

Wilkes University



2021-2022

GRADUATE BULLETIN

84 W. South Street
Wilkes-Barre, Pennsylvania 18766
(570) 408-4235
1-800-WILKES U, ext. 4235
(1-800-945-5378)
www.wilkes.edu

STATEMENT OF DISCLAIMER

The statements in this bulletin are for the purposes of information. The University reserves the right to change any provisions or requirements, including tuition and fees, any time within the student's term of residence. No contract is created or implied. Students must fulfill all prevailing degree or program requirements.

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Wilkes University

Graduate Bulletin | 2021-2022

84 W. South Street
Wilkes-Barre, Pennsylvania 18766

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ACADEMIC CALENDAR 2021 - 2022

- [Creative Writing Calendars and Schedules](#)
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- [Master's Degree Nursing Distance Education Calendars and Schedules](#)

Summer 2021

| | | |
|---------------------------|--|------------|
| Pre-Session | | |
| Classes Commence | Monday, May 24, 2021 | 8:00 a.m. |
| Classes End | Friday, June 11, 2021 (Including Final Examinations) | 12:00 noon |
| First Day Session | | |
| Classes Commence | Monday, June 14, 2021 (No class July 5th) | 8:00 a.m. |
| Classes End | Friday, July 16, 2021 (Including Final Examinations) | 12:00 noon |
| Nine-Week Evening Session | | |
| Classes Commence | Monday, June 14, 2021 (No class July 5th) | 6:00 p.m. |
| Classes End | Tuesday, August 17, 2021 (Including Final Examinations) | 10:00 p.m. |
| Second Day Session | | |
| Classes Commence | Monday, July 19, 2021 | 8:00 a.m. |
| Classes End | Friday, August 20, 2021 (Including Final Examinations) | 12:00 noon |

Fall Semester 2021

| | | |
|--|---|-----------|
| Classes Commence (Undergraduate and Graduate) | Monday, August 30, 2021 | 8:00 a.m. |
| Labor Day Recess Begins | Saturday, September 4, 2021 | 8:00 a.m. |
| Classes Resume | Tuesday, September 7, 2021 | 8:00 a.m. |
| Summer Commencement | Sunday, September 12, 2021 | 1:00 p.m. |
| Fall Recess Begins | Thursday, October 14, 2021 | 8:00 a.m. |
| Classes Resume | Monday, October 18, 2021 | 8:00 a.m. |
| FOLLOW THURSDAY CLASS SCHEDULE | Tuesday, November 23, 2021 | |
| Thanksgiving Recess Begins | Wednesday, November 24, 2021 | 8:00 a.m. |
| Classes Resume | Monday, November 29, 2021 | 8:00 a.m. |
| FOLLOW FRIDAY CLASS SCHEDULE | Monday, December 13, 2021 | |
| Classes End (Undergraduate Only) | Monday, December 13, 2021 | 5:00 p.m. |
| Final Examinations Begin | Monday, December 13, 2021 | 6:30 p.m. |
| Final Examinations End | Monday, December 20, 2021 | 4:00 p.m. |
| Final Examinations/Conflict Weather make-up days | Tuesday/Wednesday, December 21/22, 2021 | |

Academic Calendar 2021 - 2022

Intersession 2022

| | | |
|----------------|--|--|
| 3-week Session | Monday, December 27, 2021 - Friday, January 14, 2022 | |
|----------------|--|--|

Spring Semester 2022

| | | |
|---|---|------------|
| Classes Commence | Monday, January 18, 2022 | 8:00 a.m. |
| Spring Recess Begins | Saturday, March 5, 2022 | 8:00 a.m. |
| Classes resume | Monday, March 14, 2022 | 8:00 a.m. |
| Holiday Recess Begins | Thursday, April 14, 2022 | 8:00 a.m. |
| Classes Resume | Monday, April 18, 2022 | 8:00 a.m. |
| FOLLOW THURSDAY CLASS SCHEDULE | Tuesday, May 3, 2022 | |
| Classes End | Wednesday, May 4, 2022 (Follow Friday Class Schedule) | 5:00 p.m. |
| Final Examinations Begin | Thursday, May 5, 2022 | 6:30 p.m. |
| Final Examinations End | Thursday, May 12, 2022 | 4:00 p.m. |
| Final Examination Conflict Make-up Days | Friday/Saturday, May 13/14, 2022 | |
| Spring 2022 Commencement | Saturday, May 21, 2022 Graduate & Doctoral Ceremony | 10:00 a.m. |
| | Bachelor's Ceremony | 3:00 p.m. |

Creative Writing Calendars and Schedules

| CREATIVE WRITING ACADEMIC CALENDAR | 2021-2023 |
|--|---|
| On Campus Residencies | Winter 2021: Jan 8 to 16, 2021 Summer 2021: June 18 to 26, 2021 Winter 2022: Jan 7 to 15, 2022 Summer 2022: June 17 to 25, 2022 Winter 2023: Jan 6 to 14, 2023 Summer 2023: June 16 to 24, 2023 |
| Weekender in Wilkes Barre, PA | Winter 2021: Jan. 8 to 10; Jan 22 to 24; Feb 5 to 7; Feb. 19 to 21 Summer 2021: June 18 to 20; July 9 to 11; July 16 to 18; July 30 to Aug 1 Winter 2022: Jan 7 to 9; Jan 21 to 23; Jan 28 to 30; Feb 4 to 6 Summer 2022: June 17 to 19; July 8 to 10; July 15 to 17; July 29 to 31 Winter 2023: Jan 6 to 8; weeknights Jan 16-19; Jan 27 to 29 Summer 2023: June 16 to 18; June 30 to July 2; July 14-16; July 21 to 23 |
| Online Project Terms (all groups) | 2021: Jan. 25 to May 24; Aug 30-Dec 13 2022: Jan 18 to May 4; Aug 29 to Dec 12 2023: Jan 17 to May 3; Aug 28 to Dec 11 |

Doctoral Nursing Programs Distance Education Calendars and Schedules

| 2021-2022 Academic Year D.N.P and Ph.D. | | |
|--|-------------------|-------------------|
| D.N.P. Program Semesters; 12 week courses* | START DATE | END DATE |
| Fall 21 | August 30, 2021 | November 21, 2021 |
| Spring 22 | January 18, 2022 | April 10, 2022 |
| Summer 22 | May 23, 2022 | August 14, 2022 |

*NSG 608a and b are 15 week courses.

| Ph.D. Program Semesters; 12 week courses* | START DATE | END DATE |
|--|---|-------------------|
| Fall 21 | August 30, 2021 Online Residency NSG 615: August 28-29, 2021 NSG 628: August 16-29, 2021 NSG 629: September 7, 2021 to November 28, 2021 | November 21, 2021 |
| Spring 22 | January 18, 2022 Online Residency NSG 615: January 14-15, 2022 NSG 628: January 4-17, 2022 NSG 629: January 24, 2022 to April 17, 2022 | April 10, 2022 |
| Summer 22 | May 23, 2022 NSG 628: May 9-22, 2022 NSG 629: May 30, 2022 to April 24, 2022 | August 14, 2022 |

* NSG 615 is a 2 day residency and NSG 628 is a 2 week course.

Education Calendars and Schedules

| SUMMER SEMESTER – 2021 | |
|---|---|
| Summer Semester I -Master's Level (7 weeks) | April 26 - June 13 |
| Summer Semester I - Doctoral Level (6 weeks) | May 10 - June 20 |
| Doctoral Qualifying Examination (DQE) | May 1 (Saturday) 9:00 am - 9:00 pm |
| Summer Semester - Master's & Doctoral Levels (12 weeks) | May 10 - August 1 |
| Summer Semester II - Master's Level (7 weeks) | June 14 - August 1 |
| Summer Semester II - Doctoral Level (6 weeks) | July 5 - August 15 |
| Dissertation Proposal Defense Deadline | July 30 (to make September IRB meeting) |
| Dissertation Defense Deadline | July 30 (to defend for September graduation) |

Academic Calendar 2021 - 2022

| | |
|---|--|
| ED 615 – Professional Seminar in Educational Leadership (Residency – Fall Course) | August 10 – 13 (Tuesday – Friday) |
| ED 629 – Strategic Thinking and Planning (Residency 2 – Summer Course) | August 10 – 13 (Tuesday – Friday) |
| ED 697 – Dissertation Proposal Seminar (Residency 3 - Summer Course) | August 10 – 13 (Tuesday – Friday) |
| Doctoral Qualifying Examination (DQE) | August 21 (Saturday) 9:00 am - 9:00 pm |
| Summer Commencement | Sunday, September 12th - 1:00pm |
| FALL SEMESTER – 2021 | |
| Fall Semester I - Master's Level (7 weeks) | September 7 - October 24 |
| Fall Semester - Master's & Doctoral Levels (12 weeks) | September 13 – December 5 |
| Fall Recess | October 14 – October 17 (Thursday-Sunday) |
| Fall Semester II - Master's Level (7 weeks) | October 25 – December 12 |
| Thanksgiving Recess – No classes | November 24 – November 28 (Wednesday-Sunday) |
| Online Classes End | December 5 (Sunday) |
| Dissertation Proposal Defense Deadline | December 3 (Friday) |
| Dissertation Defense Deadline | December 3 (Friday) |
| Doctoral Qualifying Examination (DQE) | Dec 11 (Saturday) 9:00 am - 9:00 pm |
| SPRING SEMESTER – 2022 | |
| Spring Semester I - Master's Level (7 weeks) | January 10 – February 27 |
| Spring Semester - Master's & Doctoral Levels (13 weeks) | January 18 – April 10 |
| Spring Break – No classes | March 5 - March 13 |
| Spring Semester II - Master's Level (7 weeks) | February 28 – April 17 |
| Dissertation Defense Deadline | April 8 (Friday) No dissertation defenses are scheduled over spring break |
| Dissertation Proposal Defense Deadline | April 8 (Friday) No proposal defenses are scheduled over spring break |
| Doctoral Qualifying Examination (DQE) | May 7 (Saturday) 9:00 am - 9:00 pm |
| Spring Commencement | May 21 (Saturday) TBA |

Defense Scheduling: Defenses are scheduled from the beginning of each semester through the deadlines noted above. Defenses are not scheduled between semesters or during breaks. Appropriate scheduling forms and the complete, final defensible document must be received with the form to defend at least two weeks prior to the requested defense dates.

IRB Meetings: Occur monthly: January-May & September-December.

Calendar Changes: The Dept. reserves the right to change this calendar without notice. Refer to the final semester schedule for actual course dates. **Grade Information:** Grades are due from instructors within 72 hours of the class's completion date. When grades are "rolled" or processed, they become available for viewing on the Student Services tab of the MyWilkes portal.

Master's Degree Nursing Distance Education Calendars and Schedules

2021-2022 Academic Year

Nurse Practitioner, Nursing Education, Nurse Executive, and Nursing Informatics Programs

RN to M.S.N.

M.S.N.

Post-Graduate/APRN Certificate

12 week courses*

| Semester | START DATE | END DATE |
|-------------------------------|------------------|-------------------|
| Fall 21 | August 30, 2021 | November 21, 2021 |
| Spring 22 | January 18, 2022 | April 10, 2022 |
| Summer 22 | May 23, 2022 | August 14, 2022 |
| *NSG 410 is a 15 week course. | | |

Administrative Support Offices

Center for Continued Learning

(570) 408-4236
Second Floor, Weckesser Annex
169 South Franklin Street
FAX: (570) 408-7912

Master's/Doctoral Department of Education

(570) 408-4671
Lower Level, Breiseth Hall
139 South Franklin Street
FAX: (570) 408-4905

Graduate Admissions

(570) 408-3338 - Kristin Donati, Associate Director
(570) 408-4311 - Tori Reigle, Associate Director
(570) 408-4411 - Anthony Roma, Associate Director
(570) 574-4885 - Nicholas Tomaskovic, Associate Director
Lower Level, Breiseth Hall
139 South Franklin Street
FAX: (570) 408-7846

International Student Graduate Admissions

(570) 408-4235
Lower Level, Breiseth Hall
FAX: (570) 408-7846

International Student Services

(570) 408-7854
Second Floor, Max Roth Center
FAX: (570) 408-3626

School of Pharmacy

(570) 408-4298
First Floor, Stark Learning Center
160 South River Street
FAX: (570) 408-7828

Registrar's Office

(Registration and Transcripts)
(570) 408-4961
Capin Hall – 1st Floor
165 South Franklin Street

Student Financial Services

(570) 408-4512
165 South Franklin Street

Bursar's Office

(Student Accounts)
(570) 408-4960
32 West South Street

Graduate Admissions

Christopher Mayerski, Executive Director of University Admissions
(570) 408-7890
1-800-WILKES U, ext. 7890
www.wilkes.edu

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Nick Tomaskovic
Associate Director
Nicholas.tomaskovic@wilkes.edu

Mary Cheng-Choo
Graduate Assistant
Mary.chengchoo@wilkes.edu

Graduate Program Contacts

Business Administration (M.B.A.)

- Dr. Marianne Rexer - (570) 266-8982
- Ms. Karen Alessi - (570) 408-3204

Creative Writing (M.A. & M.F.A.)

- Dr. David Hicks - (570) 408-4527
- Ms. Patricia Naumann - (570) 408-4547

Bioengineering (M.S.)

- Dr. Abas Sabouni - (570) 408-4832 (Biomedical Engineering Track)
- Dr. William Terzaghi - (570) 408-4762 (Synthetic Biology Track)

Electrical Engineering (M.S.E.E.)

- Dr. Abas Sabouni (570) 408-4832

Engineering Management (E.G.M.)

- Dr. Yong Zhu - (570) 408-6034

Mechanical Engineering (M.S.M.E.)

- Dr. Yong Zhu - (570) 408-6034

Educational Development & Strategies (M.S.)

- Ms. Renee Sipple - (570) 408-4674

Educational Leadership (Ed. D.)

- Dr. Karim Medico Letwinsky - (570) 408-5512

Educational Leadership (M.S.)

- Dr. Charles Smargassi - (570) 408-4244

Effective Teaching (M.S.)

- Dr. Karim Medico Letwinsky - (570) 408-5512

Instructional Media (M.S. & Endorsement)

- Dr. Grace Surdovel - (570) 408-3102

Instructional Technology (M.S.)

- Dr. Grace Surdovel - (570) 408-3102

International School Leadership (M.S.)

- Dr. Karim Medico Letwinsky - (570) 408-5512

Literacy Specialist

- Dr. Vicki Jones - (570) 408-6814

Middle Level Programs (M.S.)

- Dr. Vicki Jones - (570) 408-6814

School Business Leadership (M.S.)

- Dr. Charles Smargassi - (570) 408-4244

Secondary Education / Biology (M.S.)

- Dr. Michael A. Steele - (570) 408-4763

Secondary Education /Chemistry (M.S.)

- Dr. Hernando Trujillo - (570) 408-4637

Secondary Education / English

- Dr. Lawrence T. Kuhar - (570) 408-4532

Secondary Education / Mathematics (M.S.)

- Dr. V. Ming Lew - (570) 408-4844

Special Education (M.S.)/Autism

- Dr. Suzanne Galella - (570) 408-4475

Teaching English as a Second Language (M.S.)

- Dr. Kimberly Niezgodna - (570) 408-4170

Mathematics (M.S.)

- Dr. Prahlad Murthy - (570) 408-4617

Nursing (M.S.N, D.N.P, Ph.D. and Post-Graduate/APRN Certificate)

- Dr. Kathleen Hirthler - (570) 408-5027

Pharmacy (Pharm. D.)

- Dr. Julie Olenak - (570) 408-4288

Pharmacy (M.S.P.S)

- Dr Adam Van Wert - (570) 408-4336

INTRODUCTION

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Wilkes University

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Our Mission

To continue the Wilkes tradition of liberally educating our students for lifelong learning and success in a constantly evolving and multicultural world through a commitment to individualized attention, exceptional teaching, scholarship and academic excellence, while continuing the university's commitment to community engagement.

Our Vision

Wilkes University will provide exceptional educational experiences that transform students and develop innovations through scholarly activities that lead to national recognition and shape the world around us.

Our Values

- **Mentorship:** Nurturing individuals to understand and act on their abilities while challenging them to achieve great things.
- **Scholarship:** Advancing knowledge through discovery and research to better educate our constituents.
- **Diversity:** Embracing differences and uniqueness through sincerity, awareness, inclusion and sensitivity.
- **Innovation:** Promoting creative scholarly activities, programs, ideas and sustainable practices.
- **Community:** Appreciating and collaborating with mutual respect to foster a sense of belonging.

Institutional Student Learning Outcomes

Students will:

- Demonstrate a comprehensive understanding of appropriate theories, methods and standards specific to the field of study;
- Demonstrate appropriate application of the methods, skills and techniques specific to the field of study;
- Demonstrate the ability to engage in the process of systematic inquiry appropriate to the field of study;
- Demonstrate effective written communication skills in the field of study;
- Demonstrate effective oral communication skills in the field of study; and
- Demonstrate understanding of integrity and ethical practice.

Academic Information

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Transfer Credits

(Please see individual department information for program-specific considerations.)

A maximum of six credits toward a master's degree or 12-18 credits of post-master's graduate work for terminal degrees, completed at another U.S. regionally accredited university or college may be applied toward the requirements for the program specific degree.

Acceptance into a graduate program is necessary before credits can be considered for transfer to the program of study. Students seeking to transfer courses from another institution may be requested to produce a course syllabus and coursework so that a final determination can be made. Academic officers who are agents of Wilkes University may review the syllabus to determine if the course contains graduate-level learning objectives, a sufficient number of contact hours (40-45 for a three-credit course), and an appropriate content outline containing assessments and assignments that clearly delineate student performance.

Wilkes University does not transfer credits for 1) courses titled as workshops; 2) other courses that are determined not to meet academically rigorous standards; 3) courses that do not align with the goals and objectives of existing Wilkes University courses; or 4) courses taken as Pass-Fail, unless the "Pass" can be substantiated by the former institution as being equivalent to a grade of B (3.0) or better.

A transfer credit form must be submitted and an official transcript provided in order for credits to be transferred. Approval for any transferred credits toward a degree program must be granted by the respective program. Transferred academic work must have been completed within six years prior to the date of admission to the graduate program at Wilkes University with a grade of B (3.0) or better. Grades earned in transferred courses are not included in the computation of the cumulative grade point average at the University.

Current Wilkes graduate students who seek to take a graduate course at another accredited university or college, in order to transfer the credits into their respective program at the University, must complete a "Pre-Approval Form" prior to registering for the course. All completed forms for transfer of credits should be submitted to the respective department. An official transcript must be requested from the other institution as soon as it is available and should be sent to the Student Services Office.

A student cannot be approved for graduation until all transfer credits are approved by the respective program, an official transcript has been received at Wilkes University from the institution granting the credit, and the approved transfer credits are posted to the Wilkes University transcript. All paperwork must be received prior to each semester's Wilkes graduation clearance deadline.

Appeal of Grade Policy

Communication necessary in the appeal process may be in person for on-campus students or via digital or video-conferencing technology for off-campus students.

Grades themselves are not generally grievable. More often students challenge grades based on a deviation from course policy or grading practices outlined in the course syllabus. Students who have a clear and justifiable grievance with reference to a grade should first seek resolution with the instructor and subsequently with the Department Chairperson/Director. It is expected that they will consult with the faculty member in an effort to resolve the dispute. The Chairperson/Director may also exercise the option to involve others in the discussions with the faculty member.

If satisfaction cannot be obtained, the student has the right to appeal to the Dean of the respective college or school. The appeal must be made by the end of the fourth week of the ensuing fall or spring semester. The Dean will consult with the Department Chairperson/Director and will establish an Appeal Committee of three faculty members - at least two of whom shall be from the department of the faculty member concerned, if possible. A Committee Chairperson will be appointed by the Dean. The Committee Chairperson will notify the faculty member of the appeal and the composition of the Committee.

The Appeal Committee will review the student's complaint, interview the faculty member, and study the evidence presented by both parties. If necessary, the Committee may interview the student, other students or faculty in its efforts to determine the facts.

The Committee will make a report to the Dean in which it reviews the issues and recommends a solution. In most cases this will be a recommendation to uphold the grade awarded by the instructor or to alter the grade that the student received. In some cases the

Introduction

recommendation may be to present the student with other alternatives such as the completion of additional work before a final grade is determined.

The Dean, after consultation with the Provost, will inform the faculty member and the student of the recommendations of the Appeal Committee and will take the steps that are necessary to implement the recommendations.

Auditing

A person desiring to audit a course does not need to meet normal admission requirements, but must obtain approval to audit from the course professor and indicate "audit" on the registration form. Auditors must file the appropriate Application and pay the non-refundable application fee. The student receives no credit for courses taken as an auditor

A student enrolled in a course may apply to become an auditor by contacting the Graduate Admissions office, and must obtain approvals from the course professor. This change of status must be completed before the end of the second week of the class.

Challenge Examinations

Students who desire to remove undergraduate deficiencies may do so by formal course work or by challenge examination. Challenge examinations may not be used to earn credits toward the graduate degree. Arrangements are made by the student directly with the respective Graduate Program head.

Course Numbering

Courses are designated by three-digit numbers. The first digit denotes the level of the course as follows:

- 400-499 Courses for graduate students and advanced undergraduates
- 500-599 Courses for graduate students only (except with special permission)
- 600-699 Courses for doctoral and M.F.A. students only (except with special permission)

Degree Requirements

Students may be awarded the master's degree upon satisfactory completion of all graduate degree requirements and the following specific requirements:

1. A completed file (application, application fee, official transcripts, copy of teaching certificate, letters of recommendation, any required testing, and any other individual program requirements for admission).
2. Regular admission into a graduate program;
3. Satisfactory completion of all requirements for the degree to be completed within six calendar years following admission into the program of study. A student may request an extension to complete the degree beyond the six year limit. That request should be submitted in writing to the program director/department chair no later than the semester before the six year limit. The respective college or school Dean will review the request and consult with appropriate parties (graduate program director, chairperson, or advisor) and will notify the student and the appropriate administrative offices of the final decision.
4. A minimum average of 3.0 for all graduate work (see Grade Regulations);
5. If a thesis is required, the candidate should:
 - a. Be accepted by a thesis advisor and an Advisory Committee before completion of nine hours of graduate study;
 - b. Submit an acceptable thesis in the required format and quantity of copies no later than three weeks prior to the commencement at which the degree is to be conferred;
 - c. Arrange for publication of the thesis. (see Thesis Policy);

Specific requirements for graduate degrees will be found within each of the degree programs described in the following sections.

Students CANNOT substitute other courses for any of the required core courses in any program without the express written consent of the program.

General Notes On Academic Standing and Dismissal

NOTE BEFORE READING THIS SECTION:

There may be more stringent programmatic requirements regarding this policy. Students should be sure to review the appropriate section of this bulletin pertaining to their respective program.

In order for a student to maintain good academic standing in graduate programs, the student must maintain a GPA of 3.0 or higher at and after the point of completing 9 credits in his/her respective program. The 9 credit probationary allowance provides a student the opportunity to demonstrate his/her academic ability. After completing 9 credits, a graduate student whose GPA drops below a 3.0 will be dismissed from his/her respective program. Students who are dismissed may retake a course or courses as a non-degree student, which provides for the opportunity to replace one or more of their deficient grades. If the student is successful in moving his/her GPA above the 3.0 level, he/she may re-apply for acceptance into his/her program.

Only courses with grades below a 3.0 may be taken for grade replacement. If a student elects to take a course for grade replacement, the higher grade earned will be counted in the calculation of the GPA. For example, if a student earns a 2.0 and replaces the grade and earns a 2.5, the higher grade (2.5) would be used in the GPA calculation. Courses may be repeated for grade replacement only one time. Note: Students must also meet all degree requirements in addition to maintaining an acceptable GPA.

Individual programs/departments may have more stringent academic progression requirements than those prescribed by the general policies. Students are urged to review program-specific academic progression requirements that may be described in the section of this bulletin pertaining to their respective program.

A student who is dismissed from the graduate program may request a review of the case by the Graduate Studies Committee. The request should be submitted in written form to the Dean of the appropriate college or school, who will coordinate with the Graduate Studies Committee.

Grading

Numerical grades are given for graduate work. Letter grade equivalents appear in the conversion table below:

| | |
|----------|--|
| 4.0 = A | Academic achievement of superior quality |
| 3.5 = B+ | Academic achievement of good quality |
| 3.0 = B | Academic achievement of acceptable quality in meeting graduation requirements |
| 2.5 = C+ | Academic achievement of adequate quality but below the average required for graduation |
| 2.0 = C | Academic achievement below the average required for graduation |
| 0.0 = F | Failure. No graduate course credit |

A grade of "X" indicates assigned work yet to be completed in a given course. Except in thesis work, grades of "X" will be given only in exceptional circumstances. **Grades of "X" must be removed through satisfactory completion of all course work no later than four weeks after the end of the final examination period of the semester in which the "X" grade was recorded.** Failure to complete required work within this time period will result in the conversion of the grade to 0. An extension of the time allowed for the completion of work must be endorsed by the instructor in the form of a written statement and submitted to the Registrar. There may be financial aid implications with a grade of "X" and with the conversion of the "X" to a 0.

Master's Thesis Policy

1. Upon approval of the thesis topic, the student and the advisor will identify the objectives, develop a timetable, and plan the distribution of credits in that timetable. This written plan will be placed in the student's files in the department office.
2. The student shall be continuously registered for a minimum of one thesis credit up to and including the semester that he/she defends the thesis and submits the final copies of the thesis.
3. The thesis objectives should be completed within the allocated number of credits and within the timetable developed. Thesis requirements vary from program to program. Students should consult with their thesis advisor and understand all thesis requirements for their individual program.
4. Students registered for thesis credits will be awarded a grade reflecting the level and the quality of work conducted for that semester. Incomplete and audit designations are explicitly excluded as thesis grades.
5. The satisfactory completion of the thesis is indicated by passing the oral examination and obtaining the necessary approvals from the Thesis advisor, the thesis committee (if required), the Department Chairperson/program director, and the Dean of the respective college or school.
6. Student appeals to any provisions in this policy shall be to the Thesis Advisor, the Department, and finally to the Graduate Studies Committee.

Subsequently the accepted theses and dissertations will be archived, either in bound or in digital format. See the individual program requirements and

Introduction

fees for binding. For thesis binding fees, see section on Fees and Expenses

Regulations for Withdrawal

A student may withdraw from a course during the first week of the semester by informing the instructor, completing a withdrawal form that is co-signed by the student and the student's advisor, and submitting the signed form to the program and the Registrar's Office within the first week of the semester. For withdrawal after the first week, see program specific processes for withdrawal. A student may withdraw from a course only for serious circumstances, as determined by the Department Chairperson or the Director/Coordinator of the appropriate graduate program in consultation with the instructor. A mark of "W" indicates an authorized withdrawal from the course. Students are advised that withdrawing from a course(s) may have financial implications; see sections on "Refunds" and "Withdrawal-Return of Financial Aid Funds" in this bulletin for more information.

It is the student's responsibility to initiate withdrawal from a course by obtaining the withdrawal form from the Registrar's Office, having it signed by the appropriate personnel, and returning it to the Registrar's Office within within the tenth-week period. A grade of "0" is assigned by the instructor and recorded for all courses in which no official withdrawal, as specified above, has been completed by the student.

"W" is not a grade; it does not constitute a reflection of academic performance within a course. The appropriate grade for academic performance below the minimum standard for course credit is "0."

A "W" granted after the first week of the semester reflects a decision on the part of the student, after consultation with the instructor and advisor, not to be enrolled in a course. A "W" granted after the tenth week of the course constitutes recognition and agreement by the student, instructor, and advisor, that, due to some extraordinary circumstances beyond the student's control, enrollment in that course is not possible or feasible.

Regulations on Thesis Research

Each graduate student shall select a major advisor under whose direction he/she wishes to pursue thesis research, if a thesis is required. Following acceptance of the candidate, the advisor will ensure that a committee, if required, is appointed. Students should refer to the program specific requirements on thesis, dissertation or scholarly projects.

Student Conduct

Graduate students are obligated to observe the regulations governing all Wilkes University students relative to:

1. Academic honesty and integrity;
2. Respect for the rights of others relative to their safety, welfare and educational commitments;
3. The safety and security of the entire community.

Any disciplinary cases arising from a lack of observance of these regulations will be adjudicated by the Dean of the appropriate college or school and the Office of Student Affairs. Appeals from the decisions of this Committee may be made in written form to the Provost.

Please refer to your academic program or department for policies regarding student conduct and additional grievance procedures.

Anti-hazing Policy

Wilkes University defines hazing as "any action or situation created on or off-campus which recklessly or intentionally harms, damages, or endangers the mental or physical health or safety of a student for the purposes of, including, but not limited to, initiation or admission into or affiliation with any organization operating within the University."

Examples of hazing includes, but are not limited to:

- Any brutality of a physical nature, such as whipping, beating, branding, forced or coerced calisthenics, or exposure to the elements;
- Brutality of a mental, emotional or sexual nature;
- Forced or coerced consumption of any food, alcohol, drug or other substance;
- Requiring the carrying of items such as rocks, bricks, pumpkins, etc.
- Compelling individuals to engage in sexual behaviors, sexual or racial harassment or slurs, or exhibitionism;
- Sleep deprivation;
- Excluding an individual from social contact for prolonged periods of time;
- Forced or coerced conduct which is illegal, indecent, obscene, or could result in extreme embarrassment;

- Any other forced or coerced activity which could adversely affect the physical health, safety, mental health, or dignity of an individual or group;
- Any other conduct prohibited as hazing under applicable State or Federal law.

This policy applies to all University organizations, groups, and individuals and is equally applicable on and off campus. Organizations are defined as: "A fraternity, sorority, association, corporation, order, society, corps, club, team, social or similar group, whose members are primarily students or alumni of the organization, or the University."

Any alleged act of hazing brought to the attention of University officials will be fully investigated and those individuals and/or groups accused will be brought before the University's Student Affairs Council for adjudication.

Examples of sanctions that may be imposed upon individual students are:

- Disciplinary suspension or dismissal;
- Disciplinary probation;
- Attendance at educational programs or other training;
- Restitution; and/or
- Participation in alcohol, drug, or other counseling services

Examples of sanctions that may be imposed upon organizations that knowingly permit, authorize, or condone hazing are:

- Revocation or suspension of the organization's existence or recognition;
- Cancellation of some or all the organization's activities or events; and/or
- Decrease in, or restriction of, the organization's privileges.

Graduate Disciplinary Process Flowchart

- Incident/Alleged policy violation takes place.
- Report submitted to Student Affairs for investigation.
- No policy violation or suspect found. End of process.
- Investigation finds policy violation and alleged suspect.
- Conference held with alleged violator
- Charges and sanctions agreed upon by Assoc. Dean of Student Affairs (or designee for off-campus locations) and alleged violator. End of process.
- Assoc. Dean of Student Affairs (or designee for off-campus locations) and alleged violator do not agree upon charges and sanctions.
- Process is determined
- Administrative hearing held by the Assoc. Dean of Student Affairs (or designee for off-campus locations), if the policy violation does not appear to warrant dismissal or suspension from the University.
- Graduate Studies Committee, if the policy violation could result in dismissal or suspension from the University.
- Decision is made regarding the violation/sanction.
- Student is determined not to be in violation of a University policy. End of process.
- Student is found guilty of violation and accepts the sanction imposed. End of process.
- Student is found guilty of violation and does not accept sanctions.
- Student requests an appeal of the decision through the Office of the Provost
- The appeal is denied. The process ends.
- The appeal request is approved.
- The Office of the Provost reviews the case.
- The original decision is upheld. End of Process.
- It is discovered that there was :
 - Procedural error;
 - New evidence;
 - Inappropriate sanction.
- The case returns to the original Graduate Studies Committee group or another group, as determined by the Dean of the respective school or college, based on findings.

Grievance Policy/Internal Complaint Procedure

The purpose of this policy is to serve as a guide for students who wish to file a complaint about any aspect of Wilkes University's operations/policies/procedures or about the actions of any student, visitor, or employee of Wilkes University. This policy is to be implemented only when dealing with circumstances not covered by existing academic or student conduct procedures.

Procedures and Guidelines

Introduction

1. Complaints, other than those being filed against persons, should be directed, in writing, to the appropriate Administrator (Director/Dean)/Department Chair/Faculty Member). It is the responsibility of that person to address the situation and, if possible, see that it is corrected. This must be done within a reasonable amount of time which will of course, depend upon what must be done to rectify the situation. The Administrator (Director/Dean)/Department Chair/Faculty Member should inform the student in writing of the measures that were taken or are being taken to address the issue. If a student does not receive a response from the Administrator, Department Chair, Faculty Member within two weeks from the date of originally filing the complaint, the student may then bring the complaint to the appropriate Vice President or the Provost.
2. Complaints being filed against a person, should be directed, in writing, to that person's immediate supervisor. If it is an anti-harassment complaint (including sexual harassment and sexual misconduct) the procedures, outlined in the [Equal Opportunity, Harassment, and Nondiscrimination Policy](#) should be followed. Information regarding these procedures can be found at: wilkes.edu/titleix. If the complaint is not one of anti-harassment, then it is the responsibility of the supervisor to address the issue with the respondent. The supervisor must inform the student, in writing, of the measures that were taken or are being taken to address the issue. If the student does not receive a response from the supervisor within two weeks from the date of originally filing the complaint, the student may then bring the complaint to the appropriate Vice President or Provost.
3. In all instances of a student filing a complaint, the student must be assured in writing that no adverse action will be taken against the student for filing a complaint.
4. All documentation regarding a complaint, as well as its disposition, must be securely stored in the office of the person who received the complaint and acted upon it. These records must be maintained for a period of six (6) years from the date final action was taken on said complaint.
5. If a student feels that a response to a complaint is unacceptable and/or unreasonable, the student may bring the complaint to the immediate supervisor of the person who initially acted in response to the matter. If a student does not receive a response from that supervisor within two weeks from the date of originally filing the complaint with that person, the student may then bring the complaint to the appropriate Vice President or Provost.

The Family Educational Rights and Privacy Act of 1974

Wilkes University, in full compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), shall make educational records available to students upon request. Likewise, in accordance with the law, individually identifiable educational records will not be released to other than authorized individuals without written consent of the student.

Wilkes University has established a policy on access to and release of student information for compliance with provisions of this Act. This policy is published on the Office of the Registrar/Recorder page of the web site at www.wilkes.edu.

Transcripts

Transcripts are provided by the Registrar's Office (1-800-WILKESU). They are issued only upon request by the student in either written or electronic form. The electronic request form is available via the Wilkes portal under the Student tab (Student Services-Registrar-Transcripts).

A student requesting a transcript in person at the Registrar's Office, located at Capin Hall, 1st floor must present valid photo identification.

Transcripts given directly or mailed to students do not carry the University seal and are not official. The seal is attached only when the transcript is mailed directly from the University to another academic institution or authorized agency.

A transcript of work completed at any college or university other than Wilkes University must be obtained directly from that institution.

Accreditation

Wilkes University is an accredited member of the Middle States Association of Colleges and Schools and its graduate and professional programs are approved by the Department of Education of the Commonwealth of Pennsylvania. In addition to total program accreditation, certain special areas are recognized by professional organizations. The Master's Degree in Business Administration (MBA) program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP), and the graduate programs leading to the Master of Science Degree in Nursing and the Doctor of Nursing Practice (D.N.P.) are accredited by the Commission on Collegiate Nursing Education (CCNE). The American Council on Pharmaceutical Education (ACPE) has granted full accreditation to the Doctor of Pharmacy (Pharm. D.) program.

The baccalaureate degree in nursing/master's degree in nursing/Doctor of Nursing Practice/, and post graduate APRN certificate programs at Wilkes University are accredited by the Commission on Collegiate Nursing Education (www.ccneaccreditation.org).

NOTE: When programs must meet curricular requirements set by external agencies, such as accrediting associations, curricular changes may be made without prior notice, and students will be required to conform to such changes when they become effective.

Assistantships and Counselorships

The University awards a limited number of graduate assistantships. Positions are posted by department on the Wilkes web site. Applications for these assistantships must be filed with the Department Chairperson/Manager based on the application deadline listed in the posting. The department then reviews the graduate assistantship applications and a recommendation for awarding assistantships is made to the Dean of the respective college or school. Award letters are then sent to the individual or individuals who have been named as graduate assistants.

Criteria for Selecting Graduate Assistants

1. Admission to the program and full-time status.
2. Full-time (nine credits per semester) status while holding the assistantship.
3. Minimum 3.0 undergraduate grade point average.
4. Two additional letters of recommendation and submission application materials.
5. Successful interview or equivalent assessment of suitability for assistantship by department personnel.
6. Ability and willingness to perform the duties outlined in the job posting and assigned by the Director/Department Chair of the respective program.

Center for Continued Learning

Margaret Petty, Director

The Center for Continued Learning strives to be a quality resource to professionals as well as to the general community who would like to learn on a noncredit level. The center provides programs for professionals so that they may obtain the most current knowledge to keep their license current. The center also offers noncredit programs and prep courses for the general community.

Information regarding the services of the center can be obtained by calling the Center for Continued Learning at 800-WILKESU Ext. 5615.

Center for Global Education and Diversity

The Center for Global Education and Diversity fosters Wilkes' mission of educating students "in a constantly evolving and multicultural world." The Center provides institutional and regional leadership and programming in global education and diversity issues. The Center advises, supports, and advocates for students from underrepresented groups and international students who have come to the US to study at Wilkes. The Center brings diversity and a global perspective to the Wilkes community by sponsoring campus- wide programs to develop a broader understanding of the world and providing support in matters of diversity, internationalization, and inclusion. The Center is an important resource and support for all areas of the University. The Center is composed of two offices: International Student Services and the Office of Diversity Initiatives. Services of the Center include:

- Support for students from underrepresented groups such as women, ethnic and religious minorities, gay/lesbian/transsexual/transgender, and individuals with disabilities;
- Support for international students, faculty, and staff;
- Multicultural programming;
- Global Hub and Colonel Closet Extension (8:30-4:30)—lounge with workspace, t.v., computers, coffee
- International & Diversity Graduation Celebration Reservations for the Savitz Lounge in the Henry Student Center.

Staffing for the Center:

Georgia Costalas, Ed.D., Executive Director (georgia.costalas@wilkes.edu)

Erica Acosta, Director of Diversity Initiatives (erica.acosta@wilkes.edu)

Crystal Cool, Assistant Director of International Student Services (crystal.cool@wilkes.edu)

Madison Becker, Program Coordinator, Office of International Engagement (madison.becker@wilkes.edu)

The Center is located in the Max Roth Center at the corner of South Franklin and West South Streets. The Center's staff may be reached by calling (570) 408-7854 (or ext. 7854 from a campus phone) or by writing to Dr. Costalas (georgia.costalas@wilkes.edu).

Financial Aid

- [Institutional and Financial Assistance Information](#)
- [Renewal of Financial Aid](#)
- [Loans](#)
- [Important Terms](#)
- [Withdrawal - Return of Financial Aid Funds](#)

Loans

Private Student Loans

Students wishing to review their options for private loans are encouraged to go to: www.elmselect.com. Please note that Wilkes-University does not have a preferred lender and private loan options are processed through ElmSelect for all students.

Federal Student Loans

Subsidized and unsubsidized loans are federal student loans for eligible students to help cover the cost of higher education at a four-year college or university, community college, or trade, career, or technical school. The U.S. Department of Education offers eligible students at participating schools Direct Subsidized Loans and Direct Unsubsidized Loans. (Some people refer to these loans as Stafford Loans or Direct Stafford Loans.) *Please note that Graduate student are not eligible for Subsidized Student loans.*

Direct Unsubsidized Loans

- Direct Unsubsidized Loans are available to undergraduate and graduate students; there is no requirement to demonstrate financial need.
- Your school determines the amount you can borrow based on your cost of attendance and other financial aid you receive.
- You are responsible for paying the interest on a Direct Unsubsidized Loan during all periods.
- If you choose not to pay the interest while you are in school and during grace periods and deferment or forbearance periods, your interest will accrue (accumulate) and be capitalized (that is, your interest will be added to the principal amount of your loan).

Direct Plus Loans

Direct PLUS Loans are federal loans that graduate or professional students and parents of dependent undergraduate students can use to help pay for college or career school.

PLUS loans can help pay for education expenses not covered by other financial aid.

The U.S. Department of Education makes Direct PLUS Loans to eligible parents and graduate or professional students through schools participating in the Direct Loan Program.

A Direct PLUS Loan is commonly referred to as a parent PLUS loan when made to a parent, and as a GRAD PLUS loan when made to a graduate or professional student.

- The U.S. Department of Education is your lender.
- You must not have an adverse credit history. A credit check will be conducted. If you have an adverse credit history, you may still be able to receive a PLUS loan if you meet additional requirements.
- The maximum PLUS loan amount you can receive is the cost of attendance (determined by the school) minus any other financial aid received.

Important Terms

Wilkes-University Enrollment Status Policy:

In determining enrollment status, Wilkes-University includes all credit courses offered through resident instruction and distance education. Credits earned by credit-by-exam or credit-by-portfolio, and courses enrolled as "audit" are excluded from the calculation. The reported enrollment status for the three enrollment periods (fall, spring and summer) is determined as follows:

Undergraduate

Most undergraduate programs at Wilkes-University require full time enrollment (12 or more credits per semester). Note that most academic programs require between 14-18 credits each semester based on the progression of the curriculum.

Financial assistance from University sources requires full time enrollment. All institutional grants and scholarships are subject to this policy.

With the exception of the federal Pell Grant, all other sources of state and federal grants and loans require a minimum of half time enrollment (6 credits per semester)

Graduate (Masters, DNP, EDD)

Graduate students must maintain at least half time status to receive Federal Direct Stafford or Graduate PLUS Loans. Half time status for graduate programs is typically defined as 6 credits each semester based on the progression of the curriculum.

Graduate students enrolled in fewer than 6 credits who are working on a thesis or dissertation may be eligible for federal loans if one of the following special circumstances apply:

SPECIAL CIRCUMSTANCES:

1. After completing all required coursework, a master's level student may be considered half-time while enrolled in a 3 credit hour thesis course. This half-time status may be maintained for two semesters.
2. After entering candidacy status, a doctoral student may be considered full-time while enrolled in a 3 credit hour dissertation course. A doctoral candidate may maintain full-time status in this fashion until completion of the number of dissertation credit hours specified by their program and designated on the plan of study.

Graduate (PhD)

PhD students must maintain at least half time status to receive Federal Direct Stafford or Graduate PLUS Loans. Half time status for PhD students is defined as 3 credits each semester based on the progression of the curriculum.

Enrollment Chart:

Undergraduate

| Enrolled Credits | Enrollment Status |
|------------------|---------------------|
| 12+ | Full-Time |
| 9-11 | Three Quarter Time |
| 6-8 | Half-Time |
| Less than 6 | Less than Half-Time |

Graduate (Masters, DNP, EDD)

| Enrolled Credits | Enrollment Status |
|------------------|--|
| 9+ | Full-Time |
| 6 | Half-Time |
| Less than 6 | Less than Half-Time (Refer to "Special Circumstances" for Exceptions) |

Graduate (PhD)

| Enrolled Credits | Enrollment Status |
|------------------|---------------------|
| 6+ | Full-Time |
| 3 | Half-Time |
| Less than 3 | Less than Half-Time |

Institutional and Financial Assistance Information

Wilkes University subscribes to the belief that the primary responsibility for financing the cost of higher education rests with the student and his or her family, but Wilkes remains committed to providing resources to make the cost of earning a degree affordable. Toward that end, the University is committed to assisting students through options in regard to federal and private funding sources.

Financial assistance for qualified students is awarded in the form of financial aid packages, which consist of funding sources, such as loans, scholarships and grants. All students are encouraged to apply for financial assistance.

Students with questions about financial aid or students seeking applications for financial aid should contact the Financial Services Office or Admissions Office representative at the nearest Wilkes office. More detailed information regarding the financial aid programs and requirements is included in the Consumer's Guide to Financial Aid, Costs, and Charges at Wilkes University, which is also available at the Financial Aid Office and on the Wilkes University Web Site.

Financial Aid Application Procedures

NOTE: Students must be regularly be accepted in a degree seeking program for admission at the University before their application for financial aid will be considered.

1. Complete the Free Application for Federal Student Aid (FAFSA) at: <https://studentaid.ed.gov/sa/fafsa>.
2. Students who wish to participate in the Federal Direct Stafford Loan or the Federal Direct Grad PLUS Program or both must also complete the appropriate Master Promissory Notes and Loan Entrance Counseling at: <https://studentloans.gov/myDirectLoan/index.action>
3. Students wishing to use a private loan should apply through www.elmselect.com

Renewal of Financial Aid

Financial aid is awarded on an annual basis. The renewal of financial aid is not automatic and failure to submit renewal applications may result in the loss of financial aid. Students must, therefore, reapply for financial assistance each year, and renewal of awards is based on the timely completion of all required documents and on the student's continued eligibility for assistance.

The deadline for requests for renewal of financial aid is May 1. In addition to demonstrating continued financial need, students must also meet specific academic progress requirements to qualify for renewal. These requirements are explained in detail and can be found on the Wilkes-University website under Consumer Information, Student Financial Assistance, Satisfactory Academic Progress Policy.

Withdrawal - Return of Financial Aid Funds

In accordance with federal regulations, those students who receive federal financial aid and who withdraw from the University during the first 60% of a semester will have their federal financial aid (Stafford Loan and Grad PLUS Loans) adjusted based on the percentage of the semester completed prior to the withdrawal. That is, students will be entitled to retain the same percentage of the federal financial aid received as the percentage of the semester completed. This percentage is calculated by dividing the number of days in the semester (excluding breaks of five days or longer) into the number of days completed prior to the withdrawal (excluding breaks of five days or longer). The date of withdrawal will be the date the student begins the withdrawal process at the Registrar's Office unless attendance in class is documented after that date; in that case, the last date of documented attendance will be the official date of withdrawal. (See section on Withdrawals in this Bulletin.)

Students who do not follow the official withdrawal procedure but who stop attending classes for all of their courses will be considered to have withdrawn at the 50% point of the semester unless attendance is documented after that time. There will be no adjustment to federal financial aid after the completion of at least 60% of the semester.

Once the amount of the federal fund to be returned has been calculated, the funds will be returned in the following order:

1. Federal Direct Unsubsidized Stafford Loans
2. Federal Direct Grad PLUS Loans.

Please note that students who receive a refund of financial aid prior to withdrawing from the University may owe a repayment of federal financial aid funds received. Students will be contacted by a Wilkes University representative in such situations and will be given 30 days to repay the funds to the University. Students who fail to return the unearned portion of federal financial aid funds given to them will become ineligible for continued receipt of financial aid until such time as the repayment is made.

Financial Information

- [Tuition and Fees](#)
- [Graduate and Professional Program Tuition and Program-Specific Fees](#)
- [Payment of Charges](#)
- [Payment Options](#)
- [Refunds](#)
- [Refund Schedule](#)

Graduate and Professional Program Tuition and Program-Specific Fees

- [Doctoral and Professional School \(Pharmacy\) Tuition and Fees](#)
- [Master's Programs Tuition and Fees](#)

Master's Programs Tuition and Fees

| | |
|---|-------------------------|
| M.A. in Creative Writing | \$750 per credit hour |
| M.F.A. in Creative Writing | \$675 per credit hour |
| M.A. in Creative Writing and M.F.A. in Creative Writing Alumni Rate | \$675 per credit hour |
| Application Fee | \$35 |
| Acceptance Deposit | \$300 (one-time fee) |
| General University Fee Creative Writing | \$84 per credit hour |
| Thesis Reader Fee | \$500 (one-time fee) |
| M.B.A. | \$800 per credit hour |
| M.S. in Education* | \$522 per credit hour |
| M.S. In Bioengineering | \$1,000 per credit hour |
| M.S. in Engineering Management | \$1,000 per credit hour |
| M.S.E.E. | \$1,000 per credit hour |
| M.S.M.E. | \$1,000 per credit hour |
| M.S. (Mathematics, Mathematics Education) | \$1,000 per credit hour |
| M.S.N. (Nursing) | \$728 per credit hour |

GENERAL FEES:

| | |
|----------------------------------|---|
| Application Fee | \$45 (one-time fee) |
| Audit Fee | One-half of tuition cost |
| Challenge Examination Fee | \$90 per credit hour |
| IEP - Intensive English Tuition | \$4,900 per semester |
| Engineering Lab Fee | \$115 per class |
| General Fee | \$84 per credit hour |
| Graduation Fee | \$170 (charged to all graduating students in their last semester) |
| Nursing Dissertation Binding Fee | \$45 per copy |
| Transcript Fee | \$15 per copy |

Individual departments have the right to charge laboratory and breakage fees as appropriate.

Third-Party Billing and Deferred Payment forms are available on the Wilkes web site. These forms must be submitted each semester.

Introduction

Note: The Bursar's Office is prohibited from signing graduation clearance forms until any outstanding balance is paid in full. Graduates who have requested the deferred payment option must pay the final semester balances personally before clearance forms are signed (or have a written guarantee from their employer that the amount will be paid to Wilkes regardless of course completion or final grade). Those prospective graduates not complying with the above policy will not be cleared until actual payment is received from their employer.

Doctoral and Professional School (Pharmacy) Tuition and Fees EDUCATION (Ed.D International Leadership)

| | |
|-----------------------------|------------------------------------|
| Ed.D.* | \$776 (2021-2022 Academic Year) |
| Application Fee | \$45 |
| International Residency Fee | \$500 |
| US Residency Fee | \$200 |

NURSING (D.N.P.)

| | |
|---------|-------------------------|
| Tuition | \$1,024 per credit hour |
|---------|-------------------------|

NURSING (Ph.D.)

| | |
|---------|-------------------------|
| Tuition | \$1,024 per credit hour |
|---------|-------------------------|

PHARMACY (Pharm.D.)

| | |
|-----------------------------------|-----------------------|
| Full-time Tuition (12-18 credits) | \$20,303 per semester |
| General University Fee | \$940 per semester |

Professional fees: \$600.00/semester for P1s, P2s, P3s and P4s.

Payment Options

Participation in the Online Installment Payment Plan

Enrollment in the Installment Payment Plan should be completed immediately upon receipt of the University invoice. The current outstanding balance will be divided into three equal installments for the Summer Semester and five equal installments for the Fall and Spring Semesters, with the first payment due August 15th for the Fall semester. Students must enroll each semester.

Participation in the Employer Tuition Deferment Agreement

Deferred payments for employer reimbursement and third party payer arrangements will be permitted provided the student has made application and received approval for this plan at least two weeks before the first day of the semester. Applications for Deferred Employer Tuition Deferment are available on the Wilkes Web site. Graduating seniors are not eligible for the deferred payment option.

