. Department permission required.

Pre-Requisites
ED-681, ED-682 or equivalent, ED-683 or equivalent. Department permission required.
Course Descriptions

ED-685. QUANTITATIVE METHODS FOR EDUCATIONAL RESEARCH II
Credits: 3
This second-level quantitative methods course will provide students with the knowledge and skills necessary for using a variety of statistical methods in the analysis of educational research. This course covers advanced topics in quantitative research designs and statistical techniques. Statistical software is used throughout the course.

Pre-Requisites
ED-681 and ED-682. Department permission required.

ED-686. QUALITATIVE METHODS IN EDUCATIONAL RESEARCH II
Credits: 3
This course is intended for students interested in pursuing qualitative research. It is designed to provide students with an in-depth understanding of qualitative designs and methodologies as well as practice applying these designs and methodologies in original research. Through this course, students will build on the knowledge and skills learned in ED-683, with an increased focus on data collection, analysis, and reporting.

Pre-Requisites
ED-681 and ED-683. Department permission required.

ED-697. DISSERTATION PROPOSAL SEMINAR
Credits: 3
Doctoral students are required to register for 3 credits of dissertation proposal each semester until the proposal is successfully defended and meets all departmental requirements, at which time 3 credits will be awarded.

Pre-Requisites
Acceptance into the Ed.D. Program and successful completion of doctoral core and major coursework. Department permission required.

ED-698. DISSERTATION PROPOSAL
Credits: 3
Doctoral students are required to register for 3 credits of dissertation proposal each semester until the proposal is successfully defended and meets all departmental requirements, at which time 3 credits will be awarded.

Pre-Requisites

ED-699. DISSERTATION
Credits: 3
Doctoral students are required to register for 3 credits of dissertation each semester until the dissertation is successfully defended and meets all departmental requirements, at which time 3 credits will be awarded.

Pre-Requisites
Successful completion of the proposal defense in 698. Department permission required.

ED-5020. USING ONLINE RESOURCES TO BRING PRIMARY SOURCES TO THE CLASSROOM
Credits: 3
Students will learn how to access and analyze primary sources, explore classroom applications, and develop authentic, engaging learning experiences for students. The course will enable students to discover how digital primary source archives can enhance and improve student learning.

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ED-5024. EDUCATING THE NET-GENERATION
Credits: 3
Students will explore the learning styles, expectations, and technical acumen of the Net-Generation and identify this generation’s key educational and cultural influences then create pedagogy which meets their needs. Students will apply innovative techniques that today’s generation values, including advances in technology, a team approach, and social networking.

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ED-5030. INSTRUCTIONAL DESIGN FOR ONLINE EDUCATORS ™ (PLS)
Credits: 3
Students will explore instructional design theories and approaches in the e-learning environment in order to understand the basics of instructional design and philosophies of e-learning, as well as gain experience with online delivery and interaction techniques and tools. (Previously titled ED 5002 Instructional Design for Online Educators)

ED-5031. FACILITATING ONLINE LEARNING COMMUNITIES ™ (PLS)
Credits: 3
Students will experience the strategies and best practices of successful online facilitation in order to engage diverse learners, support various learning styles, and handle conflict constructively. This course will focus on the practice of skills necessary to nurture a successful online learning community, manage myriad facilitator roles, and communicate positively and effectively. (Previously titled ED 5003 Facilitating Online Learning Communities)
ED-5032. ONLINE TEACHING FOR PENNSYLVANIA EDUCATORS (WILKES)
Credits: 3
Students will complete required field experience for the PDE Online Instruction Endorsement as they explore topics focused on the professional responsibilities, effectiveness, and competencies for Pennsylvania’s online teachers. Special consideration will be given to the social and ethical issues in online teaching and learning. Required for PA Online Instruction Endorsement. 20 hours field experience.

ED-5033. SOCIAL AND ETHICAL ISSUES IN ONLINE LEARNING (WILKES)
Credits: 3
This course will lead students through the historical development of online education and the associated ethical and social issues that have accompanied it. Students will examine issues from multiple perspectives and formulate position statements that can be translated into policy and practice in educational settings. (Previously titled ED 5001 Social & Ethical Issues in Distance Learning)

ED-5034. ACTION RESEARCH IN THE E-LEARNING ENVIRONMENT ™ (PLS)
Credits: 3
Students will employ online data collection techniques, interpret the data to affect change in the online classroom, and develop a research plan that integrates and makes effective use of e-learning technology. (Previously titled ED 5004 Action Research in the E-Learning Environment)

ED-5035. BLENDED AND SYNCHRONOUS LEARNING DESIGN™ (PLS)
Credits: 3
This course focuses on two different formats for online learning environments: blended and synchronous. Students will define these environments, understand the development process each one requires, and conclude with considerations for implementing each. (Previously titled ED 5021 Blended and Synchronous Learning Environments)

ED-5036. BUILDING ONLINE COLLABORATIVE ENVIRONMENTS™ (PLS)
Credits: 3
Students will experience the Web as a means of constructing new knowledge through conversation, networking, and collaboration. This course focuses on currently-available tools, such as blogs, podcasts, and wikis, and their utilization for learner engagement in research, writing, and learning. (Previously titled ED 5023 Building Online Collaborative Environments)

ED-5037. DEVELOPING ONLINE PROGRAMS (WILKES)
Credits: 3
This course will examine the critical resources, leadership, support, and planning needed to develop and sustain quality online programs.

ED-5038. TEACHING AND LEARNING IN THE ONLINE LEARNING ENVIRONMENT (WILKES)
Credits: 3
This culminating course is designed to examine the competencies that drive online teaching and learning. Students will explore ways that pedagogy and technology innovation intersect to drive change in education and create learning opportunities for all students.