Enrollment in a Third Party Sponsored Tuition Coverage Plan

If the student is expecting to receive financial support from ROTC, Veterans Rehabilitation, The Bureau of Vocational Rehabilitation, or other third party sponsored tuition plan, which is not already listed on the invoice, deduct the approved amount from the "Calculated Total Due." Please indicate the source and the anticipated amount of coverage on a copy of the invoice when remitting payment for the adjusted balance.

Third-Party Billing and Deferred Payment forms are available on the Wilkes portal. These forms must be submitted each semester.

Note: The Bursar's Office is prohibited from signing graduation clearance forms until any outstanding balance is paid in full. Graduates who have requested the deferred payment option must pay the final semester balances personally before clearance forms are signed (or have a written guarantee from their employer that the amount will be paid to Wilkes regardless of course

completion or final grade). Those prospective graduates not complying with the above policy will not be cleared until actual payment is received from their employer.

Veterans Benefits and Transition Act of 2018

The University complies with the Veterans Benefits and Transition Act of 2018 (38 USC 3679(e)), and will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or the requirement that a covered individual borrow additional funds, on any covered individual because of the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the VA under chapter 31 or 33 veteran educational assistance entitlement

All Covered Individuals (anyone who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill® benefits) are requested to provide a written request of use of these entitlements and will be permitted to attend or participate in the course of education beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement to educational assistance under chapter 31 or 33 (a "certificate of eligibility" can also include a "Statement of Benefits" obtained from the Department of Veterans Affairs' (VA) website e-Benefits, or a VAF 28-1905 form for chapter 31 authorization purposes). The Certificate of Eligibility or Statement of Benefits is required to be submitted no later than the first day of courses for which an individual wishes to use the individual's entitlement to education assistance in order to provide proper and timely certification and disbursement of VA funding. Additionally, all covered individuals will be required to provide any and all additional information necessary to complete the proper certification of enrollment by the institution within 10 days of notice.

This policy does not prevent the University from requiring that the difference between the amount of the student's financial obligation and the amount of the VA education benefit disbursement be satisfied.

'GI Bill®' is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at www.benefits.va.gov/gibill.

Payment of Charges

Prior to the beginning of each semester, tuition bills listing all current semester charges and approved financial aid are available online to all registered students. All payments can be mailed directly to:

Wilkes University – Student Lockbox

P.O. Box 824696

Philadelphia, PA 19182-4696

Electronic check, Discover, Master Card, Visa and American Express payments can be made on the Wilkes University student portal with no fee.

Any questions concerning charges and payments should be directed to (570) 408-4960 or you can email billing@wilkes.edu.

Payments can be made by check, credit card or cash in person at the Bursar's Office located in Miller Hall at 32 W South Street in Wilkes-Barre.

Students who fail to pay all indebtedness to the University shall not be permitted to receive any degree, certificate, or transcript of grades.

To make online payments, follow these simple steps.

- Log on to portal.wilkes.edu
- Enter your Wilkes username and password
- Click on the 'Student' tab
- Click on 'My Account'
- Click on 'Pay on Account' and follow the steps to make a payment.
- Be sure to print your receipt before you log out of the system.

Students who do not know their Wilkes username and password should contact the Help Desk at 570-408-4357 or 11-800-WILKES-U ext. 4357.

Students may consult with the Financial Aid Director, (or at off campus sites, with the financial aid representative) for information regarding scholarships and loan programs.

Subject to the regulations concerning refunds, the total tuition is considered fully earned by the University upon completion of registration by the student.

Students are referred to the course descriptions in this Bulletin for laboratory and other fees associated with particular courses. Inquiries about particular charges should be addressed to the Bursar's Office. Note that graduate and professional school tuition and some fees are program specific.

Refund Schedule*

| Withdrawal or Drop Date Based on Percentage of Course Completion | Tuition Adjustment (Less Fees*) |
|--|---------------------------------|
| 0-13% course completion (includes first class session for all courses) | 100% |
| 14-20% course completion | 75% |
| 21-27% course completion | 50% |
| 28% course completion- end of term | 0% |

**All fees charged by the university are non-refundable*

Refunds

Tuition Refund Policy

1. Non- participation students who are dropped from a course for not satisfying the requirement for initial course participation are refunded 100 percent of the course tuition.
2. The following schedule applies to learners in all credit bearing programs for all terms that follow traditional, accelerated and online formats.
3. Students who request an exception to the tuition refund policy due to extenuating circumstances should submit a request in writing to the Tuition Refund Appeals Committee for review.

Refund Schedule*

| Withdrawal or Drop Date Based on Percentage of Course Completion | Tuition Adjustment (Less Fees*) |
|--|---------------------------------|
| 0-13% course completion (includes first class session for all courses) | 100% |
| 14-20% course completion | 75% |
| 21-27% course completion | 50% |
| 28% course completion- end of term | 0% |

**All fees charged by the university are non-refundable*

Tuition and Fees

Fall and Spring Full-time Tuition

The unfunded cost of full-time tuition and fees will be paid or financial clearance obtained two weeks before the start of the semester. Unfunded costs are defined as the total of all appropriate charges for tuition, fees, room and board, etc., less the total of all approved financial aid awarded or credited to the student account for each semester or other instructional period. Satisfactory arrangements are defined as

1. enrollment in the Installment Payment Plan via the student portal
2. participation in the Employer Tuition Deferment plan;
3. enrollment in one of the third party, sponsored tuition coverage plans (ROTC Scholarship, Bureau of Vocational Rehabilitation, Veteran's Assistance, etc.).

If the payment in full or satisfactory arrangements are not made two weeks before the first day of class each semester, the registration for that semester may be cancelled and the student may not be allowed to attend classes. In addition, a financial hold will be placed on any tuition account with an open balance.

Interession Tuition

Tuition charges for interession semesters must be paid in full two weeks before the first day of class. The deferred payment option does not apply to interession charges.

General Information

- [Enrollment Status](#)
- [University Identification Cards](#)
- [Library Services](#)
- [Housing and Dining](#)
- [Parking On Campus](#)
- [Bookstore](#)
- [Health Service](#)
- [Career Services](#)

Housing and Dining

There are no housing facilities exclusively for graduate students on the Wilkes campus. Nor does the University provide accommodations for married couples or families. Graduate students are housed in University residence halls only on a space-available basis. Graduate students who are interested in living on campus should contact the Office of Residence Life to determine space availability.

Henry's Cafeteria, located on the third floor of the Henry Student Center, is open to all members of the Wilkes community, and accepts cash, credit, dining/flex dollars, and meal plan 'swipes.'

For casual dining, the first floor of the Henry Student Center contains two retail options: GrilleWorks and WhichWich. Starbucks at Colonel Gambini's is located on the first floor of UCOM. For information on meal plans, graduate students should visit our [website](#), contact the University's Business Operations Office at studentmeals@wilkes.edu, or visit the dining services offices on the third floor of the Henry Student Center.

Bookstore

New for the 2021-2022 academic year, the University's bookstore facility, named Colonel Corner, returns to campus in partnership with Barnes & Noble College Booksellers, Inc. The Colonel Corner is located just inside the South Street entrance of the Henry Student Center.

A revamped and expanded space in the hub of student activity makes it a convenient and memorable location to serve our students, faculty and staff, offering proximity to classrooms and dining options, as well as providing a place to meet. The academic superstore is designed to meet the specific needs of students at Wilkes, with comprehensive physical and virtual textbook services, spirit wear, lounge areas and standard Barnes & Noble bookstore stock. For off-campus and online students, a full selection of textbooks, supplies and logo merchandise is available for purchase on the [Barnes & Noble website](#).

Joseph Stager, Store Manager
(570) 408-3491

Career Services

The Office of Career Services is the liaison between the University and potential employers in business, industry, government, and educational institutions. Various services are offered to assist students at all stages of their career development. Students are encouraged to participate in this service by registering at The Center for Career Development and Internships, rear 236 S. River Street at the Student Center Gateway, or contact them by email at careers@wilkes.edu.

Department of Public Safety

About the Department of Public Safety:

The University Police Department at Wilkes University is committed to providing a safe environment for students, faculty, staff and campus visitors. Maintaining a safe and secure campus takes commitment from both our office and the campus community, working together. Be aware of your surroundings. Watch out for yourself, and for others. Be alert for anything that may be suspicious. Trust your instincts, and never hesitate to call University Police for assistance. Our dedicated staff of patrol officers traverse the campus and its perimeter 24 hours a day, 7 days a week.

All Wilkes University community members are encouraged to report all crimes and safety-related issues to University Police in a timely manner. Our non-emergency number is 570-408-4377 and the emergency number is 570-408-4999. You may also contact us by using our Wilkes Shield app, available in the App Store and Google Play (search Wilkes Shield).

The University Police Department prepares the Annual Security & Fire Safety Report (ASFSR), to comply with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act. This report is prepared in cooperation with local law enforcement agencies surrounding the campus and the University Police Department. The report is also made available on the University website at <https://www.wilkes.edu/annualsafetyreport>.

Parking on Campus:

All Wilkes parking lots are regulated by specific locations designated for faculty/staff, commuters, residents, visitor, and disabled parking. All vehicles must be registered with the university to park on any campus lot. Parking permit regulations are in effect throughout the year during normal hours of business (7:30 a.m. to 4:00 p.m.), to include semester breaks.

Parking permit are not required Monday through Friday, from 4:00 p.m. to 7:30 a.m. and on weekends.

The Wilkes University parking system is a self-supporting service receiving no funds from the university budget or student fees. It is, therefore, necessary to apply a system of user service charges to all vehicles operated on university property. Income derived from the sale of parking permits and from the collection of monetary penalties assessed under the parking regulations is used for the administration, maintenance and improvement of parking facilities.

University Police Officers will be sensitive to the special needs of disabled persons and will make every effort to provide for parking and assistance. For more information on disabled parking, please call 570-408-4233.

Repeated violation(s) of University parking policy may result in monetary citations and/or towing, revocation of campus parking privileges, and referral to the appropriate university authorities for disciplinary action.

Enrollment Status Policy

In determining enrollment status, Wilkes-University includes all credit courses offered through resident instruction and distance education. Credits earned by credit-by-exam or credit-by-portfolio, and courses enrolled as "audit" are excluded from the calculation. The reported enrollment status for the three enrollment periods (fall, spring and summer) is determined as follows:

Graduate (Masters, DNP, EDD)

Graduate students must maintain at least half time status to receive Federal Direct Stafford or Graduate PLUS Loans. Half time status for graduate programs is typically defined as 6 credits each semester based on the progression of the curriculum.

Graduate students enrolled in fewer than 6 credits who are working on a thesis or dissertation may be eligible for federal loans if one of the following special circumstances apply:

SPECIAL CIRCUMSTANCES:

- 1) After completing all required coursework, a master's level student may be considered half-time while enrolled in a 3 credit hour thesis course. This half- time status may be maintained for two semesters.
- 2) After entering candidacy status, a doctoral student may be considered full-time while enrolled in a 3 credit hour dissertation course. A doctoral candidate may maintain full-time status in this fashion until completion of the number of dissertation credit hours specified by their program and designated on the plan of study.

Graduate (PhD)

PhD students must maintain at least half time status to receive Federal Direct Stafford or Graduate PLUS Loans. Half time status for PhD students is defined as 3 credits each semester based on the progression of the curriculum.

Enrollment Chart:**Graduate
(Masters, DNP, EDD)**

| Enrolled Credits | Enrollment Status |
|------------------|--|
| 9+ | Full-Time |
| 6 | Half-Time |
| Less than 6 | Less than Half-Time (Refer to "Special Circumstances" for Exceptions) |

**Graduate
(PHD)**

| Enrolled Credits | Enrollment Status |
|------------------|---------------------|
| 6+ | Full-Time |
| 3 | Half-Time |
| Less than 3 | Less than Half-Time |

Health Service

The Office of University Health Service maintains regular hours while the University is in session for the fall and spring semesters. A Nurse Practitioner and a Registered Nurse are available while Health Service is open, and a physician is available at specified hours during the week. Appropriate referrals are made as necessary to community physicians and hospitals. The Office of University Health Service does not provide clinic hours during the summer months. In times of escalating health care costs it is essential for students to have health insurance coverage.

Library Services

Contact: [John Stachacz](#), Dean of the Library and Information Technology

Eugene S. Farley Library

The Eugene S. Farley Library, named in honor of the first president of Wilkes University, is located on the corner of South Franklin and West South Streets. It is one of the largest resource libraries in the region, with more than 175,000 volumes of books and bound journals, 340,000 electronic books, over 60 journals and newspaper subscriptions, 84,000 full text online journals, microforms, instructional audio-video materials, and a growing collection of classic films on DVD. The library has fine collections in English and American literature, history, the sciences, and mathematics, and sizable collections in other academic disciplines reflected in the University curriculum.

Also housed in the library are the University Archives, four special collections, rooms, and a SMART classroom. Students have access to 82 desktop computers, thirty wireless laptops and forty iPads that can be used anywhere within the libraries wireless environment. Farley Library is home to the Alden Learning Commons, a technology rich learning environment that has four enclosed group study rooms, twenty open group study areas that can accommodate groups of one to six students, the University Writing Center, and the Information Technology Computer Clinic and Help Desk.

Library hours during the academic year are from 8:00 am to 12:00 midnight, Monday through Thursday, 8:00 am to 5:00 pm on Friday, 11:00 am – 6:00 pm on Saturday, and 11:00 am to 12:00 midnight on Sunday. The Alden Learning Commons is opened on a 24/7 basis and is accessible to faculty and students via an University ID swipe card system. Patrons can get research help via SMS text message from any mobile phone via the library's Text A Librarian reference service. Summer sessions and holiday hours, as well as any changes to the regular library schedule, are posted at the library entrance and on the library Web site. Library services are available online 24/7 at www.wilkes.edu/library.

Telephone: (570) 408-4250.

Farley Library Regulations

1. Use your valid Wilkes University I.D. card to obtain library privileges.
2. You are responsible for all materials charged out on your identification card. A valid Wilkes I.D. enables Wilkes University students to borrow books year-round at Misericordia University, Keystone College, King's College, Luzerne County Community College, Marywood University, and the University of Scranton.

Introduction

3. Books circulate for one month. Renewals may be made in person, by telephone, or online from the patron access area of the Farley Library catalog – Sierra. A book may be renewed once. DVDs circulate for three days (no renewal). Charges are levied for all overdue and damaged materials. Failure to pay fines or to return borrowed materials will result in denial of transcripts until fines are paid and materials returned.
4. Periodicals, journals, reference materials, and microform materials do not circulate. Reference materials, periodicals, and journal articles in print and microfilm format may be photocopied in accordance with the provisions of the U.S. copyright law.
5. To provide an optimum environment for study, all cellular phones and pagers must be kept on silent alert (vibration or visible flash) while in the library.
6. The University reserves the right to refer for disciplinary action patrons who have violated Library policy.

Farley Library Services

1. Reference Assistance: Professional staff is available for assisting students in their research endeavors.
2. Library Orientation: Group library orientation can be arranged for students upon request.
3. Bibliographic Instruction: Specific instruction in the use of library collections and reference tools is available for students upon request of the instructor.
4. Interlibrary Loan: This service is provided for students, faculty, and staff to supplement research needs. Inquire at the Reference Department for details.
5. Media Services: Media staff will have audiovisual equipment needed for classroom usage delivered to sites on campus. At least a 24-hour notice is required. Videos and DVDs may be reserved one week in advance of the expected need. The Library Media Room (Room 002) is also available, on a first-come, first-served basis, for classes or events.
6. Reserve Materials: Collateral course reading materials placed on reserve by faculty are maintained at the Circulation Desk.
7. Photocopying facilities for printed materials and micro materials are available in the library. A color copier is located on the first floor. Users are reminded to observe the restrictions placed on photocopying by the U.S. copyright law. The law and interpretive documents are available at the Circulation Desk.
8. Online searching of auxiliary databases is available by appointment through the Reference Department to support faculty research.

Music Collection

Darte Hall, on the corner of South River and West South Streets, houses a separate collection of music scores and recordings. For information about accessing materials housed in the music collection, call (570) 408-4420 or 1-800-WILKESU Ext 4420.

University Identification Cards

Wilkes University provides a photo identification card (University ID card) to all of its eligible employees and students; additionally, University approved contracted personnel will be issued a University ID card. The University ID card will be used to identify all persons affiliated and employed by the University in order to facilitate safety and security; allow the cardholder access to specific areas, services and resources; and provide other privileges as designated by the University and/or its departments. All persons affiliated with and employed by the University are required to carry their University ID card at all times.

The University ID card is intended to serve as proof of an individual's status with the University. Depending on one's status with the University, access and privileges are restricted based on specific requirements. All eligible employees, students and University-approved contracted personnel who have been issued a University ID card are required to provide the card when properly requested by an agent of the University.

If the person refuses to furnish the University ID card he/she will be removed from the building/premises and/or subject to disciplinary action. Each University ID card is the property of the University; anyone who alters or intentionally mutilates the University ID card, who uses the University ID card of another, or who allows his/her University ID card to be used by another is subject to disciplinary action.

If a card is lost or stolen it can be replaced at the University Service Center (UCOM Parkade) during regular hours of operation. A fee of \$30 will be charged to the student's account.

Wilkes University's ID Card distribution point is located at the University Service Center, 1st Floor, 148 S. Main Street (UCOM Parkade).

Graduate Admission

Graduate Admissions

Graduate admission requirements vary based upon program of study. For all programs, an applicant must have received a baccalaureate degree from a regionally accredited institution and must have satisfactorily completed a minimum of coursework in designated areas, specific prerequisite courses dependent upon the field of advanced study. For specific information, students should review the specific program of interest found in detailed sections of this bulletin.

It is expected that candidates for admission shall have maintained average or above-average performance during their undergraduate years and thus demonstrate a capacity for successfully completing graduate work. Certain programs require a specific undergraduate grade point average for admission.

A student whose background is judged to be deficient in any specific area of the proposed field of study or whose undergraduate grades are below standard may be asked to remedy the deficiency by taking one or more courses at the undergraduate level, without graduate credit.

Application

Those interested in graduate programs offered at Wilkes University may apply on-line at <https://gradapply.wilkes.edu/apply>. On campus, graduate admissions is located in the lower level of Breiseth Hall, Suite 002. You may contact the office by calling 800-WILKESU Extension 4235.

All students, whether degree-seeking or not, must complete an application for graduate admission form and pay the one-time application fee. For degree-seeking students, official transcripts (signed, sealed and sent directly from higher education institutions) of all previous college and/or university work must be submitted. Depending on the program of study and the opportunity to seek financial aid, a high school transcript may also be required. Students applying for Graduate Education programs must submit a copy of their teaching certificate for most, but not all, programs. (See specific program requirements). Some degree-seeking programs require letters of recommendation, and some require test scores for admission. (See specific program requirements.) For information on testing, contact the Educational Testing Service, Box 955, Princeton, NJ 08540, or other appropriate organization. Additional admission requirements vary based upon program. Refer to specific degree--program sections for more information on the admissions criteria for each graduate program.

Students, other than international students, who are unable to complete the application process prior to the beginning of their first semester may be allowed special admission to the program pending processing of their application. This policy does not imply acceptance of the student into the degree program. Students failing to complete the application process by the beginning of the second semester after their initial application may be denied the right to register for courses.

Categories of Admission

A graduate student may be admitted either as a degree or a special non-degree student, depending upon the student's objectives. After admission to one of these categories, request for a change of status must be officially acted upon by Graduate Admissions and the program director.

Wilkes undergraduate students may be permitted to enroll in certain graduate courses with the approval of their advisors and the Chairperson of the department offering the course. Credit for such courses will be at the undergraduate level.

Degree-Seeking Students

Regular admission is granted to students who have completed all requirements of the application process and who have demonstrated an acceptable level of academic work in their undergraduate degree program, including meeting program-specific, minimum GPA requirements and demonstrating preparedness for work at the graduate level in their field of specialization.

Provisional admission is granted to students who have not satisfied general or academic admissions requirements including missing documentation or insufficient prerequisite coursework for regular admission. Some graduate programs may allow a provisionally admitted student to begin graduate work before or simultaneously with completion of admissions deficiencies. Individual programs will determine the maximum number of graduate credits a provisional student may complete. Upon completion of the designated, maximum number of graduate credits, a provisionally admitted student will either be granted regular admission or denied admission into a graduate program. Under extraordinary circumstances a student may petition the Program Director or Chair of the Department, as applicable, for an extension to the number of allowable credits.

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Conditional admission is granted to students who have demonstrated inadequate scores or academic performance, including failure to meet the minimum GPA requirement. To change to regular status, the conditionally admitted student must maintain a satisfactory GPA, as determined by the specific department of study, during the first X credit hours (typically six credits.)

Rejection will be used in cases when a student fails to meet the general or academic admissions requirements of the individual program of study.

Cancellation. Applicants who have not fully completed the admission process, and who have not yet started taking academic classes, will have one year to complete their application file. Should the process not be completed within that timeframe, the application will be cancelled one year after the date of application.

Additionally, students who have completed the admission process and received a decision, but have not yet started taking academic courses, will have their applications cancelled one year after the date of acceptance. Students who are still interested in an academic program thereafter will be required to reapply to the program.

It should be noted that individual graduate programs retain the right to impose more rigorous conditions on students who have been admitted. Such conditions, if imposed, will be detailed in the letter of admission sent to the student.

International Students

Wilkes University's growing global perspective and commitment to education in an evolving and multicultural world is illustrated by the increasing number of students from abroad who enter Wilkes' programs. On campus the International Graduate Admissions office is located in the lower level of Breiseth Hall or by phone at 1-800-WILKESU Extension 4235.

All Graduate international students are welcome to apply with the following materials:

- A completed online application (<https://gradapply.wilkes.edu/apply/>)
- An official university transcript in English. **If you attended a college/university outside of the U.S.**, you may be required to submit a course-by-course evaluation of your foreign transcripts to be considered for admission. Emailed copies of the transcript are acceptable for the admissions process, however official transcripts are required to be submitted to Wilkes by the first day of mandatory orientation. To be considered official, the evaluation must be received directly from one of the following companies:
 - [Academic Evaluation Services](#)
 - [CGFNS International](#)
 - [Educational Credential Evaluators](#)
 - [Educational Perspective](#)
 - [Educational Records Evaluation Service](#)
 - [Foundation for International Services \(FIS\)](#)
 - [Josef Silny & Associates, Inc., International Education Consultants](#)
 - [SDR Educational Consultants](#)
 - [SPANTRAN](#)
 - [World Education Services](#)

If you attended a college/university in the U.S., you must submit an official transcript. Please contact the registrar's office at your prior institution to submit a transcript request. Transcript(s) must be sent directly from the college/university to Wilkes in order to be considered official.

- Proof of English proficiency - International students must present a sufficient English language proficiency score to enroll as a graduate student.

If the medium of instruction in your college or university was English, the English proficiency requirement may be waived. A student must provide a letter from the school's registrar stating the medium of instruction is English.

All international applicants whose education has been primarily outside the United States of America must provide objective evidence of proficiency in the English language. However, the following exceptions apply:

Applicants primarily educated in the following countries/territories:

- American Samoa
- Anguilla
- Antigua
- Australia
- Bahamas
- Barbados
- Bermuda
- Belize
- Botswana
- British Virgin Islands

- Canada
 - Cayman Islands
 - Christmas Islands
 - Cook Islands
 - Dominica
 - Falkland Islands
 - Federated States of Micronesia
 - Fiji
 - Gibraltar
 - The Gambia
 - Guyana
 - Ghana
 - Grenada
 - Guam
 - Hong Kong
 - Ireland
 - Jamaica
 - Kenya
 - Kiribati
 - Lesotho
 - Liberia
 - Malawi
 - Malta
 - Marshall Islands
 - Mauritius
 - Montserrat
 - Namibia
 - Nauru
 - New Zealand
 - Nigeria
 - Niue
 - Norfolk Island
 - Northern Mariana Islands
 - Palau
 - Papua New Guinea
 - Pitcairn Islands
 - Saint Helena
 - Saint Kitts and Nevis
 - Saint Lucia
 - Saint Vincent and the Grenadines
 - Samoa
 - Sandwich Islands
 - Sierra Leone
 - Singapore
 - Solomon Islands
 - South Africa (English-speaking, i.e. not Afrikaans)
 - South Georgia Islands
 - Swaziland
 - Tanzania
 - Tonga
 - Trinidad and Tobago
 - Turks and Caicos Islands
 - Tuvalu
 - Uganda
 - United States
 - United Kingdom
 - US Virgin Islands (St. Thomas, St. Croix, St. John)
 - Zambia
 - Zimbabwe
-
- Statement of financial verification (bank or government statement) indicating that the applicant's sponsor has on account a sum of money sufficient to pay tuition, room, board, and expenses for one academic year

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- A copy of the picture page of applicant's passport

Applicants are also required to submit necessary materials to satisfy individual program admission requirements, which can be found in their respective sections in the bulletin.

Electronic copies of application materials are accepted for the admissions process however, all official documents must be submitted by orientation day. Please email documents to graduatestudies@wilkes.edu. Applicants are required to submit all application materials to:

Wilkes University
Graduate Admissions
84 W South Street
Wilkes-Barre, PA 18766

Official University Transcript Evaluation:

Students who attended a college/university outside of the US may need to submit a course-by-course evaluation of their foreign transcripts to be considered for admission. Evaluations must be received from the evaluation company, not the student, in order to be considered official.

Wilkes University accepts course- by-course evaluations from the following companies: [World Education Services](#), [Educational Credential Evaluators](#), [Educational Perspective](#), [Globe Language Services, Inc.](#), or [Josef Silny & Associates, Inc.](#), [International Education Consultants](#).

Students who attended a college/university within the US must submit an official transcript to Wilkes University from the college/university. Please contact the institution's registrar's office to submit a transcript request. Transcripts must be received from the college/university, not the student, in order to be considered official.

Official Results of English Proficiency:

All international student applicants whose native language is not English and who come from non-English speaking countries must take the [TOEFL](#) (Test of English as a Foreign Language) or the [IELTS](#) (International English Language Testing System) exam and submit the results of this test with the application for admission or provide proof that their language of instruction was English.

Sufficient Scores for Graduate Work are as follows:

If the language of instruction for your undergraduate degree was not English, you must present official results of the Test of English as a Foreign Language ([TOEFL](#)) or International English Language Testing System ([IELTS](#)).

Wilkes University will now accept the TOEFL ITP Plus for Chinese students.

All international applicants whose education has been primarily outside the United States of America must provide objective evidence of proficiency in the English language. However, the following exceptions apply:

Applicants primarily educated in the following countries/territories:

- American Samoa
- Anguilla
- Antigua
- Australia
- Bahamas
- Barbados
- Bermuda
- Belize
- Botswana
- British Virgin Islands
- Canada
- Cayman Islands
- Christmas Islands
- Cook Islands
- Dominica
- Falkland Islands
- Federated States of Micronesia
- Fiji
- Gibraltar
- The Gambia
- Guyana
- Ghana
- Grenada

- Guam
- Hong Kong
- Ireland
- Jamaica
- Kenya
- Kiribati
- Lesotho
- Liberia
- Malawi
- Malta
- Marshall Islands
- Mauritius
- Montserrat
- Namibia
- Nauru
- New Zealand
- Nigeria
- Niue
- Norfolk Island
- Northern Mariana Islands
- Palau
- Papua New Guinea
- Pitcairn Islands
- Saint Helena
- Saint Kitts and Nevis
- Saint Lucia
- Saint Vincent and the Grenadines
- Samoa
- Sandwich Islands
- Sierra Leone
- Singapore
- Solomon Islands
- South Africa (English-speaking, i.e. not Afrikaans)
- South Georgia Islands
- Swaziland
- Tanzania
- Tonga
- Trinidad and Tobago
- Turks and Caicos Islands
- Tuvalu
- Uganda
- United States
- United Kingdom
- US Virgin Islands (St. Thomas, St. Croix, St. John)
- Zambia
- Zimbabwe

MINIMUM SCORES FOR GRADUATE WORK:

| | |
|-----------------------------|------|
| TOEFL Paper Based | 550 |
| TOEFL Computer Based | 213 |
| TOEFL Internet Based | 79 |
| IELTS | 6 |
| ELS Successful Completion | 112 |
| STEP EIKEN | 1151 |
| PTE | 50 |
| WESLI Successful Completion | 700 |
| Duolingo English Test | 95 |

You must receive a sufficient [TOEFL](#) or [IELTS](#) score or study in the Intensive English Program in order to begin graduate studies. No academic courses may be completed until the English requirement has been fulfilled.

Introduction

Submit a statement of financial:

International Students are required to submit a statement of financial verification (bank or government statement) indicating that that the prospective student or student's sponsor have on account a sum of money sufficient to pay tuition, room, board, and expenses for one academic year. It is generally required that each international student also submits an affidavit of support and bank statement indicating that the applicant has access to funds at least equal to one full year of tuition plus living and personal expenses in the United States.

Timeline:

International students for whom an F-1 visa is required, must submit all required application documents, in addition to all documents described in the Application section above, at least three months prior to the beginning of the semester in which they intend to begin graduate studies. Students should complete their application file by June 15 for admission in the fall semester and by November 15 for admission in the spring semester.

I-20 visa documents:

The U.S. Citizenship & Immigration Services (USCIS) Department requires a certificate of eligibility (Form I-20A) to be initiated by the University prior to applying for a student visa to study in this country. Any extension of stay or employment while in the United States must have the prior approval of the regional office of the Immigration and Naturalization Service.

The Form I-20A will only be issued after the application process is complete and the student has been admitted to the institution.

International students in the graduate program must maintain full-time student status (at least 9 credit hours per semester).

Missing required UG courses:

International students may be required to take certain courses for undergraduate credit that are not applicable to the master's degree. In some cases these courses will be specified in the admissions letter, but the Department Chairperson and the student's advisor may add requirements if a student is found to be deficient in the English language or in background knowledge in the field.

International Student Services Requirements

All international students must attend the mandatory orientation with International Student Services of the Center for Global Education and Diversity before they begin their graduate studies. The ISS staff serve as advisors on non-academic matters to all international students. Services include assistance with visa and other immigration issues; assistance and advice on personal issues; orientation to life in the United States and the American educational system. ISS staff assist students in dealing with U.S. and foreign government agencies, other campus offices and departments, and the community. These services are available to all international students.

International Student Academic Status

An international student holding an F-1 visa (or equivalent) must maintain full-time status during the regular semesters (fall and spring) by registering for the minimum number of credits (currently nine) as defined by the Student and Exchange Visitor Information System (SEVIS) or for the number of credits remaining in order to complete his or her graduation requirements, whichever is less.

If such student is unable to satisfy the above condition, he or she must petition the Graduate Studies Committee for an exemption. The Committee will accept only reasons recognized and specified by the United States Immigration and Naturalization Service.

An international student fulfilling the Thesis option/requirement (currently six credits) will have two continuous semesters to complete his or her work and defend the thesis. However, only the last semester may have fewer than 9 credits total. A request for an extension must be recommended by the student's Thesis Committee and approved by the Graduate Studies Committee. The decision to either grant or deny the extension must state the reasons AND the time extension granted.

An international student fulfilling the non-Thesis (Report/Project) option/requirement will have one semester to complete his or her report/project. A request for an extension must be recommended by the Program Director and approved by the Graduate Studies Committee. The decision to either grant or deny the extension must state the reasons AND the time extension granted.

To meet the definition of CPT, the employment must meet at least one of the following criteria:

1. The employment will yield crucial data which is absolutely necessary to complete the student's required thesis, i.e., it would not even be possible to complete the thesis without this employment.
2. The employment is absolutely necessary for the student to complete a project for which he or she will receive academic credit that directly counts towards the student's formal degree requirements. It will be impossible for the student to complete the project without this particular employment, and the project will earn credits that will fulfill a specific degree requirement in the student's program.

An international student who elects to do an internship, including Curricular Practical Training (CPT), must be placed in such internship and have such internship monitored by the Office of Cooperative Education. There must be a clearly defined curricular need for such internship placement.

Notice of Nondiscrimination

Wilkes University is committed to providing a welcoming environment for all members of our community and to ensuring that all educational and employment decisions are based on individuals' abilities and qualifications. Wilkes University prohibits discrimination in its educational programs, employment, admissions or any activities on the basis of race, color, national or ethnic origin, age, religion, disability, pregnancy, gender, gender identity and/or expression, sexual orientation, marital or family status, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local laws.

Consistent with this principle, Wilkes University will comply with state and federal laws such as the Pennsylvania Human Relations Act or other applicable state law, Title IX, Title VI and Title VII of the Civil Rights Act, the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act of 1967, the Ethnic Intimidation Act of 1982 (P.L. 537-154) and other laws that prohibit discrimination.

As a recipient of federal financial assistance for education activities, Wilkes University is required by Title IX of the Education Amendments of 1972 to ensure that all of its education programs and activities do not discriminate on the basis of sex/gender, including in admissions and employment. Sexual harassment, sexual assault, dating and domestic violence, and stalking are forms of sex discrimination, which are prohibited under Title IX and this Policy.

All members and visitors of the Wilkes University community have the right to raise concerns or make a complaint regarding discrimination under this Policy without fear of retaliation. Inquiries about this Policy statement may be addressed to the University's Title IX Coordinator in person, by mail, by telephone, or by email, using the contact information listed below. A report may be made at any time (including during non-business hours). Anonymous complaints may also be made via the [online harassment reporting form](#).

TITLE IX COORDINATOR

Elizabeth Leo, Esq.

elizabeth.leo@wilkes.edu

570-408-7788

DEPUTY TITLE IX COORDINATORS

For Students

Dr. Philip J. Ruthkosky, Ph.D.

Associate Dean of Student Affairs

Office of Student Affairs

2nd Floor Passan Hall

Wilkes-Barre, PA 18766

(570) 408-4108

philip.ruthkosky@wilkes.edu

For Faculty, Staff, and Visitors

Mrs. Kristin Pitarra

Human Resources Director

Human Resources Office

10 East South Street, Suite A

Wilkes-Barre, PA 18766

(570) 408-2034

kristin.pitarra@wilkes.edu

Inquiries about Title IX may be directed to Wilkes University's Deputy Title IX Coordinator, the Assistant Secretary, or both. The Assistant Secretary can be contacted at U.S. Department of Education, Office of Postsecondary Education, 400 Maryland Avenue S.W., Washington, D.C. 20202, or (800) 421-3481. For further information on notice of non-discrimination, [you can find the address and phone number of the OCR office that serves your area](#) or call 1-800-421-3481.

Professional Development for Teachers

Certified teachers wishing to take graduate courses for professional development are allowed to register as special non-degree students. They must complete the non-degree-seeking application, check status desired (special non-degree), pay the application fee, and submit a copy of their teaching certificate. While there is no limit on the number of graduate courses that teachers may take for professional development, it is understood that these courses may not fulfill requirements for a master's degree at Wilkes. Teachers should consult the Education section of this Bulletin for degree requirements as well as confer with the Director of Master's Programs in order to determine which courses are required for a specific M.S. in Education degree or Letter of Endorsement at Wilkes.

Special Non-Degree Students

Individuals who are interested in completing credits for transfer to another university or for personal enrichment need to submit a non-degree-seeking application and a copy of their undergraduate transcript. The non-degree-seeking application will be cancelled after the maximum number of six non-degree credits has been completed. Permission to complete coursework as a non-degree student is at the discretion of the individual department.

Graduation

It is the responsibility of the graduate student to sign up for a Graduation Audit no later than ninety days prior to the date of the Commencement Exercise at which the student expects to be graduated. This is done by registering for GRD-000-B (0 credits/\$170.00 graduation fee) during the beginning of the final term before graduation. Students should consult with their advisor if they have any questions regarding the process.

A completed file and acceptance into a graduate program are required for graduation. Transfer credits (approval forms and official transcripts) must be received before each semester's graduation clearance deadline. Students changing their status from non-degree seeking to degree-seeking must do so at least a year prior to graduation.

Graduating students may participate in one of the two commencement exercises held over the calendar year. These exercises occur in May and September of each year. Diplomas given during September ceremonies will always be dated as the fourth Saturday in August.

Post Graduate/APRN Certificates

It is the responsibility of the Nursing student earning a post graduate/ APRN certificate to sign up for a Certificate Audit no later than ninety days prior to the date of the Commencement Exercise at which the student expects to earn the Certificate. This is done by registering for CERT-000-N (0 credits/\$170.00 graduation fee) during the beginning of the final term before certificate completion. Students should consult with their advisor if they have any questions regarding the process. A completed file and acceptance into this post graduate/ APRN certificate program are required. Transfer credits (approval forms and official transcripts) must be received before each semester's certificate clearance deadline. Students completing their certificates may participate in one of the two commencement exercises held over the calendar year. These exercises occur in May and September of each year. Certificates given during September ceremonies will always be dated as the fourth Saturday in August.

International Student Services

For international students, International Student Services (ISS) provides immigration and visa information and assistance, as well as advice on academic, cultural, and personal issues. ISS also provides orientation to life in the United States and the American educational system, assists students in dealing with a variety of offices and constituencies, including U.S. and foreign government agencies, other campus offices and departments, and the community. These services are available to all international students.

International Student and Scholar Services

The Office of International Student and Scholar Services (ISS) is part of the Center for Global Education & Diversity. It works with units across campus to provide these services to international students who come to the U.S. to study:

- Immigration and visa information assistance both before and after coming to Wilkes
- Advice on academic, cultural, and personal issues.
- Liaison between students and other offices and departments on campus
- Collaboration with a variety of offices and constituencies, including U.S. and foreign government agencies, other campus offices and departments, and the community,

- Assistance with processes and offices outside of Wilkes University such as the DMV and Social Security Office.

A mandatory international student orientation is held every semester for new International students. Students are guided through topics such as

- Adjusting to life in the United States
- Adjusting to the American educational system.
- Resources available to them at Wilkes University

For more information contact

Crystal Cool, Assistant Director of International Student Services (crystal.cool@wilkes.edu)

Georgia Costalas, Executive Director (georgia.costalas@wilkes.edu)

Office of Diversity Initiatives

The Office of Diversity Initiatives (ODI) supports students from underrepresented groups through advising, advocating, and programming. The office is the institutional leader in diversity and inclusion for students and faculty/staff of Wilkes University through acting as a role model for tolerance, acceptance, respect, support and resources for people of all cultures and backgrounds, while celebrating differences and commonalities in a learning and developmental environment. ODI oversees the activities of the Multicultural Student Coalition. ODI provides campus-wide programming to facilitate the development of cultural competence.

Special programming includes:

- Annual Diversity & Inclusion Student Conference
- Multicultural Awards

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Academic Departments

- [College of Arts, Humanities, & Social Sciences](#)
- [College of Science & Engineering](#)
- [The Jay S. Sidhu School of Business and Leadership](#)
- [The Nesbitt School of Pharmacy](#)
- [The Passan School of Nursing](#)
- [School of Education](#)
- [Office of the Vice President for Student Affairs](#)

College of Arts, Humanities, & Social Sciences

Division of Behavioral and Social Sciences, Dr. Kyle L. Kreider, Chair

Department of Communication Studies, Dr. Evene Estwick, Chair

Division of Global Cultures: History, Languages & Philosophy, Dr. Chris Zarpentine, Chair

Division of Humanities, Dr. Mischelle B. Anthony, Chair

Department of Integrative Media and Art, Mr. Eric A. Ruggiero, Chair

Division of Performing Arts, Dr. Steven Thomas, Chair

College of Science & Engineering

Air and Space Studies, Lt. Col. Robert Hartmann, Chair

Division of Biology and Health Sciences, Dr. Kenneth Klemow, Chair

Department of Chemistry, Dr. Amy Bradley, Co-Chair and Dr. Donald Mencer, Co-Chair

Department of Electrical Engineering and Physics, Prof. Robert Taylor, Chair

Department of Environmental Engineering and Earth Sciences, Dr. Marleen Troy, Chair

Department of Mathematics and Computer Science, Dr. Barbara Bracken, Co-Chair and Dr. John Harrison, Co-Chair

Department of Mechanical Engineering and Engineering Management, Dr. Henry Castejon, Chair

Creative Writing

Creative Writing Program, Dr. David Hicks Director

Office of the Vice President for Student Affairs

PAUL S. ADAMS (1979), Vice President for Student Affairs

B.A., M.S. Wilkes, Ph.D. Pennsylvania

MARK R. ALLEN (1986), Dean of Students

B.S., M.A. SUNY, Oneonta, Ph.D. Antioch University

GRETCHEN YENINAS, (1998) Associate Dean of Student Affairs

B.A. Elizabethtown College, M.S. University of Scranton, M.A. Wilkes University

PHILIP RUTHKOSKY (1999), Associate Dean, Student Development

B.S., M.B.A. Scranton, Ph.D. Penn State

Athletics

ADELENE MALATESTA (1989), Director of Athletics

B.S. Slippery Rock, M.Ed. East Stroudsburg

Center for Global Education and Diversity

GEORGIA COSTALAS (2008), Executive Director, Center for Global Education and Diversity

B.A. Barnard, M.A. Columbia, M.A. Western Carolina, Ed.D. Wilkes University

School of Education

Doctoral Department, Dr. Karim Letwinsky, Chair

Master Level Department, Dr. Charles Smargassi, Chair

Undergraduate Department of Education, Dr. Suzanne Murray Galella, Chair

The Jay S. Sidhu School of Business and Leadership

Department of Finance, Accounting and Management, Dr. Ruth Hughes, Chair

Department of Marketing, Sports Management and Hospitality Leadership, Dr. Ge (Grace) Xiao, Chair

ABBA Program, Dr. Marianne Rexer, Director

Graduate Programs, Dr. Marianne Rexer, Director

The Nesbitt School of Pharmacy

School of Pharmacy

Department of Pharmaceutical Sciences, Dr. Marie Roke-Thomas, Chair

Department of Pharmacy Practice, Dr. Judith DeLuca, Chair

The Passan School of Nursing

Graduate Nursing Department, Dr. Kathleen A. Hirthler, Chair

Administration

A. GREGORY CANT (2020), President

B.A. University of Western Australia, M.S. Queen's University, Ph.D. University of Western Australia

DAVID M. WARD (2021), Senior Vice President and Provost

B.A. Colgate University, M.P.A., Ph.D. New York University

TERESE M. WIGNOT (1989) Associate Provost for Academic Partnerships

B.A., Ph.D. Lehigh

JONATHAN FERENEC (2008), Associate Provost for Student Success

Pharm.D. Wilkes

PAUL S. ADAMS, Vice President for Student Affairs

B.A., M.S. Wilkes, Ph.D. Pennsylvania

LOREN D. PRESCOTT (2008), Vice President for Finance and Support Operations

B.A. University of Washington, LL.M. Florida College of Law, J.D. Willamette University College of Law

MARGARET STEELE (2016), Chief Development Officer for Advancement

University Personnel

B.A. Salem College

MICHAEL J. WOOD (2006), Special Assistant to the President

B.A. Alderson-Broaddus College

KISHAN ZUBER, Vice President of Enrollment Management

B.A., M.A. Binghamton

JOSEPH HOUSENICK (2008), Assistant Vice President/Chief Human Resources Officer

B.S. King's College

JUSTIN KRAYNACK (2002), Assistant Vice President of Operations and Compliance

B.S. Misericordia University, CSRM

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STEPHEN SORDONI

Correspondence Directory

Write to or contact these persons for additional information on specific matters:

A. Gregory Cant, President
General Institutional Policy
(570) 408-4000

David M. Ward, Senior Vice President and Provost
Curriculum and Academic Affairs

University Personnel

(570) 408-3882

Susan A. Hritzak, Registrar

Readmission, registration, graduation audit, and academic records of currently enrolled and former students

(570) 408-4859

Jane Dessoie, Director of Financial Aid

Financial aid and scholarships

(570) 408-4512

Paul S. Adams, Vice President for Student Affairs

Student Affairs, readmission

(570) 408-4114

Kishan Zuber, *Vice President of Enrollment Management and Marketing*

Admission to Wilkes Undergraduate Program, visits to the campus, tours, and interviews

(570) 408-4405

Georgia Costalas, Executive Director, Center for Global Education and Diversity

International student admission and advisement; diversity initiatives and support

(570) 408-7854

Courtney Lomax, *Controller*

Student accounts and other financial matters for new and enrolled students

(570) 408-5891

Executives Emeriti

Date of award of emeritus status noted in parentheses.

J. MICHAEL LENNON (2002)

Vice President for Academic Affairs, Emeritus, Ph.D. Rhode Island

EUGENE MANGANELLO (2002)

Director of Human Resources Management, Emeritus, B.A. Wilkes

PAUL O'HOP (2002)

Vice President of Business Affairs and Auxiliary Enterprises, Emeritus, M.B.A. George Washington

Faculty

In alphabetical order, with date of appointment following the name.

MISCHELLE B. ANTHONY (2003), Associate Professor of English

B.A. Central State University, M.A. Central Oklahoma, Ph.D. Oklahoma State

CAROLE E. BADDOUR (2017), Assistant Professor of Mechanical Engineering

BESc., MEd. University of Western Ontario, Canada, Ph.D., McGill University, Canada

EDWARD T. BEDNARZ III (2013), Associate Professor of Mechanical Engineering

B.S. Wilkes, M.S., Ph.D. University of Maryland

PAOLA BIANCO (1996), Professor of Spanish

B.A. Wilkes, M.A. SUNY-Binghamton, Ph.D. North Carolina (Chapel Hill)

WILLIAM J. BIGGERS (2003), Associate Professor of Biology

B.S., M.S. North Carolina State, Ph.D. Connecticut

LORETTA M. BILDER (2011), Assistant Professor of Nursing

B.S.N. Marywood, M.S.N. Cincinnati

JOSHUA M. BLECHLE (2017), Assistant Professor of Chemistry

B.S. Truman State, Ph.D. Colorado State

ROBERT W. BOHLANDER (1979), Professor of Psychology

B.A. Lebanon Valley, M.A., Ph.D. Rochester

SCOTT BOLESTA (2005), Associate Professor of Pharmacy Practice
B.S., Pharm. D. Wilkes

AJAY BOMMAREDDY (2009), Associate Professor of Pharmaceutical Sciences
B.Pharm. Osmania University, Ph.D. South Dakota State

BARBARA BRACKEN (1998), Associate Professor of Computer Science
B.S., M.S., Ph.D. SUNY Binghamton

AMY L. BRADLEY (2004), Associate Professor of Chemistry
B.A., Ph.D. University of New Orleans

MIA E. BRICENO (2013), Associate Professor of Communication Studies
B.A. Pittsburgh, M.A. California State, Ph.D. Penn State

THANH BUI (2017), Assistant Professor of Accounting
B.S., M.S. National Economics University, Hanoi, Vietnam, D.B.A. Argosy University, Sarasota, Florida, CPA California

HENRY J. CASTEJON (2003), Professor of Materials Science and Chemistry
B.S., M.S. Simon Bolivar, Ph.D. Yale

SOFIA CHEPUSHTANOVA (2015), Associate Professor of Mathematics
Ph.D. Colorado State

KRISTEN CHESLICK (2018), Faculty of Practice of Nursing
B.S., M.S., D.N.P. (ABD) Wilkes

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Professor of Pharmaceutical Sciences Emeritus, Ph.D. Medical Academy, Lodz, Poland

BING K. WONG (2004)

Professor of Mathematics, Emeritus, Ph.D. Illinois

BRIDGETTE W. ZIELINSKI (2020)

Associate Professor of Nursing, Emerita, Ph.D. Adelphi

Office of the Provost

DAVID M. WARD (2021), Senior Vice President and Provost

B.A. Colgate University, M.P.A., Ph.D. New York University

ABEL ADEKOLA (2016), Dean, The Jay S. Sidhu School of Business and Leadership

B.B.A. Florida International, M.B.A. Barry University, Doctor of Business Administration, ova Southeastern

JONATHAN FERENEC (2008), Associate Provost for Student Success, Associate Professor of Pharmacy Practice

Pharm.D., Wilkes

MICHELE D. GARRISON (2004), Project Manager

A.A.S. Luzerne County Community College, B.A., MS.Ed. Wilkes

SUSAN HRITZAK (1983), Registrar

B.S., M.B.A. Wilkes

PRAHLAD MURTHY (1993), Interim Dean, College of Science and Engineering

B.E. Bangalore University, M.E. Anna University, Ph.D. Texas A & M University

RHONDA M. RABBITT (2015), Dean, School of Education

B.S., B.A. Wisconsin-Eau Claire, M.E. Wisconsin-LaCrosse, Ed.D. Fielding Graduate

PAUL T. RIGGS (2015), Dean, College of Arts, Humanities, and Social Sciences

B.A. Dickinson, M.A., Ph.D. University of Pittsburgh

JOHN STACHACZ (2008), Dean, Library and Information Technology

B.A. New Mexico, M.A., M.S.L.S. Kentucky

SCOTT K. STOLTE (2017), Dean, Nesbitt School of Pharmacy

Pharm.D., Purdue

TERESE M. WIGNOT (1989), Associate Provost for Academic Partnerships

B.A., Ph.D. Lehigh

DEBORAH K. ZBEGNER (1994), Dean, Passan School of Nursing

B.S.N. Allentown College, M.S.N. Pennsylvania, D.N. Sc. Widener

Presidents Emeriti

Date of award of emeritus status noted in parentheses.

JOSEPH E. GILMOUR (2012)

President Emeritus, Ph.D. Michigan

FRANCIS J. MICHELINI (2012)

President Emeritus, Ph.D. Pennsylvania

CHRISTOPHER N. BREISETH (2001)

President Emeritus, Ph.D. Cornell

BUSINESS ADMINISTRATION (MBA)

Director: Dr. Marianne Rexer

Associate Director: Karen Alessi

Graduate Admissions: Kristin Donati

CREATIVE WRITING

David Hicks, Ph. D., Program Director
Bonnie Culver, Ph.D. and J. Michael Lennon, Ph. D., Program Co-Founders

Master of Arts in Creative Writing (low residency and weekender version)
Master of Fine Arts in Creative Writing (low residency)

Accreditation

In October, 2004, the Pennsylvania Department of Education and the Middle States Association of Schools and Universities approved the Wilkes proposal for the M.A. program. The University graduated its first class in June 2006. In September 2010, the Pennsylvania Department of Education approved the addition of the Master of Fine Arts to the graduate creative writing degree offerings at Wilkes University.

Admission

Students will be accepted into the Master of Arts in Creative Writing based almost entirely upon the application essay and creative writing sample. Students applying to this program should hold a bachelor's degree from an accredited college or university; however, students without a bachelor's degree may apply. (Such applicants must provide a very strong writing sample and writing history.) No GREs are required. Applicants must submit the following for consideration:

- Completed Application.
- \$45 non-refundable application fee.
- Official transcript of all college work, undergraduate and graduate.
- Two letters of recommendation
- Creative writing sample.(a 15-25 page writing sample from any genre or genres of published/unpublished work that best demonstrates your creative ability)
- Essay response...A 3-10 page response to the following questions:
 - a. Where are you with regard to your writing and how did you get here?
 - b. Why Wilkes? What do you hope to accomplish in our program?
 - c. What will you do with your program accomplishments following graduation?
- Resume, including creative citations.

Students may enter the program in either the January or June residency. Project terms begin following each residency and continue for at least four months. Students selecting the weekender version of the MA will receive online instruction over three weekends following each residency instead of attending the weeklong residencies in January and June..

Students interested in the Master of Fine Arts must first complete the Master of Arts in Creative Writing. Students in the existing M.A. may apply for admission into the M.F.A. no earlier than the last term of the M.A.

To be accepted into the M.F.A., students must have a 3.5 in every M.A. course, write a letter of interest to the Program Director, and be approved by the full CW faculty to continue into the M.F.A. Once in the program, students must maintain the 3.5 GPA AND have a 3.5 or better in every course to remain in the program.

Transfer Credits

Students who have earned credits from another accredited graduate program in creative writing, or who have published extensively in a particular genre, may apply for 3-9 transfer credits into the Wilkes program. In addition, Wilkes M.A. alums can transfer in 12 credits if they wish to earn a second MA in a different genre, leaving them with 18 credits to earn for that second Master's degree.

Degree Requirements

(30 credit hour minimum)

The Master of Arts in Creative Writing is a 30-credit, low-residency program in seven tracks, each of which will appear on the M.A. diploma: fiction / poetry / screenwriting / playwriting / creative nonfiction/publishing / spoken word.

The Master of Fine Arts in Creative Writing (49 credit hours minimum) (low residency only, no Weekender option)

Students complete the required 30 credit hour minimum and the Master of Arts in Creative Writing plus 19 additional credit hours to earn the Master of Fine Arts degree.

BA/MA ("4+1")

Undergraduates at partner institutions hoping to attend a graduate program in creative writing after graduation may "double count" 9 credits of undergraduate and graduate instruction as a way of saving one semester's tuition in the Wilkes MA program. Qualified students would take CW 501R, the introductory residency, in person, followed by any two of the following online Foundations

Creative Writing

courses during their senior year: CW 502: Writing Fiction; CW 503: Writing Poetry; CW 504: Writing Screenplays; CW 505: Writing Plays; CW 506: Writing Nonfiction (3 credits each). Upon completion of these courses the undergraduate may apply for admission into the Wilkes graduate program with one semester's worth of transfer credit. Such students must meet all the same requirements as all other applicants in terms of demonstrated talent, ability, and dedication. Using the BA/MA (4+1) option, students will be able to complete the M.A. in a single year. Please contact the program administrators at 570-458-4547 for further information

Residencies and Semesters

All graduate creative writing programs include two components, Residencies and Project Semesters — which are outlined below. Specific credit requirements for the degree and certificate follow this discussion.

1. **Residencies** are week-long on-campus courses that are usually team taught and include required and faculty lectures, readings, performances, class discussions, and panel discussions as well as student readings. This is a time to plan project work and meet with instructors and the program director. The following courses are residencies: [[CW-501R]], [[CW-510R]], [[CW-516R]], and the capstone, [[CW-525R]]. Minimum required: 4, including capstone. The M.F.A. requires one additional residency - [[CW-616R]]. Residencies are held the first full week of January and the third week of June each year.
2. **Weekender option:** Students may opt to complete any of the winter MA residencies by receiving online instruction for three weekends immediately following the residency and responding to recorded panels and readings from the residency. Weekender students must notify the program administrators at least one month in advance of the residency of their intentions to attend the Weekender sessions in lieu of the residency.
3. **Project terms** are writing and reading project work times, beginning with foundation courses in two genre areas and ending with the final project master thesis semester. The following courses are project courses: [[CW-502]], [[CW-503]], [[CW-504]], [[CW-505]], [[CW-506]], [[CW-512]], [[CW-514]], and [[CW-520]]. Minimum foundations courses: 2; Minimum project terms: 3. All of these courses delivered online. The Master of Fine Arts requires the following additional online courses - [[CW-612]], [[CW-614]], and [[CW-620]].

EDUCATION

Dr. Rhonda Rabbitt, Dean, School of Education
Dr. Karim Medico Letwinsky, Chair of Doctoral Level Programs / Associate Professor of Education
Dr. Jin "Joy" Mao, Associate Professor of Education
Dr. Lori Cooper, Assistant Professor of Education
Dr. Ty Frederickson, Assistant Professor of Education
Dr. Victoria Jones, Assistant Professor of Education
Dr. Blake Mackesy, Assistant Professor of Education
Dr. Paul Reinert, Assistant Professor of Education
Dr. Charles Smargiassi, Chair of Master Level Programs / Assistant Professor of Education
Dr. Grace Surdovel, Faculty of Practice
Dr. Stephanie Wasmanski, Assistant Professor of Education
Dr. Jane Blanken-Webb, Assistant Professor of Education

Academic Integrity Policy

(Portions of this policy adapted from Seton Hall University's Plagiarism/Academic Integrity Policy:
<https://www.shu.edu/professional-psychology-family-therapy/plagiarism-academic-integrity-policy.cfm>)

Wilkes University holds the following principles to be essential to responsible, professional behavior for employees and students: honesty, trustworthiness, integrity and dignity, as well as respect and fairness in dealing with other people, a sense of responsibility towards others and loyalty toward the ethical principles promoted by the University through our mission, vision and values. It is important that these principles and the tradition of ethical behavior be consistently demonstrated and carefully maintained.

The School of Education at Wilkes University is highly invested in demonstrating the critical importance of these principles for the students in our programs. All faculty members are charged with upholding the high professional standards that will become the foundation for the professional development of our students. Any suspicion of academic dishonesty that is detected by faculty or staff is to be addressed as outlined in the procedure below. A quality education requires that students are as aware of their ethical responsibilities as they are their program content.

Students must assume personal responsibility to ensure that their work is original and that it is properly referenced. The American Psychological Association's Manual of Style is used as the guide for proper citation of work that is referenced by students in their research and writing.

Instructors and staff will utilize anti-plagiarism tools as a means to enforce compliance with this policy.

Students are required to acknowledge receipt of this policy as a part of their admissions process. Reference to the policy is made in the syllabus of each class and it is available for review on the University website.

This policy is intended to provide clear expectations for the conduct of students and to provide a clear process for the handling of any infractions. The examples are provided to create a context for the determination of the level of infraction and certainly are not all inclusive.

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 authorization of the instructor. Cheating can also be alleged if there are conversations (verbal or electronic) during the administration of a test or if an effort is made to solicit exam information from another student.

Fabrication – Misrepresentation of research data or creation of research data that does not exist. Fabrication can also take the form of falsifying information such as the submission time or date of assignments, reasons for tardiness of assignments or reporting false information regarding another student.

Unauthorized access to or obstruction of intellectual property – Theft of course materials from an instructor or theft of another student's work would constitute unauthorized access. 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 exams or assisting a student in obtaining unauthorized materials is also considered fabrication.

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 a portion or all of one's work. This includes, but is not limited to, material from books, journals, the internet or other students or individuals. Paraphrasing that is too close to the original work and incomplete citations are also considered plagiarism.

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

Low Level - These offenses happen because of inexperience or lack of knowledge of academic standards by the persons committing the offense. These infractions involve a small part of the total course work, or occur on a minor assignment. The following are some examples:

Education

- 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.
- Willful 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%20of%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 is made aware of a violation of the Academic Integrity Policy at the Medium Level, following consultation with the Program Coordinator, the student will be notified and the case and all supporting documentation will be forwarded to the Program Coordinator and the Department Chairperson/Director. The instructor 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 and the Department Chairperson/Director for review. The Department Chairperson/Director, the Program Coordinator and the 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. If part of the sanction is Academic Probation, this designation will be placed on the student's transcript for the designated period. 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 will immediately inform the Program Coordinator, the Department Chairperson/Director and the Dean of the School of Education. The instructor will complete an Academic Integrity Violation Charge Form. This will initiate a Formal Review Process. Supporting documentation will be reviewed and a letter to the student will be compiled and sent, via certified mail, to the student with information regarding the allegation, supporting documentation and notice that a Faculty Panel will be convened to review the evidence. The student will be allowed to submit feedback within a designated timeframe. The student may request to be present for the panel review and may choose a member of the campus community to be present as an internal advisor. The Dean will convene a Faculty Panel and set a meeting date for review of the evidence. The recommendation of the panel will be submitted to the Dean of the School of Education. The Dean will review all of the documentation and the recommendation from the Faculty Panel. 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.

Education

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, 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 Education with a major in Educational Leadership qualifies an individual for K-12 Principal Certification. The Master of Science Degree in Education with a major 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 Education with a major 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 Education with a major 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 Education with a major 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 a major in 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 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-000- 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-000-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 per student 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

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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.

| Program | Number of Weeks in Part of Term |
|---|--|
| Autism Endorsement Program (PA Endorsement) | 12 weeks |
| Educational Development and Strategies | 12 weeks for Wilkes courses; PLS courses offered in multiple formats |
| Educational Leadership, Ed.D. | 12 weeks; 6 week format available in summer |
| Educational Leadership w/ PA K-12 Principal Certification | 12 weeks |
| Educational M.S. with PA Special Education Certification | 12 weeks |
| Effective Teaching | 12 weeks for Wilkes courses; 7 weeks for PLS courses |
| Instructional Media | 7 weeks |
| Online Teaching M.S. with PA Online Instruction Endorsement | 7 weeks |
| Instructional Technology with PA Instructional Technology Specialist Certification | 7 weeks |
| International School Leadership | 12 weeks for Wilkes courses; 7 weeks for PLS courses |
| International Teaching and Learning | 12 weeks |
| Literacy Specialist | 12 weeks |
| Middle Level Education Program (30 credits, 36 credits, & Initial PA Certification) | 12 weeks |
| Literacy Specialist with Reading Specialist Certification | 12 weeks |
| School Business Leadership | 12 weeks |
| STEM Letter of Endorsement (PA Endorsement) | 7 weeks |
| Superintendent's Letter of Eligibility | 12 weeks; 6 week format available in summer |
| Teaching English to Speakers of Other Languages M.S. with PA ESL Program Specialist Certification | 12 weeks |

ENGINEERING

ELECTRICAL ENGINEERING AND PHYSICS

Chair: Robert Taylor, Faculty of Practice

- [Master of Science in Electrical Engineering \(M.S.E.E.\)](#)
- [Master of Science in Engineering Management](#)

MECHANICAL ENGINEERING

Chair: Henry Castejon, Ph.D.

- [Master of Science in Mechanical Engineering \(M.S.M.E.\)](#)
- [Master of Science in Engineering Management](#)

BIOENGINEERING

Abas Sabouni, Ph.D., Program Co-director & Advisor – Biomedical Track

William Terzagli, Ph.D., Program Co-director & Advisor - Synthetic Biology Track

- [Master of Science in Bioengineering](#)

ENVIRONMENTAL ENGINEERING AND EARTH SCIENCES

Chairperson: Brian Whitman, Ph.D.

Environmental Engineering and Earth Sciences graduate courses may be taken by special students or may be applied toward graduate degrees offered by other departments. Students planning to apply these credits toward degree programs should secure the approval of their academic advisor prior to inclusion in their course of study.

MATHEMATICS

Chairperson: Dr. Barbara A. Bracken

The courses of study are intended for:

1. Those with an undergraduate degree from a traditional mathematics program. For the degree in mathematics, a student who has met admission requirements can take up to half of the required 30 credits in computer science.
2. Current or prospective teachers of mathematics who wish to enhance their training in either educational methodology or in mathematics/computer science itself.
3. Those who plan to continue their studies beyond the master's level in e mathematics.

Admission

To be considered for admission, the applicant must submit the following:

1. A completed graduate application for admission with payment of appropriate application fee
2. Two letters of recommendation from previous academic faculty and/or from current or previous supervisors, if employed.
3. A complete set of official undergraduate transcripts from all academic institutions previously attended.

Master of Science in Mathematics

Applicants are expected to have had undergraduate courses in each of the following three areas: linear algebra/matrix theory, advanced calculus or real variables, and abstract algebra. Students deficient in one or more of these areas may still be admitted into the program, but are required to make up all deficiencies early in their graduate studies.

Master of Science in Education

Admission requirements for the Department of Education are described under the header "Secondary Education" earlier in this bulletin.

NURSING

Deborah A. Zbegner, Ph.D., CRNP, WHNP-BC; Dean of Nursing; Associate Professor
570-408-4086
deborah.zbegner@wilkes.edu

Kathleen Hirthler, D.N.P., CRNP, FNP-BC; Chair, Graduate Nursing Program; Associate Professor
570-408-5027
kathleen.hirthler

The Passan School of Nursing Faculty reserves the right to revise the Graduate Nursing Program requirements and policies as deemed necessary at any time to prepare students for new and emerging roles in nursing.

Policies of the Passan School of Nursing Graduate Nursing Program may be more stringent than other University graduate programs. *The Passan School of Nursing Graduate Program Student Handbook* details these policies and is available at [Nursing Graduate Student Handbook](#).

State Requirements for Online/Distance education

State authorization is the legal mandate that requires higher education institutions to be in compliance with the laws and regulations of each state where it conducts business. Each state has the authority to regulate educational activities that are delivered within and across its borders, including distance/online education. Additionally, states have the right to determine the process by which out-of-state colleges and universities can obtain approval. The need for higher education institutions to seek such approval depends on the requirements of each state's regulations and the types of activities an institution is conducting in the state. There can be significant consequences to institutions that are not in compliance with state authorization regulations, so Wilkes University takes this requirement very seriously.

Further details can be obtained at <https://www.wilkes.edu/about-wilkes/accreditation-and-rankings/state-authorization-and-registration.aspx>

FEES*

Additional fees exist for software products employed in graduate nursing programs, which promote student achievement of course outcomes in the distance education environment.

**Fees are subject to change.*

| Category | Course(s) Required | Approximate Fee |
|---|--|---|
| Shadow Health | NSG 500, 550, and 526 | Fees vary based upon number of courses using the software |
| CastleBranch | All clinical, research, and practicum courses for RN to M.S.N., M.S.N., Post Graduate/APRN Certificate, D.N.P. program students; Ph.D. program students, if deemed necessary based upon dissertation focus | Varies by state of residence; range \$100.00-\$300.00; one-time fee Students may be required to pay a CastleBranch Bridge fee based upon requirements of the health care agency. |
| RPNOW® | NSG 500, 530, 533, 552, 550, and most NP theory courses | \$15.00/test |
| Typhon | Nurse practitioner clinical courses | \$90.00; one-time fee |
| Residency | NSG 500 and clinical courses for NP students based upon location of precepted clinical settings; and Ph.D. program residency (NSG 615) | Students are responsible for all expenses related to the residency. |
| SPSS | NSG 601 and Ph.D. program courses | Price varies based upon source of package chosen; minimum \$50.00 |
| Professional Liability Insurance for Students in Clinical/Practicum Courses | Clinical, research, and practicum courses when completion of clinical hours and/or research are a course requirement | The fee is collected by the university for each clinical, research, or practicum course; \$30.00/clinical, research, or practicum course |
| D.N.P. Project/Ph.D. Dissertation Binding | NSG 608b and NSG 631 | \$45.00 on time fee when enrolled in these courses. PhD program students will utilize the ProQuest platform at this fee. |

Nursing

| | | |
|---|--|-----------------------|
| Graduation Degree/ Certification Audit | Completed the last semester of each program to validate all terms are met for program completion, the graduation ceremony, and degree/certification conferral. | \$170.00 |
| Dissertation Examination Retake | NSG 628 | \$50.00/second retake |

PHARMACY

Dean: Dr. Scott Stolte, Pharm.D

Assistant Deans: Dr. Jennifer Malinowski, Dr. Julie Olenak

Chairperson, Department of Pharmacy Practice: Dr. Judith DeLuca

Chairperson, Department of Pharmaceutical Sciences: Dr. Marie Roke-Thomas

Director of Assessment: Dr. Meagan Mielczarek

Director of Experiential Programs: Ms. Shelli Holt-Macey

Faculty

Professors: DeLuca, Olenak, Stolte

Associate Professors: Bolesta, Bommarreddy, J. Ference, K. Ference, Franko, Jacobs, Malinowski, Manning, McManus, Pezzino, Roke-Thomas, Trombetta, VanWert

Assistant Professors: Gruver, Kheloussi, Kieck, Lewis, Mielczarek, Nguyen, Pezzino, Shah, Tucker, Warunek

Instructors: Holt-Macey, Powers

Professor Emeritus: Kibbe, Witczak

Dean Emeritus: Graham

The School of Pharmacy offers a program of professional study leading to the Doctor of Pharmacy (Pharm.D.) degree. The purpose of the program is to prepare graduates for a successful, lifelong career providing contemporary, patient-centered care in a variety of healthcare settings.

The U.S. healthcare system continues to undergo rapid change. The role of pharmacists and medication therapy in the healthcare system is evolving. We strive to prepare graduates who have the knowledge and skills to engage in innovative practice today and the desire for lifelong learning that will prepare them for what comes in the future.

We instill a strong foundation of knowledge in the basic sciences (e.g., pharmaceuticals, pharmacology, medicinal chemistry, anatomy and physiology), clinical sciences (e.g., therapeutics, pharmacokinetics, pathophysiology), and social sciences (e.g., psychology, sociology, economics, health, policy, management) while honing the skills that are needed to provide optimal care for patients (e.g., physical assessment, patient counseling, clinical decision-making).

Our vision is to develop meaningful interprofessional education (IPE) activities where all students participate in both experiential and didactic settings. Through IPE, students understand the roles and responsibilities of health care professionals that are essential to patient care, gain first-hand experience in interdisciplinary collaboration, and develop their own individual professional identity as part of a larger team. These competencies are designed so that graduating students are trained to work as a team in optimizing patient health and outcomes. The goal of the IPE curriculum is to provide students with a set of skills and attitudes necessary to practice in an interprofessional environment.

While knowledge and skills are essential, we also ensure that our students develop as responsible citizens with highly professional demeanors who advocate, serve, care, and lead.

Our Mission

Our mission is to develop pharmacists who will provide high quality health care and to make meaningful contributions to the science and practice of pharmacy.

Our Vision

We will be recognized as an exceptional pharmacy program through innovative education, contemporary practice, and valuable scientific contributions.

Our Values

Teamwork, Professionalism, Lifelong Learning, Cultural Competency, Personalized Attention, Community Engagement

Accreditation

Wilkes University's Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 190 South LaSalle Street, Suite 2850, Chicago, IL 60603-3410; 312-664-3575; FAX 312-228-2631; www.acpe-accredit.org.

Professional Program

The Professional Program is four years and leads to the Doctor of Pharmacy (Pharm.D.) degree after successful completion of a pre-professional program typically completed in two years. Graduates of the program are eligible for state examination to become

Pharmacy

licensed pharmacists. The four years of education consist of three years of mostly in-class (i.e., lecture, laboratory, discussion group) and one full year of experiential education.

Professional Standards

Students enrolled in the program of the School of Pharmacy are expected to endorse professional standards by subscribing to the Oath of the Pharmacist. Students are also expected to abide by the American Pharmacists Association's Code of Ethics of the Profession.

Technical Standards

Students applying to and enrolling in the School of Pharmacy are expected to read, acknowledge, and understand the Technical Standards. These Technical Standards describe non-academic abilities that are required for admission to, continuation in, and graduation from the School of Pharmacy to obtain a Pharm.D. degree.

A candidate must have abilities and skills in the following five areas: 1) observational skills; 2) communication skills; 3) motor skills; 4) intellectual, conceptual, integrative, and quantitative skills; and 5) behavioral and social skills. Detailed descriptions of the Technical Standards are provided in the School of Pharmacy Application or by contacting the School of Pharmacy Dean's office.

The School of Pharmacy is committed to helping students with disabilities complete the course of study leading to the Doctor of Pharmacy degree by reasonable means or accommodations. Candidates with documented disabilities, in accordance with Wilkes University policy, and as defined by section 504 of 1973 Vocational Rehabilitation Act and the Americans with Disabilities Act of 1993, who may seek accommodations in order to meet the technical standards are encouraged to contact University College to discuss what reasonable accommodations, if any, the School of Pharmacy could make in order for the candidate to meet the standards.

The technical standards set forth by the School of Pharmacy are available at: <https://www.wilkes.edu/academics/colleges/nesbitt-school-of-pharmacy/program-information/pre-pharmacy-guaranteed-seat-program/technical-standards.aspx>

Progression Requirements

All students in the Professional Program of the School of Pharmacy are required to meet minimum standards for progression. Academic progression requirements include a minimum semester and cumulative pharmacy GPA of 2.0. In addition, no student shall be allowed more than 3 course grades less than 2.0 grades in required professional courses both inside and outside of the school. Any course with a grade of 0.0 must be repeated. At the end of each semester the progress of each student in the Professional Program will be reviewed. Students failing to meet minimal academic standards at the end of any semester must petition the Student Review Subcommittee through the Assistant Dean of Student Affairs to progress further in the School. More inclusive policies, including, but not limited to, Technical Standards, acceptable classroom and experiential site behavior, alcohol and substance abuse, and other issues impacting the image of the professional program and the student, adopted within these guidelines are distributed annually to all students in the Nesbitt School of Pharmacy Student Handbook. Advanced Pharmacy Practice Experiences (APPE) progression is described in the APPE Course Manual.

The Nesbitt School of Pharmacy (NSoP) does not replace grades for courses in which a 2.0 or higher passing grade has been earned. If the first time taking a course results in a passing grade of 2.0 or higher, this grade will be used to calculate prerequisite and overall GPA for all purposes in the NSoP. This policy applies to the pre-professional and professional programs.

Experiential Curriculum Component

Experiential learning is a critical component of the curriculum at Wilkes. Before being placed in an experiential setting, all students are required to:

- possess an active Pennsylvania Pharmacy Intern License;
- possess professional liability insurance,
- have documentation of immunizations,
- pass a physical examination,
- be certified in Basic Cardiac Life Support (healthcare provider) and Basic First Aid,
- have a criminal background check complete and clear, per site requirements, by an approved provider; and
- complete and clear other site-specific requirements, such as FBI fingerprint check, PA child abuse background check, drug screen etc.

These criteria are fully described throughout the curriculum, including deadlines and ramifications of non-compliance.

The Introductory Pharmacy Practice Experience (IPPE) consists of a number of different experiences. During the summer following successful completion of the P-1 year, students will complete a 2-week (80 hours) Introductory Pharmacy Practice Experience (IPPE I). The second professional year (the P-2 year) includes 40 hours of IPPE II during the fall and/or spring semester. In addition, students will complete a 2-week (80 hours) IPPE III during the summer after the P-2 year. In the third professional year (P-3) of the professional program, the curriculum includes a two-semester course in service learning (longitudinal care), and 24

hours of IPPE IV (Clinical Telepharmacy). IPPE V is a self-directed IPPE and consists of 20 hours of independent pharmacy-related, service-oriented learning earned during the P1 through P3 years. IPPE's occur at practice sites and in the community in locations not on campus.

The Advanced Pharmacy Practice Experience (APPE) occurs during the fourth professional year (the P-4 year) of the professional program. Each student will be assigned to 7 rotations (5-6 weeks each) comprising a total of 1440 hours, some of which may be at some distance from the Wilkes-Barre area. As much as possible, The School of Pharmacy will assist in locating safe, affordable housing for APPEs. Since patient care is a continuous activity, some experiences may be conducted outside of regular school/business hours. Note also that APPE start and end dates do not adhere to the regular university calendar. The student is responsible for paying all transportation, site requirement, and housing costs for all experiential components of the curriculum, except where noted.

Graduation, Degree and Licensure Requirements

It is the student's responsibility to meet all graduation requirements, and it is expected that all students accepted into the Pharm.D. Program will meet regularly and frequently with their advisors to ensure timely progress toward their Doctor of Pharmacy degree. Graduation is dependent on successful completion of all required and elective course requirements in the School of Pharmacy (see Progression Requirements) AND completion of all General Education Requirements mandated by Wilkes University.

A student entering the Professional Program with a bachelor's degree from a four-year accredited college or university is exempted from the University's General Education Requirements, but is not exempted from the prerequisite entry requirements prescribed by the School of Pharmacy for entry into the Professional Program.

Students applying with degrees or courses from foreign colleges or universities will be evaluated to ensure significant portions of the General Education Requirements are satisfied. Prerequisite course requirements must still be met.

All non-degreed students entering the Professional Programs are encouraged to complete the General Education Requirements prior to beginning the Professional Curriculum. As mentioned, a student may be deficient in two General Education requirements and be granted admission into the program. Student will receive consultation and documentation from their advisor that these courses must be completed prior to graduation. Students with more than two deficient General Education courses may appeal to the Student Affairs Committee of the School of Pharmacy for consideration. This requirement is in place since there is no room within the professional curriculum, including summers, to complete the courses. As a matter of record, non-degreed students who have successfully completed the second professional year (P-2) in the School of Pharmacy AND completed all General Education Requirements will be awarded a Bachelor of Science in Science degree. The pass-through B.S. degree does not meet eligibility requirements for licensure as a pharmacist; it is only intended to acknowledge the academic achievement of students completing four years of university-level education.

Pharmacy licensure is governed by state law. All states require graduation from an accredited School or College of Pharmacy. Additional requirements for licensure should be requested from the state in which licensure is sought. It is the student's responsibility to fulfill all requirements for the state in which they seek licensure. Students must contact that State Board of Pharmacy for all appropriate paperwork. For further information, please contact the Dean's Office in the School of Pharmacy.

The School of Pharmacy reserves the right to revise the Pharmacy Curriculum at any time in order to prepare students for future practice roles, meet new accreditation requirements and to incorporate innovations in instruction.

SPECIAL PROGRAMS

Special Programs

- [Army Military Science](#)
- [MBA 4 + 1](#)
- [PharmD/MBA](#)
- [Pre-Law Studies](#)
- [Other Special Programs](#)

CERTIFICATE

AUTISM ENDORSEMENT PROGRAM

Autism Endorsement Program

Pennsylvania Autism Letter of Endorsement Program

Dr. Suzanne Murray Galella, Program Coordinator

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 to add the letter of 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.

LITERACY SPECIALIST

Literacy Specialist

Dr. Vicki Jones, Program Coordinator

By combining theory and application, candidates will learn how to assess, diagnose and teach students how to be active and effective 21st century listeners, speakers, readers, and writers. In addition, candidates who complete the program will have the most current research-based tools necessary to facilitate literacy initiatives within their own school districts.

The coursework includes two foundational literacy acquisition and development courses, a course focused on literacy and brain research, two courses on best practices in assessment and remediation, two courses on literature supporting 21st century students (including multicultural text and digital literacy), an advanced literacy and learning in the content areas course, a leadership course focused upon literacy leadership, and a literacy education practicum course. Students who successfully complete the course sequence and who hold a valid Pennsylvania Level I or II teaching certificate will be prepared to complete the Praxis exam and apply for the PDE reading specialist certification.

The Literacy Program Learning Outcomes are as Follows:

1. Candidates demonstrate the knowledge of the theoretical, historical, and evidence-based foundations of reading, writing, language, speaking, listening, viewing, and the integral role of the reading/literacy specialist in schools.
2. Candidates use foundational knowledge to design literacy curricula to meet needs of learners, especially those who experience difficulty with literacy. Design and implement small-group and individual evidence-based literacy instruction for students with specific literacy needs; collaborate with and coach school-based educators in developing, implementing, and evaluating the instructional practices.
3. Candidates will lead professional learning experiences to assist teachers in selecting, administering, analyzing, interpreting, and using data results for instructional decision making for classrooms and schools.
4. Candidates demonstrate knowledge of relevant research, relevant theories, pedagogies, essential concepts of diversity and equity, demonstrate and provide opportunities for understanding all forms of diversity as essential to students' identities; create classrooms and schools that are inclusive and affirming; advocate for equity at school, district, and community levels.
5. Candidates meet the developmental needs of all learners and collaborate with school personnel to use a variety of digital and print materials to engage and motivate all learners; integrate digital technologies in appropriate, safe, and effective ways; foster a positive climate that supports a literacy-rich learning environment.
6. Candidates are self-aware, lifelong learners who collaboratively design, align, and assess instructional practices and interventions that support students

and professional colleagues; develop, refine, and demonstrate leadership skills; engage in collaborative decision making with and advocate on behalf of teachers, students, families, and communities.

7. Candidates complete a supervised, integrated, extended practicum/clinical experiences: one focused on intervention with student and the other on coaching; practicum experiences are on-going with at least one in school-based setting; and supervision includes observation and ongoing feedback by qualified supervisors.

(International Literacy Association, 2017)

M.S. in Education for the Literacy Specialist:

- LIT 501 - Foundations of Literacy Acquisition and Development (Reading and Writing)
- LIT 502 - Advanced Linguistics: Language Foundations for Teachers of Reading, Writing, and Spelling
- LIT 503 - Applying Brain Research to Literacy Development and Instruction
- LIT 504 - Best Practices in the Assessment and Remediation of Struggling Readers and Writers- Part I
- LIT 505 - Best Practices in the Assessment and Remediation of Struggling Readers and Writers-Part II
- LIT 506 - Literacy Development and Literature for Adolescents
- LIT 507 - Introduction to the World of Literature for Children and Adolescents
- LIT 508 - Literacy and Learning in the Content Areas
- LIT 509 - Best Practices in Contemporary Literacy Leadership
- LIT 510 - Literacy Education Practicum

MIDDLE LEVEL EDUCATION WITH CERTIFICATION

Middle Level Education Programs with Pennsylvania Grades 4 to 8 Certification

Ms. Vicki Jones, Program Coordinator

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

Middle Level Education with Certification

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

Ms. Vicki Jones, Program Coordinator

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)
LIT 508 Literacy and Learning in the Content Areas (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)
EDML 5008 Student Teaching internship in Middle Level Education** (6 credits; final semester; permission required)

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)

*** Additional coursework may be required based on transcript review prior to admission.**

**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.

SPECIAL EDUCATION

Pennsylvania Special Education Certification Option

Dr. Suzanne Murray Galella, Program Coordinator

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 program, 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. An applicant who is certified in another state may contact the Pennsylvania department of education (PDE) at www.pde.psu.edu to apply for PA certification, prior to admission to Wilkes University.

Credits Required for Program Completion: PK-12 Special Education Certification Only: 30 Credits

All students will apply to the 'degree seeking' program, but will notify the program coordinator if ONLY seeking certification. Courses designated with * are the required courses for state certification

Master's Degree with PK 12 Special Education 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

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.

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 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.

Program Requirements:

*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. 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.

*ED 535: 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 : *Principles of Law & Special Education Law* (3 credits)

ED 522: Curriculum and Instruction (3 credits)

ED 585: 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: Teaching Students with High Incidence (3 credits; 20 hrs.)

*EDSP 502: Teaching Students with Low Incidence Disabilities 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: Secondary Transition in Special Education(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.

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 Pennsylvania Department of Education requires candidates to pass tests specific to their intended certification area. Current students should consult their advisor for certification tests required.

MASTERS

EDUCATIONAL DEVELOPMENT AND STRATEGIES

Educational Development and Strategies

Ms. Renee Sipple, Program Coordinator

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 demonstrate the ability to implement strategies to guide instruction for learning to achieve established learning goals.
2. Students will apply differentiated instruction techniques and strategies to create learner centered classrooms and lessons for diverse populations.
3. Students will describe and apply 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 demonstrate the ability to model and directly teach communication skills that build rapport with the community of learners.

Program Requirements:

The requirements for this 30-credit degree are:

Area I: Foundations of Education (6 credits required)

- ED 519 Principles of Law & Special Education Law (3 credits) - required

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)

- Select from courses numbered ED 541-561, ED 5020, ED 5024 and ED 5401-5407

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.

EDUCATIONAL DEVELOPMENT AND STRATEGIES INTERNATIONAL

Educational Development and Strategies International

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)

The program consists of 30-credits (10 graduate courses). Each student will take 5 core classes through Wilkes and choose 5 PLS 3rd Learning courses that best meet their individual needs.

EDUCATIONAL LEADERSHIP (EDLS)

Educational Leadership with PA K-12 Principal Certification

Dr. Charles Smargiassi Chair/Assistant Professor of Education
Program Director

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 592 B: Administrative Internship and Applied Research Project (3 credits each; taken last—90 intern hours per course; Part A and B must be taken consecutively.)

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. 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.

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) (6 credits)
- ED 5028 Building a Professional Network (PLS) (3 credits)

Choose 6 credits:

- ED 5029 Essential Classroom Strategies (PLS) (6 credits)
-or-
- 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. Students will apply leadership skills in the area of technology integration through participation in professional networks and membership in the global educational community.
2. Students will examine research-based, pedagogically proven instructional strategies that promote student-centered learning.
3. Students will design lesson plans and instructional activities that require the communication of knowledge and understanding through technology integration.
4. Students will develop safe learning spaces that promote digital and global citizenship.

The requirements for this 30 credit degree are:

Foundations and pedagogy courses (21 credits)

EDIM 500 Foundations for Future-Ready Students (3 credits)
EDIM 503 Differentiation Supported by Technology (3 credits)
EDIM 508 Instructional Strategies for Using Digital Content (3 credits)
ED 521 Using Technology for Assessment (3 credits)
EDIM 510 Targeting Higher Order Thinking Skills with Online Tools (3 credits)
EDIM 509 Practical Research Through Teacher Inquiry (3 credits)

Elective courses (choose 12 credits)

*EDIM 502 Project-based Learning (3 credits)
*EDIM 513 Inquiry-based Learning (3 credits)

EDIM 515 Mobile Devices for Teaching and Learning (3 credits)
EDIM 516 Responsive Digital Leadership(3 credits)
*EDIM 517 Practices & Implementation of STEM Education (10 hrs. field experience for PDE STEM Endorsement)(3 credits)
*EDIM 518 Creating a STEM Culture Through Application(10 hrs. field experience for PDE STEM Endorsement;
Prerequisites- EDIM 502, EDIM 513, EDIM 517)(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.

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 10 courses (30 credit hours) all offered online.

The requirements for this 30-credit degree are::

PLS 3rd Learning/ AAIE Courses (21 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)

Wilkes Required: 9 credits

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

MA IN CREATIVE WRITING

Requirements for the MA in Creative Writing

3 terms (three 3-credit residencies followed by three 6-credit semesters), typically completed in 18 months = 27 credits

1 final ("capstone") residency featuring a presentation of the graduate's thesis = 3 credits

Thesis Requirements

To satisfy the Masters of Arts in Creative Writing thesis requirement:

Students graduating with a Master of Arts in Creative Writing will produce and present a full-length text and support materials that demonstrate the mastery of requisite standards, processes, and procedures for bringing that project into its appropriate public venue. The diploma will also specify which area of study the student pursued and include the following options: poetry, spoken word, fiction, screenwriting, playwriting, creative nonfiction, and publishing.

Capstone Requirements

The Master of Arts in Creative Writing Capstone is where students have a chance to demonstrate their full mastery of their major area that meet all of the student learning outcomes listed above. All Master of Arts creative projects, no matter which track, will be evaluated by an outside reader who is an industry expert—an experienced NYC editor, literary agent, publisher, producer, or director. A unique quality of the Wilkes M.A. is how that work comes together in the final capstone, a public presentation of their work during the final residency. All capstones, no matter which area the graduate selects, must have both a written and spoken component and must also meet specified graduation criteria.

The following are the area-specific requirements for the Master of Arts in Creative Writing capstone:

Poetry

During the final residency (CW 525R) poets will present a formal reading from their finished poetry chapbook or poetry collection. The formal reading will be limited to ten minutes followed by a Q & A from faculty, mentors, and other students. Some or all work must be recited.)

THESIS/Support materials will include:

- THESIS (24-50 pages, chapbook; 50+ pages., collection)
- A query letter (1-2 pages)
- Writing Self-Analysis Essay, including Writing Life Plan
- Artist's statement (1 page.)
- Final annotated bibliography of all readings leading to the thesis project, from CW 512-520.

Fiction

During the final residency (CW 525), fiction writers will present a formal reading from their manuscript, which will be either a novel or short story collection. The formal reading will be

limited to ten minutes, followed by a Q & A from faculty, mentors, and other students.

THESIS/Support materials will include:

- THESIS- (Novella, novel, or short story collection- 120 page minimum)
- A query letter (1-2 pages)
- Writing Self-Analysis Essay, including Writing Life Plan
- Jacket blurb (bio) (1 page.)
- Final annotated bibliography of all readings leading to the thesis project, from CW 512-520.

Plays

Playwrights will work before their capstone residency with an assigned director to cast and to prepare the play for a formal staged reading that will be held during the residency or off-campus at a designated theater. Experienced actors, appropriate to the work, will be utilized. Playwrights will be prepared to answer questions about their work and processes, following the staged reading.

THESIS/Support materials will include:

- THESIS-(Full-length play, collected one-acts, or performance piece 80+ pages)
- A query letter (1-2 pages.)
- Playwright's bio (1 page.)
- Writing Self-Analysis Essay, including Writing Life Plan
- Play synopsis (1-2 pages.)
- Final annotated bibliography of all readings leading to the thesis project, from CW 512-520.

Screenplays

Screenwriters will work with their writer mentors in the pre-residency to prepare their script for a table reading during their final residency (CW 525R). Readers will include actors, cohort members, and other available readers. Screenwriters must be prepared to present a "pitch" to a film producer, agent, or director before the reading and to answer process questions, following the table reading.

THESIS/Support materials will include:

- THESIS-(Full-length screenplay, collected feature shorts, 80+ pages.)
- The "pitch"
- A query letter (1-2 pages.)
- Writing Self-Analysis Essay, including Writing Life Plan
- Screenplay treatment (2-4 pages.)
- Final annotated bibliography of all readings leading to the thesis project, from CW 512-520.

Creative Nonfiction

During the final residency (CW 525R), creative nonfiction writers will present a formal reading from their completed full-length manuscript, which will be either a memoir or essay collection. The formal reading will be limited to ten minutes, followed a Q & A from faculty, mentors, and other students.

THESIS/Support materials will include:

MA in Creative Writing

- THESIS-(Full-length manuscript or collection of short works)
- A query letter (1-2 pages.)
- Writing Self-Analysis Essay, including Writing Life Plan
- Back flap copy (bio) (1 page.)
- Final annotated bibliography of all readings leading to the thesis project, from CW 512-520.

Publishing

During the final residency (CW 525R), students in the publishing track will present their new e-zine, small press, journal as if they are actually launching this new company. These students will make a formal presentation to a panel of publishers, editors, and agents. Additionally, they will create materials that will be included in a M.A. book fair.

THESIS/Support materials will include:

- The first creative work to be launched by the student's new company
- The portfolio of work leading to the student's decisions:
- Business plan, vision/mission statement, etc.
- Marketing materials for launch
- Self-analysis essay, including the Writing Life Plan
- Final annotated bibliography of all readings, interviews leading to the thesis project, from CW 512-520.

Spoken Word

During the final residency (CW 525R), students in the Spoken Word track will present a ten-minute live performance of their work, followed by a Q&A.

THESIS/Support materials will include:

- THESIS (either 25-50 page transcript of their performance pieces or a one-hour Youtube video of their performances.)
- A short (three minutes max) video to serve as a "query" for a Spoken Word organization or contest.
- Writing Self-Analysis Essay, including Writing Life Plan
- Artist's statement (1 page.)
- Final annotated bibliography/videography of all readings leading to the thesis project, from CW 512-520

Learning Outcomes

Craft

Demonstrating the mastery of one's major area of study through the practice of writing in various forms, including the demonstrable and the proven ability to employ the generic elements (e.g. setting, point of view, rhythm and meter), and to critique one's own work and that of others honestly and vigorously.

Most creative writing programs spend most of their assigned time in workshops emphasize craft. The Wilkes program also spends a great deal of time on studying how a text "works," whether it be a classic model, students' work, or a peer's draft. To become a better writer, students must learn how to objectively analyze and critique a wide range of texts in their areas of study.

At the completion of this program, students will be able to:

1. Describe the breadth and depth of knowledge of the historical context and tradition of the range of forms, conventions, and styles within their selected major and minor areas.
2. Demonstrate competency in the technology of their major genre area.
3. Demonstrate mastery of the industry-specific formatting and presentation of creative work by genre.

Community

Through the week-long residencies and online writing classes (in which students use our online learning system to dialogue with one another), students will bond with the other students in their cohort, with their faculty, and with the program administrators, creating their own writing community within three or five semesters together. Together they will build a thorough understanding of the discipline, habits, and support mechanisms required for continued sustenance for the writing life.

At the completion of this program, students will be able to:

1. Articulate the strengths and weaknesses of and discriminate between the archetypal models of writerly lives as they build a writing life plan of their own design.
2. Articulate the strengths and address the weaknesses of the work of their peers, as well as their own work and their writing process.
3. Articulate the ways in which the student will be able to create and sustain the writing life (the writing life plan).

Career

Studying the multiple and appropriate pathways in which one's creative work becomes public, including knowing the research methods, business practices, and genre-specific conventions that writers need to obtain notice of and appreciation for their work.

This program strand addresses the business, economic, and genre-specific opportunities for your work. Faculty panels from each genre will introduce this idea to students in the first residency. As students move through the program, the faculty and their mentors will work with students to understand both the business practices and the appropriate pathway for their work.

At the completion of this program, students will be able to:

1. Understand the legal and ethical standards and the practical issues of their profession, and demonstrate that knowledge through the residencies and portfolio work of the program.
2. Speak and write to people in professional venues of their area in a confident manner.
3. Be able to articulate, both in writing and orally, their own creative work, using genre-specific tools.
- 4.

MA Degree Requirements | 30 credits

First Residency

| | | |
|---------|--|------------------|
| CW 501R | Foundations of Creative Writing /1st Residency | Total credits: 3 |
|---------|--|------------------|

The First Residency (a combination of workshops, craft lessons, panels, and readings) is followed by the **First Project Semester**: Students select any two of the following foundation courses, delivered online by faculty from each genre.

Students should choose the genre in which they expect to write their thesis along with a second genre of their choice. Those who expect to enter the publishing track may select from any two of the five foundations courses.

| | | |
|--------|-----------------------------|------------------|
| CW 502 | Writing Fiction | 3 |
| CW 503 | Writing Poetry | 3 |
| CW 504 | Writing Screenplays | 3 |
| CW 505 | Writing Plays | 3 |
| CW 506 | Writing Creative Nonfiction | 3 |
| | | Total Credits: 6 |

Second Residency

| | | |
|---------|---------------------------|------------------|
| CW 510R | Planning the Writing Life | Total credits: 3 |
|---------|---------------------------|------------------|

Prior to this residency, students will select which track they are pursuing and be assigned a mentor in that genre. They will then meet with their mentors during the residency to form a study plan for the upcoming semester.

The Second Residency is followed by the **Second Project Semester**: Students will be registered in two of the courses listed below according to their chosen area of study: CW 512, a reading-intensive course, and CW 514, a writing-intensive course:

| | | |
|---------|--|---|
| CW 512F | Genre and Context in Fiction | 3 |
| CW 512P | Genre and Context in Poetry or Spoken Word | 3 |
| CW 512S | Genre and Context in Screenwriting | 3 |
| CW 512L | Genre and Context in Playwriting | 3 |
| CW 512N | Genre and Context in Nonfiction | 3 |
| CW 512U | Genre and Context in Publishing | 3 |
| | | |
| CW 514F | Genre and Context in Fiction | 3 |

| | | |
|---------|--|------------------|
| CW 514P | Genre and Context in Poetry or Spoken Word | 3 |
| CW 514S | Genre and Context in Screenwriting | 3 |
| CW 514L | Genre and Context in Playwriting | 3 |
| CW 514N | Genre and Context in Nonfiction | 3 |
| CW 514U | Genre and Context in Publishing | 3 |
| | | Total Credits: 6 |

Third Residency

| | | |
|---------|---|------------------|
| CW 516R | Final Project/ Thesis Plan Residency Course | Total Credits: 3 |
|---------|---|------------------|

Third Project Semester: FINAL WRITING TERM—STUDENTS SELECT COURSE BY AREA OF STUDY (6 credit courses):

| | | |
|----------|---|------------------|
| CW 520 F | Final Project / Fiction Thesis | 6 |
| CW 520 P | Final Project / Poetry Thesis | 6 |
| CW 520 S | Final Project / Screenwriting Thesis | 6 |
| CW 520 L | Final Project / Playwriting Thesis | 6 |
| CW 520 N | Final Project / Nonfiction Thesis | 6 |
| CW 520 U | Final Project / Publishing Thesis | 6 |
| CW 520 D | Final Project / Documentary Film Thesis | 6 |
| CW 520 D | Final Project / Documentary Film Thesis | 6 |
| | | Total Credits: 6 |

Fourth Residency

Master of Arts in Creative Writing

| | | |
|---------|------------------|------------------|
| CW 525R | Masters Capstone | Total Credits: 3 |
|---------|------------------|------------------|

All students present capstone projects by area of study

| | | |
|--|----------------------------------|----|
| | Total Credits for Master of Arts | 30 |
|--|----------------------------------|----|

Optional CW 530. Continuous registration (one - six credits) optional course used to complete capstone coursework.

MFA IN CREATIVE WRITING

Masters of Fine Arts in Creative Writing Degree Requirements:

Students first complete the 3-semester MA in Creative Writing before continuing on (following a Letter of Interest and acceptance from the program director) to the MFA for two additional semesters.

MFA = 49 Credits (30 credits from the MA in Creative Writing + 19 additional credits)

Students continuing on to the Master of Fine Arts in Creative Writing will revise their Master of Arts thesis based on the feedback of their outside reader (an agent, editor, director, or producer) to produce a publishable manuscript, or begin a new project in the same genre or a different genre from their MA thesis. Additionally, they will produce and present a literary analysis paper, complete a term-long internship in teaching or publishing, and submit a final portfolio that chronicles their work in the entire program, all of which demonstrate their understanding and utilization of their literary tradition and the best practices of teaching pedagogy or the publishing/writing industry.

First MFA Semester: CW 612: Literary Analysis (6 credits)

MFA Residency: CW 616R (3 credits)

Second MFA Semester: CW 614: Project Revision (3 credits) and CW 620: Internship in Creative Writing (6 credits)

Final MFA Residency: CW 650R (1 credit)

CW 612: Literary Analysis

Acknowledging and understanding the diverse forms, styles, and ongoing tradition of the student's chosen literary genre.

At the completion of this course, students will be able to:

1. describe the breadth and depth of knowledge of the historical context and tradition of the range of forms, conventions, and styles within their selected major area.
2. demonstrate an understanding of the literary tradition and where their own work lives within that literary spectrum.
3. demonstrate mastery of literary analysis by writing a formal MFA level extensive craft paper (25+ pages).
4. demonstrate a mastery of an oral presentation that is a cutting of the extensive formal essay (15 minutes).

CW 620: Internship in Creative Writing

Students will either teach creative writing or intern at a publisher or writing organization.

At the completion of this course, students will be able to:

1. demonstrate an understanding of how best to teach or work in a variety of artists-in-residency or publishing venues.

2. demonstrate competency in the best practices of teaching creative writing or in the business of supporting writers and their work in a publishing or writing organization.
3. demonstrate mastery of genre-specific elements at all levels, both to teach and to model those elements.

CW 650: The Professional Writer

An abbreviated (2-day) residency workshop on the Life of a Writer, post-MFA: querying and submitting to agents and editors; marketing your work; networking among readers and writers; literary citizenship; making money as a writer.

The Final MFA Portfolio

At the end of the student's MFA experience they will submit a final portfolio, demonstrating their understanding of the best practices of effective teaching and sustaining creative work, including the ability to critique and facilitate the creative work of others honestly and vigorously while continuing to produce one's own creative work.

Final M.F.A. portfolio will include:

1. revised M.A. thesis (or a new project in the same or a different genre);
2. 25-50 page craft chapter or essay;
3. copies of materials developed and written during the internship;
4. final annotated bibliography of readings from the entire program;
5. final summary of program work vis-à-vis a self-analysis paper.

At the completion of this program, students will be able to:

1. understand the legal and ethical standards and the practical issues of the teaching or publishing profession, and demonstrate that knowledge in the residencies and portfolio work of the program;
2. demonstrate competency in the best practices of creative writing pedagogy or the business practices of the publishing industry;
3. demonstrate advanced writing competency in their own creative work;
4. demonstrate an advanced knowledge of contemporary literature in their area of study in an oral and written presentation of their analysis of assigned texts.

MFA Residency #1

Students will begin the MFA coursework during the final MA residency, known as the Capstone residency (CW 525R), by attending additional modules taught by faculty with advanced degrees. Students will receive a formal reading list from their CW 612 faculty and develop their analysis plan in those meetings.

Project Term #1 -CW 612. Literary Analysis

6 Credits

Reading, analyzing, and preparing an extensive (25-50 page) graduate paper that demonstrates the students' understanding of the history, tradition, various forms, and diverse styles

of contemporary literature in one area of study--fiction, creative nonfiction, film, drama, or poetry. Reading list will be provided by the faculty and students' essays' approach must be approved by faculty mentor and the Program Director. A formal presentation of this essay will take place at the subsequent residency, CW 616R.

CW 614. Revision Term

3 credits

Students will either continue to work with a faculty mentor to revise their MA creative thesis and prepare it for publication/production OR begin a new project, either building upon the strengths of the Master of Arts thesis or in a new genre previously studied in the first (Foundations) MA semester.

Residency #2 -- CW 616R. Writing in Education/Publishing

3 Credits/Residency Course

Students will be required to make a formal presentation of their CW 612 literary analysis essay. Students will complete work generated by team-taught modules to prepare them for an internship in teaching, publishing, or a writing organization. They will meet with peers and faculty to create and deliver mini-lesson plans for proposed courses or a study plan in publishing or some other writing organization. Such work must draw upon the best practices of the industry. By week's end, students will have an internship plan and internship supervisor assigned to them.

Project Term #2 -- CW 620. Writing in Education/Publishing Internships

6 Credits

Students will either teach creative writing or intern with a writing organization, such as a magazine, small press, or literary agency. Students will document their work through student portfolios and will be supervised by a faculty mentor. In whatever experience students select, they must demonstrate student contact hours of no fewer than 40 hours per term for teaching and 20 hours per week for internships with writing organizations. Students will present a final analysis of their teaching or publishing experience at term's end.

CW 630. Continuous Registration

1-6 Credits

This optional course allows students to continually register when needed for further revision in preparation of their final project or to experience an independent study in a second genre.

MASTER OF BUSINESS ADMINISTRATION

The Master of Business Administration program is part of the Jay S. Sidhu School of Business and Leadership, which combines a strong core business education with the development of skills for authentic leadership and ethical business practices.