ED-5080. TECHNOLOGY FOR ASSESSMENT & ADAPTATION
Credits: 3
Technology for Assessment & Adaptation is designed to provide Instructional Technology Specialists with an understanding of how technology supports various types of educational assessments and the purpose of assessment in the decision-making process. In addition, this course will provide students with an understanding of the multi-disciplinary evaluation process and ability to articulate and analyze the findings presented in an evaluation report.

ED-5081. TECHNOLOGY TO SUPPORT ALL LEARNERS
Credits: 3
Technology to Support All Learners is designed to provide Instructional Technology Specialists with an understanding of the varied characteristics of learners with disabilities and identify appropriate instructional strategies and resources to support diverse learners to achieve success within the school culture.

ED-5082. TECHNOLOGY TO SUPPORT CURRICULUM & INSTRUCTION
Credits: 3
Technology to Support Curriculum and Instruction is designed to provide Instructional Technology Specialists with the ability to identify instructional technology resources to support diverse learners. The course focuses on specific exceptionalities and requires students to use quantitative reasoning strategies to analyze data and draw conclusions using various forms of school-wide and district-wide data.

ED-5083. COMMON CORE STANDARDS IN PRACTICE
Credits: 3
The Common Core State Standards (CCSS), released in 2010 and adopted by the majority of states, clearly delineate the learning expectations for k-12 students. With the goal of college and career readiness, the CCSS have strong implications for curriculum, assessment, and instruction. This course provides an in-depth examination of their rationale, design, and impact on teaching and learning of all students. Research and practical application will be provided to guide effective implementation of the CCSS in English/ Language Arts and Math.
Course Descriptions

**ED-5401. COLLABORATIVE INQUIRY FOR STUDENTS: PREPARING MINDS FOR THE FUTURE**
**Credits:** 3
This course provides educators with research-based strategies for designing and implementing collaborative inquiry for students. Collaborative inquiry fosters the skills students need now and in the future to develop a deeper understanding and mastery of content knowledge and skills. Participants will experience and evaluate the collaborative inquiry models of problem-based learning, hypothesis-based learning, project-based learning, Appreciative Inquiry, performance-based learning, and live-event learning. Participants will identify desired results and acceptable evidence by developing standards-based essential questions, topic questions, and assessments. Participants explore the role of the facilitative leader as they learn strategies for teaching collaboration and designing collaborative inquiry experiences.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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**ED-5402. CULTURAL COMPETENCE: A TRANSFORMATIVE JOURNEY**
**Credits:** 3
This course equips experienced and beginning educators with the knowledge, awareness, and skills they need to work in today's diverse classroom settings for the goal of student success. Participants will have opportunities to critically examine how privilege and power impact educational outcomes and to understand the role of educators as agents of change for social justice. Learners will use the framework "know yourself, your students, and your practice" to better understand their roles in student achievement. By exploring diversity through multiple perspectives, participants will gain insight into how their own cultural lenses impact their relationships with students and families.

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**ED-5403. STUDENT ENGAGEMENT AND STANDARDS-BASED LEARNING**
**Credits:** 3
This course explores high-impact learning activities designed to help teachers optimize student learning. Participants will use standards as a basis for designing learning activities, assessments, and scoring guides and will prioritize learning based on curriculum. Using alignment criteria and the POINT design components, participants will evaluate, modify, expand, and design standards-based learning activities in order to maximize student learning, engagement, and achievement. A variety of learning activities aligned to standards and the QFL Process Skills are featured in this course as participants learn to address the needs of 21st century learners and foster progress toward deeper retention and transfer of learning.

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**ED-5404. STRATEGIES FOR THE INCLUSIVE CLASSROOM**
**Credits:** 3
This course provides educators with research-based strategies for designing and implementing collaborative inquiry for students. Collaborative inquiry fosters the skills students need now and in the future to develop a deeper understanding and mastery of content knowledge and skills. Participants will experience and evaluate the collaborative inquiry models of problem-based learning, hypothesis-based learning, project-based learning, Appreciative Inquiry, performance-based learning, and live-event learning. Participants will identify desired results and acceptable evidence by developing standards-based essential questions, topic questions, and assessments. Participants explore the role of the facilitative leader as they learn strategies for teaching collaboration and designing collaborative inquiry experiences.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5405 were developed by educators at PLS 3rd Learning. The coursework is tightly structured, utilizing programmed learning with integrated audio-visual materials. Students conduct research in their own classrooms and report regularly on their success in employing strategies taught. Instructors for these courses receive special training prior to assignment. To register and pay tuition for these PLS 3rd Learning courses only, contact the PLS 3rd Learning office directly @ 1-866-757-2527 or visit www.plsweb.com.

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EDAM-5001. EARLY LITERACY: GUIDING PRINCIPLES AND LANGUAGE DEVELOPMENT
Credits: 3
This course is the prerequisite for all other courses in the Early Childhood Literacy program. It outlines the philosophical base for the program as well as key understandings central to young children’s early literacy development. Course topics will include guiding principles for developing children’s early literacy skills, language development stages, theories of language acquisition, linguistic diversity, language assessment, communicative disorders, and school-home connection.