The Sidhu School's Master of Business Administration degree program expands business knowledge, management skills, and leadership capabilities of early and mid-career professionals from many disciplines, functions, and jobs in order to enhance their success at work, adding value both for the student and for the organizations with which the student is associated. The MBA Program serves individuals in professional, functional, administrative, and managerial roles who seek to improve their level of performance and their prospects for advancement, by providing a strong foundation in general management through the development and integration of knowledge and skills in functional areas essential to effective management and leadership of a business.

Students are encouraged to focus the program of study in a way that is relevant and adds value to the roles they carry out at work and roles into which they may be promoted, and to initiate a systematic process of development as effective leaders as they continue to progress through their careers. In addition, the MBA Program seeks to contribute to the success of the businesses and organizations in which MBA candidates work, by enhancing key skills essential for organizational performance and adding to the quality of the pool of managers and leaders in these organizations.

The Master of Business Administration program is accredited by The Accreditation Council for Business Schools and Programs (ACBSP). ACBSP accreditation affirms the excellence of these programs to graduate and professional schools as well as potential employers, and thereby serves as a major competitive advantage for students completing business programs at Wilkes. The Jay S. Sidhu School of Business and Leadership is also a member of the Association to Advance Collegiate Schools of Business (AACSB).

MBA students are encouraged to participate in the broader life of the Wilkes University community. An active MBA Student Association provides programming of interest to its members, and gives them a voice with the administration of the Sidhu School and the University at large. The Sidhu School also sponsors an active chapter of Delta Mu Delta, an honorary business society that recognizes the highest levels of academic achievement by undergraduate and graduate students. Annual awards recognize outstanding academic achievements among MBA candidates.

Vision

Sidhu School graduates will be prepared with the knowledge, skills, experiences, and passion to lead diverse organizations in the face of dynamic challenges and a rapidly changing global environment.

Mission

The Sidhu School transforms students through an empowering education in a mentoring environment that develops personal, professional, and leadership skills through scholarship, experiential learning, and community engagement.

Distinctive Objectives Of the MBA Program

The curriculum leading to the Master of Business Administration degree at Wilkes emphasizes a general, broad-based approach to graduate business education. Students acquire the quantitative and judgmental skills necessary for a manager to succeed. The core objectives of the MBA include:

Communication. to enhance the skills necessary to effectively transfer information applicable to any discipline through presentations, team projects, and interactions with peers.

Decision-making. to enable individuals to create and evaluate alternative courses of action as a procedure for making decisions and teach them the mental processes of problem identification and resolution techniques needed to perform critical thinking, enabling them to make important decisions.

Ethics and social responsibility. to provide students with a set of principles that govern actions of moral conduct in order that they might operate ethically in today's business environment and instill in students the concept of acting responsibly in order to benefit and serve society.

Leadership. to develop in students the potential to influence others in order to accomplish organizational goals by exposing them to theories of organizational leadership and development, and fostering that growth with projects throughout the course of their studies.

Professionalism. to develop professional managers, with emphasis on the organization, operation, and control of an enterprise, including international and diverse perspectives.

Team performance. to provide meaningful opportunities to cultivate teamwork throughout the course of studies through various projects.

The program provides management education at the master's level for students with varied undergraduate backgrounds: business and economics, engineering and science, and others.

The Master of Business Administration can be completed as an online program or a weekend hybrid program. The online courses are delivered in accelerated seven-week sessions. The weekend courses are offered on the fourth Saturday of every month.

Admission Requirements

Applications are invited from individuals who have earned undergraduate or graduate degrees in any discipline or field of study. To be considered for admission, the applicant must submit the following to the Graduate Admissions Office:

- A completed graduate application for admission with payment of appropriate application fee.
- A complete set of official undergraduate transcripts as evidence of an earned baccalaureate degree from an accredited institution of higher education.

- The contract information or email addresses of three recommenders who can comment on the applicant's academic and professional qualifications. The recommenders will be asked to submit a letter of recommendation.
- A resume showing the applicant's education and work experience.
- A personal statement answering the following questions:
 - Describe your short-term and long-term career goals.
 - Why do you choose to pursue an MBA at Wilkes University?
 - What makes you a strong candidate for the Wilkes MBA program?

To be accepted on a regular basis, applicants must have earned a cumulative GPA of at least 3.0 in their undergraduate degree program. An applicant who has earned a cumulative GPA of less than 3.0 in his or her undergraduate degree program will be required to interview with the MBA program director or the director's designate.

Provisional acceptance

A prospective student may be provisionally accepted if they have applied to the program and meet admissions requirements, but the university is waiting on additional application materials, like official college transcripts.

Conditional acceptance

A prospective student with a GPA of less than 3.0 may be accepted into the program on a conditional basis. The conditionally accepted student must maintain no less than a 3.0 in the first two courses (6 graduate credits) of the MBA program. Failure to maintain the minimum 3.0 may result in dismissal of the conditionally accepted student.

Degree Requirements

The total number of 500 level course credits required for the MBA is 36-39. The MBA degree is earned by completion of six distinct tiers – the Foundation, Business Essentials, Decision Making, Leadership & Ethics, the Electives, and the Capstone. These are summarized below.

Foundation (0-3 credits): This tier is comprised of three one credit Foundation courses, which are required as prerequisites to most courses in the MBA Program:

- [[MBA-501]] Foundations of Statistics
- [[MBA-504]] Foundations of Finance
- [[MBA-506]] Foundations of Accounting

Business Essentials (9 credits): This tier is comprised of the following three required courses, which together provide students with the essentials for all of the functional areas of business administration:

- [[MBA-512]] Managerial Statistics
- [[MBA-520]] Marketing Management
- [[MBA-550]] Organizational Behavior

Decision Making (9 credits): This tier is comprised of three required courses to assist with the decision-making process:

- [[MBA-532]] Managerial Economics
- [[MBA-540]] Financial Management

[[MBA-560]] Financial and Managerial Accounting

Leadership & Ethics (6 credits): This tier is comprised of two required courses to give a better understanding of leadership and ethics

- [[LDR-500]] Leadership Perspectives & Practices
- [[MBA-580]] Social, Legal, and Ethical Concepts

The Electives (9 credits) - Students can choose nine credits of elective courses to complement their business administration program. Students can pursue one of the following tracks:

Management Leadership

The **Management** track is comprised of the following elective courses:

- [[LDR-555]] Leading Organizational Change
- [[MBA-510]] Project Management
- [[MBA-555]] Human Resources
- [[MBA-556]] Corporate Citizenship
- [[MBA-585]] Corporate Entrepreneurship
- [[MBA-586]] Nonprofit Management

The **Leadership** track is comprised of the following elective courses:

- [[LDR-555]] Leading Organizational Change
- [[LDR-556]] Leadership Practice: Vision, Awareness and System (1-cr)
- [[LDR-557]] Leadership Practice: Relationships, Crisis, and Conflicts (1-cr)
- [[LDR-558]] Leadership Practice: Group Dynamics (1-cr)
- [[LDR-560]] Building Leading Capacity
- [[LDR-580]] Leadership and Ethics
- [[LDR-591]] Applied Leadership Reflection and Planning* (1-cr)

*Students must complete LDR 591.

Students can also pursue a general MBA, and complete any of the elective course offerings above, or one of the following - these courses do not align with any of the above tracks.

- [[MBA-513]] Global Operations Management
- [[MBA-516]] Supply Chain Management
- [[MBA-526]] Global eBusiness
- [[MBA-536]] International Business
- [[MBA-537]] Global Business Experience
- [[MBA-546]] Topics in Finance
- [[MBA-566]] Topics in Accounting
- [[MBA-577]] Topics in Healthcare Management
- [[MBA-595]] / [[MBA-596]] Independent Research
- [[MBA-592]] Advanced Projects in Business
- [[MBA-598]] Topics

Strategy/Capstone (3 credits): Each MBA student must successfully complete the following -course capstone requirement:

- [[MBA-591]] Strategic Management and Policy, a general capstone course covering all functional areas and all distinct objectives

MASTER OF SCIENCE IN BIOENGINEERING

Master of Science in Bioengineering

Point of Contact: Abas Sabouni, Ph.D.

Program Features

Wilkes University's Master of Science degree in Bioengineering combines engineering concepts and analysis with biology, medicine, health, and computer science to teach students the fundamentals of developing new medical devices, treatments and materials. The 36-credit program offers students the opportunity to select from one of two available majors, Biomedical Engineering or Synthetic Biology. Biomedical Engineers develop artificial limbs, joints, tissues and organs as well as design diagnostic equipment, monitoring devices and drug delivery systems. Synthetic Biologists create organisms, which either produce useful biochemicals for therapeutic applications, or perform unique functions, such as creating useful biochemicals for therapeutic and industrial applications or detecting or detoxifying biohazardous chemicals.

Students will have the opportunity to work with faculty who are leaders in their fields, including specialists in the latest medical device designs, imaging systems, bioengineering and metabolic technologies.

Admissions Requirements

The Wilkes program is designed for those with a bachelor's degree in engineering or biology seeking training in bioengineering and also for those seeking to strengthen credentials for medical or other professional schools. Individuals with undergraduate degrees in other science disciplines may also be considered. Applicants must submit an online application, official undergraduate transcripts, and 2 letters of reference from science or engineering faculty.

International applicants must also submit a statement of financial guarantee and a WES evaluation of their undergraduate transcript.

All applicants must submit an official Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) score, in addition to the previously-listed admissions requirements if the language of instruction of the applicant's undergraduate degree was not English. In some cases, proof of the applicant's language of undergraduate instruction may be requested and required.

Program Requirements

Students enrolling in the Bioengineering program will be assigned an advisor in the chosen track at the time of admission. Students are strongly encouraged to contact their advisor to discuss program prerequisites, course selections, research opportunities, and other programmatic questions.

The program has a common set of core courses for both majors. All students must take the 6 credits of

core bioengineering courses, BEGR 409 Introduction to Bioengineering and BEGR 411 Integrated Product Development, at the start of the program. Students then enroll in 6 courses (18 credits) designated for their chosen major and 6 credits of electives. Students will complete their program with 6 credits of thesis work or can request in special cases and with the directors' approval to do a 3 credit project and take one additional elective course, for a total of 36 program credits.

Core courses- 6 credits
Major courses - 18 credits
Electives - 6 credits
Thesis/Project - 6 credits
36 total program credits

Provided below is a sample program plan for each major. Plans are based on full-time enrollment, which is 9 credits per semester for graduate students. Students electing to enroll part-time should discuss course scheduling with their advisor to ensure timely completion of all program requirements. In addition, students should select elective credits in consultation with their advisors, particularly if specialization knowledge is desired.

Biomedical Major Program Plan

First Semester (Fall)

| |
|--|
| BEGR 401: Applied Engineering Analysis |
| BEGR 409: Introduction to Bioengineering |
| BEGR 411: Integrated Product Development |

Second Semester (Spring)

| |
|--|
| BEGR 421: Biofluidics and Microfluidics |
| BEGR 415: 3-D Modeling of Human Anatomy and Physiology |
| BEGR 488: Biomedical Devices and Design |

Third Semester (Fall)

| |
|---|
| BEGR 451: Mechatronics/Bioinstrumentation |
| BEGR 474: Imaging in Biomedicine |
| BEGR 599: Thesis/Project (3 Credits) |

Fourth Semester (Spring)

| |
|--------------------------------------|
| BEGR 599: Thesis/Project (3 Credits) |
| Elective |
| Elective |

Suggested electives for Biomedical majors include:

- BEGR 452: Nanotechnology
- BEGR 477: Cellular Biophysics

- BEGR 408: BioMEMs
- BEGR 498: Biomechanics – Muscular-Skeleton Mechanics

Students may also elect to take courses from the Synthetic Biology track or from other Wilkes graduate programs, in consultation with their advisor, for their elective credits.

Synthetic Biology Program Plan

| |
|---|
| First Semester (Fall) |
| BEGR 409: Introduction to Bioengineering |
| BEGR 411: Integrated Product Development |
| BEGR 430: Introduction to Bioinformatics Applications |

| |
|---------------------------------|
| Second Semester (Spring) |
| BEGR 424: Molecular Biology |
| BEGR 465: Biochemistry |
| BEGR 477: Cellular Biophysics |

| |
|--|
| Third Semester (Fall) |
| BEGR 501: Practicum in Synthetic Biology I |
| BEGR 599: Thesis/Project (3 Credits) |
| Elective |

| |
|---|
| Fourth Semester (Spring) |
| BEGR 502: Practicum in Synthetic Biology II |
| BEGR 599: Thesis/Project (3 Credits) |
| Elective |

Possible electives for Synthetic Biology majors include:

- BEGR 426: Immunology and Immunochemistry
- BEGR 427: Medical Microbiology
- BEGR 429: Virology
- BEGR 474: Imaging in Biomedicine

Students may also elect to take courses from the Biomedical track or from other Wilkes graduate programs, in consultation with their advisor, for their elective credits.

Degree Requirements

All candidates for the Master of Science in Bioengineering degree must complete a program of thirty-six (36) credits.

MASTER OF SCIENCE IN EDUCATION

Requirements

Candidates for the degree of Master of Science in Education with a concentration in Secondary Education/Mathematics must complete thirty (30) credits of approved courses offered by the Department of Mathematics/Computer Science and the Department of Education. Of these thirty credits, eighteen (18) credits shall be in approved 400-level courses offered by the Department of Mathematics and Computer Science. Requirements for the Education component of the Master of Science degree in Education with a concentration in Secondary Education/Mathematics are listed under the Education section earlier in this bulletin.

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING (M.S.E.E.)

Master of Science in Electrical Engineering (M.S.E.E.)

Point of Contact: Abas Sabouni, Ph.D.

Courses are available days and evenings.

Admission Requirements

Applications are invited from individuals who possess a B.S. degree in Electrical Engineering from an accredited institution. Applicants not meeting the requirements may be provisionally admitted and will be required to take sufficient undergraduate courses to make up deficiencies.

To be considered for admission, the applicant must submit the following minimum requirements:

1. Submit to the Graduate Admissions Office a completed graduate application for admission with payment of appropriate application fee
2. Submit two letters of recommendation from previous academic faculty and/or from current or previous supervisors, if employed.
3. Demonstrate satisfactory performance as an undergraduate by providing a complete set of official undergraduate transcripts.
4. International students: Refer to page 10 for additional admissions requirements.

Degree Requirements

Thirty (30) credit hours are required for the M.S.E.E. degree. These include the following:

| | |
|------------|---|
| 12 credits | EE 403, EE 405, [[EE-414]], and [[EE-460]] |
| 18 credits | Students should choose either the thesis or the non-thesis option. In either case at least two courses (for 6 credits) must be chosen from the following: [[EE-442]], [[EE-445]], [[EE-465]], and [[EE-471]]. Other courses may be chosen from graduate level courses in EE/CS and an approved course from the Business Administration program. |

Non-thesis option: 3 credits of [[EE-590]] are required. Students should submit a well-documented report to the department.

Thesis option: Six credits of thesis ([[EE-590]]) are required. The thesis shall be defended in an open forum. Three faculty

members constitute a Thesis Committee with the Thesis Advisor as Chair.

Students who opt to complete a thesis may select from posted research topics or proposed areas of interest of the faculty and submit a proposal of their thesis to the Department. Final decision of topic and advisor will be taken by the Department in accordance with Department guidelines. Ordinarily, these topics will touch on one or more of the following areas: Communication, Navigational Systems; Computers, Digital Systems; Microelectronics; Microwaves and Antennas; Power, Control Systems; Software Engineering. Some of the highly specialized and state-of-the-art laboratories available for students include Communications, Thick-Film Processing, Microelectronics, Microwaves, Antennas, Machines and Controls, Digital Design.

Both full and part-time students are limited to a maximum of three thesis credits in any single semester.

The minimum acceptable grade point average is 3.0. (See Grade Regulations.)

Advanced standing or transfer credit is limited to six (6) graduate credits. Petitions should be submitted to the Engineering and Physics Division and should document minimum competency defined as relevant graduate course work at an accredited institution with an earned minimum grade of 3.0 (0-to-4 scale) or equivalent expertise.

Financial Aid

A limited number of assistantships are available for full-time students. Applicants should possess superior academic qualifications and provide good scores in the GRE (General and Engineering).

MASTER OF SCIENCE IN ENGINEERING MANAGEMENT

Master of Science in Engineering Management

Point of Contact: Yong Zhu, Ph.D.

The Master of Science in Engineering Management is a 30 credit-hour program that integrates 15 hours of mandatory engineering management courses with 15 hours of technical electives or graduate project. The program is committed to the successful development of the upward-bound technical talent in industry. Entering students enjoy a curricular breadth and flexibility unique to Wilkes University.

The program emphases include decision processes, systems modeling, uncertainty analysis and risk assessment. Graduates will learn to effectively address and communicate the growing complexities of organizational performance and decision processes as they prepare for leadership roles in technical staff and technology management such as project planning and execution, production flow, logistics, demand forecasting, and quality improvement. The program also prepares students for further academic endeavors that may lead to post-graduate or doctoral studies in Engineering Management, Industrial Engineering or other related disciplines.

Admission Requirements

An ABET-accredited baccalaureate Engineering degree is preferred but not required. Applicants with other four-year degree preparations (e.g. BS or BA) may meet entrance requirements once the necessary foundation content is satisfied. Entry standards include the following:

1. Experience:
Post-baccalaureate industrial/professional work experience preferred.
2. Application:
Submitted with payment of appropriate application fee. (International students: Refer to the International Students section of this bulletin for additional admission requirements).
3. Academic Preparation-Official Transcripts are Required:
 - Demonstrate satisfactory performance as an undergraduate as evidence with a complete set of official undergraduate transcripts to be submitted to the Graduate Admissions Office.
 - To be accepted on a regular basis, candidates for the degree must have obtained a cumulative GPA of at least 3.0. Prospective students with a GPA of less than 3.0 may be conditionally accepted into the program. To be reclassified to regular status, the conditionally accepted student must attain no less than a 3.0 for each of the first six credit hours of graduate coursework taken. Failure to maintain the minimum 3.0 in any course will result in dismissal of the conditionally accepted student.

Applicants not holding an ABET-accredited undergraduate or graduate engineering degree must demonstrate or accrue the following preparation prior to enrolling in EGM courses:

- Mathematics: 12 hours (calculus, differential equations and statistics, or approved equivalent)
- Engineering economy or equivalent; 3 hours
- Science (chemistry and/or physics): 12 hours of approved coursework
- Engineering: 12 hours of approved coursework
- Demonstrated ability with computer programming and/or numerical analysis techniques

4. Professional Recommendations:

Applicants must submit two letters of professional recommendation.

Degree Requirements

The Masters of Science Degree in Engineering Management requires a minimum of thirty (30) credit hours consisting of fifteen (15) credits in CORE courses and fifteen (15) elective credit hours.

Typical Course Sequence

| First Semester | Second Semester |
|--|---|
| [[EGM-510]] – Engineering Project Decision Processes | [[EGM-520]] – Operations Analysis and Resource Allocation |
| [[EGM-536]] – Product Design & Development | [[EGM-515]] – Quality Processes for Design and Production |
| Technical Elective | Technical Elective |
| Third Semester | Fourth Semester |
| [[EGM-516]] – Management Science | [[EGM-580]] – Graduate Project |
| Technical Elective | OR Technical Elective |
| Technical Elective | |

Technical Elective Courses

[[EGM-525]], [[EGM-530]], [[EGM-534]], [[EGM-536]], [[EGM-538]], [[EGM-540]], [[EGM-544]], [[EGM-545]] and other advisor approved electives.

Financial Aid

A limited number of assistantships are available for full-time students. Applicants should possess superior academic qualifications and provide good scores in the GRE.

MASTER OF SCIENCE IN MATHEMATICS

Candidates for the degree of Master of Science in Mathematics must complete thirty (30) credits of approved 400-level courses offered by the Department of Mathematics and Computer Science numbered 400 or above, with a minimum of six (6) credits completed in 500-level courses.

A thesis option is available whereby a candidate can write and defend a written thesis under the direction of a faculty advisor. At most, six of the required thirty credits may be earned through thesis work. Students electing a thesis option should consult the department chairperson for details regarding thesis-preparation guidelines.

MASTER OF SCIENCE IN MECHANICAL ENGINEERING (M.S.M.E.)

Master of Science in Mechanical Engineering

Point of Contact: Yong Zhu, Ph.D.

Admission Requirements

Applications are invited from individuals who possess a B.S. degree in Mechanical Engineering or close fields from an accredited institution. Applicants not meeting the requirements may be provisionally admitted and will be required to take sufficient undergraduate courses to make up deficiencies.

To be considered for admission, the applicant must submit the following minimum requirements:

- Submit to the Graduate Admissions Office a completed graduate application for admission with payment of appropriate application fee.
- Submit two letters of recommendation from previous academic faculty and/or from current or previous supervisors, if employed.
- Demonstrate satisfactory performance as an undergraduate by providing a complete set of official undergraduate transcripts.
- International students: Refer to the International Students section of this bulletin for additional admission requirements.
- To be accepted on a regular basis, candidates for the degree must have obtained a cumulative GPA of at least 3.0. Prospective students with a GPA of less than 3.0 may be conditionally accepted into the program.

Degree Requirements

The Master of Science in Mechanical Engineering program requires thirty (30) credits of graduate level course work. The program consists of 15 credits of mandatory core courses. Students have the option of a six-credit thesis or a three-credit project with an additional three-credit technical elective. Students may select 9 or 12 additional credits from the list of technical electives.

Typical Course Sequence

| First Semester | Second Semester |
|--|---|
| [[MTH-361]] – Partial Differential Equations | [[ME-436]] – Solid Mechanics |
| [[ME-498]] – Programming Logic Controllers | [[ME-480]] – Advanced CADD |
| Technical Elective | Technical Elective |
| Third Semester | Fourth Semester |
| [[ME-427]] – Transport Phenomena | [[ME-599]] – Thesis (six credits) OR Project (three credits) |
| Technical Elective | |

| | |
|--|--|
| Technical Elective (if project option) | |
|--|--|

Core Courses

[[MTH-361]] Partial Differential Equations; [[ME-498]] Programming Logic Controllers; [[ME-427]] Transport Phenomena; [[ME-436]] Solid Mechanics; [[ME-480]] Advanced CADD.

Thesis/Project Option:

Graduate students are strongly recommended to select the thesis option to complete their graduate course work. However, they may choose a three-credit hour project option.

Technical Electives

Technical electives may be selected from the technical elective graduate course list. In addition, up to one graduate level course from any engineering or science field is transferable.

Non-thesis option: 3 credits of ME 599 are required. Students should submit a well-documented report to the department.

Thesis option: Six credits of thesis ME 599 are required. The thesis shall be defended in an open forum. Three faculty members constitute a thesis committee with the thesis advisor as chair.

Students who opt to complete a thesis may select from posted research topics or proposed areas of interest of the faculty and submit a proposal of their thesis to the Department. Final decision of topic and advisor will be taken by the Department in accordance with Department guidelines. Ordinarily, these topics will touch on one or more of the following areas: Structural Analysis, Thermal Sciences, Finite Element Method, Solid Mechanics, Dynamics, MEMS, Control Systems; Robotics, Mechatronics, and Energy Conversion.

Both full- and part-time students are limited to a maximum of three thesis credits in any single semester.

The minimum acceptable grade point average is 3.0. (See Grade Regulations)

Advanced standing or transfer credit is limited to three (3) graduate credits. Petitions should be submitted to the Mechanical Engineering and Engineering Management Department, and should document minimum competency defined as relevant graduate course work at an accredited institution with an earned minimum grade of 3.0 (0-to-4 scale) or equivalent expertise.

Financial Aid

A limited number of assistantships are available for full-time students. Applicants should possess superior academic qualifications and provide good scores in the GRE (General and Engineering).

Academic Integrity

At Wilkes the faculty and the entire University community share a deep commitment to academic honesty and integrity.

The following are considered to be serious violations and will not be tolerated:

1. Plagiarism: the use of another's ideas, programs, or words without proper acknowledgment.
2. Collusion: improper collaboration with another in preparing assignments, computer programs, or in taking examinations.
3. Cheating: giving improper aid to another, or receiving such aid from another, or from some other source.
4. Falsifying: the fabrication, misrepresentation, or alteration of citations, experimental data, laboratory data, or data derived from other empirical methods.

MASTER OF SCIENCE IN NURSING (M.S.N.)

Purpose

The distance education Master of Science in Nursing (M.S.N.) program at Wilkes University is designed to prepare the Nurse Practitioner for advancing nursing practice and quality within healthcare. The program provides a foundation to further advancement of professional nursing education for a doctoral degree in nursing and post graduate/APRN certificate program. Graduates are eligible for national board certification upon program completion of the respective concentration.

Master of Science in Nursing Program Outcomes

The Master of Science in Nursing program at Wilkes University prepares students to:

1. Engage in lifelong learning in a constantly evolving and multicultural world.
2. Demonstrate competence in the development of scientific inquiry relevant to clinical practice, administration, or education.
3. Utilize leadership strategies that foster improvement of patient and population health.
4. Advance nursing practice by translating evidence in a variety of roles and areas of practice.
5. Improve healthcare outcomes through interprofessional collaboration.
6. Participate in lifelong learning as a part of advancing nursing practice.

Master of Science in Nursing Student Learning Outcomes

Students in the Master of Science in Nursing program at Wilkes University will:

1. Synthesize advanced knowledge of nursing and related disciplines for the development of advanced nursing practice in the roles of the Nurse Practitioner, Nurse Executive, and Nurse Educator.
2. Develop expertise in the Nurse Practitioner, Nurse Executive, and Nurse Educator role to advance nursing practice.
3. Develop skills and abilities to assume leadership roles in advanced nursing practice.
4. Evaluate nursing research for its applicability to advance nursing practice.
5. Evaluate applicable knowledge and concepts in nursing to deal with the complexities of a dynamic society.

Admission Requirements

Applicants will be evaluated for admission based on the following criteria. These admissions standards represent the minimum eligibility requirements for the program. Admission committee members reserve the right to request additional

information from candidates as needed for a more in-depth review of qualifications.

Nurse Practitioner Programs

- A completed online application
- Official transcripts with nursing degree completion and a cumulative GPA of 3.0 or higher on a 4.0 scale from an institution with programmatic (ACEN, NLNAC, CCNE) and regional accreditation. Students who graduated from a non-programmatically accredited institution and meet all other admission requirements will be evaluated on a case-by-case basis. Admission is not guaranteed.
 - Associate's degree in Nursing for R.N. to M.S.N. program
 - Bachelor's degree in Nursing for M.S.N. program
 - Master's or doctoral degree in Nursing for post-graduate/APRN certificate program
- Unencumbered RN license and advanced practice registered nurse (APRN) license* and national board certification, as appropriate
- Current resume or curriculum vitae
- One year of clinical experience (by the start of NP clinical courses)

*Applications presenting a history of disciplinary action on professional licenses will be subject to an additional review process by the Special Licensure Discrepancy Committee of the university.

The Curriculum

Graduate Nursing Core (24 Credits)
12 week classes

M.S.N. students complete the 24 credit core in addition to credits of their chosen concentration.

| | | |
|--------------|---|-----------|
| [[NSG-500]] | Advanced Health Assessment | 3 credits |
| [[NSG-501]] | Theoretical Foundations of Nursing Science | 3 credits |
| [[NSG-502]] | Advanced Nursing Research | 3 credits |
| [[NSG-504]] | Advanced Role Development in Nursing | 3 credits |
| [[NSG-505]] | Health Policy and Politics for Advancing Nursing Practice | 3 credits |
| [[NSG-530]] | Advanced Pathophysiology | 3 credits |
| [[NSG-533]] | Advanced Pharmacology | 3 credits |
| [[NSG-590]]* | Scholarly Review | 3 credits |

Concentrations

Nurse Practitioner Student Learning Outcomes

Students in the Nurse Practitioner program at Wilkes University will:

1. Synthesize theoretical, scientific, and clinical knowledge in providing comprehensive, evidence-based care.
2. Perform comprehensive health history and physical examination to diagnose health conditions involving critical analysis, differential diagnosis, and data interpretation.
3. Assume leadership roles in collaboration with other health professionals to achieve optimum patient health.
4. Integrate health care policy as it impacts the decision-making ability to provide quality patient care.
5. Negotiate healthcare delivery systems to promote quality health outcomes for individuals, communities, and organizational systems.
6. Coordinate care for patients with complex conditions through referrals and collaboration.
7. Participate in life-long learning through higher education, continuing education, certification and evaluation.

Adult - Gerontology Primary Care Nurse Practitioner (16 Credits)

Total: 40 credits

| | | |
|-------------|---|-----------|
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-556]] | Health Perspectives of Culturally Diverse, Rural, and Underserved Populations | 2 credits |
| [[NSG-554]] | Nurse Practitioners in Primary Care I | 3 credits |
| [[NSG-555]] | Nurse Practitioners in Primary Care II | 3 credits |
| [[NSG-506]] | Advanced Practice in Adult-Gerontology Clinical I | 3 credits |
| [[NSG-515]] | Advanced Practice in Adult-Gerontology Clinical I | 3 credits |

Psychiatric/Mental Health Nurse Practitioner (18 Credits)

Total: 42 credits

| | | |
|---------|--|-----------|
| NSG 526 | Clinical Modalities in Advanced Psychiatric Mental | 3 credits |
|---------|--|-----------|

| | | |
|-------------|--|-----------|
| | Health Nursing Practice | |
| NSG 527 | Psychopathology, Theories, and Advanced Modalities | 3 credits |
| NSG 535 | Advanced Practice in Psychiatric/Mental Health Nursing I | 3 credits |
| NSG 536 | Advanced Practice in Psychiatric/Mental Health Nursing II | 3 credits |
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-556]] | Health Perspectives of Culturally Diverse Rural, and Underserved Populations | 2 credits |
| [[NSG-552]] | Psychopharmacology | 2 credits |

Family Nurse Practitioner (19 credits)

Total: 43 credits

| | | |
|-------------|--|-----------|
| [[NSG-546]] | Family Nurse Practitioner Clinical I | 3 credits |
| [[NSG-547]] | Family Nurse Practitioner Clinical II | 3 credits |
| [[NSG-548]] | Family Nurse Practitioner Role with Children and Families | 2 credits |
| [[NSG-549]] | Family Nurse Practitioner Clinical with Children and Families | 1 credit |
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-554]] | Nurse Practitioners in Primary Care I | 3 credits |
| [[NSG-555]] | Nurse Practitioners in Primary Care II | 3 credits |
| [[NSG-556]] | Health Perspective of Culturally Diverse, Rural, and Underserved Populations | 2 credits |

Residency Requirements

An on-site residency is required for nurse practitioner students enrolled in NSG 500, Advanced Health Assessment, in order to demonstrate advanced physical assessment skills. In addition, nurse practitioner students in the following clinical courses may be required to complete an on-site residency, based upon the location of the clinical practice site. During residency, direct supervision and evaluation of the student will be completed by nurse practitioner clinical faculty at his/her designated clinical practice sites. Each course syllabus dictates the terms of the specific course residency.

- [[NSG-515]] – Advanced Practice in Adult-Gerontology Clinical II
- [[NSG-536]] – Advanced Practice in Psychiatric/Mental Health Nursing II
- [[NSG-547]] – Family Nurse Practitioner Clinical II

Clinical Requirements

Further details of clinical requirements for each concentration area are provided to students in [The Passan School of Nursing Graduate Program Student Handbook](#).

MIDDLE LEVEL EDUCATION

Middle Level Education

Dr. Vicki Jones, Program Coordinator

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)

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 *
- ED 530 Utilizing Emerging Technologies to Improve Learning
- ED 5030* Instructional Design for Online Educators™*
- ED 5031* Facilitating Online Learning Communities™*
- ED 5032* Online Teaching for Pennsylvania Educators (20 hours field experience)*
- or-
- ED 5033 Social & Ethical Issues in Online Learning
- ED 5034 Action Research in the E-Learning Environment™
- ED 5035 Blended and Synchronous Learning Environments™
- ED 5036 Building Online Collaborative Environments™
- ED 5037 Developing Online Programs
- ED 5038 Teaching and Learning in the Online Environment (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.

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.

PHARMACOLOGY AND MEDICINAL CHEMISTRY (M.S.)

Purpose

The demand for graduate students in the area of pharmaceutical sciences and related fields is expected to rise in the next 10 years and currently there are more than 200 job openings within the state of Pennsylvania in the area of pharmaceutical and biological sciences. The objective of this graduate program is to graduate students with highest level of knowledge and skills that suits the needs of the potential employers. The program is a 2-year research-oriented, thesis-track Master of Science program designed to build a solid foundation of the core knowledge in pharmacological and pharmaceutical sciences, with classical and contemporary topics and hands-on experimental experiences. Students in the program will also be trained to develop a high level of written and oral communication skills. One of the highlights of the program is to foster research techniques and methodology through exposure to a variety of molecular biology, synthetic chemistry and analytical techniques that are most commonly used in the current pharmaceutical and biochemical industry. This will be the first graduate program offered in the Nesbitt School of Pharmacy since its conception more than two decades ago in 1996. This proposed program will offer individualized learning and research experience with high standard to local, national and international students.

Master of Science Program Outcomes

Educational Outcomes for the Master's Degree Program in Pharmacology and Medicinal Chemistry

Goal 1: Develop foundational knowledge required in pharmacology and medicinal chemistry to support higher-level objectives.

- 1.1. Discuss the U.S. regulatory pathway for development and approval of new molecular entity drugs.
- 1.2. Discuss the U.S. regulatory pathway for development and approval of generic drugs with bioequivalence, and describe biosimilars.
- 1.3. Discuss the disposition of drugs in humans, including factors affecting absorption, distribution, metabolism, and elimination.
- 1.4. Describe the structural and chemical properties of drug molecules pertinent to pharmacokinetics and pharmacodynamics
- 1.5. Describe the location and function of organelle, cellular, tissue, and organismal macromolecules that are common drug targets
- 1.6. Describe the therapeutic mechanisms of action of major drug classes at the organellar, cellular, tissue, and organismal level.

- 1.7. Describe the mechanisms of toxicity of major drug classes at the organellar, cellular, tissue, and organismal level.
- 1.8. Describe common research techniques and instruments, and identify their appropriate use when presented with a research question.
- 1.9. Identify and employ appropriate statistical tests to determine significance of biological data.

Goal 2: Develop foundational laboratory skills necessary to address scientific questions.

- 2.1 Demonstrate competency in executing experiments employing in vitro and in vivo models.
- 2.2 Demonstrate competency in determining DNA, RNA, and protein identity, quality, and quantity using accepted methodology.
- 2.3 Demonstrate competency in utilizing small-scale and multi-well format instruments to measure cell death, signaling, and homeostasis.
- 2.4 Demonstrate competency in using High-Performance or Ultra-High-Performance Liquid Chromatography to identify and quantify analytes of interest from biological and non-biological matrices.

Goal 3: Effectively communicate verbally, visually, and in written format.

- 3.1 Demonstrate effective writing to express scientific background, hypotheses, research methods, and discoveries.
- 3.2 Demonstrate effective speaking to express scientific background, hypotheses, research methods, and discoveries.
- 3.3 Employ appropriate use of audio and visual tools when presenting scientific information to an audience.
- 3.4 Demonstrate professional verbal and nonverbal communication with scientists and non-scientists.

Goal 4: Practice science with the highest ethical standards.

- 4.1 When required, limit use of animals in research to the lowest quantity and shortest duration deemed necessary to achieve adequate statistical power, as determined by published standards or power analysis when required.
- 4.2 Choose the most humane methods for handling animal subjects, abiding by the Guidelines for Care and Use of Laboratory Animals.
- 4.3 Identify and follow the most ethical methods for reporting scientific findings.

Goal 5: Professional development

- 5.1 Demonstrate integrity, trustworthiness, flexibility and respect to colleagues and other personnel.
- 5.2 Display accountability and preparedness consistent with a commitment to excellence.

Admission Requirements

- 1) An online application through Wilkes University.
- 2) Undergraduate degrees in biological, chemical, biomedical or closely related discipline. Undergraduate degrees in bioengineering or chemical engineering may also be considered upon admission committee review.
- 3) Official undergraduate transcript with a minimum overall GPA of 3.0 or above on a 4.0 scale.
- 4) GRE score is not required, but is encouraged for applicants with minimal required undergraduate GPA.
- 5) Two letters of reference from scientists or engineers.
- 6) International applicants with undergraduate degrees from non-English speaking countries are required to submit TOEFL scores with their applications.

The Curriculum

| | | | |
|-------------|--|-----------|--|
| [[PHS-571]] | Responsible conduct in biomedical research | 1 credit | |
| [[PHS-573]] | Literature Evaluation in Pharmaceutical and Pharmacological Sciences I | 1 credit | |
| [[PHS-575]] | Introduction to Research Study Design and Proposal Writings | 1 credit | |
| [[PHS-577]] | Experimental Methods in Pharmacology and Toxicology | 2 credits | |
| [[PHS-579]] | Principle of Pharmacology and Medicinal Chemistry & Fundamentals of Drug Disposition | 3 credits | |
| [[PHS-581]] | Research Orientation | 1 credit | |
| [[PHS-576]] | Pharmacodynamics and Medicinal Chemistry of Major Drug Classes | 3 credits | |

| | | | |
|---------------------|--|-------------|--|
| [[PHS-552]] | Principles of Bioorganic Medicinal Chemistry | 3 credits | |
| [[PHS-578]] | Research* | 3 credits | |
| [[PHS-572]] | Literature Evaluation in Pharmaceutical and Pharmacological Sciences II | 1 credit | |
| [[PHS-583]] | Thesis I | 3 credits | |
| [[PHS-574]] | Literature Evaluation in Pharmaceutical and Pharmacological Sciences III | 1 credit | |
| [[PHS-584]] | Thesis II | 3 credits | |
| [[BIO-347]] | Biostatistics | 3 credits | |
| Choose 4-5 courses: | Electives (7 credits; 3-4 courses) | | |
| [[PHA-311]] | | 3 credits | |
| [[PHA-312]] | | 3 credits | |
| [[PHA-498]] | Pharmaceutics I | 2 credits | |
| [[PHA-558]] | Pharmaceutics II | 2 credits | |
| [[PHA-556]] | Introduction to nanomedicine | 1-4 credits | |
| [[PHS-598]] | Principles of toxicology | | |
| | Phytochemicals in health/disease | | |
| | Independent study | | |

**In addition to the research course, summer students are required to participate in a minimum of eight (8) weeks of summer research activities with their respective primary thesis advisor. Individual student will be paid up to \$3000 for the summer experience (paid from program operating budget). This is a mandatory experience and are not counted for credit hours.*

POST GRADUATE/APRN CERTIFICATE

Purpose

This distance education Post Graduate/APRN Certificate program is designed for registered nurses who have earned a master's or doctoral degree in Nursing and seek to expand their education in a new specialty area. Certificate programs are offered in all NP concentrations available in the Master of Science in Nursing degree program. Graduates of our accredited online certificate programs are eligible to sit for national board certification examination upon program completion of the respective concentration. A review of official transcripts will determine a student's course of study. A certificate of program completion is awarded, not a degree.

Students admitted to the nurse practitioner program who have previously taken an Advanced Pharmacology course are advised to contact their State Board of Nursing to determine if their Pharmacology course meets the criteria set for length of time allowed from taking the course to the date of applying for prescriptive privileges.

Admission Requirements

- See the Master of Science in Nursing admission requirements.

Student outcomes for each of the following concentrations can be found in the Master of Science in Nursing section of this handbook.

The Curriculum

CONCENTRATIONS

Adult –Gerontology Primary Care Nurse Practitioner (27 credits or less pending review of previous coursework)

All courses are 12 weeks in length.

| | | |
|-------------|---|-----------|
| [[NSG-500]] | Advanced Health Assessment | 3 credits |
| [[NSG-530]] | Advanced Pathophysiology | 3 credits |
| [[NSG-533]] | Advanced Pharmacology | 3 credits |
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-556]] | Health Perspectives of Culturally Diverse, Rural, and Underserved Populations | 2 credits |
| [[NSG-554]] | Nurse Practitioners in Primary Care I | 3 credits |

| | | |
|---------------|---|------------|
| [[NSG-555]] | Nurse Practitioners in Primary Care II | 3 credits |
| [[NSG-506]] | Advanced Practice in Adult-Gerontology Clinical I | 3 credits |
| [[NSG-515]] | Advanced Practice in Adult-Gerontology Clinical II | 3 credits* |
| [[NSG-591]]** | Scholarly Preparation for Nurse Practitioner Boards | 2 credits |

****Required for completion of certification by students enrolled Fall 21 and after.**

Psychiatric/Mental Health Nurse Practitioner (29 credits or less pending review of previous coursework)

All courses are 12 weeks in length.

| | | |
|-------------|---|------------|
| [[NSG-500]] | Advanced Health Assessment | 3 credits |
| [[NSG-530]] | Advanced Pathophysiology | 3 credits |
| [[NSG-533]] | Advanced Pharmacology | 3 credits |
| [[NSG-526]] | Clinical Modalities in Advanced Psychiatric/ Mental Health Nursing Practice | 3 credits |
| [[NSG-527]] | Psychopathology, Theories, and Advanced Clinical Modalities | 3 credits |
| [[NSG-535]] | Advanced Practice in Psychiatric/ Mental Health Nursing I | 3 credits |
| [[NSG-536]] | Advanced Practice in Psychiatric/ Mental Health Nursing II | 3 credits* |
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-556]] | Health Perspectives of Culturally Diverse, Rural, and Underserved Populations | 2 credits |

Post Graduate/APRN Certificate

| | | |
|---------------|---|-----------|
| [[NSG-552]] | Psychopharmacology | 2 credits |
| [[NSG-591]]** | Scholarly Preparation for Nurse Practitioner Boards | 2 credits |

****Required for completion of certification by students enrolled Fall 21 and after.**

**Family Nurse Practitioner
(30 credits or less pending review of previous coursework)**

All courses are 12 weeks in length.

| | | |
|---------------|--|------------|
| [[NSG-500]] | Advanced Health Assessment | 3 credits |
| [[NSG-530]] | Advanced Pathophysiology | 3 credits |
| [[NSG-533]] | Advanced Pharmacology | 3 credits |
| [[NSG-546]] | Family Nurse Practitioner Clinical I | 3 credits |
| [[NSG-547]] | Family Nurse Practitioner Clinical II | 3 credits* |
| [[NSG-548]] | Family Nurse Practitioner Role with Children and Families | 2 credits |
| [[NSG-549]] | Family Nurse Practitioner Clinical with Children and Families | 1 credit |
| [[NSG-550]] | Diagnostic Reasoning for Nurse Practitioners | 2 credits |
| [[NSG-554]] | Nurse Practitioners in Primary Care I | 3 credits |
| [[NSG-555]] | Nurse Practitioners in Primary Care II | 3 credits |
| [[NSG-556]] | Health Perspective of Culturally Diverse, Rural, and Underserved Populations | 2 credits |
| [[NSG-591]]** | Scholarly Preparation for Nurse Practitioner Boards | 2 credits |

****Required for completion of certification by students enrolled Fall 21 and after.**

Residency Requirements*

An on-site residency is required for nurse practitioner students enrolled in [[NSG-500]], Advanced Health Assessment, in order to demonstrate advanced physical assessment skills. In addition, nurse practitioner students in the following clinical courses may be required to complete an on-site residency, based upon the location of the clinical practice site. During residency, direct supervision and evaluation of the student will be completed by nurse practitioner clinical faculty at his/her designated clinical practice sites. Each course syllabus dictates the terms of the specific course residency.

- [[NSG-515]] – Advanced Practice in Adult-Gerontology Clinical II
- [[NSG-536]] – Advanced Practice in Psychiatric Mental Health Nursing II
- [[NSG-547]] - Family Nurse Practitioner Clinical II

Clinical Requirements

Further details of clinical requirements for each concentration area are provided to students in [Passan School of Nursing Graduate Program Student Handbook](#).

RN-M.S.N. PROGRAM

Purpose

This distance education RN to M.S.N. graduate nursing program is designed for the registered nurse with an associate's degree in nursing (AAN or ASN) who plans to earn a career-enhancing nursing degree to the master's level. Students enter this program as graduate students of the university. The curriculum starts with three bridge courses totaling 11 credit hours, which bring the student to the baccalaureate level of study. *** A pass-through bachelor's degree in nursing is not granted as part of this program.** After completing the bridge courses, students continue in completing a concentration of their choice for the Master of Science in Nursing degree (see Master of Science in Nursing section of the handbook). Graduates are eligible for national board certification upon program completion of the respective concentration. RN to M.S.N. students follow the policies of the Passan School of Nursing graduate nursing program.

Admission Requirements

See the Master of Science in Nursing admission requirements.

Curriculum

Successful completion of 3 bridge courses is required for the MSN degree conferral.

- [[NSG-410]] Transition to Baccalaureate Nursing for the Graduate Nursing Student; 7 credits (15 week course)
- [[NSG-411]] Leadership and Management Practicum for the Graduate Nursing Student; 3 credits (clinical- 45 hours) (12 week course)
- [[NSG-412]] Graduate Level Academic Writing for Nursing Professionals; 1 credit (12 week course)

Degree Requirements

The total number of credits and degree requirements for completion of the RN to M.S.N. program and conferring of the M.S.N. degree is based upon the concentration chosen (see Master of Science in Nursing section of this handbook). The range is 51-54 total credits.

SCHOOL BUSINESS LEADERSHIP

School Business Leadership

Dr. Charles Smargiassi, Chair/Assistant Professor of
Education Program Coordinator

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.

TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

Teaching English to Speakers of Other Languages with Pennsylvania ESL Specialist Letter of Endorsement Option

Dr. Kimberly Niezgoda, Program Coordinator

The Master of Science in Education with a major in Teaching English to speakers of Other Languages will qualify individuals to instruct populations whose first language is not English.

M.S. Program Student Learning Outcomes:

- SLO1: Students, will demonstrate understanding of the principles of first and second language acquisition, the differences between first and second language acquisition, and the methodologies of second language teaching by writing a comprehensive personal educational philosophy and by creating and designing instructional materials for English Learners (ELs) .
- SLO2: Students will describe and apply the principles of phonology (the sound system of English), grammar (the morphology and syntax of English) and semantics, pragmatics and discourse (language meaning and language use in context) to the creation of English as a Second Language lesson plans.
- SLO3: Students will be able to ascertain what L2 learners know and are prepared to do, and demonstrate appropriate (a) interpretation and (b) use of data to support L2 students
- SLO4: Students will demonstrate an understanding of the influence of current second language trends on learning processes through assessments of (1) reading, (2) writing, (3) listening, and (4) speaking.
- SLO5: Students will demonstrate the skills necessary to aid in ESL program assessment and development.
- SLO6: Students will develop the skills necessary to address the educational needs of ELs in their learning process.
- SLO7: Students will demonstrate leadership skills necessary to educate colleagues and administrators in best practices for effectively teaching and working with EL students.

Program Requirements:

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)
 - 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)

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.

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.

OTHER

BIOENGINEERING 4 + 1

Bioengineering 4 + 1

The 4 + 1 Bioengineering Program is an accelerated master's program that allows undergraduate students to earn a master's degree in bioengineering one year after successful completion of a bachelor's degree in Biology, Biochemistry, Electrical Engineering or Mechanical Engineering. With careful planning and consultation with your faculty advisor, you will take master's-level bioengineering courses as an undergraduate. When you complete your undergraduate degree, you will automatically proceed into your fifth year as a graduate student in the MS Bioengineering Program to complete the 36 credit hour requirement. The Program has two tracks, Biomedical Engineering and Synthetic Biology, which are discussed in more detail below. Additional details are found in the MS BEGR website.

Students will work with expert faculty in the fields of medical device design, imaging systems, bioengineering and synthetic biology technologies. Guided by faculty mentors, bioengineering students benefit from hands-on, research-intensive experiences unparalleled at other institutions in the region. Lab and classroom instruction includes training in cell and molecular techniques, bioinformatics, 3-D imaging and design software, and instrumentation and other simulation technologies.

Many students will complete their 4+1 master's program in bioengineering in the year after completing their undergraduate degree, although some students may need an extra semester in a summer session. If a student takes longer than 1 year plus a summer, the student could be removed from the 4+1 program and be placed into the normal MS-BEGR Program, meaning that additional coursework may be required.

Admissions Requirements and Applications

Students must:

- Apply and be accepted to the 4 + 1 program before the start of their junior year and before they begin to take any bioengineering master's degree courses. Students who wish to apply must request, complete and send the application to the graduate engineering admissions counselor, who will assist with the application process (applicants might be requested to provide letters of recommendation);
- Choose either the biomedical engineering (BMED) or synthetic biology (SynBio) track and work with the track's program director as their primary or secondary advisor;
- Take required bioengineering courses at the master's level as undergraduates;
- Earn a grade-point average of 3.0 or higher in each of their bioengineering courses;
- Maintain a 3.0 grade-point average in the bioengineering program;
- Complete their master's degree thesis in their 5th year;

- Strive to complete their undergraduate degree in four years.

Biomedical Engineering Track

Biomedical Engineering is the application of Engineering, Mathematics, and Physics to solve healthcare problems. Biomedical engineers design artificial limbs, joints, tissues and organs. They also design and build diagnostic equipment, monitoring devices and drug delivery systems, gather information on devices and work on software and automation for biomedical and biotechnological purposes.

Mechanical and Electrical Engineering students who meet all of the 4 + 1 program requirements will automatically be accepted into the biomedical engineering track of the bioengineering master's program.

Synthetic Biology Track

Synthetic Biology is the application of Biology, Chemistry, and Physics to solve healthcare problems. Synthetic biologists create biological molecules, systems or even entire organisms, which are useful for medical applications or performing unique functions, such as detecting or detoxifying biohazardous chemicals.

Biology and Biochemistry students who meet all of the 4 + 1 program requirements will automatically be accepted into the cell/metabolic engineering track of the bioengineering master's program.

CREATIVE WRITING 4 + 1

Creative Writing 4 + 1

Undergraduate students at Wilkes University or at our partner institutions hoping to attend a graduate program in creative writing after graduation may "double count" 9 credits of undergraduate and graduate instruction as a way of saving one semester's tuition in the Wilkes MA program. Qualified students would take [[CW-501]]R, the introductory residency, in person, followed by any two of the following online Foundations courses (3 credits each) during their senior year:

[[CW-502]] Writing Fiction

[[CW-503]] Writing Poetry

[[CW-504]] Writing Screenplays

[[CW-505]] Writing Plays

[[CW-506]] Writing Nonfiction

Upon completion of these courses the undergraduate may apply for admission into the Wilkes graduate program with one semester's worth of transfer credit. Such students must meet all the same requirements as all other applicants in terms of demonstrated talent, ability, and dedication. Using the BA/MA (4+1) option, students will be able to complete the M.A. in a single year.

Please contact the program administrators at 570-458-4547 for further information.