EDAM-5002. WORD STUDY
Credits: 3
This course examines the instructional building blocks of successful reading skills. Educators will explore developmentally appropriate instructional and assessment methods for teaching children how to recognize word patterns so they can become accurate readers.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5003. FLUENCY AND VOCABULARY DEVELOPMENT
Credits: 3
This course presents effective, developmentally appropriate methods for building students’ oral reading fluency and vocabulary skills to improve overall comprehension.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5004. DEVELOPING COMPREHENSION, PART I
Credits: 3
This course presents an introduction to comprehension instruction as a key component of effective reading instruction. The course focuses on helping students apply their understanding of structure and elements of text and genres to create meaning as they are reading. Educators will integrate developmentally appropriate practices to adapt instruction that meets the diverse needs of learners.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5005. DEVELOPING COMPREHENSION, PART II
Credits: 3
This course explores the development and assessment of students' coordinated use of comprehension strategies to make sense of text. Educators will learn how to effectively model developmentally appropriate comprehension text strategies for students.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development, EDAM-5004 Developing Comprehension Part I

EDAM-5006. DEVELOPING COMPREHENSION, PART II (2-3)
Credits: 3
The course begins with a review of the core beliefs about teaching and learning, the Guiding Principles, and the Gradual Release of Responsibility Model. The learner will review what comprehension is and why it should be studied. This will be followed by modeling of comprehension strategies used individually. The learner will also examine tools to support comprehension instruction strategies. Next, the learner will examine techniques known as interactive read alouds/think alouds and shared reading and see modeling of comprehension strategies used with these techniques. Finally, the course will show how comprehension can be assessed.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development, EDAM-5004 Developing Comprehension Part I

EDAM-5007. DIFFERENTIATED SMALL GROUP INSTRUCTION
Credits: 3
This course focuses on implementing developmentally appropriate differentiated small group instruction to meet the needs of all learners. Course topics include components of differentiated instruction and using assessment data to group students.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development
EDAM-5008. DIFFERENTIATED SMALL GROUP INSTRUCTION (2-3)
Credits: 3
The course begins with a review of the core beliefs about teaching and learning, the Guiding Principles and the Gradual Release of Responsibility Model. The course covers what differentiated small group instruction is, why it is used, and how the Guiding Principles apply to it. This will be followed by considering the developmental stages of learning to read and the teaching emphasis at each stage. The course will then cover how to use assessment data to group and regroup students for differentiated instruction. Then, the learner will consider differentiated systematic and explicit instruction and learn what the lesson components are, how to plan the lesson, and how to manage the classroom. Finally, the course will cover how to create a partnership with parents and how to communicate with them.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5009. DEVELOPING INDEPENDENT READERS
Credits: 3
This course examines methods for fostering and managing independent reading in a developmentally appropriate way, and explores research-based school/home/community partnerships.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5010. CONNECTING READING AND WRITING
Credits: 3
This course explores the reciprocal processes of reading and writing as well as the strategies for helping students become strategic writers who are able to write to learn and write to demonstrate learning. Course topics include the writing process, strategies and assessments, genres of writing, writing across the curriculum, and developmentally appropriate instructional procedures.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5011. CONNECTING READING AND WRITING (2-3)
Credits: 3
In this course, learners will understand how the reciprocal processes of connecting reading and writing accelerate student learning in both areas. This course will provide the research, the continuum of development, and resources for instructional techniques, assessment and record keeping. The learner will apply learned concepts and focus on student achievement.

Pre-Requisites
EDAM-5001 Early Literacy Guiding Principles and Language Development

EDAM-5012. DEVELOPING A RESULTS-DRIVEN EARLY LITERACY CLASSROOM
Credits: 6

Pre-Requisites
EDAM-5001, EDAM-5002, EDAM-5003, EDAM-5004, EDAM-5005, EDAM-5007, EDAM-5009, EDAM-5010, EDAM-5013

EDAM-5013. TEACHER LEADERSHIP
Credits: 3
Teacher leaders are agents of change. This course guides educators in facilitating change at their schools by exploring school culture and experiencing the power of reflective practice.

Pre-Requisites
None

EDAM-5020. INSTRUCTIONAL COACHING I
Credits: 3
Instructional Coaching I defines instructional coaching and provides depth on initial coaching strategies used by new coaches as they develop their role within a school.

Pre-Requisites
EDAM-5013 Teacher Leadership

EDAM-5021. INSTRUCTIONAL COACHING II
Credits: 3
Instructional Coaching II provides additional coaching strategies used after the role has been established and provides depth on evaluating program success using student assessment results.

Pre-Requisites
EDAM-5020 Instructional Coaching I

EDAM-5022. PROBLEM-BASED APPROACH TO INSTRUCTIONAL COACHING
Credits: 3
This is a comprehensive instructional coaching course designed to address a range of grade levels and content areas. It provides examples through a case study approach of dealing with content areas and grade levels that span K-12 and are unique to specific certification areas and the teaching dilemmas and situations that are encountered when coaching K-12 teachers. Issues arising with special education, racial and socio-economic diversity are also addressed.

Pre-Requisites
EDAM-5013 Teacher Leadership

EDAM-5023. PROBLEM-BASED APPROACH TO K-3 LITERACY COACHING
Credits: 3
This course is specific to the intended content area. It provides specific examples through case study approach of dealing with both the content area and grade range unique to the intended certification and the teaching dilemmas and situations that are encountered when coaching teachers. Issues arising with special education, racial and socio-economic diversity are also addressed.

Pre-Requisites
EDAM-5013 Teacher Leadership
EDAM-5030. TEACHING IN THE 21ST CENTURY  
Credits: 3  
This course lays the foundation by answering the question, ‘Why do I need to change my instruction?’ Through this course, many learners will understand that student disinterest and poor achievement can be linked to the use of 20th century teaching strategies being used on 21st century minds. This course will allow learners to reflect on their current instruction in light of what 21st century students need. It will provide a systems view of what needs to change in the classroom and in the school system. The online learner will assess these needs and be introduced to the pedagogical strategies used, including inquiry, project-based learning, and differentiated instruction. Prerequisite course to all other courses in the MS in 21st Century Teaching & Learning.

EDAM-5031. ACTION RESEARCH FOR EDUCATIONAL CHANGE  
Credits: 3  
Action research is applied research educators can do within the school to improve practice, from instruction to learning. Knowledge and skill will be in designing action research, using both qualitative and quantitative data collection methods, to inform and improve practice.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5032. USING ASSESSMENT TO GUIDE INSTRUCTION  
Credits: 3  
Using data-driven instruction to guide teaching and learning is critical in the attainment of student learning outcomes. Educators will learn to use assessments to plan, modify, and differentiate instruction, as well as to assess mastery of content and academic standards through the selection of appropriate content and the design of varied assessments to lead to the interpretation and application of data from multiple assessment sources. (cross-listed with ED-520).  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5033. DEVELOPING READING & WRITING ACROSS THE CURRICULUM  
Credits: 3  
The attainment of higher levels of literacy in adolescent learners requires the development of literacy skills across all curricular areas. This course will enable educators to develop and refine secondary students’ skills in reading and writing, as well as speaking and listening through the design of integrative experiences in content area instruction that are both student-centered and performance-based.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5034. APPLYING ADVANCED TECHNOLOGY TO SUPPORT STANDARDS-BASED INSTRUCTION  
Credits: 3  
This course introduces students to advanced instructional technologies, currently available to educators, and the ways they can be used to support standards-based instruction. Ubiquitous use of technology will be emphasized to create enriched, motivating and authentic learning experiences for students.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5035. TEACHING AUTHENTIC CONTENT IN THE 21ST CENTURY  
Credits: 3  
This course shows teachers of specific subject areas how to provide an authentic experience or their students by using the previously learned methods to transform their teaching into having students engage in learning and activities as people actually would in the real world.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5036. DIFFERENTIATED INSTRUCTION TO MEET THE NEEDS OF ALL LEARNERS  
Credits: 3  
This course will explain how learners can determine the needs and learning styles of their students in order to differentiate instruction so that the needs and learning styles of students are met.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5037. INQUIRY-BASED LEARNING IN THE 21ST CENTURY  
Credits: 3  
This course explains that inquiry-based learning helps students ‘learn how to learn’ through observation, reason, critical thinking, and the ability to justify or question knowledge. This course also allow learners to understand that inquiry-based learning helps students learn more by asking questions and doing investigations in order to learn, with the teacher acting more as a consultant.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5038. PROJECT-BASED LEARNING IN THE 21ST CENTURY  
Credits: 3  
This course will explain how project-based learning addresses learning though completing projects that foster skills in communication, collaboration, networking research using technology, and critical thinking.  
Pre-Requisites  
EDAM-5030 Teaching in the 21st Century

EDAM-5039. APPLYING 21ST CENTURY TEACHING TO EDUCATIONAL PRACTICE  
Credits: 3  
This capstone course requires secondary educators to transfer the knowledge and skills attained in this program to practice through authentic teaching and learning experiences. Projects that demonstrate the mastery of program goals and objectives will be planned, implemented, and reflected upon in a cumulative experience that enables educators to demonstrate their mastery of 21st century pedagogy.  
Pre-Requisites  
EDAM-5030, EDAM-5031, EDAM-5032, EDAM-5033, EDAM-5034, EDAM-5035, EDAM-5036, EDAM-5037, EDAM-5038
EDAM-5040. FOUNDATIONS OF THE ART AND SCIENCE OF TEACHING
Credits: 3
This course introduces learners to the work of Dr. Robert Marzano and his meta-analysis of the research regarding effective teaching practices conducted over the last 35 years in the field of education. Throughout this course learners will review research on effective teaching, develop a framework for designing units, and be introduced to a research-based observation and feedback protocol. This course will also lay the foundation for the core courses in this degree program by presenting learners with Dr. Marzano's 10 instructional design questions.

Pre-Requisites
None

EDAM-5041. ESTABLISHING LEARNING GOALS TO SUPPORT LEARNING & INSTRUCTIONAL DESIGN
Credits: 3
This course provides an in-depth exploration to the importance of learning goals that address various levels of cognitive processing. Learners in this course will develop learning goals to address high levels of learning for the students in their classroom. Additionally learners will facilitate the development of learning goals with their students.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5042. MONITORING & MEASURING STUDENT PROGRESS
Credits: 3
This course defines standards-based systems and standards-referenced systems. Learners in this course will differentiate between the two systems and develop a system for tracking student progress towards learning. Learners in this course will also use summative and formative assessments that will allow them to report student progress and measure student achievement.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5043. ACTIVELY PROCESSING NEW CONTENT
Credits: 3
This course focuses on developing a comprehensive approach to introducing new content, which will provide learners with the tools to support student construction of meaning through active interaction with content. Learners in this course will acquire the skills needed to introduce new knowledge through critical input experiences using active processing strategies that will allow students in their classroom to achieve their learning goals.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5044. EXTENDING STUDENT LEARNING
Credits: 3
In this course learners will gain the knowledge and skills needed to provide their students with opportunities to generate and test hypotheses by applying new information with relevant content. Learners in this course will engage in activities that apply evidence-based methods in the classroom for long-term retention of knowledge and use of content to move beyond levels of knowing.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5045. DESIGNING INSTRUCTION FOR STUDENT ENGAGEMENT
Credits: 3
This course examines research findings around theory and practice on student engagement. Learners in this course will be provided with methods to motivate and engage students in ways that enhance academic student performance.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5046. CREATING AN EFFECTIVE CLASSROOM ENVIRONMENT
Credits: 3
This course encourages learners to re-examine their current routines and procedures, how they are developed, maintained, and adjusted in order to support a positive classroom climate. Learners will focus on creating the conditions for effective relationships with their students through cooperation, concern, and empathy for students as well as appropriate levels of objectivity, guidance, and control.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching

EDAM-5047. DEVELOPING RELATIONSHIPS AND HIGH EXPECTATIONS FOR STUDENT LEARNING
Credits: 3
The teacher-student relationship provides foundational support for effective instruction. This course enables learners to examine the often hidden dynamic of personal beliefs and expectations and their impact on student achievement.