LETTER OF ENDORSEMENT: INSTRUCTIONAL COACHING

Pennsylvania Instructional Coaching Letter of Endorsement

Dr. Vicki Jones, Program Coordinator

This PDE-approved program provides the skills required for instructional coaches to create a culture of mentorship, data-driven pedagogy, reflective practice, and continuous improvement in the in the traditional classroom or online environment. The Instructional Coaching Letter of Endorsement program is offered 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.

endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.

Program Learning Outcomes

1. Demonstrate knowledge of adult learning theory and sound professional development practices as identified by the National Staff Development Council.
2. Demonstrate knowledge of key elements of various coaching approaches, their strengths and underlying conceptual frameworks.
3. Analyze instructional practice and provide meaningful and timely feedback to educators.
4. Plan collaboratively with educators for the continuation, modification or addition of specific skills and strategies in response to feedback and data.
5. Model in the classroom as a means of providing specific demonstration of specific instructional techniques, assessment strategies, and technology integration.
6. Reflect on their own work and use that reflection to modify instruction and improve coaching.
7. Work collaboratively with colleagues in setting goals and establishing directions for school improvement and reform.

Courses

- ED 5406 Instructional Coaching™
- ED 5407 Professional Learning for Teacher Effectiveness™
- ED 520 Using Assessment to Guide Instruction
- ED 523 Administrative Leadership in Curriculum and Instruction (with 30 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. 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

LETTER OF ENDORSEMENT: GIFTED

Pennsylvania Gifted Letter of Endorsement Program

Dr. Vicki Jones, Program Coordinator

This PDE-approved program provides the skills needed to 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]])

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 hours 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.

MBA 4 + 1

MBA 4 + 1

The MBA Program Requirements include Foundation, Core and Elective courses and must total 39 credits. For students enrolled in a 4+1 program, the following program requirements must be met:

Admissions Requirements. Students will apply to the MBA program prior to the semester in which they intend to start taking MBA courses. Students will need to document the completion of at least 108 credits prior to the start of MBA courses. A minimum cumulative GPA of 3.25 is required. In addition, students must have completed an undergraduate internship prior to the start of MBA courses. For the inaugural semester (i.e. the semester in which they complete their undergraduate program), students enrolled in the 4+1 program must not exceed 18 credit hours for that semester.

Non-business majors wishing to pursue the 4+1 program can complete a minor in Management (18 credits) as part of their undergraduate course of study. These classes include: [[ACC-161]], [[BA-153]], [[BA-335]], [[FIN-240]], [[MGT-251]], and [[MKT-221]].

Foundation Courses. Students enrolled in a 4+1 program will begin taking up to three MBA courses in the spring semester of their senior year. If the student has completed a minor in Management (prior to the start of MBA courses), the Foundations courses are waived.

Core Courses. Students enrolled in a 4+1 program will begin taking MBA core and elective courses in the summer after the completion of the undergraduate program at the rate of three to four courses per semester until the completion of the degree. No more than four courses can be completed in any one semester.

Elective Courses. Students enrolled in a 4+1 program will enroll in three elective courses at the pace of one elective course per semester, after the completion of foundation courses, to fulfill the elective course requirements. Students are encouraged to select a specialization within the MBA course offerings to focus their MBA elective course selections.

In summary, students will complete 36-39 credits to fulfill the requirements of the MBA Program. Courses are available in hybrid weekender and online formats – students will likely complete multiple courses in each format. Students enrolled in a 4+1 joint program will complete the MBA degree program within three additional semesters of the completion of the undergraduate degree.

PHARMD/MBA

PharmD/MBA

The MBA Program Requirements include Foundation, Core and Elective courses and must total 39 credits. For students enrolled in the PharmD/MBA joint program, the following outlines the program requirements:

Admissions Requirements. Students will apply using the normal application criteria and deadlines for the MBA program prior to the semester in which they intend to start taking MBA courses. Students intending to enroll in the PharmD/MBA joint program will need to document the completion of at least 108 credits prior to the start of MBA courses.

Foundation Courses. Students enrolled in the PharmD/MBA joint program will begin taking MBA foundation courses in the fall semester of their P2 year at the rate of one course per semester. If the student has completed a minor in Management (prior to the start of the MBA courses), the Foundation courses are waived.

Core Courses. Students enrolled in the PharmD/MBA joint program will begin taking MBA core courses in the summer of their P2 year at the rate of one or two courses per semester until the completion of the degree. If the student has completed a minor in Management (prior to the start of the MBA courses), they will begin with one core course in the spring semester of their P2 year and continue at the pace described above.

Elective Courses. Students enrolled in the PharmD/MBA joint program will enroll in Pharmacy Operations ([[PHA-412]]), Pharmacoeconomics ([[PHA-509]]) to fulfill the two of the three elective course requirements.

In summary, students will complete 30-33 additional credits to fulfill the requirements of the MBA Program. Students enrolled in the PharmD/MBA joint program will complete the dual degree program within the normal timeframe of completing the standalone PharmD degree (i.e. 6 years).

PHARMACOTHERAPEUTIC MODULES

* [[PHA-421]] and [[PHA-423]] are prerequisites to PHA 426-530.

(PHA 421, 423, 425, 426, 428 430, 521, 523, 525, 526, 528, and 530) - A four-semester, twelve-module sequence (three modules per semester) that integrates pharmacology, medicinal chemistry, pathophysiology, and pharmacotherapy. This team-taught, interdisciplinary course provides students with the opportunity to learn and apply concepts from these four disciplines

[[PHA-421]] Pharmacotherapeutics I: Principles of Pharmacology & Medicinal Chemistry
Two credits

Prerequisites: [[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]], and [[PHA-365]] or [[CHM-365]]

Corequisites: [[PHA-401]], [[PHA-423]], [[PHA-425]]

[[PHA-423]] Pharmacotherapeutics II: Principles of Pharmacotherapeutics
Two credits

Prerequisite: [[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]], and [[PHA-365]] or [[CHM-365]]

Corequisites: [[PHA-401]], [[PHA-421]], [[PHA-425]]

[[PHA-425]] Pharmacotherapeutics III: Self-Care and Dermatology*
Three credits

Pre-Requisites: [[PHA-421]], [[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]], and [[PHA-365]] or [[CHM-365]]

[[PHA-426]] Pharmacotherapeutics IV: Gastrointestinal Disorders*
Two credits

[[PHA-428]] Pharmacotherapeutics V: Infectious Diseases*
Four credits

[[PHA-430]] Pharmacotherapeutics VI: Hematology, Joint Disorders, Surgery*
Two credits

[[PHA-521]] Pharmacotherapeutics VII: Pulmonary Disorders*
Two credits

[[PHA-523]] Pharmacotherapeutics VIII: Cardiovascular Disorders*
Four credits

[[PHA-525]] Pharmacotherapeutics IX: Renal Disorders*
Two credits

[[PHA-526]] Pharmacotherapeutics X: Endocrine Disorders & Women's Health Issues*
Three credits

[[PHA-528]] Pharmacotherapeutics XI: Neoplastic Diseases*
Two credits

[[PHA-530]] Pharmacotherapeutics XII: Central Nervous System Disorders*
Three credits

SUSTAINABILITY MANAGEMENT, GRADUATE CERTIFICATE

Graduate Certificate In Sustainability Management

Program Director: Marleen Troy, Ph.D.

The online certificate in Sustainability Management is a 12-credit program that trains students in environmental sustainability standards and management practices. This program will equip students with the knowledge to take on and implement sustainability-related projects in the workplace by providing:

- a comprehensive overview of sustainability standards
- effective assessment practices
- the tools to design a sustainability plan and implement solutions in the workplace

The Sustainability Management program is appropriate for students of most educational and professional backgrounds, including those working in:

- education
- health care
- commercial real estate
- manufacturing
- non-profits
- government

This unique learning opportunity is offered in a condensed subject-focused format, allowing students to complete the program in as little as 16 months, all while taking one class at a time. Credit is available at the graduate and undergraduate level, as well as for professional continuing education. To earn the certificate students must complete the following course series:

- SUS 501 - Introduction To Sustainability
- SUS 502 - Metrics Of Sustainability
- SUS 503 - Sustainability Implementation
- SUS 504 - Industry-Focused Sustainability

Degree Requirements

All candidates for the online certificate in Sustainability Management must complete a program of twelve (12) credits.

DOCTORATE

DOCTOR OF PHILOSOPHY IN NURSING (PH.D.)

Requirements

DOCTOR OF PHILOSOPHY IN NURSING (Ph.D.)

PROGRAM DESCRIPTION

The Wilkes University Ph.D. in Nursing program prepares nurses to investigate and develop the science that drives nursing practice and education. The program is designed for students interested in pursuing academic and education roles, as well as research roles in healthcare settings. The program culminates in the student's defense of the dissertation, an original research study to advance knowledge in nursing science on a variety of topics. The dissertation is a requirement of the Ph.D. in nursing degree.

Dissertation Development

Early engagement between faculty and student is key to successful dissertation development. Students will select a dissertation chair, with whom they will work closely throughout the duration of the program in an individual student-chair dyad, online environment. This facilitates ongoing dissertation development and guidance throughout the doctoral program, and aims to promote dissertation completion.

Ph.D. PROGRAM LEARNING OUTCOMES

Graduates will be able to:

1. Synthesize empirical and theoretical literature from nursing and other disciplines regarding nursing education and clinical practice.
2. Design a nursing research study that examines, refines, and advances nursing science and theory to transform nursing education and clinical practice.
3. Critically evaluate research findings as applicable to nursing science.
4. Contribute to the field of nursing science through the dissemination of research findings.

Ph.D. ADMISSION REQUIREMENTS

- Master's level nursing degree
- GPA of 3.3 or higher from a master's or doctoral degree granting institution which is programmatically (ACEN, NLNAC, CCNE) accredited.
- Official transcripts from a master's or doctoral degree program showing a GPA of 3.3 or higher
- Unencumbered RN license; and advanced practice registered nurse (APRN) license and national board certification, as appropriate
- Curriculum vitae

- Completed online application at www.wilkes.edu/applynow
- Letter of intent describing your professional goals, research topic and the reason for pursuing the Ph.D. degree
- Two recommendations from graduate-level nurses or faculty who can attest to your ability to be successful in a Ph.D. program

POST MASTER'S Ph.D. CURRICULUM

Courses are 12 weeks, fully online, except for a 2-day on campus residency ([[NSG 615]]) and 2 week dissertation competency exam ([[NSG 628]]).

| Course Number | Title | Credits |
|---------------|---------------------------------------|---------|
| [[NSG-615]]* | Introductory Seminar | 1 |
| [[NSG-616]] | Philosophy of Science | 3 |
| [[NSG-617]] | Theory in Nursing Education | 3 |
| [[NSG-618]] | Health Care Issues and Policies | 3 |
| [[NSG-619]] | Research Process | 3 |
| [[NSG-620]] | Seminar I | 3 |
| [[NSG-621]] | Statistics | 3 |
| [[NSG-622]] | Writing for Grants and Publications | 3 |
| [[NSG-623]] | Quantitative Research and Analysis I | 3 |
| [[NSG-624]] | Qualitative Research and Analysis | 3 |
| [[NSG-625]] | Quantitative Research and Analysis II | 3 |
| [[NSG-626]] | Measurement and Data Collection | 3 |
| [[NSG-627]] | Seminar II | 3 |
| [[NSG-628]]** | PhD Competency | 1 |
| [[NSG-629]] | Dissertation Seminar | 3 |
| [[NSG-630]] | Dissertation Implementation I | 3 |
| [[NSG-631]] | Dissertation Implementation II | 3 |

Total Credits: 47; Students may be required to take up to 6 credits of additional coursework in preparation for the dissertation topic chosen. This decision will be determined, in collaboration with the student's dissertation chairperson. Students must complete these additional credits prior to enrollment in [[NSG-628]].

Doctor Of Philosophy In Nursing (Ph.D.)

*[[NSG-615]] (2-day Friday and Saturday residency prior to the initial course start date)

**[[NSG-628]] (2-week timed, scheduled comprehensive written examination)

Students who have not successfully completed data collection by the conclusion of [[NSG-630]] will be required to enroll in an additional 3 credit "extension" course. More than one of these "extension" courses may be taken if needed to complete data collection. Students will receive an incomplete for [[NSG-630]] until all course work is satisfied. Students who have not successfully defended their dissertation by the conclusion of [[NSG-631]] will be required to enroll in an additional 3 credit "extension" course. More than one of these "extension" courses may be taken if needed to complete the dissertation. Students will receive an incomplete for [[NSG-631]] until all course work is satisfied. Extension courses are Pass/Fail. Students must complete the program, including dissertation defense, within 7 years from the date of enrollment.

Ph.D.-DNP CURRICULUM

This pathway is for students with a Ph.D. to attain a D.N.P. degree. The D.N.P. courses are fully online and 12 weeks in length except for [[NSG-608a]] and [[NSG-608b]] which are 15 weeks in length for completion of the D.N.P. Project.

| Course Number | Title | Credits |
|---------------|--|---------|
| [[NSG-600]] | Nursing Informatics | 3 |
| [[NSG-602]] | Ethical Principles for Advanced Nursing Practice | 3 |
| [[NSG-604]] | Epidemiology and Environmental Health | 3 |
| [[NSG-605]] | Collaboration in Health Care Delivery | 3 |
| [[NSG-606]] | Diversity and Social Issues | 3 |
| [[NSG-607]] | Leadership in Advanced Nursing Practice | 3 |
| [[NSG-608a]] | D.N.P. Project (15 weeks) | 3 |
| [[NSG-608b]] | D.N.P. Project (15 weeks) | 3 |

Total Credits: 24

An elective practicum course is available for students with less than 400 hours from their master's degree and post grad/ APRN certificate programs. These courses provide students with additional time to complete the required 1000 hours for the D.N.P. degree, prior to the start of the D.N.P. project. Students may take the following elective practicum course to gain hours:

[[NSG-609]]: D.N.P. Program Practicum I; 250 clinical hours; 3 credits

DNP-Ph.D. CURRICULUM

Courses are 12 weeks, fully online, except for a 2-day on campus residency ([[NSG 615]]) and 2 week dissertation competency exam ([[NSG 628]]).

| Course Number* | Title | Credits |
|----------------|---------------------------------------|---------|
| [[NSG-615]]* | Introductory Seminar | 1 |
| [[NSG-616]] | Philosophy of Science | 3 |
| [[NSG-617]] | Theory in Nursing Education | 3 |
| [[NSG-619]] | Research Process | 3 |
| [[NSG-620]] | Seminar I | 3 |
| [[NSG-621]] | Statistics | 3 |
| [[NSG-623]] | Quantitative Research and Analysis I | 3 |
| [[NSG-624]] | Qualitative Research and Analysis | 3 |
| [[NSG-625]] | Quantitative Research and Analysis II | 3 |
| [[NSG-626]] | Measurement and Data Collection | 3 |
| [[NSG-627]] | Seminar II | 3 |
| [[NSG-628]]** | PhD Competency | 1 |
| [[NSG-629]] | Dissertation Seminar | 3 |
| [[NSG-630]] | Dissertation Implementation I | 3 |
| [[NSG-631]] | Dissertation Implementation II | 3 |

Total Credits: 41; Students may be required to take up to 6 credits of additional coursework in preparation for the dissertation topic chosen. This decision will be determined, in collaboration with the student's dissertation chairperson. Students must complete these additional credits prior to enrollment in NSG 628.

*[[NSG-615]] (2-day Friday and Saturday residency prior to the initial course start date)

**[[NSG-628]] (2-week; timed, scheduled comprehensive written examination)

Students who have not successfully completed data collection by the conclusion of [[NSG-630]] will be required to enroll in an additional 3 credit "extension" course. More than one of these "extension" courses may be taken if needed to complete data collection. Students will receive an incomplete for [[NSG-630]] until all course work is satisfied. Students who have not successfully defended their dissertation by the conclusion of [[NSG-631]] will be required to enroll in an additional 3 credit "extension" course. More than one of these "extension" courses may be taken if needed to complete the dissertation. Students will receive an incomplete for [[NSG-631]] until all course work is satisfied. Extension courses are Pass/Fail.

Students must complete the program, including dissertation defense, within 7 years from the date of enrollment.

Residency

All students will be required to take this introductory course ([[NSG-615]]) prior to the start of the program and [[NSG-616]]. This course is a 2-day Friday and Saturday, on-site seminar, providing students with the opportunity to begin to build academic relationships and community, and ease the transition into doctoral level education.

Ph.D. Competency, Comprehensive Exam ([[NSG-628]])

All Ph.D. students are required to successfully pass the timed, scheduled comprehensive exam ([[NSG-628]]) before proceeding into the Dissertation Seminar ([[NSG-629]]). Students are provided a specific date and time period to complete the comprehensive exam during [[NSG-628]]. If a student is unsuccessful on the first attempt, they may retake the comprehensive exam one time only. If the comprehensive exam is failed a second time, the student will be dismissed from the program and ineligible to return.

DOCTOR OF NURSING PRACTICE (D.N.P.)

Purpose

The distance education program leading to the Doctor of Nursing Practice degree (D.N.P.) at Wilkes University is linked to the mission statements of the University and the Passan School of Nursing. The Essentials of Doctoral Education for Advanced Nursing Practice (AACN, 2006) are applied to the curriculum. The doctoral program focuses on two primary elements: applied research and clinical practice. These elements are embedded in courses throughout the program leading to the final D.N.P. Project where students integrate acquired knowledge to clinical practice in their preferred specialty area.

D.N.P. Program Outcomes

The D.N.P. Program at Wilkes University prepares students to:

1. Apply scientific inquiry and information technology to become leaders in advancing nursing practice.
2. Demonstrate application of scholarship and research for solving the nation's complex health problems.
3. Translate evidence based research into clinical practice.
4. Integrate and disseminate knowledge for improving patient and population health outcomes.
5. Engage in health care policy.

D.N.P. Student Learning Outcomes

Students in the D.N.P. Program at Wilkes University will:

1. Synthesize nursing science to manage complex health problems and improve health outcomes in advanced nursing practice.
2. Develop knowledge and skills in healthcare organizational and systems leadership to improve evidence based practice and policy.
3. Critically analyze information technology, research methodology, quality improvement methodology to implement the best evidence based practice.
4. Design patient care technology and information systems to enhance quality of health care delivery.
5. Evaluate health care policies to improve health care policy outcomes at the local, state, and national levels.
6. Employ specialized knowledge and leadership skills when collaborating and leading other inter-professional health care teams in complex health care delivery systems.
7. Analyze health disparities, cultural diversity, environmental and societal needs in the care of individuals, aggregates, and populations.
8. Demonstrate advanced levels of clinical judgment using systems thinking to implement and evaluate evidence based care.

Admission Requirements

Applicants will be evaluated for admission based on the following criteria. These admissions standards represent the minimum eligibility requirements for the program. Admission committee members reserve the right to request additional

information from candidates as needed for a more in-depth review of qualifications.

Admission Criteria

- Master of Science in Nursing degree
- GPA of 3.0 or higher from a master's or doctoral degree granting institution which is regionally and programmatically (ACEN, NLNAC, or CCNE) accredited.
- Official transcripts from master's degree and post-graduate/APRN certificate granting institutions, as appropriate.
- Unencumbered RN license and advanced practice registered nurse (APRN) license* and national board certification, as appropriate
- Completed online application
- Curriculum vitae
- Validation of completed, supervised clinical practice hours during master's and/or post-graduate/APRN certificate program. Verification must be provided by the nursing program where the clinical hours were completed.
- Evidence of completion for advanced health assessment, advanced pharmacology, and advanced pathophysiology by APRN students (Nurse Practitioners, Clinical Nurse Specialists, Nurse Anesthetists and Nurse Midwives) who do not hold current national certification.

*Applications presenting a history of disciplinary action on professional licenses will be subject to an additional review process by the Special Licensure Discrepancy Committee of the university.

The Curriculum

M.S. to D.N.P. Core (30 Credits)

12 week courses (NSG 608 a and b are 15 week courses)

| | | |
|--------------|--|-----------|
| [[NSG-600]] | Nursing Informatics | 3 credits |
| [[NSG-601]] | Biostatistics | 3 credits |
| [[NSG-602]] | Ethical Principles for Advanced Nursing Practice | 3 credits |
| [[NSG-603]] | Application of Nursing Research | 3 credits |
| [[NSG-604]] | Epidemiology and Environmental Health | 3 credits |
| [[NSG-605]] | Collaboration in Health Care Delivery | 3 credits |
| [[NSG-606]] | Diversity and Social Issues | 3 credits |
| [[NSG-607]] | Leadership in Advanced Nursing Practice | 3 credits |
| [[NSG-608]]a | D.N.P. Project | 3 credits |

| | | |
|--------------|----------------|-----------|
| [[NSG-608]]b | D.N.P. Project | 3 credits |
|--------------|----------------|-----------|

**NSG 608 a and b are completed over the last 2 courses (30 weeks) in the D.N.P. program.*

An elective practicum course is available for students entering the D.N.P. program with less than 400 hours from their master's degree and post grad/APRN certificate programs. This course provide students with additional time to complete the required 1000 hours for the D.N.P. degree, prior to the start of the DNP Project.

- [[NSG-609]]: DNP Program Practicum I; 250 clinical hours; 3 credits

Degree Requirements

Students are required to complete the 30 credit D.N.P. core for degree conferral.

D.N.P. Project

Students are required to complete a D.N.P. Project that demonstrates mastery of theoretical content through analysis and synthesis. The D.N.P. project in the program is a pilot study directed at generating new knowledge to support quality improvement through practice or policy change. Students should have a topic prior to entering the program and will research the topic throughout their D.N.P. coursework. The expectation is for students to commit to this topic during their coursework. Students changing topics and not prepared for the start of the D.N.P. Project ([[NSG-608]]a) may be asked to take a leave of absence to prepare for their new topic. D.N.P. project oversight is provided by an assigned D.N.P. Project Chairperson. One other committee member is chosen by the student and can include graduate faculty members or community members who are serving as D.N.P. Project mentors. Students may be required by graduate faculty to seek an editor, if their strength is not in writing.

The D.N.P. program requires completion of a total of 1000 hours of practice experience beyond the bachelor's level of nursing education. The hours will be conducted in the D.N.P. Project courses. Students who have completed practicum hours to satisfy past curriculum requirements may be credited with hours from their master's program and/or post master's graduate/ APRN certificate in nursing. Validation of those hours is required through a letter from the degree granting academic institution verifying the number of practicum hours as part of the enrollment process. Further details of clinical requirements are outlined in the [graduate program student nursing handbook](#).

DOCTOR OF PHARMACY

Recommended Course Sequence

P-1 Fall Semester

| | | |
|----------------------|---------------------------------|-----------|
| [[PHA-301]] | Found. of Pharm. Practice I | 2 |
| [[PHA-308]] | Pharm. and Health Care Delivery | 3 |
| [[PHA-311]] | Pharmaceutics I | 4 |
| [[PHA-313]] | Pharm. Calculations | 1 |
| [[PHA-327]] | Medical Microbiology | 3 |
| [[PHA-331]] | Anatomy/ Physiology I | 4 |
| Total Credits | | 17 |

P-1 Spring Semester

| | | |
|----------------------|-----------------------------------|--------------|
| [[PHA-302]] | Pharmaceutical Care Lab I | 1 |
| [[PHA-304]] | Foundations of Pharm. Practice II | 2 |
| [[PHA-310]] | Clinical Research Design | 3 |
| [[PHA-312]] | Pharmaceutics II | 4 |
| [[PHA-332]] | Anatomy & Physiology II | 4 |
| [[PHA-365]] | Medical Biochemistry* or elective | 4 |
| [[PHA-360]] | Self-Directed IPPE I | 0 |
| Total Credits | | 16-18 |

P-1 Summer

| | | |
|-------------|--|---|
| [[PHA-335]] | Intro. Pharmacy Practice Experience I (IPPE I) | 2 |
|-------------|--|---|

* [[PHA-365]] may be taken as [[CHM-365]] sophomore year; if successfully completed, 2-3 credit elective may be taken spring P1.

P-2 Fall Semester

| | | |
|-------------|-----------------------------|---|
| [[PHA-401]] | Pharmacy Care Lab II | 1 |
| [[PHA-405]] | Pharmaceutical Care Systems | 2 |

| | | |
|----------------------|----------------------------|--------------|
| [[PHA-411]] | Biopharm/Clinical Kinetics | 3 |
| [[PHA-421]] | Pharmacotherapeutics I | 3 |
| [[PHA-423]] | Pharmacotherapeutics II | 3 |
| [[PHA-425]] | Pharmacotherapeutics III | 3 |
| | Elective | 2-3 |
| Total Credits | | 16-17 |

P-2 Spring Semester

| | | |
|----------------------|---------------------------|--------------|
| [[PHA-402]] | Pharmacy Care Lab III | 1 |
| [[PHA-410]] | Biotechnology/ Immunology | 3 |
| [[PHA-412]] | Mgt. of Pharm. Operations | 3 |
| [[PHA-426]] | Pharmacotherapeutics IV | 3 |
| [[PHA-428]] | Pharmacotherapeutics V | 3 |
| [[PHA-430]] | Pharmacotherapeutics VI | 3 |
| [[PHA-440]] | IPPE II | 1 |
| [[PHA-460]] | Self-Directed IPPE II | 0 |
| | Elective | 2-3 |
| Total Credits | | 18-19 |

P-2 Summer

| | | |
|-------------|--|---|
| [[PHA-445]] | Intro. Pharmacy Practice Experience III (IPPE III) | 2 |
|-------------|--|---|

P-3 Fall Semester

| | | |
|-------------|-------------------------------|---|
| [[PHA-501]] | Pharmacy Care Lab IV | 1 |
| [[PHA-503]] | Longitudinal Care I | 1 |
| [[PHA-505]] | Pharmacy Law | 2 |
| [[PHA-509]] | Economic Evaluation of Pharm. | 3 |
| [[PHA-521]] | Pharmacotherapeutics VII | 3 |

| | | |
|----------------------|---------------------------|--------------|
| [[PHA-523]] | Pharmacotherapeutics VIII | 2 |
| [[PHA-525]] | Pharmacotherapeutics IX | 2 |
| | Elective | 2-3 |
| Total Credits | | 17-18 |

P-3 Spring Semester

| | | |
|----------------------|--------------------------------|--------------|
| [[PHA-502]] | Pharmacy Care Lab V | 1 |
| [[PHA-504]] | Longitudinal Care II | 1 |
| [[PHA-526]] | Pharmacotherapeutics X | 2 |
| [[PHA-528]] | Pharmacotherapeutics XI | 2 |
| [[PHA-530]] | Pharmacotherapeutics XII | 2 |
| [[PHA-532]] | Integrative Medicine/Nutrition | 2 |
| [[PHA-555]] | IPPE IV | 0.5 |
| [[PHA-560]] | Self-Directed III/ IPPE V | 0.5 |
| | Professional Elective | 2-3 |
| Total Credits | | 15-16 |

P-4 Experiential Year

The APPE portion of the curriculum consists of 7 rotations for a total of 35 credit hours in various settings. Rotation #1 is 6 weeks in duration. Rotations #2-7 are 5 weeks in duration.

There are four required APPE rotations. In addition there are three elective APPE rotations. Information will be provided during the P-3 year.

| | |
|-------------|--|
| [[PHA-510]] | General Medicine |
| [[PHA-511]] | Ambulatory Care |
| [[PHA-512]] | Community Practice |
| [[PHA-513]] | Health System |
| [[PHA-515]] | Naplex Review (this is a course, not a rotation) |

EDUCATION LEADERSHIP

Doctor of Education (Ed.D.)

Dr. Karim Medico Letwinsky, Chair, Associate Professor of Education, School of Education
Mrs. Pamela Koslosky, Administrative Assistant
Mrs. Marcia Harowicz, Office Assistant

Mission

The mission of the Doctor of Education, Education Leadership Program is to empower leaders with the knowledge, skills, and abilities to effect change in educational systems through the synthesis of theory, scholarship, and practice.

Vision

The vision of the Doctor of Education, Education Leadership Program is to develop authentic, ethical, courageous, and innovative leaders who transform educational culture and practice.

Programs

Wilkes University's Doctor of Education (Ed.D.) in Educational Leadership is a 60-credit post-master's low residency program offered in a blended online format with annual residencies.

The completion of required doctoral-level coursework culminates in the development of a dissertation proposal. The final dissertation and its defense are the capstone requirements for the Ed.D. in Educational Leadership. 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 effectual 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 615 Professional Seminar in Educational Leadership (Low residency course/Field hours)
ED 625 Professional Development and Supervision (Field hours/Research)
ED 627 Advanced Issues in Educational Law (Field hours/ Research)
ED 629 Strategic Planning and Thinking (Low residency course/Field hours) (Prerequisite: ED 615)
ED 650 Curriculum Design and Instructional Models
ED 654 School Finance & Facilities Administration (Field hours/Research)
ED 659 Superintendent Internship (90 hour internship/Taken at end of major)
Three 3-credit electives from available doctoral level courses

Educational Leadership 30 credits

Required courses: 15 credits

ED 615 Professional Seminar in Educational Leadership (Low residency course/Field hours)
ED 626 Politics and Policy for Educational Leaders (Domestic)
ED 616 Contemporary Issues & Trends in Global Education (International)
ED 629 Strategic Thinking and Planning (Low residency course/Field hours)
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 650 Curriculum Design and Instructional Models
- ED 670 Curriculum Theory
- 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 645 Technology Supported Assessment
- ED 646 Assistive Technology
- 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 21 credits, which includes: seven 3-credit courses offered in a blended format (with field work totaling 270 hours) and 3-credits of a 90-hour internship at the superintendent's level.

K-12 Administration courses for Superintendent Certification (21 credits)

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

- ED 615 Professional Seminar in Educational Leadership (Low residency course - 45 field hours)
- ED 625 Professional Development and Supervision (45 field hours)
- ED 627 Advanced Issues in Educational Law (45 field hours)
- ED 629 Strategic Planning and Thinking (Pre-Req ED 615) (Low residency course - 45 field hours)
- ED 650 Curriculum Design and Instructional Models
- ED 654 School Finance and Facilities Administration (45 field hours)
- 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 21-credit certificate program plus an additional three 3-credit electives 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.

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.

Doctoral Program Grading Scale

| | | | |
|-----|----|-----------|---|
| 4.0 | A | 94-100% | Academic achievement of superior quality |
| 3.5 | B+ | 87-93% | Academic achievement of good quality |
| 3.0 | B | 80-86% | Academic achievement of acceptable quality in meeting course requirements but below the average required for graduation |
| 2.5 | C+ | 75-79% | Academic achievement of adequate quality but below the average required to meet course and graduation requirements |
| 2.0 | C | 70-74% | Academic achievement below the average to meet course and graduation requirements |
| 0.0 | F | Below 70% | Failure. No credit earned |

More specific information about the doctoral programs, their requirements and admission procedures can be found on-line at <https://www.wilkes.edu/doctorofeducation>.

Course Descriptions

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. 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.

BEGR. BIOENGINEERING

BEGR-401. APPLIED ENGINEERING ANALYSIS

Credits: 3 (Two hours of lecture and two hours of lab per week)

This course is a graduate level course whose focus is to present, illustrate and apply the calculus of single, multivariable and vector-valued functions to a variety of mechanical and electrical engineering and physics topics at an advanced level. Topics include ordinary differential equations, series solutions of ordinary differential equations and special functions, inner product spaces, vector analysis, operator algebra, matrix methods and eigenvalue problems, Fourier series and integrals, complex variables, Sturm-Liouville theory, transform methods and partial differential equations. (Cross-listed with [[ME-401]])

BEGR-408. BIOMEMS

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

This course is about the basic foundations for the understanding of electrical, mechanical and chemical transducers in biomedical applications through learning fabrication, design and analysis. The course will have lectures to cover the theory and practical applications of imaging. Some of the lectures and assignments will be in our materials fabrication laboratories.

BEGR-409. INTRODUCTION TO BIOENGINEERING

Credits: 3 (Three hours of lecture per week)

Terms Offered: Fall

This course first covers some essential information of bioengineering and includes the required research ethics curriculum for the program. The course also samples the wide variety of bioengineering options for students who plan to enter one of the degree tracks. The beginning lectures briefly describe the scientific basis for bioengineering both from biological and engineering standpoints. Bioengineering faculty will then describe the bioengineering options in the particular engineering tracks and courses as well as the research conducted by faculty in the department. (Required for all students in Bioengineering)

BEGR-411. INTEGRATED PRODUCT DEVELOPMENT

Credits: 3 (Three hours of lecture per week)

Organizational issues and decision-making for capital investments in new technologies. The product development and commercialization process is traced from research and development and marketing activities through the implementation phase involving the manufacturing function. Term project is a commercialization plan for a new manufacturing technology. (Cross-listed with [[ME-411]]) (Required for all students in Bioengineering)

BEGR-415. 3-D MODELING IN HUMAN ANATOMY AND PHYSIOLOGY

Credits: 3 (Two hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

This is a one-semester course that will provide a foundation in Human Anatomy and Physiology for Graduate Engineering students in preparation for the design and evaluation of biomedical devices. Topics to be covered include: anatomical terminology; cell, tissue and organ structure; as well functional anatomy of muscles, joints, nervous, cardiovascular, respiratory, digestive, and urinary systems. Laboratory exercises will include 3D modeling of these systems and physiological recording of muscle contraction, action potentials, EEG, ECG, heart rate, pulse, and respiratory movements.

BEGR-421. BIOFLUIDICS AND MICROFLUIDICS

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

Students learn how to mathematically and quantitatively describe fluid flow throughout organ systems and biomedical devices. Other topics covered include how flow correlates with diseases.

BEGR-424. MOLECULAR BIOLOGY

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

An introduction to molecular biology and how it is studied. Topics covered include genome structure, transcription, translation, chromatin structure and its role in gene expression, and techniques for studying gene expression and for genetic engineering. The goal is to learn enough molecular biology to figure out how to identify target genes or combinations of genes and how they might be engineered to produce desired products or to engineer organisms with desired capabilities. (Cross-listed with [[BIO-324]])

BEGR-426. IMMUNOLOGY AND IMMUNOCHEMISTRY

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

Immunology and Immunochemistry provides an introduction to mammalian host defense. The molecular mechanisms that account for the antigen-antibody interaction are explored, as are ways in which this interaction influences the evolution of lymphocyte populations. Mechanisms of acquired immunity, including interactions among lymphocyte subpopulations, are discussed. Lymphocyte differentiation is addressed as a developmental problem, and defense against infection is approached as an integrated response. (Cross-listed with [[BIO-326]])

BEGR-427. MEDICAL MICROBIOLOGY

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

Medical Microbiology provides a professional-level introduction to microbiology that is focused on application of microbiology to the study of infectious disease. Principles of molecular cell biology and biochemistry are applied to an understanding of factors influencing interactions between microbial pathogens and their hosts. Adaptations that have evolved in vertebrate hosts to limit infection are considered along with parasite adaptations that have evolved to overcome such defenses. Infection control strategies - epidemiological and chemical - are also introduced. (Cross-listed with [[BIO-327]])

BEGR-429. VIROLOGY

Credits: 3 (Three hours of lecture per week)

Virology provides an introduction to the biology of viruses and virus-like agents. A consideration of viruses in terms of their molecular architecture and genome organization is followed by a survey of strategies employed for reproductive success of viruses, focused on the traditional 'stages' of attachment, entry, transcription, translation, genome replication, assembly and release. The course provides an overview of the major groups in the Baltimore classification, and introduces topics in host interaction and control. (Cross-listed with [[BIO-329]])

BEGR-451. MECHATRONICS/BIOINSTRUMENTATION

Credits: 3 (Two hours of lecture and one hour of lab per week)

Fees: Lab Fee - \$104

Mechatronics is a multidiscipline technical area defined as the synergistic integration of mechanical engineering with electronic and intelligent computer control in the design and manufacture of industrial products and processes. This course covers topics such as actuators and drive systems, sensors, programmable controllers, microcontroller programming and interfacing, and automation systems integration. (Cross-listed with [[ME-451]])

BEGR-452. NANOTECHNOLOGY

Credits: 3 (Two hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

This course explores the fundamentals of nanotechnology and its applications for colloidal suspension, Electrophoretic deposition and nano-sensing by understanding materials properties, micro-machining, sensor and actuator principles. Two hours of lecture and three hours of lab per week. (Cross-listed with [[ME-452]])

BEGR-465. BIOCHEMISTRY

Credits: 3 (Three hours of lecture per week)

An introduction to metabolism and how it is studied together with an introduction to the physical and chemical properties of macromolecules and their precursors. The goal is to learn enough biochemistry and metabolism to figure out how to identify target pathways and how they might be engineered to produce desired products or to engineer organisms with desired capabilities. (Cross-listed with [[CHM-365]])

Course Descriptions

BEGR-474. IMAGING IN BIOMEDICINE

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

Biological and medicinal imaging techniques. This course will cover different aspects of imaging important to biomedicine including optical, scanning probe, ultrasound, X-ray and nuclear radiation techniques. The course will have lectures to cover the theory and practical applications of imaging. Some of the lectures and assignments will be in our imaging laboratories both at Wilkes and/or at our partner institutions.

BEGR-477. CELLULAR BIOPHYSICS

Credits: 3 (Three hours of lecture per week)

Cells are complex micron-sized machines that may best be understood by reverse systems engineering, which means that the understanding originated from detailed analysis of cellular functions and how they were optimized. This course focuses on a quantitative understanding of cellular processes. It is designed for students who feel comfortable with and are interested in analytical and quantitative approaches to cell biology and cell physiology.

BEGR-488. BIOMEDICAL DEVICES AND DESIGN

Credits: 3 (Two hours of lecture and one hour of lab per week)

Fees: Lab Fee - \$104

This course discusses the design development and evaluation of medical devices. The goal is to develop the thinking and research tools that will enable students to understand medical devices as products as commercially available technological solutions to medical needs. This total understanding is based upon the coordinate separated understandings of: 1) underlying medical science and clinical practice; 2) underlying technologies and the potential choices between available technologies; 3) engineering design; and 4) technological and business direction of companies.

BEGR-498. BIOMECHANICS – MUSCULAR-SKELETON MECHANICS

Credits: 3 (Three hours of lecture and three hours of lab per week)

Fees: Lab Fee - \$104

Instruction will be given towards the mechanical structure of humans and vertebrates, including the concerted motion of bone, muscles and joints as well as the stress and strain of human movements and motion. One example practical outcome of the course is towards the design of prosthetics.

BEGR-599. THESIS/PROJECT

Credits: 3-6 (Three to six credits of research, proposal writing, presentation, and thesis per week)

Students have the option of selecting up to six credit-hours of thesis or three credit-hours of project under guidance of a thesis/project advisor. The thesis will have a committee of three members; at least two members (including the advisor) must be Wilkes faculty members. The thesis/project should be presented in an open forum.

BIO. BIOLOGY

BIO-406. INVERTEBRATE BIOLOGY

Credits: 4

A study of the major invertebrate phyla with respect to their taxonomy, evolution, morphology, physiology and ecology. Lecture, three hours a week, laboratory, three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-411. COMPARATIVE PHYSIOLOGY

Credits: 4

Comparative physiology encompasses the study of organ functions and organ system functions in different animal groups. Emphasis will be on the systemic physiology of vertebrate animals. Lecture, three hours a week; laboratory, three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-412. PARASITOLOGY

Credits: 4

Parasitology is the study of organisms that live on or within other organisms and the relationship of these organisms to their hosts. This course deals with the common parasites that infect humans and other animals. Lecture, three hours a week; laboratory, three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-414. COMPARATIVE VERTEBRATE ANATOMY

Credits: 4

This course deals with the evolution and anatomy of the organ systems of vertebrates. Lectures survey the comparative anatomy of the vertebrate classes. Laboratory dissections include the Lamprey, Shark, Mud Puppy, and Cat in detail. Lecture three hours per week, laboratory three hours per week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122.

BIO-421. MAMMALIAN PHYSIOLOGY

Credits: 4

This course examines the function of mammalian systems with regard to homeostasis, metabolism, growth and reproduction. Normal physiological processes as well as some pathophysiological situations are covered. The emphasis is on human physiology; however, other mammalian systems are discussed to demonstrate physiological adaptability to various environmental situations. Laboratory exercises include physiological experimentation in living systems and in computer simulations. Lecture: three hours; Laboratory: three hours. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 226, or permission of instructor.

BIO-423. FUNCTIONAL HISTOLOGY**Credits:** 4

This course emphasizes the microscopic examination of mammalian tissues from morphological and physiological perspectives. Reference is made to organ embryogenesis to support the understanding of organ form and function. Tissue preparation for histological examination is demonstrated. Lecture, three hours; laboratory, three hours per week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-425. ENDOCRINOLOGY**Credits:** 4**Fees:** \$120

This course focuses on the structure, biochemistry, and function of mammalian hormones and endocrine glands; avian, amphibian and invertebrate hormones are also discussed, where relevant. Clinical pathologies resulting from excess or insufficient hormones are discussed, as this is essential to mastering an understanding of endocrinology. Laboratory exercises include experimentation in living systems and computer simulations. Lecture: three hours per week; Laboratory, three hours per week. Laboratory Fee \$120.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-426. IMMUNOLOGY AND IMMUNOCHEMISTRY**Credits:** 4

This course is concerned with the biological mechanisms and chemistry of reactants and mediators associated with natural and acquired states of immunity, tissue and blood serum responses to infection and immunization, and related patho-physiologic alterations of hypersensitivity phenomena in vertebrate animals and man. A background in microbiology, physiology, and biochemistry is advisable. Lecture, three hours a week; laboratory three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-427. MEDICAL MICROBIOLOGY**Credits:** 4

Medical Microbiology provides a professional-level introduction to microbiology that is focused on application of microbiology to the study of infectious disease etiology and epidemiology. The laboratory covers techniques used in isolation and identification of microorganisms. Lecture: three hours a week; Laboratory: three hours per week. Laboratory fee: \$120.

Pre-Requisites

Biology 121-122, Chemistry 231-232.

BIO-428. DEVELOPMENTAL BIOLOGY**Credits:** 4

A course dealing with the principles of animal development from descriptive, experimental, and evolutionary perspectives. Laboratory work includes both descriptive and experimental embryology as well as more molecular techniques. Lecture, three hours; laboratory, three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-429. VIROLOGY**Credits:** 3

Virology provides an introduction to the biology of animal viruses. Description of viral molecular architecture and genome organization is followed by a survey of strategies employed for multiplication and regulation of gene expression. Pathogenesis of viral infections is considered from perspectives of viral reproduction strategies and host defense.

Pre-Requisites

Biology 121-122, 225-226; Chemistry 231-232, 233-234.

BIO-438. BIOLOGY OF CANCER**Credits:** 3

This lecture course explores the various concepts and mechanisms associated with the origins, elaborations and future developments in cellular transformation and carcinogenesis. Emphasis is placed on the molecular biology and physiology of these processes; therefore, a solid background in basic biology is required. Oncogenes, tumor suppressor genes and the disruption of homeostasis are covered in detail, while the medical phenomena typically receive a more general level of coverage.

Pre-Requisites

Biology 121-122, 226; [[CHM-231]]-232.

BIO-441. FRESHWATER ECOSYSTEMS**Credits:** 3

A study of the chemical, physical, and biological aspects of freshwater systems. Laboratory investigations consist of in-depth analysis of local lakes and streams. Lecture, two hours a week; laboratory three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-443. MARINE ECOLOGY**Credits:** 3

An examination of the biology of marine life within the context of modern ecological principles. The structure and physiology of marine organisms are studied from the perspectives of adaptation to the ocean as habitat, biological productivity, and interspecific relationships. Emphasis is placed on life in intertidal zones, estuaries, surface waters, and the deep sea. Two hours of lecture and three hours of laboratory per week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, EES 230, or permission of instructor.

Course Descriptions

BIO-444. ECOLOGY

Credits: 4

Ecology examines contemporary ecological thinking as it pertains to the interrelationship of organisms and their environments. Interactions at the population and community levels are emphasized. Lecture, three hours a week; laboratory, three hours a week. Laboratory fee: \$90. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-445. GENETICS

Credits: 4

Genetics presents treatment of genetics beyond the introductory level with particular emphasis on population and molecular aspects of heredity. Topics include plant and human genetics. Lecture, three hours a week; laboratory, three hours a week. Laboratory fee: \$120. Offered every fall.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-446. ANIMAL BEHAVIOR

Credits: 4

This course emphasizes behavior as the response of animals to physical and social environmental change, and covers the processes that determine when changes in behavior occur and what form they take. Laboratories, using living local fauna, demonstrate principles discussed in lecture. Lecture, three hours; laboratory, three hours a week. Laboratory fee: \$120. Offered in alternate years.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-461. PLANT FORM AND FUNCTION

Credits: 4

An introduction to the morphology, anatomy, cytology, and physiology of plants, with emphasis on the vascular plants. Structural and functional aspects of plants are interpreted in relation to each other and within ecological and evolutionary contexts. Offered in a workshop format of two three-hour sessions per week. Laboratory fee: \$120. Offered every other fall.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-462. PLANT DIVERSITY

Credits: 4

A comprehensive survey of bryophytes, vascular plants and plantlike organisms (fungi and algae) emphasizing their structure, reproductive biology, natural history, evolution, and importance to humans. Offered in a workshop format of two three-hour sessions per week. Laboratory fee: \$120. Offered every other fall.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

BIO-466. FIELD BOTANY

Credits: 3

A specialized summertime field course that emphasizes a taxonomic, phylogenetic, and ecological survey of higher plants indigenous to Northeastern Pennsylvania. Meets three days per week during five-week summer session. Two hours of lecture and three hours of lab per day.

Pre-Requisites

Biology 121-122, or permission of instructor. Offered in alternate years.

BIO-468. MEDICAL BOTANY

Credits: 3

A specialized course that provides a scientifically based overview of the ways that plants affect human health. Topics include cultural and historical perspectives of plants and medicine, plants that cause human ailments, plants that treat human ailments, and psychoactive plants. Lecture, two hours per day for five weeks in alternate summers.

Pre-Requisites

Biology 121-122, 225, [[CHM-232]], or permission of instructor.

BIO-469. PLANT PHYSIOLOGY

BIO-498. TOPICS

Credits: variable

A study of topics of special interest not extensively treated in regularly offered courses.

Pre-Requisites

Biology 121-122, 225-226, or permission of instructor.

CHM. CHEMISTRY

CHM-422. ADVANCED INORGANIC CHEMISTRY

Credits: 3

A survey of current topics in Inorganic Chemistry. The first half of the course offers a survey of main group chemistry, including individual group trends. The second half of the course covers Crystal Field Theory, Ligand Field Theory, reaction mechanisms, and organometallic compounds.

Pre-Requisites

[[CHM-116]]

CHM-461. BIOCHEMISTRY I

Credits: 3

This course is a study of the physical and chemical properties of proteins, nucleic acids, fatty acids and carbohydrates emphasizing the relationship between the chemical structure and the biological function. The course includes the physical methods of biochemistry, enzyme kinetics, bioenergetics and nucleic acid transcription and translation.

Pre-Requisites

[[CHM-232]]

CHM-462. BIOCHEMISTRY II**Credits:** 3

This course is a study of the catabolism and anabolism of carbohydrates, fatty acids and amino acids. The course emphasizes the regulation and integration of major metabolic pathways, including glycolysis, the Krebs's cycle, electron transport, gluconeogenesis, pentose phosphate, fatty acid metabolism and amino acid metabolism.

Pre-Requisites

[[CHM-232]]

CHM-498. TOPICS**Credits:** 3

A study of topics of special interest not extensively treated in regularly offered courses.

Pre-Requisites

Permission of the instructor

CS. COMPUTER SCIENCE**CS-419. PRINCIPLES OF PROGRAMMING LANGUAGES****Credits:** 3

A study of the principles that govern the design and implementation of programming languages. Topics include language structure, data types, and control structures. Programming projects will familiarize students with the features of programming languages through their implementation in interpreters.

Pre-Requisites

[[CS-226]] or equivalent

CS-421. SIMULATION AND DATA ANALYSIS**Credits:** 3

Methods of handling large databases including statistical analysis and computer simulations. The emphasis will be upon discrete simulation models with a discussion of relevant computer languages, SLAM, GPSS, and/or SIMSCRIPT.

Pre-Requisites

[[CS-125]] (or the equivalent programming experience) and one semester of calculus.

CS-423. THEORY OF COMPUTATION**Credits:** 3

This course formalizes many topics encountered in previous computing courses. Topics include: languages, grammars, finite automata, regular expressions and grammars, context-free languages, push-down automata, Turing machines and computability.

Pre-Requisites

[[MTH-232]] (Discrete Mathematics II) and [[CS-126]] (or the equivalent programming experience).

CS-424. SYSTEMS ANALYSIS**Credits:** 3

A study of the design and implementation of large computer projects. Special emphasis is placed on applications to business systems. Students will use a CASE tool for automated systems analysis and design.

Pre-Requisites

[[CS-226]] or equivalent

CS-425. DATABASE MANAGEMENT**Credits:** 3

Practical experience in solving a large-scale computer problem including determination of data requirements, appropriate data organization, data manipulation procedures, implementation, testing and documentation.

Pre-Requisites

[[CS-126]] or permission of the instructor.

CS-426. OPERATING SYSTEM PRINCIPLES**Credits:** 3

Analysis of the computer operating systems including Batch, Timesharing, and Realtime systems. Topics include sequential and concurrent processes, processor and storage management, resource protection, processor multiplexing, and handling of interrupts from peripheral devices.

Pre-Requisites

[[CS-226]] or equivalent

CS-427. COMPILER DESIGN**Credits:** 3

A study of compiler design including language definition, syntactic analysis, lexical analysis, storage allocation, error detection and recovery, code generation and optimization problems.

Pre-Requisites

[[CS-226]] or equivalent

CS-428. ALGORITHMS**Credits:** 3

Theoretical analysis of various algorithms. Topics are chosen from sorting, searching, selection, matrix multiplication and multiplication of real numbers, and various combinational algorithms.

Pre-Requisites

[[CS-226]] or equivalent and [[MTH-232]] (Discrete Mathematics II).

CS-430. COMPUTER ARCHITECTURE**Credits:** 3

A study of the design, organization, and structure of computers, ranging from the microprocessors to the latest 'supercomputers.'

Pre-Requisites

[[CS-226]] or equivalent

Course Descriptions

CS-434. SOFTWARE ENGINEERING

Credits: 3

A course in 'programming in the large.' Topics include software design, implementation, validation, maintenance and documentation. There will be one or more team projects. Prerequisite [[CS-226]] or equivalent

CS-435. ADVANCED DATABASE CONCEPTS

Credits: 3

Practical experience involving unstructured data collections. Topics cover big data, data mining, predictive modeling, decision analysis, and indexing and retrieval including probabilistic, clustering, thesauri, and passage based retrieval strategies.

Pre-Requisites

[[CS-325]] (Database Management) or CS340 Artificial Intelligence

CS-440. ARTIFICIAL INTELLIGENCE

Credits: 3

This course will provide an overview of artificial intelligence (AI) application areas and hands-on experience with some common AI computational tools. Topics include search, natural language processing, theorem proving, planning, machine learning, robotics, vision, knowledge-based systems (expert systems), and neural networks.