Pre-Requisites
EDAM-5040 Foundations of the Art & Science of Teaching
This six credit course engages learners in a formal action research project to determine the impact on student learning or specific instructional, curricular, and management strategies used in the classroom. Learners will reflect upon the knowledge acquired throughout the previous courses in the degree program to develop their practicum where they will apply theory and practice directly into their classroom.

**Pre-Requisites**

- EDAM-5040 Foundations of the Art & Science of Teaching;
- EDAM-5041 Establishing Learning Goals to Support Learning & Instructional Design;
- EDAM-5042 Monitoring & Measuring Student Progress; EDAM-5043 Actively Processing New Content; EDAM-5044 Extending Student Learning;
- EDAM-5045 Designing Instruction for Student Engagement; EDAM-5046 Creating an Effective Classroom Environment; EDAM-5047 Developing Relationships and High Expectations for Student Learning

**EDAM-5049. CONTENT LITERACY**

Credits: 3

The purpose of this course is to introduce research that supports the teaching of literacy across content areas. In addition, the course provides students the opportunity to engage in content literacy strategies, with emphases on comprehension, vocabulary development, and writing.

**EDAM-5060. FOUNDATIONS OF LITERACY AND LANGUAGE ACQUISITION**

Credits: 3

This course introduces the foundations of language and literacy acquisition focusing on the components of a comprehensive literacy program, early reading skills, and classroom environment. The learner will explore historical perspectives in reading instruction, the importance of developing early reading skills, and best practices for developing a classroom environment that fosters early literacy development. **Prerequisite for Reading Specialist program.**

**EDAM-5061. ASSESSING LITERACY**

Credits: 3

This course begins with an introduction to the basic elements of assessing literacy. Learners will explore several areas of assessment related to core competencies in literacy including emergent literacy, oral reading and fluency, comprehension and strategic knowledge, and determining affective factors. Throughout the course, learners will engage in hands-on activities enabling them to practice planning, administering, scoring, and interpreting a variety of literacy assessments. For the culminating activity, learners will select a student who has been struggling with reading using course assessment results to support their selection and develop a reading profile for this student.

**EDAM-5062. VOCABULARY AND COMPREHENSION DEVELOPMENT**

Credits: 3

This course focuses on using research-based strategies to develop vocabulary and comprehension. Learners will be introduced to the vocabulary-comprehension connection and how recognizing genre and literary and informational elements of text improves comprehension. During this course, the learner will practice selecting, implementing, and evaluating appropriate strategies for use with text comprehension instruction.
Course Descriptions

EDAM-5068. EMERGENT LITERACY
Credits: 3
This course provides an in-depth examination of reading development from birth to kindergarten as well as child development as it relates to emergent literacy. This course is based on the combination of the scientifically based reading research approach to literacy instruction as well as the emergent literacy perspective, which creates a “value-added” or blended approach to language and literacy teaching and learning. Research literature will be reviewed as it pertains to children’s literacy development and best practice instructional methodologies. Students will develop instruction based on the foundation of reading that includes oral language, phonemic and phonological awareness, as well as alphabet knowledge, vocabulary and comprehension.

EDAM-5069. DIAGNOSTIC ASSESSMENT & INTERVENTION IN LITERACY
Credits: 3
This course is designed to advance the knowledge of the participants to refine and expand the diagnostic and assessment process in determining reading difficulties and interventions. Research based strategies for the assessment and instruction of diverse learners will be examined.

EDIL. EDIL

EDIL-5001. VISION AND MISSION TO GUIDE INTERNATIONAL SCHOOLS
Credits: 3
Vision and Mission to Guide International Schools: This course enables participants to examine the importance of a school’s vision and mission and identify methods to create a vision and mission that provide guiding principles for school direction. Students will explore processes to implement the vision and mission within a school and recognize how it should be regularly reviewed for its success and/or continuing appropriateness.

EDIL-5002. LEADING FOR STAFF AND STUDENT LEARNING IN INTERNATIONAL SCHOOLS
Credits: 3
This course equips future international school leaders with the knowledge and skills to develop and implement appropriate curriculum across grade levels. Students will learn how to make strong instructional decisions that are based on data as various approaches are taken to meet students’ needs and support life-long learning.

EDIL-5003. GOVERNANCE IN INTERNATIONAL SCHOOLS
Credits: 3
This course equips students with the knowledge and skills to effectively govern a school board, as positive relationships are built with members, guidance in decision-making is provided, and each member is assisted to define their individual role and responsibilities. Participants will recognize the importance of a partnership that is exemplified by effective communication with the board in formal meetings, written reports, development plans, and professional dialogue. Participants will demonstrate their ability to successfully direct a board by creating an action plan.

EDIL-5004. INTERNATIONAL SCHOOL MANAGEMENT AND LEADERSHIP
Credits: 3
This course focuses on the many and varied responsibilities that a school leader takes on. These include that the mission and vision are clearly communicated to the school community and that they guide managerial and leadership decisions. Participants will demonstrate the importance of creating and maintaining systems and procedures through the use of technology to ensure the efficient and cost effective implementation of the educational program. Participants will identify a variety of leadership and management styles, explore examples of processes and procedures for school management, and investigate how to efficiently manage resources within a school.

EDIL-5005. BUILDING AND SUSTAINING A HEALTHY INTERNATIONAL SCHOOL CULTURE
Credits: 3
This course examines how school leaders can exercise effective cross-cultural communication to the wider school community and local communities as diversity is embraced and celebrated. Participants will learn how to promote cultural awareness as well as how to rectify conflicts and provide support while being sensitive to multi-national groups of students, families, and staff.

EDIL-5006. ETHICAL LEADERSHIP IN INTERNATIONAL SCHOOLS
Credits: 3
This course enables participants to examine how to exercise leadership practices and high-principled beliefs and values in the daily operations of a school. Participants will apply laws, regulations, and procedures wisely and deeply investigate the role of ethical leadership.

EDIL-5007. SITUATIONAL AWARENESS AND DIPLOMACY IN INTERNATIONAL SCHOOLS
Credits: 3
This course introduces students to the complexity of the legal and cultural situations within which they will be leading and managing. Participants will examine the importance of establishing a positive relationship with the school’s local community, as its beliefs and values are recognized.

EDIL-5008. CONTINUOUS PROFESSIONAL GROWTH FOR INTERNATIONAL SCHOOL LEADERS
Credits: 3
This course is designed to provide students with a mentor with whom they can engage in conversations, participate in a PLC, and work together to complete the required assignments for the digital portfolio.

EDIM. EDIM

EDIM-501. COGNITION & TECHNOLOGY: ALIGNING BRAIN BASED RESEARCH & TECHNOLOGY INTEGRATION
Credits: 3
This course provides in-depth study of the processes required for students to process information, including perception, attention, memory, encoding, retrieval, problem solving, and the information processing requirements of reading and writing. How brain-based theory can be incorporated in the classroom using technology will be covered.
EDIM-502. PROJECT BASED LEARNING  
Credits: 3  
This course will demonstrate to educators the benefits of project-based learning in the instructional environment. Strategies to transform learning into a more active, student-driven experience using technology tools for collaboration and connection to the world outside the traditional classroom will be explored.

EDIM-503. DIFFERENTIATION SUPPORTED BY TECHNOLOGY  
Credits: 3  
This course will provide educators with techniques for using technology to help create a stimulating, effective classroom for all students including English language learners, special education students and students with a variety of learning styles. Specific challenges and processes for managing a differentiated instructional setting with accommodations for alternative teaching, learning and assessment will be discussed and researched. Students will explore the use of various technological tools to differentiate assessment of students' understanding and learning by using various assessment strategies such as instructional rubrics, student reflections and portfolios. Using technology to manage ongoing assessment for diverse learners will be explored.

EDIM-504. DIGITAL STORYTELLING  
Credits: 3  
This course will demonstrate how audio, video, and interactive elements can complement and enhance classroom instruction. Students will understand the principles of digital storytelling and how this process can be used in the classroom. Students will develop storyboards and create rubrics for evaluating digital stories. Various software used for digital storytelling will also be explored.

EDIM-507. GLOBALIZATION AND ADVOCACY  
Credits: 3  
This course examines the impact globalization and technologies have on education and the need for educators to adapt to the changing needs of a global society. In addition, the importance of advocacy and how it can affect change will be examined.

EDIM-508. DIGITAL MEDIA IN THE CLASSROOM  
Credits: 3  
This course is designed to help educators integrate digital media tools with core academic content. Teachers will learn how to transform their classrooms into 21st century learning centers with cutting-edge, standards-based, and hands-on digital media projects that incorporate technologies like video on-demand from Discovery Education streaming, podcasting/vodcasting and shared-screen presentations. Imaginative ways to visualize ideas and concepts through the acquisition and manipulation of digital images will be explored.

EDIM-510. WEB 20: IMPACTING LEARNING ENVIRONMENTS  
Credits: 3  
Students learn the core concepts of Web 2.0 and how it is impacting learning environments. The course focuses on Web 2.0 technologies and how these tools are shaping education by allowing users to publish and interact in new and different ways. Topics include social networking technology and online collaborative tools such as blogs, wikis, etc.

EDIM-511. PORTABLE VIDEO PRODUCTION & APPLICATION  
Credits: 3  
This course provides a comprehensive introduction to the use of portable video recording and editing devices. Students will learn camera techniques and terminology. Applications for classroom integration will also be explored.

EDIM-513. INQUIRY BASED LEARNING  
Credits: 3  
Inquiry-based instruction is a powerful way for students to learn through active engagement with their environment. Teachers who engage in this form of instruction orchestrate a learning environment that allows students to develop deep understanding and enriched knowledge about selected topics. Inquiry should be one of the methodologies that teachers employ in meeting the challenges of today's academic expectations. We live in an era of rapidly expanding knowledge, which highlights the need for students to be lifelong learners. Inquiry skills support students' abilities to question and methodically investigate a wide range of subject matter. This course will explore Inquiry as a teaching technique, utilizing technology to support the various stages of the process.

EDIM-514. INTERNET TOOLS FOR TEACHING AND LEARNING  
Credits: 3  
The course will explore an array of powerful tools and standards-based resources that will help educators move their students to proficiency and beyond. Tools that make the development of high quality lesson-plans, assignments, writing prompts, quizzes, and surveys easier for educators will be presented. Topics will also include the exploration of resources like classroom uses of the high-speed data transfer provided by Internet2 and the educational opportunities of virtual field trips.

EDIM-515. BYOD: MOBILE DEVICES FOR TEACHING AND LEARNING  
Credits: 3  
This course will highlight significant ways that mobile devices can help to enhance and extend classroom learning. It will also address the unique challenges that schools face when adopting students' own devices as learning tools. Research and practical K-12 examples will be provided to support and address the many nuances of using mobile devices in the classroom. Previously titled BYOD: Mobile Learning in Education.