Pre-Requisites

[[CS-126]] (Unix) and equivalent programming experience in a high-level language.

CS-450. OBJECT-ORIENTED PROGRAMMING

Credits: 3

Object-oriented concepts and their application to human-computer interaction. Concepts to be covered include objects, classes, inheritance, polymorphism, design patterns, GUI interface guidelines and design of interfaces. There will be programming projects in object-oriented languages.

Pre-Requisites

[[CS-226]] or equivalent

CS-455. COMPUTER NETWORKS

Credits: 3

This course introduces basic concepts, architecture, and widely used protocols of computer networks. Topics include the Open System Interconnection (OSI) model consisting of physical link layer, data layer, network layer, transport layer, session layer, presentation layer, and application layer, medium access sublayer and LAN; various routing protocols; Transmission Control Protocol (TCP) and Internet Protocol (IP) for internetworking.

Pre-Requisites

Either [[CS-225]] and [[CS-246]]

CS-463. OPERATIONS RESEARCH

Credits: 3

A survey of operations research topics such as decision analysis, inventory models, queueing models, dynamic programming, network models, and linear programming. (Cross-listed with [[MTH-463]])

Pre-Requisites

Programming experience in a high-level language and completion of one semester of calculus.

CS-464. NUMERICAL ANALYSIS

Credits: 3

An introduction to numerical algorithms as tools to providing solutions to common problems formulated in mathematics, science, and engineering. Focus is given to developing the basic understanding of the construction of numerical algorithms, their applicability, and their limitations. (Cross-listed with [[MTH-464]])

Pre-Requisites

Programming experience in a high-level language and completion of a one-year calculus sequence.

CS-467. COMPUTER GRAPHICS

Credits: 3

Introduction to equipment and techniques used to generate graphical representations by computer. Discussion of the mathematical techniques necessary to draw objects in two and three-dimensional space. Emphasis on application programming and the use of a high-resolution color raster display.

Pre-Requisites

[[CS-226]] or equivalent

CS-483. WEB DEVELOPMENT

Credits: 3

An introduction to the development of dynamic, database-driven sites, including active server pages, PHP, authentication, session tracking and security, and the development of shopping cart and portal systems.

Pre-Requisites

[[CS-283]] (Web Development I) and [[CS-325]] (Database Management).

CS-498. TOPICS IN COMPUTER SCIENCE

Credits: variable

Variable creditStudy of one or more special topics in computer science. May be repeated for credit provided a different topic is selected.

CW. CREATIVE WRITING

CW-501. R. FOUNDATIONS OF CREATIVE WRITING

Credits: 3- Residency Course

Orientation to the program; lessons in five genres; craft lessons; alumni panels; faculty panels; workshops; readings.

CW-502. WRITING FICTION**Credits:** 3

This is an intermediate course in writing fiction. Students will study, explore, and practice the process, form, and discipline of writing fiction. Students will write and analyze a variety of short fiction samples that demonstrates their understanding of basic fiction elements, point of view, and narrative style.

CW-503. WRITING POETRY**Credits:** 3

This is an intermediate course in writing poetry. Students will study, explore, and practice the process, form, and discipline of writing poetry. Students will write and analyze a variety of poems that demonstrate their understanding of basic poetic elements, diverse forms, and poetic style.

CW-504. WRITING SCREENPLAYS**Credits:** 3

This is an intermediate course in writing screenplays. Students will study, explore, and practice the process, form, and discipline of writing screenplays. Students will write and analyze a variety of scenes that demonstrate your understanding of basic film design, diverse forms, and cinematic styles.

CW-505. WRITING PLAYS**Credits:** 3

An intermediate level course in writing plays. Students will explore, study and practice the process, forms, and discipline of writing all forms of stage plays. Students will write and analyze a variety of scenes and short plays that demonstrate their understanding of the basic stage elements, theatrical conversations, and dramatic forms.

CW-506. WRITING CREATIVE NON-FICTION**Credits:** 3

This is an intermediate level course in writing creative nonfiction. Students will explore, study and practice the process, forms, and discipline of writing all forms of creative nonfiction. Students will write and analyze a variety of short creative nonfiction samples that demonstrate their understanding of basic narrative elements, point of view, factual research, and narrative prose styles.

CW-510. R. PLANNING THE WRITING LIFE**Credits:** 3- Residency Course

Students create project outlines and writing proposals for drafting new work in the major field of study area. Courses in research methods; lessons in *craft*, *community*, and *career*; intro to oral interpretation for writers; lectures and required readings; meetings with faculty mentors.

CW-512. GENRE AND CONTEXT**Credits:** 3**CW 512F. Genre and Context in Fiction**

Students will read, analyze, critique, and discuss in-depth their agreed upon fiction reading list with a mentor writer. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the writer mentor).

CW 512P. Genre and Context in Poetry

Students will read, analyze, critique, and discuss in-depth their agreed upon poetry reading list with a mentor writer. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the writer mentor).

CW 512S. Genre and Context in Screenwriting

Students will read and view, analyze, critique, and discuss in-depth their agreed upon film reading list with a mentor writer. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the writer mentor).

CW 512L. Genre and Context in Playwriting

Students will read and view, analyze, critique, and discuss in-depth their agreed upon playwriting reading list with a mentor writer. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the writer mentor).

CW 512N. Genre and Context in Nonfiction.

Students will read, analyze, critique, and discuss in-depth their agreed upon nonfiction reading list with a mentor writer. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the writer mentor).

CW 512U. Genre and Context in Publishing.

Students will research, analyze, critique, and discuss in-depth their agreed upon publishing house list with a mentor editor/publisher. Individually the student will write responses to each assigned company and complete an annotated bibliography (of the list approved by the writer mentor).

CW 512D. Genre and Context in Making Documentary Films

Students will read and view, analyze, critique, and discuss in-depth their agreed upon documentary film reading/viewing list with a mentor filmmaker. Individually the student will write responses to each assigned text and complete an annotated bibliography (of the reading list approved by the mentor).

Course Descriptions

CW-514. DRAFTING PROJECT

Credits: 3

CW 514F. Drafting Project in Fiction

Students will complete a draft of a new work in fiction that may include a novel, story collection, linked story collection, or novella. All proposed projects must be approved by the writer mentor and program director.

CW 514P. Drafting Project in Poetry

Students will complete a draft of a new work in poetry that may include a chapbook, collection, or novel in verse. All proposed projects must be approved by the writer mentor and program director.

CW 514S. Drafting Project in Screenwriting

Students will complete a draft of a new work in screenwriting that may include many of various feature-length film genres. All proposed projects must be approved by the writer mentor and program director.

CW 514L. Drafting Project in Playwriting

Students will complete a draft of a new work in playwriting that may include a full-length play, an extended one-act, or a collection of one-act plays. All proposed projects must be approved by the writer mentor and program director.

CW 514N. Drafting Project in Nonfiction

Students will complete a draft of a new work in nonfiction that may include a collection of essays, memoir, biography, or another related nonfiction form. All proposed projects must be approved by the writer mentor and program director.

CW 514U. Drafting Project in Publishing

Students will complete a draft of an overall business plan, mission, goals statements, and creative strategy to build their own publishing company, journal, or other approved publishing project. All proposed projects must be approved by the mentor and program director.

CW 514D. Drafting Project in Making Documentary Films

Students will complete the research, writing, and preliminary filming for a documentary film project. All proposed projects must be approved by the mentor and program director.

CW-516. R. PROJECT/THESIS PLAN

Credits: 3- Residency Course

Students in CW 516 will participate in a workshop prior to the residency, to get feedback on their writing in CW 514. They will attend the Capstone readings, craft lessons, a workshop on "The Long Form" and an Oral Interpretation class, as well as preparing for, and (at the end of the week participating in) a "pitch" session with agents and editors to help them to narrow the focus of their thesis project.

CW-520. FINAL PROJECT

Credits: 6

CW 520F. Final Project/Fiction Thesis

CW 520P. Final Project/Poetry Thesis

CW 520S. Final Project/Screenwriting Thesis

CW 520L. Final Project/Playwriting Thesis

CW 520N. Final Project/Nonfiction Thesis

CW 520U. Final Project/Publishing Thesis

Students will revise, polish, and prepare their final M.A. project for review by an outside evaluator who will be an agent, producer, publisher, or editor, depending upon the course project. All proposed projects must be approved by the mentor and program director.

CW-525. R. MASTERS CAPSTONE

Credits: 3- Residency Course

The final presentation and public reading of each M.A. students' completed writing project. Each work will receive a written critique and final reading by an agent, editor, producer, or director. This residency week will include several seminars and workshops aimed at moving the individual project towards its appropriate public venue.

CW-530. CONTINUOUS REGISTRATION

Credits: 1-6

This course allows students to continually register where needed for further revision in preparation of their final project. Students must continually register until revisions are complete or they complete the required capstone.

CW-612. LITERARY ANALYSIS

Credits: 6

Reading and analyzing full-length works in one genre, and writing an extensive graduate essay (25-50 pages) that demonstrates the student's understanding of the history, tradition, various forms, and diverse styles of contemporary literature in one area of study-fiction, creative nonfiction, film, drama, or poetry--focusing on a particular theme or craft element. Reading list will be provided by the faculty and students' essays' approach must be approved by faculty mentor and the Program Director. Must follow MFA format, include an annotated bibliography. Students present a formal 15-minute presentation at the subsequent residency to complete this course.

Pre-Requisites

Acceptance into the MFA program.

CW-614. REVISION TERM

Credits: 3

Students will have the opportunity to continue to work with a faculty mentor to revise their creative thesis and prepare it for publication/production OR begin a new project, built upon the strengths of the Master of Arts thesis.

CW-616. R. WRITING IN EDUCATION/PUBLISHING**Credits:** 3- Residency Course

Students will be required to make a formal paper presentation during this residency to complete CW 612. Students will complete work generated by team-taught modules to prepare them for either a teaching or publishing internship. They will meet with peers, mentoring faculty and create and deliver mini-lesson plans for proposed courses or a study plan in publishing. Such work must be drawn upon the best practices of the pedagogy of teaching creative writing or working in publishing in a variety of settings. Students will continue to sharpen their own oral and writing skills as they build an acceptable syllabus, course materials/internship goals for an internship and sample lessons/work plan by week's end. By week's end, students will have an internship experience and internship supervisor assigned to them.

Pre-Requisites

[[CW-612]]

CW-620. WRITING IN EDUCATION/PUBLISHING INTERNSHIP**Credits:** 6

Students will be required to teach creative writing in one or several various educational venues OR complete an internship with a magazine, small press, literary agency or other writing organization. Students will document their work through student portfolios and will be supervised by a faculty mentor. In whatever experience students select, they must demonstrate student contact hours of no fewer than 40 hours per term for teaching and 20 hours per week for publishing/writing organization internships. Students will present a final analysis of their teaching or publishing experience in writing and orally at term's end.

Pre-Requisites

3.5 or better GPA and completion of CW 616R

CW-630. CONTINUOUS REGISTRATION**Credits:** 1-6

This course allows students to continually register where needed for further revision in preparation of their final project. Students must continually register until revisions are complete or they complete the required capstone.

EDAM. EDAM**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

Course Descriptions

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-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 quantitative and qualitative 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

Course Descriptions

EDAM-5038. PROJECT-BASED LEARNING IN THE 21ST CENTURY

Credits: 3

This course will explain how project-based learning addresses learning through 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 and [[EDAM-5041]] Establishing Learning Goals to Support Learning & Instructional Design

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

EDAM-5048. APPLYING THE ART AND SCIENCE OF TEACHING**Credits:** 6

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.

Pre-Requisites[EDAM 5060](#)**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.

Pre-Requisites[EDAM 5060](#)**EDAM-5063. DEVELOPING READING THROUGH WRITING****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

Pre-Requisites[EDAM 5060](#)

Course Descriptions

EDAM-5064. INSTRUCTIONAL STRATEGIES TO SUPPORT INDEPENDENT READERS

Credits: 3

In this course, teachers will develop an understanding of instructional practices for supporting their students as independent readers. Learners will practice applying knowledge in the following areas: Guided Reading, Matching Texts with Readers, Independent Reading, and Literature Study. During the culminating activity, learners will synthesize their learning by developing a comprehensive weekly schedule incorporating the key components of a reading block.

Pre-Requisites

[EDAM 5060](#)

EDAM-5065. LITERACY LEADERSHIP AND COACHING

Credits: 3

In this course learners will explore the three areas of expertise required of all 21st century reading specialists: instruction, leadership, and assessment. Learners will study and practice leadership principles related to conducting meetings, providing professional development, and literacy coaching. In addition, learners will investigate the responsibilities of the reading specialist in writing proposals, developing external partnerships, and becoming an agent of change for the school's literacy program

Pre-Requisites

[EDAM 5060](#)

EDAM-5066. ACCOMMODATIONS AND ADAPTATIONS IN LITERACY FOR DIVERSE LEARNERS

Credits: 3

In this course students will learn the dimensions of literacy and the analytic process to prepare for differentiation of instruction so that all children can access literacy instruction. The student will learn a problem-solving model guided by inquiry and resulting in learning activities that will address a child's specific literacy needs. Teachers will expand their repertoire for supporting students as literacy learners. They will learn to gather and interpret relevant information to differentiate instruction for diverse learners. These techniques will help teachers to provide instruction to a wide range of talents and abilities in the classrooms of today.

Pre-Requisites

[EDAM 5060](#)

EDAM-5067. READING SPECIALIST INTERNSHIP

Credits: 6

This culminating experience prepares 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.

Pre-Requisites

Successful completion of all other coursework in the Reading Specialist program.

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.

EDIM. EDIM**EDIM-500. FOUNDATIONS FOR FUTURE-READY STUDENTS****Credits: 3**

This course will introduce students to national technology standards for students and guide them through experiences that will allow them to create pedagogical connections between the standards and their own educational experiences. Topics will include digital literacy, creating learners, networked learning, using multimedia to communicate effectively, and fostering innovation in students.

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-508. INSTRUCTIONAL STRATEGIES FOR USING DIGITAL CONTENT**Credits: 3**

This course is designed to help educators effectively integrate digital resources within their core academic content. Through weekly activities and discussions, educators will learn practical ways to use digital content along with research-based instructional strategies to support students' learning outcomes.

As a culminating project, participants author and reflect upon an original instructional strategy that they present to their colleagues.

Course Descriptions

EDIM-509. PRACTICAL RESEARCH THROUGH TEACHER INQUIRY

Credits: 3

In this course, students will identify a topic for which they will design, implement, and analyze a teacher inquiry research project. The culminating project will include a literature review, inquiry brief, written analysis and reflection.

EDIM-510. TARGETING HIGHER ORDER THINKING SKILLS WITH ONLINE TOOLS

Credits: 3

This course will provide students with a broader understanding of the pedagogical models that support higher order thinking skills. Topics focus on the study of technologically-based pedagogies, investigation into emerging technologies, and the creation of assessments at each level of Bloom's Revised Taxonomy, with a concentration on the Analyzing, Evaluating, and Creating levels. Students will also create an online portfolio intended to be used by other educators to learn about this topic.

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-515. MOBILE DEVICES FOR TEACHING AND LEARNING

Credits: 3

This course will provide students with a greater understanding of how to foster creativity in the classroom and the use of smartphone and tablet apps for creating student assessments that showcase that creativity. In addition, the components of inventiveness – fluency, flexibility, elaboration, and originality – will be introduced, studied, and discussed.

EDIM-516. RESPONSIVE DIGITAL LEADERSHIP

Credits: 3

This course will provide students with a greater understanding of leadership in a digital age by focusing on new trends and issues in education related to technology. Specifically, it will explore the need to build networks as part of sustaining digital literacy. In addition, students will develop skills and dispositions in engaging in conversations around change and innovation.

EDIM-517. PRACTICES AND IMPLEMENTATION OF STEM EDUCATION

Credits: 3

This course examines the need for STEM education, framing the development of a personal, applicable definition in practice. Special emphasis on instructional practices, student outcomes (communication, creativity, collaboration and critical thinking) and connections to content standards will be made. Students will create and evaluate STEM activities, lessons and assessments as they develop an understanding of STEM implementation.

EDIM-518. CREATING A STEM CULTURE THROUGH APPLICATION

Credits: 3

This course establishes the importance of developing a STEM culture through the design, application and evaluation of relevant, student-centered units embedded with community and career connections. A transdisciplinary approach to integrating STEM practices will be explored.

EDML. EDML

EDML-5000. FOUNDATIONS OF THE EDUCATION PROFESSION

Credits: 3

Students are oriented to the education profession through foundational knowledge and field work required of teachers entering the profession. Graduate students seeking initial certification are required to complete this course in their first year of the program upon acceptance. A field experience is required as part of this course. Department permission required.

EDML-5001. TEACHING ADOLESCENT LEARNERS AT THE MIDDLE LEVEL

Credits: 3

This course builds a deeper understanding of diverse adolescent learners at the middle level. Cognitive, emotional, and social needs of adolescents in middle school that inform innovative curriculum development, research-based instructional strategies, and effective assessment practices will be examined.

EDML-5002. MATHEMATICS IN MIDDLE LEVEL INSTRUCTION

Credits: 3

This course consists of an overview of basic concepts pertaining to the study of middle level mathematics (grades 4-8) with developmentally appropriate pedagogy for middle level mathematics instruction. This course is not required for students selecting a middle level mathematics concentration.

EDML-5003. SCIENCE IN MIDDLE LEVEL INSTRUCTION

Credits: 3

This course consists of the basic concepts pertaining to the study of middle level (grades 4-8) science. Topics include the main concepts within science inquiry, physical science, chemistry, earth and space science, and life science with developmentally appropriate pedagogy for middle level science instruction. This course is not required for students selecting a middle level science concentration.

EDML-5004. ENGLISH AND LANGUAGE ARTS IN MIDDLE LEVEL EDUCATION**Credits: 3**

This course provides an overview of language arts and reading strategies for use at the middle level (4-8) with emphasis on the following: reading fiction and nonfiction texts, critical literacy, understanding different types of writing, and common approaches to composition. This course is not required for students selecting a middle level English concentration.

EDML-5005. SOCIAL STUDIES IN MIDDLE LEVEL EDUCATION**Credits: 3**

This course presents the basic concepts pertaining to instruction of middle level (grades 4-8) social studies. Topics include the main concepts from within the social studies disciplines: U.S. history, world history, geography, government and civics, and economics. This course is not required for students selecting the middle level social studies concentration.

EDML-5007. DEVELOPMENT OF THE ADOLESCENT LEARNER AT THE MIDDLE LEVEL**Credits: 3**

This course builds a deeper understanding of early adolescent learners with an emphasis on cognitive, emotional, physical, psychosocial, and abnormal development and how this can impact teaching and learning.

EDML-5008. STUDENT TEACHING INTERNSHIP IN MIDDLE LEVEL EDUCATION**Credits: 6**

This is the culminating course for middle level certification (4-8). Students seeking initial Pennsylvania teaching certification will apply their knowledge of middle-level content and research-based practices in the field by working with young adolescents. For initial certification, 12 weeks of student teaching are required.

Pre-Requisites

Successful completion of all required EDML program coursework.

EDML-5009. INTERNSHIP IN MIDDLE LEVEL EDUCATION**Credits: 3**

This is the culminating course for middle level certification (4-8). Students will apply their knowledge of content and research-based practices in the field by working with young adolescents. A 90-hour teaching internship is required for PA certified teachers having no documented evidence of successful teaching at the middle level.

Pre-Requisites

Successful completion of all required EDML program coursework.

EDML-5010. NUMBER THEORY FOR MIDDLE LEVEL EDUCATION**Credits: 3**

This course examines topics that encompass the three main categories in the Number and Operations strand of Principles and Standards of School Mathematics (NCTM): understanding numbers and number systems, operations with numbers and how they relate to one another, computation and estimation. Also included are content-related pedagogy and best-practice instructional strategies.

EDML-5011. CONCEPTS OF MEASUREMENT FOR MIDDLE LEVEL EDUCATION**Credits: 3**

This course explores concepts and procedures for measuring and learning about standard units in the metric and customary systems, the relationships among units, and the approximate nature of measurement. Topics are how measurement can illuminate mathematical concepts such as irrational numbers, properties of circles, and area and volume formulas. Also included are content-related pedagogy and best-practice instructional strategies.

EDML-5012. DATA ANALYSIS, PROBABILITY AND STATISTICS IN MIDDLE LEVEL EDUCATION**Credits: 3**

This course introduces statistics as a problem-solving process. Skills are built through investigations of ways to organize and represent data and describe and analyze variation in data. The association between two variables, probability, random sampling, and estimation are covered. Also included are content-related pedagogy and best-practice instructional strategies.

EDML-5013. ALGEBRAIC CONCEPTS IN MIDDLE LEVEL EDUCATION**Credits: 3**

This course explores the 'big ideas' in algebraic thinking. Topics include algebraic thinking, patterns in context, functions and algorithms, proportional reasoning, linear functions and slope, solving equations, nonlinear functions, and algebraic structure. Also included are content-related pedagogy and best-practice instructional strategies.

EDML-5014. GEOMETRY ESSENTIALS IN MIDDLE LEVEL EDUCATION**Credits: 3**

This course introduces the essentials of geometry as a method for problem solving. Content includes exploring the properties of geometric figures, making constructions using pencil and paper and dynamic software, using mathematical language to express ideas to justify reasoning while exploring the basis of formal mathematical proofs and solid geometry. Also included are content-related pedagogy and best-practice instructional strategies.

Course Descriptions

EDML-5015. MATHEMATICAL PROBLEM SOLVING IN MIDDLE LEVEL EDUCATION

Credits: 3

This course provides a context for teachers to explore issues about learning and teaching mathematics. Interactions of middle level students engaged in authentic mathematical activities are examined with implications for learning, teaching and assessment. This course is an elective in the middle level mathematics program.

EDML-5020. SCIENTIFIC INQUIRY FOR MIDDLE MIDDLE LEVEL SCIENCE

Credits: 3

This course focuses on addressing the demands required of students to comprehend discipline-specific scientific text. Strategies learned in this course support students in learning how to read a wide range of scientific genres. Students will focus on the implementation of inquiry learning and the positive aspects of this approach as related to various scientific disciplines.

EDML-5021. PHYSICS AND SCIENTIFIC TECHNIQUES FOR MIDDLE LEVEL EDUCATION

Credits: 3

This course presents the basic concepts pertaining to physical and chemical properties of matter. Topics include nuclear and atomic structure, thermodynamics, heat, energy, matter, laboratory safety procedures, data manipulation, measurement and mathematics, and the methodology and philosophy of science, as well as effective pedagogy to teach these concepts. This course is an elective in the middle level science program.

EDML-5022. BIOLOGY AND LIFE SCIENCES FOR MIDDLE LEVEL EDUCATION

Credits: 3

This course presents the basic concepts pertaining to the study of the biological sciences. Topics include the nature of science, anatomy and physiology of structures associated with life functions of organisms, the cell, evolution, genetics, ecology, as well as effective inquiry-based pedagogy to teach these concepts.

EDML-5023. PHYSICAL SCIENCES FOR MIDDLE LEVEL EDUCATION

Credits: 3

This course presents the basic concepts of physics including: basic relationships between matter and energy, mechanics, electricity, magnetism, and waves. Topics include the conservation of energy, heat and thermal dynamics, atomic and nuclear structure, electricity, and the effective pedagogy to teach these concepts.

EDML-5024. EARTH AND SPACE SCIENCES FOR MIDDLE LEVEL EDUCATION

Credits: 3

This course examines the essential concepts pertaining to the study of the Earth as a constantly changing and dynamic system. Major topics include astronomy, meteorology, oceanography, historical geology and physical geology, as well as effective inquiry-based pedagogy to teach these concepts.

EDML-5025. BASIC CHEMISTRY FOR MIDDLE LEVEL EDUCATION

Credits: 3

This course presents the basic principles of chemistry with an overview of theories and research addressing the chemical and physical properties of matter. Topics covered include atomic and molecular structure, chemical and physical properties, chemical bonding, and the phases of matter, as well as effective pedagogy to teach these concepts at the middle level.

EDML-5030. ADOLESCENT LITERATURE

Credits: 3

This intensive reading course presents major works and authors of adolescent literature explored within historical and cultural contexts. Critical approaches will be used to apply knowledge of various authors, and literary and historical periods.

EDML-5031. LITERARY FORMS & MEDIA LITERACY IN MIDDLE LEVEL EDUCATION

Credits: 3

This course will focus on literary devices, literary forms, and text structures for middle level learners. Media literacy will include common research techniques, appropriate documentation of sources to avoid plagiarism, and locating and evaluating sources including multi-media sources.

EDML-5032. READING STRATEGIES IN MIDDLE LEVEL EDUCATION

Credits: 3

The focus of this course is literacy development as it relates to middle level students, with emphasis on comprehension, fluency, vocabulary, and writing. The course also provides research and practical applications of literacy instructional strategies in the middle level classroom.

EDML-5033. TEACHING AND EVALUATING WRITING I IN MIDDLE SCHOOL

Credits: 3

The focus of this course is writing instruction and evaluation as it relates to middle level students. This course presents the teacher as writer and students will write for a variety of purposes. Elements of grammar are examined. Research on writing instruction, best practices, and assessment of writing will be addressed.

EDML-5034. TEACHING & EVALUATING WRITING II IN MIDDLE LEVEL EDUCATION

Credits: 3

This is the second part of the Teaching and Evaluating Writing series. The focus of this course is writing instruction and evaluation as it relates to middle level students. This course provides an in-depth examination of the traits of writing. Students will develop lessons, assessments, and instructional materials to effectively teach writing to adolescents.

EDML-5040. US HISTORY IN MIDDLE LEVEL EDUCATION

Credits: 3

This course provides knowledge and skills for teaching U.S. History at the middle school level. Chronological accounts of major developments in U.S. History, from colonization through the 20th century, will be explored to understand how major themes have shaped the growth of the United States, its people, and its culture.

EDML-5041. TEACHING GEOGRAPHY IN MIDDLE LEVEL EDUCATION

Credits: 3

Geographic literacy, map skills, physical geography, and human geography are explored within the context of middle school geography standards. Skills needed to teach fundamental knowledge related to U.S. and World geography and its relationship to patterns of cultural, governmental, and economic activities will be studied.

EDML-5042. GOVERNMENT AND CIVICS IN MIDDLE LEVEL EDUCATION

Credits: 3

This course provides the foundational knowledge required to teach government and civics at the middle school level. Key concepts include the study of the Constitution, federalism, political parties, and citizenship. International structures and systems will also be explored.

EDML-5043. WORLD HISTORY IN MIDDLE LEVEL EDUCATION

Credits: 3

This course focuses on major developments and themes related to World History. Skills needed to teach early humans and societies to the modern world at the middle school level will be studied, as well as relevant histories, cultures, and societal elements.

EDML-5044. FUNDAMENTALS OF ECONOMICS IN MIDDLE LEVEL EDUCATION

Credits: 3

This course differentiates between microeconomics and macroeconomics and teaches how that knowledge can be applied in the middle level social studies curriculum. Market structures, GDP, unemployment, and inflation are included as well as how government intervention and policy affect the US and global economies.

ENGLISH. ENGLISH

ENGLISH-431. STUDIES IN MEDIEVAL ENGLISH LITERATURE

Credits: 3

A study of English literature to 1500, exclusive of Chaucer.

ENGLISH-432. STUDIES IN SIXTEENTH-CENTURY LITERATURE

Credits: 3

The study of texts produced by the English Renaissance, focused on the evolution of literary, dramatic and cultural works from about 1485 to 1603.

ENGLISH-433. STUDIES IN SEVENTEENTH-CENTURY LITERATURE

Credits: 3

The study of seventeenth-century texts, focused on literary, dramatic, and cultural works from about 1603 to 1660.

ENGLISH-434. STUDIES IN EIGHTEENTH-CENTURY LITERATURE

Credits: 3

Study of eighteenth-century authors and culture.

ENGLISH-435. STUDIES IN ROMANTIC LITERATURE

Credits: 3

Study of the chief poets and prose writers of the Romantic Period.

ENGLISH-436. STUDIES IN VICTORIAN LITERATURE

Credits: 3

Study of major writers, works, and topics of the Victorian era.

ENGLISH-440. STUDIES IN CHAUCER

Credits: 3

A study of selected major and minor works by Chaucer.

ENGLISH-442. STUDIES IN SHAKESPEARE

Credits: 3

A study of selected plays by Shakespeare.

ENGLISH-444. STUDIES IN MILTON

Credits: 3

A study of Milton's selected poetry and prose.

ENGLISH-450. STUDIES IN THE ENGLISH NOVEL

Credits: 3

Study of the novel in English, excluding American writers.

ENGLISH-451. STUDIES IN POSTMODERNISM

Credits: 3

A study of the major postmodern writers from the 1960s to the present.

ENGLISH-452. STUDIES IN THE AMERICAN NOVEL

Credits: 3

Study of the American novel from its eighteenth-century beginnings to the present day.

ENGLISH-453. STUDIES IN POSTCOLONIAL LITERATURE

Credits: 3

Study of colonial and postcolonial literature that examines the effects of British imperial pursuits and provides an overview of major issues within postcolonial studies.

ENGLISH-455. STUDIES IN THE MODERN NOVEL

Credits: 3

Study of twentieth-century texts focused on a particular theme or movement, as determined by instructor.

ENGLISH-458. STUDIES IN CONTEMPORARY FICTION

Credits: 3

A study in fiction, including the novel, short story, and novella, written since World War II. Works from English, American and world literature may be included to reflect the diversity of contemporary literature and the emergence of post-modern themes and forms.

Course Descriptions

ENGLISH-461. STUDIES IN EARLY ENGLISH DRAMA

Credits: 3

Study of the drama from the tenth century to 1642; reading of plays by medieval and early modern dramatists exclusive of Shakespeare.

ENGLISH-463. RESTORATION AND 18TH CENTURY DRAMA

Credits: 3

Study of the drama from 1660-1780.

ENGLISH-465. STUDIES IN MODERN DRAMA

Credits: 3

Studies in major theatrical genres, themes, and playwrights of modern world drama through the mid-twentieth century.

ENGLISH-466. STUDIES IN AMERICAN OR BRITISH DRAMA

Credits: 3

A study of major American and/or British playwrights and movements, focus to be determined by instructor.

ENGLISH-468. STUDIES IN CONTEMPORARY DRAMA

Credits: 3

A study of major playwrights and theatrical movements in contemporary world drama from the mid-twentieth century to today.

ENGLISH-470. STUDIES IN MODERN BRITISH POETRY

Credits: 3

Study of major British poetry of the twentieth century.

ENGLISH-476. STUDIES IN MODERN AMERICAN POETRY

Credits: 3

Study of major movements and representative figures in modern American poetry.

ENGLISH-494. LITERARY CRITICISM

Credits: 3

A study of literary theory and techniques of analysis.

ENGLISH-497. SEMINAR

Credits: 3

Presentations and discussions of selected topics.

Pre-Requisites

Approval of department chairperson.

ENGLISH-498. TOPICS

Credits: 3

The study of a special topic in language, literature, or criticism.

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 student 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-506. TEACHING THE FOUR SKILLS: READING, WRITING, LISTENING, SPEAKING**Credits: 3**

This course will introduce the most important concepts of teaching English to second language learners and contain assignments to be completed in the field. Participants will examine the teaching of reading, writing, listening, speaking, grammar, and vocabulary. Additionally, participants will learn how to assess student needs, develop syllabi, design supplemental materials and emerge from the class with an ample number of high quality lesson plans. Students will apply theory by designing practical English as a Second Language lessons.

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.

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.

Course Descriptions

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. PRINCIPLES OF LAW & SPECIAL EDUCATION LAW

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-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-535. ACCOM & ADAPTATION IN LITERACY

Students will learn the dimensions of literacy and the analytic process to prepare for differentiation of instruction so that all children can access literacy instruction. The students will learn a problem-solving model guided by inquiry and resulting in learning activities that will address a child's specific literacy needs. Teachers will expand their repertoire for supporting students as literacy learners. They will learn to gather and interpret relevant information to differentiate instruction for diverse learners. These techniques will help teachers to provide instruction to a wide range of talents and abilities in the classrooms of today.

ED-539. ADVANCED STUDIES IN TEACHING AND LEARNING**Credits: 3****Terms Offered:** Fall

This capstone course offers a culminating experience to measure the attainment and integration of overall program outcomes. This course provides an in-depth opportunity for the student to demonstrate mastery of learning by analyzing and applying new knowledge through the display creative products and a summative portfolio. Integrated projects will be assessed not only in relation to content, but also within the universal rationale of the educational experience and mission of the graduate school of education.

Pre-Requisites

Completion of required International Teaching and Learning program coursework. Department permission required.

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.

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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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Course Descriptions

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.

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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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Course Descriptions

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-575. SCHOOL LAW FOR PRINCIPALS**Credits: 3**

This course focuses on current school law at the state and federal levels and its influence on the role and responsibilities of the principal in a K – 12 school system. Law, legislation, and court decisions that affect the principals' dealings with students and employees will be studied and analyzed in light of the historical context and current issues. Emphasis will be given to laws governing the management of special education services and programs and the mandates related to student achievement of state standards. Pre-requisite: [[ED-517]] Principal as Educational Leader. Required for K-12 principal certification.

ED-576. SCHOOL MANAGEMENT AND COMMUNICATIONS**Credits: 3**

This course focuses on the study of administrative functions in educational institutions. Topics include: school budget planning, facilities management, resource allocation, establishing and maintaining positive school and community relations, and effective communication strategies for principals. 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 Leader Required 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.

Course Descriptions

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-615. PROSEMINAR IN EDUCATIONAL LEADERSHIP

Credits: 3

This course will explore selected topics and relevant theory spanning a range of educational issues using a non-routine, active learning approach. It will require intensive interaction between students and several faculty members, allowing for personal introductions, a collaborative approach to teaching and learning, and exposure to the variety of department specializations. Through a series of writing intensive assignments, students will explore independently selected topics related to future program study. *Required first residency course.

ED-616. CONTEMPORARY ISSUES AND TRENDS ON GLOBAL EDUCATION

Credits: 3

This course will focus on understanding contemporary global issues and trends with emphasis on public relations in educational institutions, technology changes in the global society, worldwide political influences, and educational access. Required for International Instructional Leadership.

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. Through the course 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 focuses 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.

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 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. *Required second residency course.

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. PEDAGOGICAL INNOVATION, TECHNOLOGY, & DIGITAL MEDIA**Credits: 3**

The use of this multimedia offers educational leaders the potential to both transform and personalize instruction and learning. In this course, students will explore the potential for innovative pedagogical methods using technology and digital media such as virtual and augmented reality, social media, audio, video, and other social pedagogical agents.

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.

ED-638. CYBERSECURITY FOR EDUCATIONAL LEADERS**Credits: 3**

This course will engage, inform, and empower educational leaders to effectively prepare for evolving cybersecurity threats facing schools and society at large. Multiple facets of cybersecurity will be examined and evaluated relative to the role and responsibilities of contemporary educational leaders. No prior experience or expertise in cybersecurity is required or expected.

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.

Course Descriptions

ED-640. INSTRUCTIONAL DESIGN AND INNOVATIVE LEADERSHIP

Credits: 3

In this course students will analyze various theories of instructional design through research and application.

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.

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. Required for Educational Technology specialization.

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.

ED-650. 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]]

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 credits This 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.

Course Descriptions

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 related to test development and delivery of various types of assessments will be explored in addition to the overall relationship between assessment and the instructional process.

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-674. SAFETY & SOCIAL EMOTIONAL LEARNING FOR EDUCATIONAL LEADERS

Credits: 3

This course explores an overview of safe schools through knowledge of human development, with an emphasis in social-emotional development, trauma-informed practices, and mental health. Theory, practice, and policy will be explored to help prepare and support educational leaders through mental health, neuroscience, and restorative justice lenses through transformative growth.

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.

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

This seminar is for doctoral students to gain information on the dissertation process and proposal format and to develop and refine ideas for potential research. This course is to be taken as 3rd residency in the doctoral program.

*Required third residency course.

Pre-Requisites

Acceptance into the Ed.D. Program and successful completion of doctoral core, DQE, and level 1 research. **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-697]] Dissertation Proposal Seminar. Department permission required.

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.

[[ED-541]] through ED 561, ED 5020, ED 5024, and ED 5401-5407 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-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.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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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Course Descriptions

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.

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 5401-5407 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.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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-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.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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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Course Descriptions

ED-5404. STRATEGIES FOR THE INCLUSIVE CLASSROOM

Credits: 3

This course provides practical, research-based strategies that enhance student achievement, learning and proficiency for the general population while meeting the unique and specific challenges of the exceptional learner.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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-5405. TEACHING THE ENGLISH LANGUAGE

Credits: 3

This course provides educators with the knowledge, skills, attitudes, insights, and resources to service English language learners. Guided by the Teachers of English to Speakers of Other Languages (TESOL) standards, students will explore theories and best practices promoting the construction of learning environments that support literacy development and content area achievement among English language learners.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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.

All courses listed with a "W" (for Wilkes credit) on the PLS 3rd Learning course schedule may be used toward the required 12 credits of PLS 3rd Learning courses for the Wilkes EDS degree.

This course provides practical, research-based strategies that enhance student achievement, learning and proficiency for the general population while meeting the unique and specific challenges of the exceptional learner.

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-5406. INSTRUCTIONAL COACHING**Credits:** 3

An instructional coach is chiefly responsible for bringing evidence-based practices into classrooms by working with teachers and other school leaders. This course focuses on the coach's role in classroom management, content enhancement, instruction, asking effective questions, and assessment for learning. Participants will also explore the fundamentals for sustaining a successful coaching program including how to represent the coach's role to staff, building trusting relationships, participating in ongoing training, garnering support from administrators, and providing confidential, nonevaluative job-embedded professional development for teachers. Types of coaching and how to implement effective verbal and nonverbal communication designed to improve expertise in leadership, listening, positive thinking, and support are major course themes, with additional focus on the conferencing and facilitation skills (including confidentiality agreements among coaches, teachers, and principals).

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All courses listed with a "W" (for Wilkes credit) on the PLS 3rd Learning course schedule may be used toward the required 12 credits of PLS 3rd Learning courses for the Wilkes EDS degree.

ED-5407. PROFESSIONAL LEARNING FOR TEACHER EFFECTIVENESS**Credits:** 3

This course provides educators with research-based theories and specific classroom strategies that support each of the 22 components in Danielson's Framework for Teaching Evaluation Instrument. Participants explore best practices in the domains of Planning and Preparation, The Classroom Environment, Instruction, and Professional Responsibilities. Participants develop an action plan for improving teacher practice in each domain and, as a result, enhance their expertise and performance as they ready themselves for teacher evaluations.

ED 541 through ED 561, ED 5020, ED 5024, and ED 5401-5407 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.

All courses listed with a "W" (for Wilkes credit) on the PLS 3rd Learning course schedule may be used toward the required 12 credits of PLS 3rd Learning courses for the Wilkes EDS degree.

EE. ELECTRICAL ENGINEERING**EE-403. COMPUTATIONAL TECHNIQUES IN ELECTRICAL ENGINEERING****Credits:** 3**Fees:** \$100

Application of MATLAB, LabVIEW, and PSPICE to solve problems in electrical engineering topics. Software design, implementation methodologies, software engineering, and procedural and data abstraction. Implementation methodology is based on object-oriented programming techniques using LabWINDOWS CVI (compiler). Students work on real-world design problems of increasing complexity. These will include graphical user interfaces (GUIs), event models, exception handling and multithreading. One Hour lecture and three hour lab per week Lab fee: \$100.

Pre-Requisites

Graduate standing

Course Descriptions

EE-405. ADVANCED LABORATORY EXPERIENCE FOR GRADUATE STUDENTS

Credits: 3

Laboratory and related analytical experience in different disciplines within electrical engineering, including but not limited to, electrical measurements, mechatronics, digital design, electromagnetics, and communications systems. Real-world design problems will be assigned. Three hour lab per week. Lab fee: \$100.

Pre-Requisites

Graduate standing

EE-410. LINEAR SYSTEM THEORY

Credits: 3

Linear spaces and linear operators; input-output systems and state variables; linear dynamical equations and impulse response matrices; controllability, observability and their applications to minimal realizations; state feedback controllers and observers; multivariable systems.

EE-414. MODERN CONTROL SYSTEMS

Credits: 3

Mathematical modeling of linear and non-linear systems. Block diagram, signal flow graph, and state-space representation. Time response, stability, and steady-state error analysis. Root-locus and frequency response techniques. Controller and observer design. Optimal and robust control.

Pre-Requisites

Graduate standing

EE-415. DIGITAL CONTROL SYSTEMS DESIGN

Credits: 3

Review of design and compensation of control systems. State space analysis of continuous-time and discrete-time systems; discrete-time observations, control and feedback; digital regulators design; digital tracking systems design; controlling continuous-time systems.

Pre-Requisites

[[EE-414]]

EE-416. ROBOT VISION

Credits: 3

Image formation and image sensing; binary images; geometrical and topological properties; reflectance map; photometric stereo, shape, and shading; motion field and optical flow; extended Gaussian images; picking parts out of bin.

Pre-Requisites

First course in Robotics

EE-418. CONTROLS AND KINEMATICS IN NAVIGATION

Credits: 3

Theory of kinematics with application to terrestrial navigation using inertial instrumentation. Accelerometer, gyroscope, stable platform and inertial mechanizations. Space stable, local level and strapdown navigator configurations and error analysis. Integrated navigation using complementary and Kalman filter techniques.

Pre-Requisites

[[EE-318]], [[EE-460]]

EE-421. POWER SYSTEM ANALYSIS

Credits: 3

Review of power generation schemes. Transmission line calculations and power system representation; network solution by matrix transformations; symmetrical components; symmetrical and unsymmetrical fault analysis of power systems; load flow analysis.

Pre-Requisites

[[EE-321]]

EE-425. POWER ELECTRONICS

Credits: 3

SCR characteristics; turn-on and turn-off mechanisms; SCR connections; power and switching devices, including UJT, triac and special devices; AC power control: full-wave control, half-wave control, and phase control; line-commutated converters and inverters; chopper circuits; applications.

Pre-Requisites

[[EE-252]], [[EE-321]]

EE-432. ELECTROMAGNETIC FIELDS AND WAVES

Credits: 3

Maxwell's equations; energy and momentum in the electromagnetic field; plane, cylindrical, and spherical waves; boundary conditions; cylindrical waveguides; cavity resonators; scattering by a sphere and other geometries.

Pre-Requisites

[[EE-337]]

EE-435. MICROSTRIP CIRCUIT DESIGN

Credits: 3

A review of TEM mode transmission line theory. Static TEM parameters and design; discontinuities in microstrip and coupled microstrip lines; design examples of passive microstrip elements; narrowband and wideband microwave amplifiers.

Pre-Requisites

[[EE-335]]/EE 337

EE-436. ANTENNA THEORY AND DESIGN

Credits: 3

Electromagnetic vector potentials; Green's functions; radiating systems; image theory; reciprocity; directional arrays; linear and broadboard antennas; moment method; aperture antennas; microstrip antennas, and antenna synthesis.

Pre-Requisites

[[EE-337]]

EE-441. DIGITAL SYSTEMS DESIGN**Credits:** 3

Advanced topics in digital design; combinational and sequential circuit modeling, fault modeling, digital design testing and testability, design to test principles, and basic concepts in fault tolerant design.

Pre-Requisites

[[EE-241]]

EE-442. MICROCOMPUTER OPERATION AND DESIGN**Credits:** 3**Fees:** \$100

Microprocessor architecture, microcomputer design, and peripheral interfacing. Microprogramming, software systems, and representative applications. Associated laboratory experiments consider topics such as bus structure, programming, data conversion, interfacing, data acquisition, and computer control. Two hour lecture and one two-hour laboratory a week. (same as [[CS-429]])

Pre-Requisites

[[EE-345]]

EE-444. OPERATING SYSTEM PRINCIPLES**Credits:** 3

Analysis of the computer operating systems including Batch, Timesharing, and Realtime systems. Topics include sequential and concurrent processes, processor and storage management, resource protection, processor multiplexing, and handling of interrupts from peripheral devices. (same as [[CS-426]])

Pre-Requisites

[[CS-227]]

EE-445. COMPUTER ORGANIZATION**Credits:** 3

Number representation, digital storage devices and computational units, bus structures; execution sequences and assembly language concepts; control units with horizontal and vertical microcoding; addressing principles and sequencing; microprocessors; basic input and output devices; interrupts; survey of RISC principles including pipelined execution. (same as [[CS-445]])

Pre-Requisites

[[EE-241]]

EE-446. COMPUTER ARCHITECTURE**Credits:** 3

A study of the design, organization, and architecture of computers, ranging from the microprocessors to the latest 'supercomputers.' (same as [[CS-430]])

Pre-Requisites

[[EE-242]] or [[EE-342]]

EE-451. OPTO-ELECTRONICS**Credits:** 3

Electromagnetic theory; propagation of rays; propagation of optical beams in homogeneous and guiding media; optical resonators; interaction of radiation and atomic systems; theory of laser oscillators; some specific laser systems; second-harmonic generation and parametric oscillation; electrooptic modulation of lasers; optical radiation interaction of light and sound; propagation, modulation, and oscillation in optical dielectric waveguides; laser applications; fiber optics and couplers.

Pre-Requisites

[[EE-337]]

EE-460. STOCHASTIC PROCESSES IN ENGINEERING**Credits:** 3

Review of probability. Random variables and random processes; functions of one and two random variables; expectations; moments and characteristic functions; correlation and power spectra; stationary and nonstationary processes, harmonic analysis of random processes.

EE-461. DIGITAL COMMUNICATIONS**Credits:** 3

Sampling theory; analog pulse modulation; time-division multiplexing; baseband digital transmission; bandlimited digital PAM systems; synchronization techniques; PCM, PCM with noise, DPCM and DM; digital multiplexing; error correction and detection; linear block codes; convolutional codes; bandpass digital transmission; coherent and noncoherent binary systems; quadrature carrier and Mary systems; information theory.

Pre-Requisites

[[EE-361]], [[EE-460]]

EE-465. DIGITAL SIGNAL PROCESSING**Credits:** 3

Z transforms; Fourier transforms; discrete Fourier transforms; sampling theorem; analog filter approximations; digital filter realizations and topological properties; analysis and design of recursive (IIR) filters and non-recursive (FIR) filters; fast Fourier transforms.

Pre-Requisites

[[EE-252]]

EE-471. ADVANCED SOLID STATE DEVICES**Credits:** 3

Review of semiconductor fundamentals. Physics, fabrication technologies, and operational characteristics of a variety of solid-state structures including p-n junctions, bipolar transistors, thyristors, metal semiconductor contacts, JFET and MESFET, MIS and CCD, MOSFET, microwave and photonic devices including IMPATT, BARITT, TED, LED, semiconductor lasers, photodetectors, and solar cells.

Pre-Requisites

[[EE-271]]

Course Descriptions

EE-474. INTEGRATED CIRCUIT DESIGN

Credits: 3

Model calculations, transfer characteristics and use of SPICE for MOS devices and circuits; basic logical units; integrated systems fabrication including scaling, channel properties, yield statistics, design rules and choice of technology; data and control flow including clocks, registers and PLA'S; design implementation from circuit topology to patterning geometry and wafer fabrication; CAD; overview of LSI and VLSI systems; architecture and design of system controllers; system timing (SPICE); physical aspects of computational systems; ASICs memories and other logical circuits.

Pre-Requisites

[[EE-241]], [[EE-271]]

EE-481. ADVANCED MICROELECTRONICS LAB

Credits: 3

Fees: \$100

Theoretical and practical aspects of techniques utilized in the fabrication of semiconductor devices. Techniques of wet chemistry; deposition and diffusion; advanced concepts of contamination control; defect-free processing and gathering; complete characterization including junction penetration, resistivity, and oxide thickness. Switching speed, junction characteristics, leakage and gain, ion implantation, and method of fabrication. Extensive use of process simulation programs such as SUPREM.

Pre-Requisites

[[EE-271]]

EE-482. ADVANCED COMMUNICATION AND ANTENNA LAB

Credits: 3

Fees: \$100

Characterization and measurement of microwave devices and systems; emphasis on antenna design and testing; utilization of the network analyzer and spectrum analyzer; antenna pattern measurements; communication link design; computer-aided design of active and passive microwave circuits; touchstone, optical signal generation and modulation.

Pre-Requisites

[[EE-335]]

EE-498. TOPICS IN ELECTRICAL ENGINEERING

Credits: 3

Three credits Selected topics in electrical engineering. These may include one or more of the following: control systems, information theory, signals and noise measurements, communication systems, navigational systems, network design and synthesis, solid state, quantum electronics, magnetic and non-linear circuits, digital and analog systems, computer systems, medical engineering, power systems and generation. May be repeated for credit.

EE-510. OPTIMAL FILTERING THEORY

Credits: 3

Review of stochastic processes; stochastic integrals and differential equations; Wiener filtering; discrete Kalman filter; applications and additional topics on discrete Kalman filtering; continuous Kalman filter; discrete smoothing and prediction; additional topics on Kalman filtering.

Pre-Requisites

[[EE-410]], [[EE-460]]

EE-514. OPTIMAL CONTROL THEORY

Credits: 3

The calculus of variations and the minimum principle; optimal control of discrete-time systems; optimal control of continuous-time systems; dynamic programming; models of dynamic systems; optimal estimation; stochastic neighboring optimal control.

Pre-Requisites

[[EE-410]]

EE-516. ROBOTICS AND ARTIFICIAL INTELLIGENCE

Credits: 3

Prospects for knowledge-based robots; robots and artificial intelligence; expert systems and knowledge-based languages; production-rule expert systems; search techniques; heuristic graph searching; AND/OR graphs; first order predicate logic; future prospects for knowledge-based robots.

Pre-Requisites

First course in Robotics

EE-521. COMPUTER AIDED ANALYSIS OF POWER SYSTEMS

Credits: 3

Bus impedance and bus admittance matrices; sparsity programming and triangular factorization. Load-flow studies; Gauss, Gauss-Seidel, Newton-Raphson methods. Approximate, fast and special-purpose load-flow studies. Optimal dispatch: equal incremental cost rule; gradient dispatch; optimal reactive power dispatch methods.

Pre-Requisites

[[EE-421]]

EE-535. MICROWAVE CIRCUITS

Credits: 3

Microwave networks; S-parameters and stability considerations; characterization of transmission line structures and discontinuities; models of microwave solid state devices; measurement techniques for modeling; design synthesis; optimization and analysis of microwave integrated circuits; numerical methods.