EDIM-516. SUSTAINING DIGITAL LITERACY  
Credits: 3  
This course will examine current issues and trends in educational technology. Topics will focus on skills pertinent to maintaining digital literacy, including use of communication and collaboration tools, analysis and digital curation of information, and evaluation of technological trends and associated pedagogy. Students will understand the importance of digital citizenship as it relates to the application of new technologies in the classroom environment and in education as a whole.
EDSP. SPECIAL EDUCATION

EDSP-501. SPECIAL EDUCATION METHODOLOGY I WITH FIELD EXPERIENCE
Credits: 3
This course addresses the development, implementation, and monitoring of individualized management, instructional, curricular, and environmental strategies and adaptations for students with special needs. Pedagogical recommendations and research based effective teaching practices are reinforced from prerequisite courses. Emphasis is placed on a needs based model incorporating the cognitive, language, attentional, affective, physical, and sensory needs of higher incident populations (learning disabilities, mild mental retardation, speech disorders, and behavioral challenges) within included settings, resource room, segregated and learning support environment. A 20 hour field experience component facilitates direct interaction with special needs learners, supplemented by cooperative discussions of experiential applications to course content.

EDSP-502. SPECIAL EDUCATION METHODOLOGY II WITH FIELD EXPERIENCE
Credits: 3
This course addresses the development, implementation, and monitoring of individualized management, instructional, curricular, and environmental strategies and adaptations for students with special needs. Pedagogical recommendations and research based effective teaching practices are reinforced from prerequisite courses. Emphasis is placed on a needs based model incorporating the cognitive, language, attentional, affective, physical, and sensory needs of lower incident populations (multiple disabilities, hearing/vision impairments, orthopedic and health conditions) within included settings, resource room, learning support, and segregated environments. A 20 hour field experience component facilitates direct interaction with special needs learners, supplemented by cooperative discussions of experiential applications to content.

EDSP-503. BEHAVIORAL MANAGEMENT WITH FIELD EXPERIENCE
Credits: 3
This course will assist preservice teachers in developing a working framework of social, behavioral, environmental, individualized, and collective management techniques. Techniques practiced in the course will focus on approaches for classroom organization, constructive discipline, and proactive responses to intervention, including applied behavior analysis and functional behavioral assessments. A 20 hour field experience component facilitates direct interaction with special needs learners, supplemented by cooperative discussions of experiential applications to course content.

EDSP-504. ASSESSMENT IN SPECIAL EDUCATION
Credits: 3
This course will provide direct experience with selecting, administering, and interpreting formal and informal assessment measures for analysis of student learning profiles. Assessments will include ecological inventories, norm-referenced, performance-based and curriculum-based testing standardized achievement and intelligence measures, and vocation/transition-related evaluations. Cooperative discussions will focus on instructional decision-making based upon student learning profiles.

EDSP-505. EFFECTIVE PRACTICES IN SPECIAL EDUCATION
Credits: 3
This course focuses on models of effective, research-based special education teaching practices in literacy and content areas as well as universal design and differentiation for students with diverse needs and disabilities in a variety of academic settings. Emphasis will be placed on language, literacy, technologies, and transition processes.

EDSP-506. INTERNSHIP IN SPECIAL EDUCATION
Credits: 3
This course is the culminating activity for the Special Education Certification program. In the course, candidates work with a special education certified teacher and their respective professor/supervisor as they experience opportunities to apply knowledge gained in the previous EDSP courses (EDSP 501, EDSP-502, EDSP-503, EDSP-504, and EDSP-505). The internship requires 100 hours/6 weeks including direct teaching, related meetings, preparation and paperwork as well as designated Wilkes class-time. Examples of activities students will be involved in include (but are not limited to): a needs assessment for special education students, experience with IEPs, construction of an instructional segment, delivery of instruction, parent and staff meetings, conducting classroom based assessments and identification of appropriate instructional materials. Note: The Internship must be taken as the final EDSP course or in conjunction with the final EDSP course.

ESL. ESL

ESL-501. APPROACHES TO TEACHING SECOND LANGUAGES
Credits: 3
This course will survey the field of methodology in second language teaching. Students will examine past and present second language learning and teaching experiences in a variety of contexts. The course does not promote any particular approach to second language teaching but rather presents an overview and examples of some approaches in the field of teaching second and foreign languages. Prerequisite course to all other ESL courses

ESL-502. LANGUAGE CONCEPTS FOR SECOND LANGUAGE LEARNING AND TEACHING
Credits: 3
This course introduces some instrumental concepts of linguistics, examining phonology, morphology, syntax, semantics, and discourse structure, with a focus on their importance to the teaching of foreign or second languages. Students will examine a wide range of concepts and discuss the many different approaches to the study of language, including those which stress the communicative and social aspect.

ESL-503. SECOND LANGUAGE ASSESSMENT
Credits: 3
This course introduces the key concepts of second language assessment, including validity, reliability, standards based instruction, standardized testing, and second language test design and evaluation. Students will participate in a 15 hour field experience culminating in a comprehensive case study of second language assessment policies. Prerequisite course to all other ESL courses
ESL-504. INTERCULTURAL COMMUNICATION FOR LANGUAGE TEACHERS  
Credits: 3  
This course examines contemporary theories of language and linguistics as they apply to communication. Students will discuss the theoretical aspects of language and culture; communicative competence, intercultural competence, and intercultural contact; issues of diversity and the impact these have on the language classroom and the language teacher. Emphasis will be placed on language and social interaction and pragmatics.

ESL-505. SECOND LANGUAGE  
Credits: 3  
This course aims to review current topics and research in the field of second language acquisition and to explore relationships between theory and practice. The course covers strategies, and styles of language development and looks at significant linguistic factors that influence the development of language in second language learners. Participants are exposed to the major theoretical issues, the latest areas of research, and the major methodologies in the field.

ESL-507. SOCIOLINGUISTICS AND SECOND LANGUAGE ACQUISITION  
Credits: 3  
This course examines concepts and issues in the field of sociolinguistics, with the main focus remaining on second language teaching and learning. Topics covered include the sociology of language, the ethnography of communication, pragmatics, and discourse and conversational analysis. Participants will demonstrate their understanding of these issues through discussion, field work exercises, and a final research paper containing a literature review and a design for an action research study that could be conducted in a second language classroom.

ESL-508. SECOND LANGUAGE PROGRAM DEVELOPMENT  
Credits: 3  
This course will introduce students to the theory and practice required for developing and implementing second language programs. Students will examine language policies and the role of language learning and how it impacts on textbook selection and curricular design. The course provides students the opportunity to explore the intricacies involved in developing and implementing English as a Second Language programs, and raises awareness of the cultural conflicts and biases, both social and linguistic, faced by newcomer, multilingual students. Students will apply their understanding of these issues in field-based assignments and by engaging in a curriculum and assess planning process for a specific context.

ESL-509. COMPUTER ASSISTED LANGUAGE LEARNING  
Credits: 3  
This course focuses on the theory and practical application of Computer-Assisted Language Learning (CALL) in second language teaching. Areas covered in the course include: an analysis of the history of CALL, current approaches used, exposure to various CALL software, and an introduction to on-line language teaching and learning. Students will demonstrate their knowledge of the material covered by developing a CALL project for second language learners.

ESL-512. ESL TEACHING AND EVALUATION FROM THEORY TO PRACTICE  
Credits: 3  
This capstone course provides practical field experience in lesson planning, L1/L2 research, administration, evaluation of teaching, curriculum and assessment, and the opportunity to reflect on applying theory to practice in the field of TESL. A culminating portfolio documenting evaluation experiences and demonstration of expertise in the field of TESL will be constructed and submitted as evidence of student mastery of TESOL standards.

SBL-501. PUBLIC RELATIONS AND SCHOOL COMMUNICATIONS  
Credits: 3  
Communications and community relations are the responsibility of all professionals who make up the educational community. Dealing with stakeholders and creating 'buy-in' and support for school-sponsored programs is a critical factor in a formula for educational success. This course is designed to help participants prepare and manage effective communications strategies related to district-wide and other pertinent educational issues. Contents will be geared toward the many constituencies who have a vested interest in the school, including internal, external and media groups. The course will also provide a legal context for release of information. Participants will ultimately design a plan for effective communications related to their respective role in the school.

SBL-502. SCHOOL FACILITY MANAGEMENT  
Credits: 3  
This course is designed to allow participants to develop competency in facilities management to support an optimal teaching and learning environment. Topics include facilities management concepts and techniques that protect capital investments, insure health and safety of students and staff, enhance day-to-day operations and support educational performance of school programs.

SBL-503. FINANCIAL OPERATIONS OF SCHOOL DISTRICTS  
Credits: 3  
This course is an examination of financial reporting and audit requirements, internal control; cash management principles; and payroll and benefit management and accounting. Subject areas are approached with an emphasis on practical application in a school district, vocational-technical school, or intermediate unit business office. Course of study involves a core text, independent research, and work-connected projects.

SBL-504. FINANCIAL PLANNING AND MANAGEMENT FOR SCHOOL BUSINESS  
Credits: 3  
This course focuses on the study of financial planning and management functions in educational institutions. Topics covered include: public education funding, budgetary planning and reporting using various models. and resource allocation and its impact on students. Revenues and expenditures for schools are examined and forecasted. A communication plan is developed to share the impact of the financial projections to the appropriate stakeholders. This course requires the completion of a rigorous online component of authentic simulations and/or field experience in applying the fundamental concepts of school financial planning and management.
Course Descriptions

SBL-505. HUMAN RESOURCES IN EDUCATION
Credits: 3
This course will cover advanced topics in human resources in education. The course will provide practical human resource information for students to use in their current jobs, or to prepare them for a career in human resources in education. Areas to be covered include recruitment, selection, compensation, fringe benefits, performance evaluation, certification, and labor relations.

SBL-506. MATERIALS MANAGEMENT IN SCHOOLS
Credits: 3
This course will examine various aspects of purchasing, inventory, fixed assets and real estate management in educational settings. Participants will gain practical application experience so that district needs in support of the educational process can be met. Subject areas include, but are not limited to, the preparation and administration of competitive bids, ethical practices in purchasing and contract management, requisitions, management of hazardous materials, and capital assets.

SBL-507. INFORMATION TECHNOLOGY IN EDUCATION
Credits: 3
This course is designed to inform participants in the various areas of technology planning and implementation in a school district on the information technology and management side of the equation. The course covers topics in areas including: IT systems management, planning, data management, project management, fiscal management and purchasing and staffing / training issues.

SBL-508. STUDENT TRANSPORTATION
Credits: 3
The purpose of this course is to provide students with the concepts, procedures and tools necessary to manage a student transportation system effectively. By analyzing utilization of resources, personnel and processes students will be introduced to a broad view of school transportation issues. The course will provide students with opportunities for research and discussion on school transportation themes thereby enhancing the student's ability to develop an efficient and safe student transportation system.

SBL-509. FOOD SERVICE IN EDUCATION
Credits: 3
This course will examine the role of food services in school districts. Participants will study such topics as nutrition and its role in the educational process, food safety, fiscal responsibility, state regulations, managing the bid process and kitchen facilities, marketing and staffing. Subject matter will be approached with an emphasis on practical application either in the student's current position or as preparation to obtain future employment in the field.

SBL-510. LEADERSHIP FOR SCHOOL BUSINESS
Credits: 3
This capstone course is designed to examine theories of leadership and analyze applications within the school environment. The topics addressed deal with a wide range of school related processes targeted at school improvement and overall student performance. (Taken in the last semester of SBL program coursework. Department permission required.)