Pre-Requisites

[[EE-435]]

EE-541. MICROPROCESSOR-BASED SYSTEMS DESIGN**Credits:** 3

Brief review of directions in microprocessor development: single chip microcomputers, Reduced Instruction Set Computers (RISCs), and Multiple Data Stream processors; hardware and software aspects of the design of microprocessor-based systems; architecture and design of multiple computer and parallel processing systems; cache memory techniques and issues; bus standards and interfacing.

Pre-Requisites

[[EE-342]]

EE-560. DETECTION AND ESTIMATION THEORY**Credits:** 3

Probabilistic signal detection and parameter estimation theory. Decision criteria, performance, likelihood, Bayes and parameter estimation; random processes, detection and estimation of white and nonwhite Gaussian noise. Kalman and Wiener filters.

Pre-Requisites

[[EE-460]]

EE-561. COMPUTER COMMUNICATION NETWORKS**Credits:** 3

Data/computer communication network structures; the structure and function of network protocols; data link control procedures; multiple-access protocols; wideband data transmission media; functions and characteristics of devices used in computer communications; analysis of data/computer networks.

Pre-Requisites

[[EE-461]]

EE-562. OPTICAL COMMUNICATION**Credits:** 3

Structure and waveguiding fundamentals of optical fibers; signal degradation in optical fibers; optical sources and their characteristics; power launching and coupling; photodetectors; optical receiver operation; coherent and non-coherent detection; analysis and design of optical transmission links.

Pre-Requisites

[[EE-432]], [[EE-461]]

EE-565. DIGITAL IMAGE PROCESSING**Credits:** 3

Scenes, images and digital pictures; linear operations on pictures; discrete picture transforms; random variables and random fields; visual perception. Sampling using array of points and orthonormal functions; quantization; Karhunen-Loeve, Fourier, Hadamard, and cosine compression; predictive block truncation, error-free compression; rate-distortion function. Enhancement: gray scale modification, sharpening and smoothing; restoration: inverse least-squares and recursive filtering, constrained deconvolution.

Pre-Requisites

[[EE-460]]

EE-568. MODERN NAVIGATION SYSTEMS**Credits:** 3

Overview of electronic navigation systems: Global Positioning Systems (GPS); application and status; concept and operation; accuracy and propagation consideration; GPS receiver; signal structure, integration principles for navigation systems; Kalman filtering; differential GPS.

Pre-Requisites

[[EE-418]], [[EE-460]]

EE-571. MODERN SOLID STATE DEVICES AND DESIGN**Credits:** 3

Semiconductor fundamentals at an advanced level. Silicon and GaAs, MOS devices; processing details; performance limitations; process design for given device specifications; limitations due to fabrication techniques; quantum phenomena in a variety of modern high performance devices; microwave semiconductor devices; integrated circuit design; VLSI design; computer aids for process and circuit design.

Pre-Requisites

[[EE-471]]

EE-590. PROJECT/THESIS**Credits:** 1-6

One to six credits Students have the option to select a 6-credit or a 3-credit project to meet the degree requirement. Topics will touch on one or more of the following areas: Communications, Navigational Systems; Computers, Digital Systems; Microelectronics; Microwaves and Antennas; Power, Control Systems; and Software Engineering. Three faculty members constitute a Faculty Committee with the Project/Thesis Advisor as Chair. The project/thesis shall be presented in an open forum.

EE-598. ADVANCED TOPICS IN ELECTRICAL ENGINEERING**Credits:** 3

Three credits Advanced topics in electrical engineering. These may include one or more of the following: control systems; navigational systems; information theory; signals and noise measurements; communication systems; network design and synthesis; solid state; quantum electronics; magnetic and non-linear circuits; digital and analog systems; computer systems; medical engineering; power systems and generation. May be repeated for credit.

EGM. ENGINEERING MANAGEMENT**EGM-510. PROJECT DECISION PROCESSES****Credits:** 3

Projects are assessed with respect to uncertainty (revenues, expenses, product/process performance) and risk. Cash flows are evaluated to estimate present values and quantify risks associated with various decision alternatives. Topics include depreciation strategies, make/purchase/rent choices, break-even and benefit/cost assessments, and decision analysis with imperfect information. Required of all students. Three hours lecture per week.

Course Descriptions

EGM-515. QUALITY MANAGEMENT

Credits: 3

Applicable quality techniques are presented within the context of research, new product development, plant operations, product support, and risk reduction. Students will learn how to articulate objectives, identify desired outcomes and establish suitable metrics for performance management. Required of all students. Three hours lecture per week.

EGM-516. MANAGEMENT SCIENCE

Credits: 3

Students learn how to structure complex problems, analyze available options, obtain information from data, and how to formulate analytical models for making optimal decisions. Topics may include (but are not limited to) regression and correlation analysis, time series analysis, forecasting models, and quality and productivity management. Course activities may include case analyses, research, application of advanced techniques, or and/or utilization of various information technologies. Required of all students. Three lecture hours per week.

EGM-520. OPERATIONS ANALYSIS

Credits: 3

Students will assess production flows and space/equipment/resource utilization for purposes of reducing production bottlenecks while maintaining/increasing facility utilization. Various quantitative analysis and optimization methodologies will be covered for solving linear and nonlinear optimization problems. Simulation and graphical approaches will be utilized to assess solution performance. Required of all students. Three hours lecture per week.

EGM-521. QUANTITATIVE ANALYSIS

Credits: 3

Terms Offered: On Demand

Discussion of various quantitative analysis and optimization methodologies. Analytical numerical approaches are used in solving linear and nonlinear optimization problems. Emphasizes the development of ability in analyzing problems, solving problems by using software, and post solution analysis.

Pre-Requisites

Junior Standing

EGM-525. PROJECT ANALYSIS

Credits: 3

A study of critical issues in the management of engineering projects including proposal development, mobilization, scope change, completion and termination. Performance metrics are considered in planning and tracking project cost, schedule, and resource requirements with CPM/PERT algorithms. Case discussions and a term project are included in the course. Required of all students. Three hours lecture per week.

EGM-530. STOCHASTIC MODELS IN ENGINEERING MANAGEMENT

Credits: 3

A review of engineering analytical methods and their application in strategic decision environments. Required case studies will require techniques such as Monte Carlo simulation, risk assessment, and failure modeling as the suitability and application of several engineering analytical approaches to operational analysis of business/industry decision processes. Required of all students. Three hours lecture per week.

EGM-534. MATERIAL & INTELLECTUAL PROPERTY

Credits: 3

A study of the history, fundamental strategies and issues relating to generating and protecting intellectual and material property rights. Topics include the subjects of and the present legal processes to protect trademarks, copyrights, patents, trade secrets, software and other intellectual property rights. Three lecture hours per week.

EGM-536. PRODUCT DESIGN & DEVELOPMENT

Credits: 3

This course focuses on the integration of the design, manufacturing, the ability to coordinate multiple interdisciplinary tasks and marketing functions in the process of creating new products. The course is intended to provide students with the necessary set of tools and methods for new product design and development. Several design frameworks are discussed in order to achieve a common objective. This course will reinforcement students specific knowledge from other courses through practice and reflection in a project-oriented setting. Three lecture hours per week.

EGM-538. AUTOMATION PRODUCTION AND SYSTEMS

Credits: 3

This course focuses on the use of a quantitative approach to simulate, analyze and optimize all engineering aspects of automated production systems. Several modeling frameworks are discussed, such as automata, State-charts, cutting-edge technologies and Petri nets. Solving automation problems is of critical importance to decrease the cost of production systems and increase the throughput and flexibility. This course aims to give the student a basic knowledge of the important results of current research on discrete event systems and how these results can be applied to production systems. Three lecture hours per week.

EGM-540. SIX SIGMA AND LEAN MANUFACTURING

Credits: 3

This course focuses on developing the knowledge and skills of a typical industry based Six Sigma Green Belt candidate. The course includes the descriptive statistics and project management skills necessary to Define, Measure, Analyze, Improve and Control processes. Lecture topics include Six Sigma problem-solving techniques, continuous improvement, mistake proofing, Lean Six Sigma, Lean manufacturing, determining the cost of quality and more. Three lecture hours per week.

EGM-544. EMERGING TECHNOLOGIES**Credits:** 3

This course aims to develop students' skills in monitoring emerging new technologies, innovation forecast and technology assessment, with an introduction of data mining tools and exploration of emerging technologies. Students will study new developments in emerging technologies, how to track pertinent developments, and discover what is going on in the research world. The course focuses on developing the capability to be a technology manager and a critical well-informed consumer of such technology. Three lecture hours per week.

EGM-545. APPLIED ENGINEERING ANALYSIS**Credits:** 3

This course is intended for all engineering students and it provides a strong background in mathematical modeling of various systems relevant to mechanical, electrical and management problems. Typical topics covered include (but are not limited to) linear algebra, matrix and vector mechanics, eigenvalue problems, ordinary differential equations, Fourier analysis, partial differential equations and optimization. Three lecture hours per week.

EGM-580. GRADUATE PROJECT CONTINUUM**Credits:** 1-3

One - Three Credits EGM students may elect a three-credit-hour industry-based project option. The student, working with industry, will select a project topic derived from an existing need/interest in industry under the guidance of a faculty project advisor selected by mutual agreement of the student and faculty member. When the project is completed and approved by the Project Advisor, bound copies of the approved report will be filed in the department office and in Farley Library for record. A grade will be awarded each semester the student is enrolled in [[EGM-580]]. At project completion, a completion grade will be awarded by converting one credit-hour of [[EGM-580]] to one credit-hour of [[EGM-581]] (Graduate Project Completion). [[EGM-580]] credit does not apply toward meeting degree requirements until a grade for [[EGM-581]] is recorded. Only two hours of credit for [[EGM-580]] may apply toward degree requirements (although the student may enroll in a total of more than two credit hours of continuum if project completion extends to additional semesters).

EGM-581. GRADUATE PROJECT COMPLETION**Credits:** 1

One Credit Recorded with grade by converting one credit-hour of [[EGM-580]]. Occurs upon completion of the graduate project, receipt of Project Advisor approval, and submittal of approved copies to the department office and Farley Library for binding and record.

EGM-590. THESIS CONTINUUM**Credits:** 1-6

One -Six Credits Students may elect the six-credit-hour thesis option under the guidance of a Thesis Advisor who chairs the Thesis Committee. The Committee is comprised of three members; at least two members (including the Advisor) must be Wilkes faculty members. When the thesis is complete and has been defended with Committee approval in an open forum, bound copies of the approved thesis will be filed in the department office and in Farley Library for record. A continuum grade will be awarded each semester the student is enrolled in Continuum. A completion grade will be awarded by converting one credit-hour of [[EGM-590]] Graduate Thesis Continuum to one credit-hour of [[EGM-591]] Graduate Thesis Completion. [[EGM-590]] credit does not apply toward meeting degree completion until a grade for [[EGM-591]] is recorded. Only five hours of credit for [[EGM-590]] may apply toward Engineering Management degree requirements (although the student may enroll in a total of more than five hours of continuum if thesis completion extends to additional semesters).

EGM-591. GRADUATE PROJECT COMPLETION**Credits:** 1

One Credit Recorded with grade by converting one credit-hour of [[EGM-590]]. Occurs after successful defense of the Graduate Thesis before a Thesis Committee in an open forum, and after approved copies have been submitted to the department office and Farley Library for binding and record.

HISTORY. HISTORY**HISTORY-421. AMERICAN CULTURAL AND SOCIAL HISTORY****Credits:** 3

An examination of differences and divisions within American society through such topics as social movements, demographic trends, gender, ethnicity and class, effect of industrialization and immigration, cultural expressions, religion, and the family.

HISTORY-424. AMERICAN ECONOMIC HISTORY**Credits:** 3

A survey of the evolution of the American economy from colonial dependency to modern industrial maturity. Emphasis will be placed upon the development of the United States as an industrial world power since about 1850.

HISTORY-425. DIVERSITY IN PENNSYLVANIA HISTORY**Credits:** 3

A study of the history of the Commonwealth with particular focus on ethnic and racial diversity.

HISTORY-428. HISTORY OF THE FOREIGN POLICY OF THE UNITED STATES**Credits:** 3

A selective treatment of major themes in American foreign policy from the founding of the Republic to the present.

Course Descriptions

HISTORY-429. AMERICAN WOMEN'S HISTORY

Credits: 3

A study of the role, status, and culture of women in America beginning with the First Americans and European contact up to the present time.

HISTORY-431. COLONIAL AMERICA

Credits: 3

Discovery, exploration and settlement; development of social, political, religious and intellectual institutions; independence and political reorganization.

HISTORY-432. THE NEW NATION

Credits: 3

A study of America's social, cultural, economic and political development in the first generations of nationhood, 1783-1840.

HISTORY-433. VICTORIAN AMERICA

Credits: 3

A study of the development of the United States from the end of the Civil War through the end of World War I. Special attention will be paid to urbanization and industrialization and their effects on everyday life.

HISTORY-434. THE UNITED STATES, 1900-1945

Credits: 3

The emergence of the United States as a world power and the corresponding development of its political, economic, social, and religious institutions.

HISTORY-435. THE UNITED STATES SINCE 1945

Credits: 3

An examination of the political, social, and economic changes in the United States since World War II. Special attention is paid to America's dominant role in the immediate postwar world and how changing conditions over the past 40 years have altered this role.

HISTORY-445. HISTORY OF NORTHEASTERN EUROPE

Credits: 3

A study of the cultural, political, and intellectual history of the Poles, Czechs, Slovaks, Croats, Slovenes and Hungarians, who occupy the northern tier of Eastern Europe. Special attention is given to the roles of the Habsburg and Russian empires in shaping the historical destinies of these peoples and to the roots and consequences of the forces of nationalism in the region.

HISTORY-446. HISTORY OF THE BALKANS

Credits: 3

A study of the cultural, political and intellectual history of the Bulgarians, Serbs, Croats, Slovenes, Albanians, Greeks, Romanians and Turks, who occupy the southern, or Balkan, tier of Eastern Europe. Special attention is given to the roles of the Ottoman Turkish, Habsburg and Russian empires in shaping the historical destinies of these peoples, and to the roots and consequences in the region of such forces as Christian-Muslim cultural interrelationships and nationalism.

HISTORY-448. HISTORY OF RUSSIA

Credits: 3

A study of the political, social, and intellectual history of Russia. Emphasis is placed upon the emergence of Russia as a major power after 1700.

HISTORY-452. THE RENAISSANCE AND REFORMATION

Credits: 3

Within the political and economic framework of the period, study will be made of the culture of the Renaissance, the religious reform and conflicts resulting from the crisis in the sixteenth century.

HISTORY-453. AGE OF ABSOLUTISM

Credits: 3

The political, social, economic, intellectual, and cultural development of Europe and dependencies from 1600 to ca. 1750.

HISTORY-454. THE ERA OF THE FRENCH REVOLUTION AND NAPOLEON

Credits: 3

A study of the structure of the Ancient Regime and an examination of the causes, events, and consequences of the French Revolution culminating in the Napoleonic Empire.

HISTORY-455. EUROPE IN THE NINETEENTH CENTURY

Credits: 3

A study of the political, social, and cultural development of Europe from the Congress of Vienna to World War I.

HISTORY-456. WORLD WAR I AND VERSAILLES EUROPE

Credits: 3

Examination of the international causes of World War I, the Treaty of Versailles, and the new Europe that resulted, leading to the outbreak of World War II in 1939.

HISTORY-457. THE WORLD SINCE 1945

Credits: 3

This course examines many important events and developments in the modern world since 1945. It considers incidents of largely historical significance, such as the Cold War between the United States and the Soviet Union, and those of continuing relevance, like the globalization and privatization of the economy.

HISTORY-476. WORLD WAR II

Credits: 3

Consideration of the causes of the war, military strategy and tactics, diplomatic interests of the participants, and resulting Cold War problems.

HISTORY-497. SEMINAR

Credits: 1-3

One to three credits Presentations and discussions of selected topics. (May be repeated for credit) Prerequisite: Approval of the instructor is required.

Pre-Requisites

Approval of the instructor is required.

HISTORY-498. TOPICS**Credits:** 3

Special topics in history. This course will be offered from time to time when interest and demand justify it.

LDR. LEADERSHIP**LDR-500. LEADERSHIP PERSPECTIVES & PRACTICES****Credits:** 3

This course lays a solid foundation for students to understand leadership, and enhances their readiness and motivation to lead and follow in ways that advance business. It introduces students to a wide range of issues and debates in Leadership Studies that helps them conceptualize leadership broadly. The course aims to broaden students' perspectives by requiring them to read and critique classic and contemporary theories and models that have dominated Leadership Studies in the last one hundred years. The course also introduces students to core leading tasks in business organizations and firms. It engages students in analyzing the characteristics and dynamics of leadership in executive, sub-system, and group contexts.

LDR-555. LEADING ORGANIZATIONAL CHANGE**Credits:** 3

We live and conduct business in a rapidly changing world yet it is human nature to resist change. The overwhelming majority of major organizational change initiatives fail. The purpose of the course is to offer an in-depth analysis of organizational change and how to successfully lead major change initiatives. Specifically, the course will focus on: the dynamic and complex nature of change across a variety of contexts with an emphasis on organizational change; several current and relevant leadership and change theories and approaches diagnosing organizational readiness and applying effective leadership strategies to implement change.

Pre-Requisites

[[LDR-500]]

LDR-556. LEADERSHIP PRACTICE: VISION, AWARENESS, AND SYSTEM**Credits:** 1

This leadership practice course provides students the opportunity to experiment leadership in one of the core areas of the organization. By using the classroom as a leadership laboratory, students imagine an organizational system and deal with adaptive challenges that require envisioning and intervention.

Pre-Requisites

[[LDR-500]]

LDR-557. LEADERSHIP PRACTICE: RELATIONSHIPS, CRISIS, AND CONFLICTS**Credits:** 1

This leadership practice course provides students the opportunity to experiment building relationships and effectively deal with organizational phenomena that adversely affect engagement and performance. By using the classroom as a leadership laboratory, students imagine an organizational system, implement interventions that build relationships, deal with conflicts, and address organizational non-engagement/disengagement. In addition, the course will focus on assessing on-going and predictable organizational threats, planning for crisis, and successfully leading an organization through crisis.

Pre-Requisites

[[LDR-500]]

LDR-558. LEADERSHIP PRACTICE: GROUP DYNAMICS**Credits:** 1

This leadership practice course provides students the opportunity to practice leadership in small group contexts. By using the classroom as a leadership laboratory, students imagine an organizational system and engage in group relations and leading.

Pre-Requisites

[[LDR-500]].

LDR-560. BUILDING LEADING CAPACITY**Credits:** 3

Leadership is a learning process. The capacity to lead and collaborate with leaders requires continuous skills development. This requires organizations to create and develop their capacity to train their employees, managers, and executives for better leading and following capability. This course provides learning experiences in which students acquire knowledge and skills necessary to formulate and conduct leader development programs. It introduces students to diverse approaches, methods and tools that are proven to be effective in various organizations. It also engages students in various leader development experimentations throughout the course.

Pre-Requisites

[[LDR-500]]

LDR-580. LEADERSHIP ETHICS**Credits:** 3

The purpose of the course is to examine ethical leadership using an interdisciplinary approach. The value for, and central tenants of, ethical leadership will be reviewed across a variety of business and not for profit contexts. Specifically, the course will focus on three central topics: (1) ethical and character related behavior; (2) an examination of values-based leadership theories and approaches; and (3) creating an ethical organizational climate.

Pre-Requisites

[[LDR-500]]

Course Descriptions

LDR-591. APPLIED LEADERSHIP REFLECTION AND PLANNING

Credits: 1

The purpose of the course is to utilize all learning products/projects from other leadership courses (stored in an e-portfolio) for the purpose of reviewing the assignments in combination with other leadership assessments to perform a strengths profile and gap analysis.

Pre-Requisites

[[LDR-500]]

LIT. LIT

LIT-501. FOUNDATIONS OF LITERACY ACQUISITION AND DEVELOPMENT (READING AND WRITING)

Credits: 3

This course provides an in-depth understanding of the theory and research that is integral to the successful teaching of reading. This course also provides an in-depth examination of reading development from birth through elementary school. Students will also have an opportunity to explore a variety of materials that are currently used for core instruction.

LIT-502. ADVANCED LINGUISTICS: LANGUAGE FOUNDATIONS FOR TEACHERS OF READING, WRITING, AND SPELLING

Credits: 3

This course is designed to assist students in understanding the language processing requirements for proficient reading, spelling, and writing (Phonetics, Phonological, Orthographic, Morphological, Semantic, Syntactic). This course also exposes the students to the content, methods, and sequence of structured language teaching.

Pre-Requisites

[[Lit-501]]

LIT-503. APPLYING BRAIN RESEARCH TO LITERACY DEVELOPMENT AND INSTRUCTION

Credits: 3

This course will provide an understanding of the theory and content of brain research and anatomy, including the general principles of brain development and the structural and functional organizing principles of the brain. Students will also become familiar with the most important brain functions for literacy acquisition, as well as an understanding of how a disruption in these fundamental neural circuits contributes to impairment in reading. In addition, students will become knowledgeable about the applications of brain research to instruction and the development of educational policy.

LIT-504. BEST PRACTICES IN THE ASSESSMENT AND REMEDIATION OF STRUGGLING READERS AND WRITERS- PART I

Credits: 3

This course is designed to facilitate the knowledge of participants in administering formal and informal diagnostic instruments used to analyze strengths and needs of students' reading, writing, and spelling. This course will also require students to develop written reports that summarize data and outline a course of action using research-based interventions.

Pre-Requisites

[[LIT-501]], [[LIT-502]]

LIT-505. BEST PRACTICES IN THE ASSESSMENT AND REMEDIATION OF STRUGGLING READERS AND WRITERS-PART II

Credits: 3

This course is designed to assist students in administering formal and informal diagnostic instruments, analyze strengths and needs in students' higher-order reading and writing reading and writing skills. This course will also require the development of reports that summarize assessment data and outline a course of action using research-based interventions.*** Field Experience (10 hours)

Pre-Requisites

[[LIT-501]], [[LIT-504]]

LIT-506. LITERACY DEVELOPMENT AND LITERATURE FOR ADOLESCENTS

Credits: 3

The purpose of this course is to prepare students to design evidence-based literacy programs for adolescents. Students will become familiar with the key issues and experts in the field and will be able to apply evidence-based strategies to address the literacy needs of students in middle and high school. This course is also intended to present a comprehensive introduction to materials written for adolescents and young adults.*** Field Experience (10 hours)

LIT-507. INTRODUCTION TO THE WORLD OF LITERATURE FOR CHILDREN AND ADOLESCENTS

Credits: 3

This course introduces the exciting and growing field of literature for children and adolescents. Students will study children's and adolescent literature from its beginnings in the 18th century chapter books and fairy tales, throughout the 19th century novels, to contemporary examples of fiction and nonfiction illustrating current issues and trends. This course also includes the study of multicultural works of fiction and nonfiction.

LIT-508. LITERACY AND LEARNING IN THE CONTENT AREAS**Credits: 3**

This course will facilitate student proficiency in integrating literacy-related strategies and practices into instructional routines in content area classrooms. Students will be introduced to the cognitive research on learning phases, as well as a variety of evidence-based instructional practices that address the conceptual and textual demands inherent in disciplinary learning.

LIT-509. BEST PRACTICES IN CONTEMPORARY LITERACY LEADERSHIP**Credits: 3**

This course introduces students to the evolving roles of reading specialists and literacy coaches. As future leaders, students will be expected to demonstrate the ability to facilitate professional seminars and develop high-quality literacy programs for diverse learners. This course will also provide students with an opportunity to develop and implement a project that targets stakeholders outside of the school community (e.g., health care providers, mental health professionals, early childhood providers).

Pre-Requisites

[[LIT-501]], [[LIT-502]], [[LIT-503]], [[LIT-504]], [[LIT-505]]

LIT-510. LITERACY EDUCATION PRACTICUM/ INTERNSHIP**Credits: 3**

(100 hours)

This course will serve as the capstone experience that provides students with the opportunity to apply the knowledge, skills, and dispositions, necessary for effective practice as a reading specialist. Students will complete 100 practicum hours in a professional school setting where they will assume a variety of roles under the supervision of a certified reading specialist.

Pre-Requisites

[[LIT-501]], [[LIT-502]], [[LIT-503]], [[LIT-504]], [[LIT-505]], [[LIT-506]], [[LIT-507]], [[LIT-508]], [[LIT-509]]

MBA. MBA**MBA-501. FOUNDATIONS OF STATISTICS****Credits: 1**

This course introduces the foundation of probability and statistics used in management and covers the basics of data analysis and display, descriptive measures. In addition, this course is designed to teach the basic and advanced features and functions of Excel, including summative, descriptive and reporting techniques.

MBA-504. FOUNDATIONS OF FINANCE**Credits: 1**

This course surveys the fundamental financial concepts and principles including the role of the financial manager, valuation models, basic risk and return concepts, and the time value of money.

MBA-506. FOUNDATIONS OF ACCOUNTING**Credits: 1**

This course provides a background in both the concepts and practice of accounting that assist management in the decision-making process. In addition, the course will include general coverage about the accounting cycle, financial statements, and a base in managerial accounting.

MBA-510. PROJECT MANAGEMENT**Credits: 3**

The use of projects and project management is increasingly relevant in business. Businesses regularly are challenged to accomplish unique outcomes with limited resources under critical time constraints. As a result, there is need for managers to increase proficiency with the process of planning and controlling a project, which entails the application of insights and skills to the definition, scheduling, and monitoring of activities in order to meet or exceed stakeholder expectations from a project. This course develops a foundation of concepts and solutions that supports the planning, scheduling, controlling, resource allocation, and performance measurement activities required for successful completion of a project.

Pre-Requisites

[[MBA-501]]

MBA-512. MANAGERIAL STATISTICS**Credits: 3**

This course describes how to use a collection of quantitative techniques to analyze data and introduces students to basic concepts in probability and statistics relevant to managerial decision making. After understanding how to use Microsoft Excel to formulate, analyze and solve general business problems, students focus on how to construct and use spreadsheet models based on topics from statistics. Topics include probability distributions, sampling, estimation and testing, regression and correlation, and time series and forecasting. Course activities may include case analyses, research, application of advanced techniques, and/or utilization of various information technologies.

Co-Requisites

[[MBA-501]].

MBA-513. GLOBAL OPERATIONS MANAGEMENT**Credits: 3**

Operations Management involves the responsibility of ensuring that business operations are efficient in terms of using as little resource as needed, and effective in terms of meeting customer requirements. Throughout the semester, we will incorporate global perspectives in operations management - specifically, the comparative position of U.S. manufacturing and service firms against global competition. The focus is on covering those aspects of operations management that can help firms become more competitive globally. The aim of the course is to provide the managers with an understanding of the production of goods and services in an international environment through a review and critique of current literature.

Pre-Requisites

[[MBA-512]] and [[MBA-550]]

Course Descriptions

MBA-516. SUPPLY CHAIN MANAGEMENT

Credits: 3

This course provides an overview of key supply chain management processes, concepts, and methodologies. Topics include, but not limited to, principles of supply chain management, factors affecting global supply chain decisions, facility location methods, logistics and transportation issues, demand forecasting, the strategic role of information technology in supply chains, and the use of third-party logistics providers.

Pre-Requisites

[[MBA-512]].

MBA-520. MARKETING MANAGEMENT

Credits: 3

This course presents a strategic foundation for marketing decision-making. It seeks to develop students' understanding and implementation of key marketing strategies such as internal and external environmental analysis, product targeting and positioning, branding, pricing, distribution, and promotion. Emphasis is placed on written and verbal communications skill development.

Co-Requisites

[[MBA-501]].

MBA-526. GLOBAL EBUSINESS

Credits: 3

This course provides students with solid experience in creating market data-driven e-business strategies for the future success of a global business. The course examines an application of statistical and information analysis to marketing decisions in (international business related) electronic environments. At the end of the course, the students will be expected to: (1) appreciate the need for Global E-business for business success internationally, (2) understand basic concepts of E-Business and E-Commerce, (3) develop suitable business strategies and critical decision making for E-Marketing, (4) understand how to make an E-marketing initiative as an integral part of the business through research in digital and social media based companies, and (5) develop an ability to use and apply electronic business analytics, methods, and tools to make effective marketing decisions in a simulated environment across different cultures and countries. Course activities will likely include case studies, term projects, etc.

Pre-Requisites

[[MBA-520]].

MBA-532. MANAGERIAL ECONOMICS

Credits: 3

This course emphasizes managerial decision-making. The objective is to acquaint the student with the economic theory that underlies business analysis and decision-making. The course provides a comprehensive analysis of problems of the firm and how to solve them. The topics explored include an analysis of supply and demand functions, production and costs, price and output determination in markets of various types, as well as decision-making under conditions of short as well as long run. The course will deal with the application of economic theory to business practice.

Pre-Requisites

[[MBA-550]]

MBA-536. INTERNATIONAL BUSINESS

Credits: 3

This course is designed to acquaint students with the practical principles and methods of international business practices. Subjects covered include the development and management of exports and imports, the functions and forms of the global monetary system, tariffs protection against foreign competition and how tariffs encourage other countries to retaliate with their own tariffs, as well as effects of economic, political, social, cultural, and legal systems on international business managers. Also, explored direct foreign investments; foreign exchange management; world trade organization; direct foreign investments; international trade logistics; and Protection.

Pre-Requisites

[[MBA-550]].

MBA-537. GLOBAL BUSINESS EXPERIENCE

Credits: 3

This course is a combination of readings, research, and direct experience. The course provides an overview of a Western European Society. A ten-day field trip in Western Europe is a major learning experience of the course. Site visits are made in a number of cities in European countries. Site visits include Cities, Regions, and Business and travel centers. Arrangements for travel are made during the summer and fall, and travel in the spring. The purpose of the course is to create a global learning experience using Western Europe as a medium to facilitate the student's understanding of the global business environment.

MBA-540. FINANCIAL MANAGEMENT

Credits: 3

A survey of the tools and techniques currently employed by financial decision makers when evaluating organizational performance and developing future courses of action. Emphasis will be placed upon working capital management and capital budgeting techniques.

Co-Requisites

[[MBA-504]].

MBA-546. TOPICS IN FINANCE**Credits:** 3

This course will address select advanced topics in finance. Topics include, but are not limited to, financial markets and institutions, the theories and strategies of derivatives, organizational risk management and insurance, and financial modeling.

Pre-Requisites

[[MBA-540]]

MBA-550. ORGANIZATIONAL BEHAVIOR**Credits:** 3

Organizations function in a dynamic, complex environment that must balance resource utilization with organizational and societal relevance. This course considers both internal (closed) systems and external (open) systems. This course will review internal systems such as structure, human capital, management, operating policies, employee ethics, and fiscal responsibility as well as external capacities such as industry functionality and compliance, governmental standards and reporting, competitive considerations, technology, market functionality and new media, and strategic response mechanisms.

MBA-552. ORGANIZATIONAL BEHAVIOR AND LEADERSHIP**Credits:** 3

The purpose of this course is to examine organizational and leadership issues in the private and not-for-profit sectors. The course emphasizes how to become an effective leader by achieving mastery over the noisy, incessant, and rapidly changing environment. The course focuses on three central issues: (1) what makes a person an effective leader; (2) how does a leader encourage high performance and build commitment; and (3) how does a leader translate intention into reality, communicate those intentions, empower others, and stay on course while knowing when to change.

Co-Requisites

[[MBA-505]].

MBA-555. HUMAN RESOURCES LAW AND COMPENSATION**Credits:** 3

This course offers a survey of the legal and financial environment of human resources. Students will learn to analyze the impact that statutory, administrative, and case law have upon human resource management. Design, management, and administration of compensation methods, as well as recent developments in benefits packages, are covered.

Pre-Requisites

[[MBA-550]].

MBA-556. CORPORATE CITIZENSHIP**Credits:** 3

This course presents an introduction and overview of corporate citizenship. This 3-credit course addresses how today's businesses and corporations approach philanthropy, corporate social responsibility, ethics, environmental sustainability, and community and society interactions while maintaining profitability and a strong stakeholder approach. For legal and tax considerations, the course will have a US-centric view, however, global considerations and other models will be reviewed.

Pre-Requisites

[[MBA-550]]

MBA-560. FINANCIAL AND MANAGERIAL ACCOUNTING**Credits:** 3

A basic understanding of both internal and external accounting principles and techniques with appropriate application to decision models. Financial and managerial accounting concepts and issues are considered from the viewpoint of the report users.

Co-Requisites

[[MBA-506]].

MBA-566. TOPICS IN ACCOUNTING**Credits:** 3

This course will address select advanced topics in accounting. Topics include corporate financial reporting, financial and tax planning, accounting policies and practices, advanced management accounting, and other current issues.

Pre-Requisites

[[MBA-560]].

MBA-577. TOPICS IN HEALTH CARE MANAGEMENT**Credits:** 3

This course will address select topics in health care management. The purpose of the course is to provide the student with an understanding of how applying managerial techniques can improve the delivery of high quality healthcare. Topics may include (but are not limited to) health law, epidemiology, marketing, finance, comparative health care systems, and public policy. Course assignments may include case studies, research and field interviews of acknowledged experts in the field.

Pre-Requisites

[[MBA-501]].

Course Descriptions

MBA-580. SOCIAL, LEGAL AND ETHICAL CONCEPTS

Credits: 3

This course provides students with an overview of the legal, social and ethical environment of conducting business. Students will analyze ways in which businesses interact with all stakeholders (customers, shareholders, employees), government, and society to make decisions and the impact of those decisions. The course uses current business issues to provide students with the opportunity to think and write critically about the current environment while also recognizing future trends.

Pre-Requisites

[[MBA-550]]

MBA-585. CORPORATE ENTREPRENEURSHIP

Credits: 3

This course presents an exploration of corporate entrepreneurship in its many forms and manifestations. In addition to entrepreneurship, the course will deal with innovation, venturing, and new product development. Topics will include processes, management practices, organizational culture, and opportunities within a corporate environment.

Pre-Requisites

[[MBA-550]].

MBA-591. STRATEGIC MANAGEMENT AND POLICY

Credits: 3

The capstone course integrates a business approach to strategic decision-making which encompasses the business functions of marketing, production, finance, and human resource management. The course will facilitate both conceptual and experiential integration of functional concepts and techniques from the core courses as well as enhance the written and oral communication skills of students.

Pre-Requisites

[[MBA-512]], [[MBA-540]], [[LDR-500]], [[MBA-560]], [[MBA-580]]

MBA-592. ADVANCED PROJECTS IN BUSINESS

Credits: 3

This course requires that the student perform advanced research and writing, while developing and honing their professional communication skills. Topics must be approved by the instructor in advance and research must be based upon (a) Independent Study; (b) Internship/Consulting; (c) Community Service; or (d) Mentorship. It is expected that papers and other course products will meet quality standards for publication and will be presented at the conclusion of the semester, and where possible, at appropriate conference(s).

Pre-Requisites

[[MBA-512]]

MBA-595. 596. INDEPENDENT RESEARCH

Credits: 3

Independent study and research for advanced students in the field of the major under the direction of a staff member.

Pre-Requisites

[[MBA-501]] and [[MBA-550]]

MBA-598. TOPICS

Credits: 3

Special topics in a major field. This course will be offered from time to time as interest and demand justify it.

Pre-Requisites

[[MBA-501]].

MTH. MATHEMATICS

MTH-411. REAL ANALYSIS

Credits: 4

A rigorous treatment of fundamental concepts in analysis, with emphasis on careful reasoning and proofs. Topics covered include the completeness and order properties of real numbers; limits and continuity; conditions for integrability and differentiability; infinite sequences and series of functions. Basic notions of the topology of the real line are also introduced.

Pre-Requisites

[[MTH-302]] (Introduction to Higher Mathematics) or consent of instructor

MTH-413. FUNCTIONS OF SEVERAL VARIABLES

Credits: 3

A modern treatment of calculus of functions of several real variables. Topics include: Euclidean spaces, differentiation, integration and manifolds leading to the classical theorems of Green and Stokes.

Pre-Requisites

[[MTH-214]] (Linear Algebra) and [[MTH-411]] (Real Analysis) or consent of instructor.

MTH-414. COMPLEX ANALYSIS

Credits: 3

Complex functions, limit, continuity, analytic functions, power series, contour integration, Laurent expansion, singularities and residues.

Pre-Requisites

[[MTH-212]] (Multivariable Calculus) or consent of instructor.

MTH-431. ABSTRACT ALGEBRA I

Credits: 4

A rigorous treatment of fundamental concepts in algebra, with emphasis on careful reasoning and proofs. Topics covered include equivalence relations, binary operations. Integers: divisibility, factorization, integers modulo n , elementary group theory, subgroups, cyclic groups, permutation groups, quotient groups. Homomorphisms and isomorphisms. Introductory topics in ring theory as time permits.

Pre-Requisites

[[MTH-302]] (Introduction to Higher Mathematics) or consent of instructor

MTH-432. ABSTRACT ALGEBRA II**Credits:** 3

A continuation of [[MTH-431]]. Includes the study of polynomial rings, ideals, field extensions and Galois Theory.

Pre-Requisites

[[MTH-431]] (Abstract Algebra).

MTH-442. TOPOLOGY**Credits:** 3

An introduction to point-set topology, including a study of metric spaces, topological spaces, countability and separation axioms, compactness, connectedness, product spaces.

Pre-Requisites

[[MTH-411]] (Real Analysis) or consent of instructor.

MTH-443. GEOMETRY**Credits:** 3

A study of selected topics from Euclidean and non-Euclidean geometry.

Pre-Requisites

[[MTH-302]] (Introduction to Higher Mathematics) or consent of instructor

MTH-451. PROBABILITY AND MATHEMATICAL STATISTICS I**Credits:** 3

Random variables, probability distributions, expectation and limit theorems, confidence intervals.

Pre-Requisites

A one-year calculus sequence or consent of instructor.

MTH-452. PROBABILITY AND MATHEMATICAL STATISTICS II**Credits:** 3

Hypothesis testing, non-parametric methods, multivariate distributions, introduction to linear models.

Pre-Requisites

[[MTH-451]] or consent of instructor.

MTH-454. STATISTICAL METHODOLOGY**Credits:** 3

This course emphasizes applications, using statistical computer packages (R, SPSS) and real data sets from a variety of fields. Topics include estimation and testing; stepwise regression; analysis of variance and covariance; design of experiments; contingency tables; and multivariate techniques, including logistic regression.

Pre-Requisites

[[MTH-451]] or consent of instructor.

MTH-461. PARTIAL DIFFERENTIAL EQUATIONS**Credits:** 3**Fees:** \$40

Partial differential equations and boundary value problems, inner product spaces, orthogonal functions, eigen value problems, Sturm-Liouville equations, Fourier series, Fourier transforms, Green's functions, and classical equations of engineering and physics.

Offered fall of odd years.

Pre-Requisites

[[MTH-211]] and [[MTH-212]]

MTH-462. ADVANCED CALCULUS**Credits:** 3**Fees:** \$40

Topics from advanced calculus, including matrix representation of differentials and the multivariable chain rule, vector calculus, curvilinear coordinates, change of variables in higher dimensions, improper multiple integrals, applications of line and surface integrals, differential forms and the general Stokes' theorem, potential theory, and Taylor's formula for functions of several variables.

Offered fall of even years

Pre-Requisites

[[MTH-212]] (Multivariable Calculus)

MTH-463. OPERATIONS RESEARCH**Credits:** 3

A survey of operations research topics such as decision analysis, inventory models, queuing models, dynamic programming, network models, and linear programming. Cross-listed with [[CS-463]]. Offered in the spring semester of odd-numbered years when demand warrants.

Pre-Requisites

Programming experience in a high-level language and completion of a one-year calculus sequence.

MTH-464. NUMERICAL ANALYSIS**Credits:** 3

An introduction to numerical algorithms as tools to providing solutions to common problems formulated in mathematics, science, and engineering. Focus is given to developing the basic understanding of the construction of numerical algorithms, their applicability, and their limitations. (Cross-listed with [[CS-464]])

Pre-Requisites

Programming experience in a high-level language and completion of a one-year calculus sequence.

Course Descriptions

MTH-465. NUMERICAL LINEAR ALGEBRA

Credits: 3

Direct and iterative methods for the solution of systems of linear equations, matrix decompositions, computation of eigenvalues and eigenvectors, and relaxation techniques. The theoretical basis for error analysis including vector and matrix norms. Applications such as least squares and finite difference methods. Offered spring semester of even-numbered years.

Pre-Requisites

MTH 214 and CS 125 (or equivalent programming experience)

MTH-470. READINGS IN MATHEMATICS

Credits: 3

Pre-Requisites

Consent of Mathematics Department Chairperson May be repeated for credit if a different topic is selected.

MTH-511. MEASURE AND INTEGRATION

Credits: 3

Measures, measurable functions, integration, convergence theorems, product measures, signed measures.

Pre-Requisites

[[MTH-442]] or consent of instructor.

MTH-513. FUNCTIONAL ANALYSIS

Credits: 3

Topics include: Banach spaces, L_p -spaces, Hilbert spaces, topological vector spaces, and Banach algebra.

Pre-Requisites

[[MTH-411]] and a course in linear algebra.

MTH-532. MODERN ALGEBRA

Credits: 3

A study of group theory (including the Sylow Theorems and solvable groups); ring theory (including the Noetherian rings and UFDs); modules, tensor algebra, and semi-simple rings.

Pre-Requisites

[[MTH-431]], and a course in linear algebra or consent of instructor.

MTH-542. ALGEBRAIC TOPOLOGY

Credits: 3

Polyhedra, simplicial homology theory, cohomology rings, and homotopy groups.

Pre-Requisites

[[MTH-442]].

MTH-590. THESIS WRITING

Credits: up-6

Pre-Requisites

Consent of Department Chairperson

ME. MECHANICAL ENGINEERING

ME-401. APPLIED ENGINEERING ANALYSIS

Credits: 3

This course is intended for physical science and engineering students. Topics include inner product spaces, operator algebra, eigenvalue problems, Fourier series, Sturm-Liouville theory, and partial differential equations. Cross list [[MTH-461]]

ME-402. ENGINEERING COMPUTATIONAL ANALYSIS

Credits: 3

This course introduces applications of Matrix algebra (Review only), solution of linear simultaneous equations, solving linear system of equations by iteration methods, roots of algebraic and transcendental equations, interpolation, methods of finding polynomial roots, Eigen values & eigenvectors, numerical integration, numerical differentiation, numerical solution of initial value problems, boundary value problems.

ME-411. PRODUCT DEVELOPMENT

Credits: 3

This course introduces organizational issues and decision-making for capital investments in new technologies. The commercialization process is traced from research and development and marketing activities through the implementation phase involving the manufacturing function. Term project is a commercialization plan for a new manufacturing technology.

ME-414. INVERSE PROBLEMS IN MECHANICS

Credits: 3

Inverse problems are very common in engineering where the outputs are known but the inputs are unknown. This course will show how to properly setup a well-posed inverse problem, how to solve matrix inverse, and conduct hands on experiments by creating strain gage based force transducers.

ME-417. ROBOTICS

Credits: 3

This course is an introduction of robot mechanisms, intelligent controls, and industrial robot programming. Course topics include kinematics and motion planning, mechanism design for manipulators and mobile robots, dynamics and control design, actuators and sensors, human-machine interface, and embedded software. Laboratories and projects provide experience with DC and servo motors, real-time feedback control, embedded software, and industrial robot programming.

[Click here for course fee.](#)

Pre-Requisites

EGR-222 and ME-234

Co-Requisites

MTH-212 concurrent or before

ME-418. QUALITY CONTROL ENGINEERING

Credits: 3

This course addresses quality control in the manufacturing environment, statistical methods used in quality assurance, statistical process control.

ME-425. ENERGY SYSTEMS**Credits:** 3

This course introduces fundamental principles of energy transmission and energy conversion. Comprehension of the physical systems in which the conversion of energy is accomplished. Primary factors necessary in the design and performance analysis of energy systems three credits.

ME-427. TRANSPORT PHENOMENA**Credits:** 3

This course introduces theory and applications of heat, mass, and momentum transport. The fluid dynamics topics such as conservation laws, laminar and turbulent flow, Navier Stokes equations of motion and other related topics will be covered. Topics include free and forced convection, boiling and condensation, and the analogy between heat and mass transport. Practical problems of engineering applications in different areas will be discussed.

ME-432. VIBRATION OF DYNAMIC SYSTEMS**Credits:** 3**Fees:** \$100

This course is an introductory course in mechanical vibration dealing with free and forced vibration of single and multi-degree of freedom for linear systems.

ME-436. SOLID MECHANICS**Credits:** 3

This course is an introduction to continuum mechanics, variational methods, including vectors and tensors, state of stress and compatibility equation, plain stress and strain. Energy Principles and virtual work will be discussed.

ME-438. MACHINE DESIGN II**Credits:** 3

An advanced course in machine design topics that expands upon the concepts of Machine Design I. This course goes into more detail of the basic machine fundamentals introduced previously such as levers, belts, pulleys, gears, cams and power screws. Emphasis is also placed on 3D printing and the future of additive manufacturing.

Pre-Requisites[ME-333](#)**ME-439. CLASSICAL MECHANICS****Credits:** 3

This course is an introduction to classical mechanics. Topics covered include: Newtonian mechanics, oscillations, Lagrangian and Hamilton's principle, Dynamics of a systems of particles and rigid bodies.

ME-442. MATERIAL SCIENCE**Credits:** 3

This course introduces advance materials for engineers, emphasizing the fundamentals of manufacturing/structure/property/function relation and applications. Topics include materials selection for machine design components in micro and nano-scales, biomaterials, nano-composites, and optimized materials for nano-sensors & actuator systems.

ME-443. ADDITIVE MANUFACTURING**Credits:** 3

An introduction to additive manufacturing, also known as 3-D printing, which is a process of building 3-D objects from a digital file. Emphasis will be placed on both existing and emerging additive manufacturing processes in the context of design, modeling, materials, processing, and applications. This course provides hands-on experience and implements active learning strategies.

[Click here for course fees.](#)**ME-451. MECHATRONICS****Credits:** 3

This course is a multidiscipline technical area defined as the synergistic integration of mechanical engineering with electronic and intelligent computer control in the design and manufacture of industrial products and processes. This course covers topics such as actuators and drive systems, sensors, programmable controllers, microcontroller programming and interfacing, and automation systems integration.

ME-452. NANO-TECHNOLOGY**Credits:** 3

This course explores the fundamentals of Nanotechnology and its applications for colloidal suspension, Electrophoretic deposition and nano sensing by understanding materials properties, micro-machining, sensor and actuator principles. Two hours lecture and three hours lab per week.

ME-454. CONTROL SYSTEMS**Credits:** 3

Laplace transforms and matrices. Mathematical modeling of physical systems. Block diagram and signal flow graph representation. Time-domain performance specifications. Stability analysis; Routh-Hurwitz criterion. Steady state error analysis. Root-locus and frequency response techniques. Design and compensation of feedback systems. Introductory State space analysis.

ME-480. ADVANCED CADD**Credits:** 3

An advanced course in Computer-Aided Drafting and Design (CADD) using SolidWorks. This course will introduce topics such as advanced modeling, advanced assemblies, Finite Element Analysis (FEA), and sheet metal.

Pre-Requisites[ME-180](#), [ME-335](#)**ME-498. ADVANCED TOPICS IN MECHANICAL ENGINEERING****Credits:** 1-3

This course includes selected topics in the field of mechanical engineering. These may include one or more of the following: control systems, automation, robotics, manufacturing systems, solid mechanics, energy systems, fluid flow, acoustics, computer systems, bio-mechanics.

ME-501. GRADUATE EDUCATION CONTINUUM**Credits:** 1-9

Recorded with grade for one credit-hour. Occurs as a continuum bases till successful completion of thesis or project.

Course Descriptions

ME-599. THESIS/PROJECT

Credits: 3-6

Students have the option of selecting up to six credits- hours of thesis or three credit hour of project under guidance of a thesis/project advisor. The thesis will have a committee of three members; at least two members (including the adviser) must be Wilkes faculty members. The thesis/project should be presented in an open forum.

NSG. NURSING

Co- Requisites.

Credits:

All co-requisite courses for graduate nursing courses are at the discretion of the Chair, Graduate Nursing.

NSG-410. TRANSITION TO BACCALAUREATE NURSING FOR THE GRADUATE NURSING STUDENT

Credits: 7

This course is designed to facilitate the transition of RN students from other educational routes to baccalaureate education and professional nursing practice. The course focuses on the integration of knowledge, skills and attitudes in the development of the professional role to enhance quality outcomes for individuals, families, and populations across all healthcare settings and in complex healthcare environments. Students will begin advancing their knowledge on the transformational concepts related to master's education in nursing.

NSG-411. LEADERSHIP AND MANAGEMENT PRACTICUM FOR THE GRADUATE NURSING STUDENT

Credits: 3 (clinical 45 hours)

This course prepares the RN to M.S.N. student for professional role development in emerging health care delivery systems. The student synthesizes knowledge from previous nursing and supportive courses to manage care in an area of clinical practice consistent with career goals. Students will continue advancing their knowledge on the transformational concepts related to master's education in nursing.

Pre-Requisites

[[NSG-410]]

NSG-412. GRADUATE-LEVEL ACADEMIC WRITING FOR NURSING PROFESSIONALS

Credits: 1

Terms Offered: Fall, Spring, Summer

Fees: N/A

Master's-level nursing education prepares students to exhibit leadership in today's complex health systems. Proficiency in scholarly writing is expected in the graduate nursing program, and this course will coach students on the development of effective written communication skills for success at the graduate level and in one's academic and professional careers. This required 1-credit pass/fail course is a co-requisite to NSG 411.

Pre-Requisites

[[NSG-410]]

Co-Requisites

[[NSG-411]]

NSG-500. ADVANCED HEALTH ASSESSMENT

Credits: 3

This course presents an overview of the full and comprehensive health assessment of patients across the life span. Emphasis on multiple aspects of assessment including physical, functional, and mental health assessment along with transcultural variations, will prepare the student for advanced nursing practice. (Nurse Practitioner students are required to complete an onsite residency.)

NSG-501. THEORETICAL FOUNDATIONS OF NURSING SCIENCE

Credits: 3

This course emphasizes the systematic process of theory development in nursing. The role of traditional science in relation to other ways of knowing is explored. Students will describe, analyze, and evaluate current theories of nursing. The relationship of research and practice to theory is discussed.

NSG-502. ADVANCED NURSING RESEARCH

Credits: 3

This course builds on knowledge and skills developed in undergraduate research and statistics courses. Skills in the analysis and evaluation of nursing research are further developed. Students analyze the contributions of the empirical approach to the development of nursing science. Selected research designs and methodologies which are used to advance nursing knowledge are examined. Students are given the opportunity to critique and synthesize current research for its application to an identified problem in nursing practice.

NSG-504. ADVANCED ROLE DEVELOPMENT IN NURSING

Credits: 3

This course examines the development of roles for advancing nursing practice. The historical development of these roles along with current scope of practice in a variety of clinical settings will be explored. Focus will be placed on the legal, historical, political, social, and ethical aspects of advanced practice nursing.

NSG-505. HEALTH POLICY AND POLITICS FOR ADVANCING NURSING PRACTICE**Credits:** 3

Complex and continuous changes in healthcare environments require that nursing professionals contribute to care delivery systems for improving population health outcomes. This course focuses on the role of the nurse advancing nursing practice through developing health policy, politics, and advocacy systems. Approaches to health issues for shaping policy on a local, state and federal level are analyzed in accordance with policy making processes, politics in healthcare and government, healthcare economics, and ethical frameworks.

NSG-506. ADVANCED PRACTICE IN ADULT GERONTOLOGY CLINICAL I**Credits:** 3

Advance practice nursing students integrate theories from nursing and other sciences that are evidence-based and sensitive to cultural and ethical issues. Promoting quality outcomes in the adult-gerontology population across the spectrum of young adults, adults, and older adults is the focus of this clinical experience in primary care settings. Advanced health assessment, diagnostic reasoning, and development of therapeutic interventions for self-limiting conditions occurs. Opportunities for interdisciplinary experience and collaborative practice are provided. The seminar component of the course is designed to develop critical-thinking and clinical decision-making skills through case presentations. (Seminar, Residency and 250 clinical practice hours).

Pre-Requisites

[[NSG-500,550]]

NSG-515. ADVANCED PRACTICE IN ADULT GERONTOLOGY CLINICAL II**Credits:** 3

Advanced Practice nursing students integrate theories from nursing and other sciences that are evidence-based and sensitive to cultural and ethical issues. Promoting quality outcomes in the adult and gerontology population across the spectrum of young adults, adults, and older adults is the focus of this clinical experience in primary care settings. Advanced health assessment, diagnostic reasoning and development of therapeutic interventions for complex health conditions occurs. Opportunities for interdisciplinary experience and collaborative practice are provided. The seminar component of the course is designed to develop critical-thinking and clinical decision-making skills through case presentations. (Seminar, Residency and 250 clinical practice hours)

Pre-Requisites

[[NSG-506]]

NSG-526. CLINICAL MODALITIES IN ADVANCED PSYCHIATRIC MENTAL HEALTH NURSING PRACTICE**Credits:** 3

This course provides a foundation in the major systems of therapy for individuals and groups used in advanced psychiatric mental health nursing and other disciplines engaged in mental health practice. Focus will be on therapeutic modalities such as brief psychotherapy, group processes and practices, milieu therapy and crisis intervention as they relate to advanced nursing practice in mental health.

Pre-Requisites

[[NSG-500]], [[NSG-550]] [[552]]

NSG-527. PSYCHOPATHOLOGY, THEORIES, AND ADVANCED CLINICAL MODALITIES**Credits:** 3

This course focuses on the most frequently observed pathologies in psychiatry and mental health, the various conceptual models and theories related to the practice of psychiatric mental health nursing, and the most advanced clinical modalities congruent with the analysis of the best evidence.

Pre-Requisites

[[NSG-526]], [[NSG-535]]

NSG-530. ADVANCED PATHOPHYSIOLOGY**Credits:** 3

This course provides an overview of the normal physiologic and pathologic mechanisms of disease and serves as one primary component of the foundation for clinical assessment, decision-making, and management. The course will prepare the advanced practice nurse for interpreting changes in normal function that results in symptoms indicative of illness in patients across the lifespan.

NSG-533. ADVANCED PHARMACOLOGY**Credits:** 3

This course provides the basic principles of pharmacodynamics, pharmacokinetics, and pharmacotherapeutics for broad categories of drugs. Purpose of action, common interactions and contraindications of major drug categories are highlighted. Case studies are integrated to provide students the opportunity to demonstrate application of pharmacological theory in advancing nursing practice.

Course Descriptions

NSG-535. ADVANCED PRACTICE IN PSYCHIATRIC/ MENTAL HEALTH NURSING I

Credits: 3

This foundational clinical course introduces students to advanced practice psychiatric nursing in a variety of mental health settings. Students acquire skills in completing comprehensive mental health assessments. Students identify and apply concepts, theories, and principles to the practice of individual, family, and group psychotherapy, with emphasis on process dynamics. Considerations and challenges in providing psychotherapy to culturally diverse individuals, families, and groups are explored and discussed. Skills are gained in assessing psychopathological symptoms across the lifespan and in implementing planned interventions. Students integrate theory and practice of the advanced practice psychiatric nurse in a supervised clinical practicum (Total: Residency and 250 practice hours).

Pre-Requisites

[[NSG-500]], [[NSG-550]] [[552]]

NSG-536. ADVANCED PRACTICE IN PSYCHIATRIC/ MENTAL HEALTH NURSING II

Credits: 3

This clinical course focuses on refining assessment, diagnosis, and pharmacological and psychosocial management of individuals of all ages with mental illness. Individual, family, and group psychotherapies are refined. Students gain skills in identifying individuals/populations at risk for mental illness and primary prevention in mental health. Mental health needs of culturally diverse, rural, and underserved populations are explored. Leadership and advocacy roles of the advanced practice psychiatric nurse as an agent of healthcare policy change are emphasized. Students integrate theory and practice of the advanced practice psychiatric nurse in a supervised clinical practicum (Total: Residency and 250 practice hours).

Pre-Requisites

[[NSG-526]], [[NSG-535]]

NSG-540. ROLE OF THE NURSE EDUCATOR AND CURRICULUM WORK IN NURSING EDUCATION

Credits: 3

Course content prepares the student to examine the nurse educator role, the concept of role change and its impact on the transition from nurse clinician to nurse educator. Curriculum development, implementation, and evaluation is analyzed with a focus on professional standards and criteria. Emphasis is on designing a curriculum that is grounded in evidence, aligned with current and projected contexts, and organized around specific curricular elements.

NSG-541. TEACHING METHODOLOGIES AND STRATEGIES IN NURSING CURRICULUM

Credits: 3

Course content informs the student on effective teaching and learning strategies in nursing curriculum. Theoretical foundations of teaching and learning are discussed. Utilization of technology, including simulation and distance learning in nursing education, is explored. Teaching in various settings is identified.

NSG-542. TESTING AND EVALUATION IN NURSING EDUCATION

Credits: 3

Course content informs the student on the elements of curriculum evaluation. Concepts of assessment, testing, and evaluation related to student achievement are described. Social, ethical, and legal components of testing and evaluation are discussed.

NSG-544. NURSING EDUCATION PRACTICUM I

Credits: 3

Students in a direct care role and through clinical experiences will focus on strengthening patient care delivery skills to individuals and families for promoting achievement of health goals and outcomes. The student will obtain a preceptor who will provide direct care nursing experiences in an area of advanced nursing practice at a graduate level. (100 direct care clinical hours required)

Pre-Requisites

[[NSG-540]], [[NSG-541]], or [[NSG-542]]

NSG-545. NURSING EDUCATION PRACTICUM II

Credits: 3

Students in a direct care role and through clinical experiences will focus on strengthening patient care delivery skills to individuals and families for promoting achievement of health goals and outcomes. The student will obtain a preceptor who will provide direct care nursing experiences in an area of advanced nursing practice at a graduate level. (100 direct care clinical hours required)

Pre-Requisites

[[NSG-540]], [[NSG-541]], or [[NSG-542]]

NSG-546. FAMILY NURSE PRACTITIONER CLINICAL I

Credits: 3

Family/Across the Lifespan Nurse Practitioner students integrate theories from nursing and other sciences that are evidence-based and sensitive to cultural and ethical issues. Promoting quality outcomes in the family population across the lifespan is the focus of this clinical experience in primary care settings. Advanced health assessment, diagnostic reasoning, and development of therapeutic interventions for self-limiting conditions occurs. Opportunities for interdisciplinary experience and collaborative practice are provided. The seminar component of the course is designed to develop critical-thinking and clinical decision-making skills through case presentations. (Seminar, Residency and 250 clinical practice hours)

Pre-Requisites

[[NSG-500]], [[NSG-550]]

NSG-547. FAMILY NURSE PRACTITIONER CLINICAL II**Credits: 3**

Family/Across the Lifespan Nurse Practitioner students integrate theories from nursing and other sciences that are evidence-based and sensitive to cultural and ethical issues. Promoting quality outcomes in the family population across the lifespan is the focus of this clinical experience in primary care settings. Advanced health assessment, diagnostic reasoning and development of therapeutic interventions for complex health conditions occurs. Opportunities for interdisciplinary experience and collaborative practice are provided. The seminar component of the course is designed to develop critical-thinking and clinical decision-making skills through case presentations. (Seminar, Residency and 250 clinical practice hours)

Pre-Requisites

[[NSG-549]]

NSG-548. FAMILY NURSE PRACTITIONER ROLE WITH CHILDREN AND FAMILIES**Credits: 2**

This course is designed to prepare Family Nurse Practitioner nursing students to provide primary health care to the pediatric client and their family. The course integrates nursing theories that are evidence-based with health assessment and diagnostic reasoning of acute primary care health problems. Health promotion, protection and disease prevention interventions are provided with consideration of culturally diverse populations.

Pre-Requisites

[[NSG-500]], [[NSG-530]], [[NSG-533]], [[NSG-550]]

NSG-549. FAMILY NURSE PRACTITIONER CLINICAL WITH CHILDREN AND FAMILIES**Credits: 1**

Family Nurse Practitioner nursing students integrate theories from nursing and other sciences that are evidence-based and sensitive to cultural and ethical issues. Promoting quality outcomes in the pediatric population across the lifespan is the focus of this clinical experience in primary care settings. Advanced health assessment, diagnostic reasoning and development of therapeutic interventions for complex health conditions occurs. Opportunities for interdisciplinary experience and collaborative practice are provided. The seminar component of the course is designed to develop critical-thinking and clinical decision-making skills through case presentations. (Seminar, Residency and 84 clinical practice hours)

Pre-Requisites

[[NSG-546]]

NSG-550. DIAGNOSTIC REASONING FOR NURSE PRACTITIONERS**Credits: 2**

The nurse practitioner will develop processes for formulating differential diagnoses of acute and chronic physical and mental illnesses in the primary care setting across the life span. A case-study approach is integrated to prepare students for management of health status of patients through the implementation of strategies specific to the synthesis of data from multiple sources that promote quality of care outcomes for patients.

Pre-Requisites

[[NSG-530]], [[NSG-533]]

NSG-552. PSYCHOPHARMACOLOGY**Credits: 2**

This course is designed to assist the P-MH nurse practitioner to develop competence in prescribing and monitoring psychopharmacological agents used in the treatment of common psychiatric-mental health disorders across the lifespan. This course will examine the major classes of psychopharmacological agents on neurobiological function with a particular emphasis on the clinical management of target psychiatric symptoms. Drugs of abuse, side effects, issues of polypharmacy, and management of advanced practice prescriptive privileges are also explored.

Pre-Requisites

[[NSG-533]]

NSG-554. NURSE PRACTITIONERS IN PRIMARY CARE I**Credits: 3**

This course is designed to prepare primary care nurse practitioner students to provide primary health care to the adult and older adult population during wellness and acute/episodic illness. The course integrates nursing theories that are evidence-based with health assessment and diagnostic reasoning of acute/episodic primary care health problems. Health promotion, protection and disease prevention interventions are provided with consideration of culturally diverse populations.

Pre-Requisites

[[NSG-550]]

NSG-555. NURSE PRACTITIONERS IN PRIMARY CARE II**Credits: 3**

This course is designed to prepare primary care nurse practitioner students to provide chronic primary health care to the adult and older adult population. The course integrates nursing theories that are evidence-based with health assessment and diagnostic reasoning of chronic, primary health care problems. Health promotion, protection and disease prevention interventions are provided with consideration of culturally diverse populations.

Pre-Requisites

[[NSG-550]]

Course Descriptions

NSG-556. HEALTH PERSPECTIVES OF CULTURALLY DIVERSE, RURAL, AND UNDERSERVED POPULATIONS

Credits: 2

This course is designed to introduce the advanced practice nursing student to the issues of culturally diverse, rural and underserved populations. The theory can be integrated into clinical practice for patients and families in primary care settings to promote understanding of differences and issues that impact comprehensive planning of health care services.

NSG-560. PRINCIPLES OF NURSING LEADERSHIP

Credits: 3

The student will examine foundational concepts which underlie healthcare systems and nursing leadership behavior. The concepts of health policy, the confluence of nursing practice, health policy and conceptual healthcare policy models will be examined at the national and international level.

NSG-561. THE WORK OF NURSING LEADERS IN HEALTHCARE

Credits: 3

The student will explore the work of a nurse leader in American healthcare. American healthcare is amid tumultuous change with nurse leaders compelled to adapt and develop new skills sets. Nurses now play active roles in change management processes, conflict resolution, quality assurance projects, interprofessional collaboration, human resource management, financial management and strategic planning. These functions will be explored in this course.

NSG-562. ADVANCED TOPICS IN NURSING LEADERSHIP

Credits: 3

Proficiency in nursing leadership and management develops from accumulated work experience combined with formalized education. This course will introduce theoretical constructs not found in prelicensure education to facilitate the complex work of nurse leaders. Systems thinking, complexity theory, nursing scholarship and the use of Evidence-Based Practice (EBP) techniques, the role of healthcare in the community and the transition to outpatient services and community-based care will be covered.

NSG-563. NURSE EXECUTIVE PRACTICUM I

Credits: 3

By applying theories from other sciences and utilizing interdisciplinary experiences and collaborative opportunities, students will further enhance the skills necessary to excel as a health care executive in an evidence-based, culturally sensitive environment. The seminar component of this course is designed to supplement previous theoretical applications and stimulate critical-thinking and decision-making to further develop the student's leadership abilities (100 practicum hours)

Pre-Requisites

[[NSG-560]], [[NSG-561]], or [[NSG-562]]

NSG-564. NURSE EXECUTIVE PRACTICUM II

Credits: 3

By applying theories from other sciences and utilizing interdisciplinary experiences and collaborative opportunities, the student will further enhance the skills necessary to excel as a health care executive in an evidence-based, culturally sensitive environment. The completion of an organizational needs assessment within this course is designed to supplement previous theoretical applications and stimulate critical-thinking and decision-making to further develop the student's administrative abilities. (100 practicum hours)

Pre-Requisites

[[NSG-560]], [[NSG-561]], or [[NSG-562]]

NSG-565. FOUNDATIONS OF NURSING INFORMATICS

Credits: 3

Students are introduced to the role, scope, and standards which form the foundation for nursing informatics practice. The theoretical basis of the course incorporates both knowledge of nursing practice and health informatics. Students will explore the framework of data, information, knowledge, and wisdom to data application in healthcare for improving patient care.

NSG-566. DATA MANAGEMENT IN HEALTHCARE

Credits: 3

Database application in nursing and healthcare systems will be examined in this course. Students will learn database design, implementation, and management to support clinical decision making in nursing and healthcare project design and management.

NSG-567. NURSING INFORMATICS LEADERSHIP IN HEALTHCARE SYSTEMS AND PROJECT DESIGNS

Credits: 3

In this course students will explore the role of the informatics nurse specialist as nurse leader who combines knowledge of nursing practice and technology on healthcare teams. Theory and skills on performing system analysis and implementation of the systems design life cycle in project management.

NSG-568. NURSING INFORMATICS PRACTICUM I

Credits: 3

This course requires students to perform in the role of an informatics nurse specialist in a healthcare organization. In collaboration with a preceptor students will apply nursing informatics theory and models in developing a project which improves the quality of nursing care delivered in a healthcare setting. (Clinical Practicum Hours: 100)

Pre-Requisites

[[NSG-565]], [[NSG-566]], or [[NSG-567]]

NSG-569. NURSING INFORMATICS PRACTICUM II**Credits:** 3

This course requires students to perform in the role of an informatics nurse specialist in a healthcare organization. In collaboration with a preceptor students will apply nursing informatics theory and models to implement the project planned in NSG 568, which improves the quality of nursing care delivered in a healthcare setting. (Clinical Practicum Hours: 100)

Pre-Requisites

[[NSG-568]]

NSG-590. SCHOLARLY REVIEW**Credits:** 3**Terms Offered:** Fall, Spring, Summer

In this course the student will synthesize and review issues relevant to their specialty clinical practice. This course is designed as a review of the required masters level core nursing courses and specialty focused curriculum for advanced nursing practice. This course will provide an overview of both the required core nursing courses as well as each specific specialty course.

Pre-Requisites

Completion of Graduate Nursing Core and NP Concentration courses prior to the last semester of the program.

Co-Requisites

Last semester NP didactic and clinical courses of the program.

NSG-591. SCHOLARLY PREPARATION FOR NURSE PRACTITIONER BOARDS**Credits:** 2**Terms Offered:** Fall, Spring, Summer**Fees:** N/A

In this course the student will synthesize and review topics relevant to their NP specialty area of clinical practice. This course is designed as a review of specialty focused curriculum for the nurse practitioner national board certification examination.

Pre-Requisites

All courses prior to last semester program courses.

Co-Requisites

NP didactic and clinical courses in the last semester of the program.

NSG-600. NURSING INFORMATICS**Credits:** 3

Students use information systems to analyze patient data, perform research, and evaluate project outcomes. The course will include applications in computer-based patient records, data-base management systems, e-health, distance education, and research. Legal and ethical issues associated with computer use are examined.

NSG-601. BIostatISTICS**Credits:** 3

Statistics is the science whereby inferences are made about specific random phenomena on the basis of relatively limited sample material. It is widely used in biological, health, and social sciences, etc. Biostatistics is the branch of applied statistics that applies statistical methods to medical and biological problems.

NSG-602. ETHICAL PRINCIPLES FOR ADVANCED NURSING PRACTICE**Credits:** 3

This course will analyze a broad range of ethical principles that impact the health professions, from euthanasia and abortion to informed consent and behavior control. Examination of the ethical, moral, and legal obligations within selected decision-making frameworks will be completed. Strategies to assist in the resolution of ethical dilemmas will be developed through the application of selected theories and concepts. Interaction between ethical, legal, and political events that affect advanced practice nursing will be explored.

NSG-603. APPLICATION OF NURSING RESEARCH**Credits:** 3

This course analyzes research methods to appraise research literature for application to practice and evaluate practice outcomes in varied settings. Application of relevant research findings are used to generate practice guidelines, design evidence based interventions and examine patterns and predict outcomes. The collaborative role of the D.N.P. in research is discussed.

Pre-Requisites

[[NSG-601]]

NSG-604. EPIDEMIOLOGY AND ENVIRONMENTAL HEALTH**Credits:** 3

The purpose of this course is to examine the concepts and methods of epidemiological and environmental health analysis and their application to advanced nursing practice. The student will be able to integrate this knowledge into nursing practice in a variety of health care settings through research, program development, health policy and advocacy.

NSG-605. COLLABORATION IN HEALTH CARE DELIVERY**Credits:** 3

This course focused on the knowledge and skills needed to promote collaboration with all members of the interdisciplinary health care team. Content will include exploration of the design, implementation, and evaluation of programs and policies for effective health care delivery.

NSG-606. DIVERSITY AND SOCIAL ISSUES**Credits:** 3

This course focuses on cultural and social issues affecting members of a global society. A critical appraisal of health care disparities is emphasized and strategies for quality improvement are analyzed.

Course Descriptions

NSG-607. LEADERSHIP IN ADVANCED NURSING PRACTICE

Credits: 3

This course provides an opportunity for students to analyze theories of leadership and management as they relate to the multifaceted role in advanced nursing practice. The health care environment, with its ongoing changes in organization and financing, is impacted upon by changes in health policy, regulatory processes, and quality measures. The understanding of this content will prepare the student to provide quality cost-effective care, to participate in the design and implementation of care in a variety of health care systems, and to assume a leadership role in the managing of human, fiscal, and physical care resources.

NSG-608. A AND B. D.N.P. PROJECT

Credits: 6

Completed over the last 2 semesters of the D.N.P. program.

In this course the student under the guidance of a selected faculty member will analyze and synthesize theoretical and empirical research relevant to a clinical practice or health policy issue. Students will design, implement, and evaluate a comprehensive evidence based D.N.P. Project. Required clinical hours for the D.N.P. degree are dependent upon educational background.

Pre-Requisites

[[NSG-600]], [[NSG-601]], [[NSG-602]], [[NSG-603]], [[NSG-604]], [[NSG-605]], [[NSG-606]] and [[NSG-607]]

NSG-609. D.N.P. PROGRAM PRACTICUM

Credits: 3

This course provides students pursuing a Doctor of Nursing Practice degree the opportunity for achieving additional clinical hours as required for meeting program outcomes. The focus will be on preparing students as experts in a specific area for advancing nursing practice, for the final D.N.P. project. The student will develop a PICOT statement which will guide this intense practice immersion experience. The student will collaborate with an identified clinical mentor. (Elective; Clinical hours total: 250)

Pre-Requisites

[[NSG-600]], [[NSG-601]], [[NSG-602]], [[NSG-603]]

NSG-615. INTRODUCTORY SEMINAR

Credits: 1

This seminar is a weekend residency that focuses on the dissertation process and student orientation to the university and Ph.D. program.

Pre-Requisites

Doctoral Standing

NSG-616. PHILOSOPHY OF SCIENCE

Credits: 3

The focus of this course is to prepare doctoral student to examine the development and organization of nursing knowledge. Philosophies of science, epistemologies and their influence on knowledge development in the discipline of nursing, and strategies for theory development and analysis are explored.

Pre-Requisites

[[NSG-615]]

NSG-617. THEORY IN NURSING EDUCATION

Credits: 3

This course acquaints students with philosophical issues and nursing theories relevant to nursing education. An overview of central metaphysical, epistemological, and ethical system, considering specific issues in the philosophies of science and ethics that are of particular focus in nursing education.

Pre-Requisites

[[NSG-615]]

NSG-618. HEALTH CARE ISSUES AND POLICY

Credits: 3

The nurse researcher contributes towards the development of healthcare policy and politics in local, state, national, and global healthcare markets. Application and analysis of evidence based research on policy and politics will impact population health outcomes and the future of nursing education, research and practice.

Pre-Requisites

[[NSG-615]]

NSG-619. THE RESEARCH PROCESS

Credits: 3

This course introduces students to the seven steps of the research process, focusing on the development of researchable problems, literature review, and hypothesis/question generation within the context of quantitative and qualitative research designs and methods.

Pre-Requisites

[[NSG-615]]

NSG-620. SEMINAR I

Credits: 3

This course builds on the knowledge of philosophy, theory, and research process. The student, in consultation with his/her chairperson, begins the dissertation process.

Pre-Requisites

[[NSG-616]], [[NSG-617]], [[NSG-619]], [[NSG-623]], [[NSG-624]]

NSG-621. STATISTICS

Credits: 3

This course applies knowledge of statistical methods used in nursing research. Topics include parametric and non-parametric methods of data analysis and model building. Alternate approaches to analysis of data are considered.

Pre-Requisites

[[NSG-615]]

NSG-622. WRITING FOR GRANTS AND PUBLICATION

Credits: 3

This course applies knowledge of statistical methods used in nursing research. Topics include parametric and non-parametric methods of data analysis and model building. Alternate approaches to analysis of data are considered.

Pre-Requisites

[[NSG-615]]

NSG-623. QUANTITATIVE RESEARCH AND ANALYSIS I

Credits: 3

This course focuses on research methodologies that guide the design of studies which collect and analyze quantitative data. The focus will be on writing quantitative research questions and selecting appropriate research methodologies. Focus is placed on descriptive, correlational, experimental and quasi-experimental designs as applied to nursing problems.

Pre-Requisites

[[NSG-619]], [[NSG-621]]

NSG-624. QUALITATIVE RESEARCH AND ANALYSIS

Credits: 3

The focus of this course is on qualitative inquiry as an approach to the discovery of knowledge in the science of nursing. This course will focus on the scientific underpinnings, methodologies, and data analysis techniques in qualitative research for advancing nursing knowledge.

Pre-Requisites

[[NSG-619]]

NSG-625. QUANTITATIVE RESEARCH AND ANALYSIS II

Credits: 3

This course builds on the understanding of quantitative designs in nursing and health related topics. The course provides the opportunity for applied practice in quantitative methods using common statistical tests and SPSS.

Pre-Requisites

[[NSG-623]]

NSG-626. MEASUREMENT AND DATA COLLECTION

Credits: 3

This course provides an overview of principles of measurement, instrument design, and data collection methods. Methods to critically evaluate and select theoretically congruent instruments are explored.

Pre-Requisites

[[NSG-621]]

NSG-627. SEMINAR II

Credits: 3

The student, in consultation with his/her chairperson, writes chapters II and III of the dissertation proposal.

Pre-Requisites

[[NSG-615]], [[NSG-616]], [[NSG-617]], [[NSG-618]], [[NSG-619]], [[NSG-620]], [[NSG-621]], [[NSG-622]], [[NSG-623]], [[NSG-624]], [[NSG-625]], [[NSG-626]]

NSG-628. PH.D. COMPETENCY

Credits: 1

The comprehensive written examination is a series of questions that focus on the synthesis and integration of knowledge learned during doctoral coursework. Students demonstrate their ability and preparedness to move forward in the doctoral research program.

Pre-Requisites

[[NSG-627]]; Authorization from Ph.D. Program Coordinator to register for comprehensive examination

NSG-629. DISSERTATION SEMINAR

Credits: 3

This course focuses on completion of the first three chapters of the dissertation and submission of the proposal to the IRB committee(s) for approval. Students will then undertake proposal defense before continuing into dissertation implementation.

Pre-Requisites

[[NSG-628]]

NSG-630. DISSERTATION IMPLEMENTATION I

Credits: 3

This course focuses on implementation of the student's doctoral research study. After completion of the first three chapters, successful proposal defense, and IRB approval, the student, under guidance from their chair, begins the data collection process. This course focuses on research methodologies that guide the design of studies which collect and analyze quantitative data. The focus will be on writing quantitative research questions and selecting appropriate research methodologies. Focus is placed on descriptive, correlational, experimental and quasi-experimental designs as applied to nursing problems.

Pre-Requisites

[[NSG-629]]

Course Descriptions

NSG-631. DISSERTATION IMPLEMENTATION II

Credits: 3

This course continues with the implementation of the dissertation. Students complete data collection and analysis thus, finalizing chapters 4 and 5 and satisfying final defense.

Pre-Requisites

[[NSG-630]]

PHS. PHARMACOLOGY AND MEDICINAL CHEMISTRY

BIO-347. BIostatISTICS AND EXPERIMENTAL DESIGN

Credits: 4

This course reviews the statistical paradigms and techniques involved in analyzing biological phenomena. Frequentist and Bayesian methods are employed when appropriate with an emphasis on applied statistics and experimental design. Laboratory exercises include designing, analyzing, and communicating experiments. Computation and computer coding is employed in laboratory exercises. Offered in alternate years.

[Click here for course fee.](#)

Pre-Requisites

[[BIO-225]], [[MTH-150]], or permission of the instructor.

PHS-571. RESPONSIBLE CONDUCT IN BIOMEDICAL RESEARCH

Credits: 1

Terms Offered: Not Currently Offered

This is an introductory course in ethics of science and scientific research. The course is designed to provide a foundation for thinking about and recognizing the ethical dimensions of a variety of issues.

Pre-Requisites

Enrolled in the MS program, or instructor permission

PHS-572. LITERATURE EVALUATION IN PHARMACEUTICAL AND PHARMACOLOGICAL SCIENCES (II)

Credits: 1

Terms Offered: Spring, Not Currently Offered

This course is a traditional scientific journal club. Students will present the background, content, and implications of a paper of their choosing to the audience.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-573. LITERATURE EVALUATION IN PHARMACEUTICAL AND PHARMACOLOGICAL SCIENCES (I)

Credits: 1

Terms Offered: Not Currently Offered

This course is a traditional scientific journal club. Students will present the background, content, and implications of a paper of their choosing to the audience.

Pre-Requisites

Enrollment in MSPS or instructor permission.

PHS-574. LITERATURE EVALUATION IN PHARMACEUTICAL AND PHARMACOLOGICAL SCIENCES (III)

Credits: 1

Terms Offered: Not Currently Offered

This course is a traditional scientific journal club. Students will present the background, content, and implications of a paper of their choosing to the audience.

Pre-Requisites

Enrollment in MSPS or instructor permission.

PHS-575. INTRODUCTION TO RESEARCH STUDY DESIGN AND PROPOSAL WRITINGS

Credits: 1

Terms Offered: Not Currently Offered

This is an introductory course in research methods and proposal writing. The course is designed to give students experience in hypothesis and specific aims development and an overview of the use of the scientific study design for solving basic science problems.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-576. PHARMACODYNAMICS AND MEDICINAL CHEMISTRY OF MAJOR DRUG CLASSES

Credits: 3

Terms Offered: Not Currently Offered

The objectives of the course is to prepare students with the knowledge of pharmacological agents. The main focus is on the pharmacology of agents used in the treatment of different ailments.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-577. EXPERIMENTAL METHODS IN PHARMACOLOGY AND TOXICOLOGY

Credits: 2

Terms Offered: Not Currently Offered

The objective of this course is to introduce students to scientific research tools and techniques that are widely used in the fields of pharmacology and toxicology. Portions of the course will focus on regulatory requirements in drug development.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-578. RESEARCH**Credits:** 3**Terms Offered:** Not Currently Offered

This course targets the developments of students' research skills with specific goals to 1) Provide research experience through participation in supervised research project prior to the thesis, 2) Involve students in doing research early in their master studies, 3) Increase students' research skills.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-579. PRINCIPLES OF PHARMACOLOGY AND MEDICINAL CHEMISTRY & FUNDAMENTALS OF DRUG DISPOSITION**Credits:** 3**Terms Offered:** Not Currently Offered

This course is an introductory course that will integrate pharmacology, medicinal chemistry, and pharmacokinetics fundamentals. This particular course will emphasize the most fundamental concepts central to drug therapy.

Pre-Requisites

Enrolled in the MS program, or instructor permission

PHS-581. RESEARCH ORIENTATION**Credits:** 1**Terms Offered:** Not Currently Offered

This course orients students to pharmaceutical and pharmacological bench research. Students will spend up to 3 weeks at each participating faculty's research group to gain exposure of the respective research topics.

Pre-Requisites

Enrolled in the MSPS program, or instructor permission

PHS-583. THESIS RESEARCH I**Credits:** 3**Terms Offered:** Not Currently Offered

All MS students are required to complete a thesis. The thesis should make an original contribution to knowledge in the field of Pharmaceutical and Pharmacological Sciences. There is no predetermined length, but the most theses range between 70 to 100 pages.

Pre-Requisites

Permission from Advisor and Directors of the MSPS program

PHS-584. THESIS RESEARCH II**Credits:** 3**Terms Offered:** Not Currently Offered

All MS students are required to complete a thesis. The thesis should make an original contribution to knowledge in the field of Pharmaceutical and Pharmacological Sciences. There is no predetermined length, but the most theses range between 70 to 100 pages.

Pre-Requisites

Permission from Advisor and Directors of the MSPS program

PHA. PHARMACY**PHA-360, 460, 560. SELF-DIRECTED INTRODUCTORY PHARMACY PRACTICE EXPERIENCES I, II, III****Credits:** 0.5 (PHA 560)

The Self-Directed (SD)-IPPE program is made up of three courses (SD-IPPE I, II, and III) over the span of the P 1 through P3 years. Collectively these courses consist of a total of 20 hours of pharmacy-related, service-oriented learning. The Self-Directed Introductory Pharmacy Practice Experience (SD-IPPE) course is designed to expose students to various service-learning opportunities throughout their P1 through P3 years. This experience consists of 3 components: participation in and development of service-learning projects, reflection, and self-directed learning. Students may develop their own experiences or participate in opportunities offered by the School or professional organizations.

Requirements for service-learning hours will increase as the student progresses through the curriculum. Each student must complete a minimum of 2, 8, and 10 hours during the P1, P2, and P3 years, respectively (total 20 hours). Additional details are provided in the SDIPPE syllabus conveniently posted in E*Value.

Pre-Requisites

[[PHA-360]] pre-requisite is P1 standing

[[PHA-460]] pre-requisite is P2 standing and [[PHA-360]]

[[PHA-560]] pre-requisite is P3 standing and [[PHA-460]]

PHA-395-396, 495-496, 595-596. INDEPENDENT STUDY**Credits:** 1-6

Independent study and research for advanced students in the field of the major under the direction of a faculty member.

Pre-Requisites

Approval of the department chairperson.

Course Descriptions

PHA-302, 401, 402, 501 & 502. PHARMACY CARE LAB I - V

Credits: 1 each

This five-semester sequence is designed to develop the student's ability to integrate and apply information as well as practice skills that are taught throughout the curriculum. The use of case studies, role-plays, presentations, and other active-learning strategies engages students in the learning process and requires them to synthesize information at increasing levels of complexity as the student moves through the course sequence. Requirement: P-1, P-2, or P-3 standing, as appropriate for each laboratory.

Pre-Requisites

Pre-requisites:

For [[PHA-401]], pre-requisite is [[PHA-302]]

For [[PHA-402]], pre-requisite is [[PHA-401]]

For [[PHA-501]], pre-requisite is [[PHA-402]]

For [[PHA-502]], pre-requisite is [[PHA-501]]

Co-Requisites

For [[PHA-401]], Co-requisites: [[PHA-421]], [[PHA-423]], and [[PHA-425]]

For [[PHA-402]], Co-requisites: [[PHA-426]], [[PHA-428]], and [[PHA-430]]

For [[PHA-501]], Co-requisites: [[PHA-521]], [[PHA-523]], and [[PHA-525]]

For [[PHA-502]], Co-requisites: [[PHA-526]], [[PHA-528]], and [[PHA-530]]

PHA-301. & PHA 304 FOUNDATIONS OF PHARMACY PRACTICE

Credits: 2

The purpose of this two-semester course is to provide the student with the foundational knowledge, skills and attitudes needed to practice pharmacy in the 21ST century. In particular, this course will focus on skills (communication, teamwork), attitudes and other content relevant to the practice of pharmacy. The school's team-focused approach to learning is emphasized throughout. This course fulfills experiential requirements and so students will have the opportunity to interact with pharmacists and patients.

Pre-Requisites

P-I standing.

PHA-308. PHARMACEUTICAL AND HEALTH CARE DELIVERY

Credits: 3

Examination of health and pharmaceutical delivery in the U.S. conducted from a societal perspective. Emphasis is on public policy, economic behavior and outcomes. Application will be made to various pharmaceutical sectors (e.g., retail, health systems, manufacturing). Students should gain an understanding of the factors driving transformation of health care delivery and the implications for future pharmacy practice. Lecture: three hours per week.

Pre-Requisites

P-I standing or consent of the instructor.

PHA-310. CLINICAL RESEARCH AND DESIGN

Credits: 3

In order to apply current research to patient care activities, one must first develop the skills to interpret studies. The purpose of this course is to learn how research studies are designed to answer specific clinical questions, and how the study design is important in interpreting the results of the studies. Students will apply research design concepts and statistical techniques to design, critically analyze, and interpret preclinical, clinical, and economic studies of pharmaceuticals and treatment plans. Lecture: three hours per week.

Pre-Requisites

[[MTH-150]] or equivalent and P-1 standing or consent of the instructor.

PHA-311. & PHA 312 PHARMACEUTICS I & II

Credits: 4

The study and application of physical chemical principles that are necessary for the design, development and preparation of pharmaceutical dosage forms. The study of quantitative skills necessary for an understanding of the basic and clinical pharmaceutical sciences, including skills in pharmaceutical calculations and extemporaneous preparation of dosage forms. Lecture: three hours per week. Laboratory and Recitation: three hours per week.

Pre-Requisites

P-1 standing or consent of the instructor. [[PHA-311]] is a prerequisite for [[PHA-312]].

PHA-313. PHARMACY CALCULATIONS

Credits: 1

The common mathematical processes that a pharmacist may encounter in professional practice are covered. Interpretation of the prescription, including Latin abbreviations, will be discussed. Medical terminology and the generic name, trade name, manufacturer, and classification of the top 100 drugs will also be presented. Lecture one hour per week.

Pre-Requisites

P-1 standing or permission of the instructor.

PHA-327. MEDICAL MICROBIOLOGY

Credits: 3

An overview of microbiology with special emphasis on pathogenic microbiology. Lecture: three hours per week.

Pre-Requisites

P-1 standing or consent of the instructor.

PHA-331. & PHA 332 MEDICAL ANATOMY AND PHYSIOLOGY I & II**Credits:** 4

In-depth principles of human anatomy and physiology as well as an introduction to pathophysiology will be presented. Lecture: Two hours per week. Recitation and Lab: two hours per week.

Pre-Requisites

P-1 standing or consent of the instructor.

This course is restricted to enrolled Pharmacy students. Consideration may be given to non-pharmacy students with overall GPAs of 3.0 or greater, if there is room in the lecture and lab sessions, and with instructor approval.

NOTE: [[PHA-331]] is a prerequisite for [[PHA-332]].

PHA-335. INTRODUCTORY PHARMACY PRACTICE EXPERIENCE I**Credits:** 2

This course will provide introductory practice experience to students in the community setting. The course fosters the development of professionalism in an environment of practical application of knowledge, skills, and attitudes. Students will be faced with a variety of issues practical to community pharmacy. The student will take an independent learning approach under the supervision of a practicing community pharmacist. The course is two full-time weeks (80 hours) of experience.

Pre-Requisites

Successful completion of all required courses in the P-1 year, or permission of instructor.

PHA-365. MEDICAL BIOCHEMISTRY**Credits:** 4

Introduction to basic biochemistry concepts, focusing on the structure and function of vitamins, proteins, and lipids as well as bioenergetics and major catabolic pathways. The catabolism of carbohydrates, fats and amino acids will be discussed including reactions and regulation. Common metabolic pathways of drugs, enzyme induction and metabolism down regulation will also be presented. Lecture: Four hours per week. Cross-listed with [[CHM-365]], [[BEGR-465]].

Pre-Requisites

[[CHM-232]] or [[CHM-235]] with a grade of 2.0 or better or permission of the instructor

PHA-405. PHARMACEUTICAL CARE SYSTEMS: DESIGN AND CONTROL**Credits:** 2

Examines delivery of pharmaceutical products and services from a systems perspective in a variety of patient care settings. Focus is upon effectiveness, efficiency, and quality. Covers design of systems, establishment and monitoring of key indicators, total quality management and quality assurance agencies (e.g., JCAHO, NCQA). Lecture: two hours per week.

PHA-410. IMMUNOLOGY AND BIOTECHNOLOGY**Credits:** 3

A discussion of nonspecific host defense mechanisms and a detailed description of specific immunity. Products that impart artificial active and passive immunity are presented. The concept of biotechnology is discussed together with the currently available products of genetic engineering that relate to immunology. The various immunological disorders and the immunology of cancer and HIV are discussed. Lecture: three hours per week.

Pre-Requisites

[[PHA-331]], [[PHA-332]], [[PHA-365]] or consent of the instructor.

PHA-411. BIOPHARMACEUTICS AND CLINICAL PHARMACOKINETICS**Credits:** 3

Biopharmaceutics and Clinical Pharmacokinetics is designed to educate pharmacy students in the principles of pharmacokinetics and biopharmaceutics and how they assist in dosage regimen design and therapeutic efficacy evaluations. The impact of the physical and chemical forms nature of the drug and dosage forms will be studied as they relate to the absorption, distribution, metabolism, and elimination. The clinical pharmacokinetics of individual drugs will be examined with emphasis on clinical application based on patient presentations. Case studies, homework, and quizzes will be used to facilitate student learning. This course is roughly divided into two parts. The first is Biopharmaceutics/ Pharmacokinetics and the second is Clinical Pharmacokinetics. Lecture: three hours per week.

Pre-Requisites

P2 standing

PHA-412. MANAGEMENT OF PHARMACY OPERATIONS**Credits:** 3

The principles of management, including personnel and financial management, will be covered as they apply to management of pharmacy operations in a variety of settings (e.g., community, health system, managed care). Lecture: three hours per week.

Pre-Requisites

[[PHA-308]] or consent of the instructor.

PHA-421. PHARMACOTHERAPEUTICS I: PRINCIPLES OF PHARMACOLOGY & MEDICINAL CHEMISTRY**Credits:** 2

This course is the 1st of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This particular course will emphasize the most fundamental concepts central to drug therapy. A major emphasis will be placed on the interactions of drugs with their cellular targets in the human body, and the chemical properties of drugs that dictate their biological activity.

Pre-Requisites

[[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]] and [[PHA-365]] or [[CHM-365]].

Co-Requisites

[[PHA-401]], [[PHA-423]], [[PHA-425]]

Course Descriptions

PHA-423. PHARMACOTHERAPEUTICS II: PRINCIPLES OF PHARMACOTHERAPEUTICS

Credits: 2

This course is the 2nd of a twelve module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for understanding Pharmacotherapeutics principles.

Pre-Requisites

[[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]], and [[PHA-365]] or [[CHM-365]]

Co-Requisites

[[PHA-401]], [[PHA-421]], [[PHA-425]]

PHA-425. PHARMACOTHERAPEUTICS III: SELF-CARE AND DERMATOLOGY*

Credits: 3

Terms Offered: Fall

This course is the 3rd of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of dermatological disorders and self-care issues.

Pre-Requisites

[[PHA-310]], [[PHA-327]], [[PHA-331]], [[PHA-332]], and [[PHA-365]] or [[CHM-365]], [[PHA-421]]

Co-Requisites

[[PHA-401]], [[PHA-421]], [[PHA-423]]

PHA-426. PHARMACOTHERAPEUTICS IV: GASTROINTESTINAL DISORDERS*

Credits: 2

This course is the 6th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of gastrointestinal diseases.

Pre-Requisites

[[PHA-421]], [[PHA-423]]

Co-Requisites

[[PHA-402]]

PHA-428. PHARMACOTHERAPEUTICS V: INFECTIOUS DISEASES*

Credits: 4

This course is the 4th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of infectious diseases.

Pre-Requisites

[[PHA-421]], [[PHA-423]]

Co-Requisites

[[PHA-402]]

PHA-430. JOINT, AUTOIMMUNE AND MUSCULOSKELETAL DISORDERS

Credits: 2

This course is the 5th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of joint autoimmune and musculoskeletal diseases.

Pre-Requisites

[[PHA-421]], [[PHA-423]]

Co-Requisites

[[PHA-402]]

PHA-435. PHARMACOGENOMICS

Credits: 2

Students will learn to understand how human genetics and genomics can be used to provide optimized drug therapy and patient care. Learning about this emerging field will enable students to better understand and manage new genomics-based diagnostic tools and make personalized treatment choices. Students will also spend time discussing societal and ethical implications of genetic testing and the resultant individualization of drug therapy, explain basic principles of human genetics and heredity, and more. Requirement: P-3 standing.

Pre-Requisites

*[[PHA-423]] is prerequisite to [[PHA-425]] - [[PHA-530]].

PHA-440. INTRODUCTORY PHARMACY PRACTICE EXPERIENCE II

Credits: 1

This course will provide introductory practice experience to students in two health care settings: prescriber's clinics and a clinical pharmacy site. Students will have an independent approach to learning and gain a broader understanding of these settings and the role that pharmacists may play.

Pre-Requisites

Requirement: successful completion of all required courses in the P1 year, or permission of instructor.

PHA-445. INTRODUCTORY PHARMACY PRACTICE EXPERIENCE III**Credits: 2**

This course will provide introductory practice experience to students in the health-system setting. The course fosters the development of professionalism in an environment of practical application of knowledge, skills, and attitudes. Students will be faced with a variety of issues practical to this area of practice. The student will take an independent learning approach under the supervision of a practicing community pharmacist.

The course is two full-time weeks (80 hours) of experience.

Pre-Requisites

Requirement: Successful completion of all required courses in P-2 year, or permission of instructor.

PHA-450. NEUROPHARMACOLOGY OF DRUGS OF ABUSE**Credits: 3**

In-depth analysis of drugs of abuse, including pharmacokinetics, pharmacodynamics, tolerance, sensitization, physical dependence, and effects of drug use during pregnancy. Drug testing and substance abuse treatment strategies will also be discussed. Lecture: three hours.

Pre-Requisites

[[PHA-421]] or consent of the instructor.

PHA-452. EXTEMPORANEOUS COMPOUNDING**Credits: 3**

Students will achieve basic and advanced skills in compounding pharmaceutical dosage forms for individualized patient therapy to replace a lack of commercially available products, and enhance therapeutic problem-solving between the pharmacist and physician to enhance patient compliance. Students will work independently on research assignments and compounding preparations. Lecture: one hour per week. Lab six hours per week.

Pre-Requisites

[[PHA-311]] and [[PHA-312]] and consent of the instructor.

PHA-456. CONCEPTS IN PRIMARY CARE**Credits: 2**

The course is designed to allow students to explore and develop advanced knowledge and skills related to diseases and medications commonly encountered in a primary care environment. This course will be of value to pharmacy students seeking careers in ambulatory care pharmacy practice, community pharmacy, long-term care and population health management. Topics are presented in a case-based discussion format that includes multiple diseases and medications and through student-led mini topic discussions.

Pre-Requisites

[[PHA-311]] and [[PHA-312]]

PHA-488. ASPECTS OF CARING FOR THE PAIN PATIENT**Credits: 2**

This course is an interactive and interprofessional approach to the assessment and management of pain. Various teaching and learning strategies will allow students to develop and appreciate the understanding of the social, psychological, physical, spiritual and ethical implications of pain.

Pre-Requisites

[[PHA-331]], [[PHA-332]] and [[PHA-421]], P3 standing or consent of instructor.

PHA-503. AND PHA 504 LONGITUDINAL CARE LAB I & II (INTRODUCTORY PHARMACY PRACTICE EXPERIENCE VI AND VII)**Credits: 1**

Students will follow a patient or patients over an extended period of time in a medical or home setting. Pharmaceutical knowledge and skills will be applied in communications, health assessment, monitoring or pharmacotherapy, evaluation of both humanistic and clinical outcomes. Issues of health care, cost access, and quality as revealed through each patient's interaction with health and pharmaceutical care systems will be addressed. Three hours per week. Students are responsible for transportation to and from all off-campus experiential sites.

Pre-Requisites

[[PHA-503]] is the prerequisite for [[PHA-504]].

PHA-505. PHARMACY LAW**Credits: 2****Terms Offered:** Fall

The study of federal and state statutes, regulations and court decisions which control the practice of pharmacy and drug distribution. Civil liability in pharmacy practice and elements of business and contract law will be covered. Lecture: two hours per week.

PHA-506. CONCEPTS IN INFECTIOUS DISEASE**Credits: 2****Terms Offered:** Fall

This course is offered to Fall semester to P3 students and is designed to allow students to explore and develop advanced knowledge and skills related to infectious diseases. This course will be of value to pharmacy students seeking careers in infectious diseases whether it be in ambulatory care pharmacy practice, community pharmacy, long-term care and population health management. Students will be heavily leading the course through presentations, cases and poster presentations. Active learning techniques are used throughout the course to build critical thinking and problem solving skills. Emphasis is placed on the integration of disease states and approaches to practice management. Assignments that engage students in lifelong learning and community engagement are additional features of the course.

Pre-Requisites

P3 standing

Course Descriptions

PHA-509. ECONOMIC EVALUATION OF PHARMACEUTICAL PRODUCTS AND SERVICES

Credits: 3

Introduction to commonly used economic evaluation methods (e.g., cost-minimization, cost-utility, cost-benefit, cost-effectiveness) as applied to pharmaceutical products and services. Quality of life and outcomes research will also be explored. Emphasis is on understanding evaluation methods and research design and interpreting the relevant literature for practice applications. Lecture: three hours per week.

Pre-Requisites

[[PHA-308]] and [[PHA-310]] or consent of the instructor.

PHA-510. GENERAL MEDICINE ADVANCED PHARMACY PRACTICE EXPERIENCE

Credits: 5-6

Integration of the basic pharmacy related concepts to the delivery of pharmaceutical care in general medicine practice. Clinical practice: 40 hours per week for a total of five to six weeks.

Pre-Requisites

Successful completion of P1-P3 curriculum in full.

PHA-511. AMBULATORY CARE ADVANCED PHARMACY PRACTICE EXPERIENCE

Credits: 5-6

Integration of the basic pharmacy related concepts to the delivery of pharmaceutical care in ambulatory care settings. Clinical practice: 40 hours per week for a total of five to six weeks.

Pre-Requisites

Successful completion of P1-P3 curriculum in full.

PHA-512. COMMUNITY ADVANCED PHARMACY PRACTICE EXPERIENCE

Credits: 5-6

Integration of the basic pharmacy related concepts to the delivery of pharmaceutical care in community practice settings. Clinical practice: 40 hours per week for a total of five to six weeks.

Pre-Requisites

Successful completion of P1-P3 curriculum in full.

PHA-513. HEALTH SYSTEM ADVANCED PHARMACY PRACTICE EXPERIENCE

Credits: 5-6

Integration of the advanced pharmacy related concepts to the delivery of pharmaceutical care in the health system setting. Clinical practice: 40 hours per week for five to six weeks.

Pre-Requisites

Successful completion of P1-P3 curriculum in full.

PHA-515. NAPLEX PREPARATION

PHA-521. PHARMACOTHERAPEUTICS VII: PULMONARY DISORDERS*

Credits: 2

This hybrid course is the 7th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of pulmonary diseases.

Pre-Requisites

[[PHA-421]], [[PHA-423]]

Co-Requisites

[[PHA-501]]

PHA-523. PHARMACOTHERAPEUTICS VIII: CARDIOVASCULAR DISORDERS*

Credits: 4

This course is the 8th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of cardiovascular diseases.

Pre-Requisites

[[PHA-421]], [[PHA-423]]

Co-Requisites

[[PHA-501]]

PHA-525. PHARMACOTHERAPEUTICS IX: RENAL DISORDERS*

Credits: 2

This course is the 9th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of renal diseases.

Pre-Requisites

[[PHA-421]] [[PHA-423]]

Co-Requisites

[[PHA-501]]

PHA-526. PHARMACOTHERAPEUTICS X: ENDOCRINE DISORDERS & WOMEN'S/MEN'S HEALTH ISSUES***Credits: 3**

This course is the 10th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of endocrine diseases.

Pre-Requisites

[[PHA-421]] [[PHA-423]]

Co-Requisites

[[PHA-502]]

PHA-528. PHARMACOTHERAPEUTICS XI: NEOPLASTIC DISEASES***Credits: 2**

This course is the 11th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of neoplastic diseases.

Pre-Requisites

[[PHA-421]] [[PHA-423]]

Co-Requisites

[[PHA-502]]

PHA-530. PHARMACOTHERAPEUTICS XII: CENTRAL NERVOUS SYSTEM DISORDERS***Credits: 3**

This course is the 12th of a twelve-module sequence that will integrate pharmacology, medicinal chemistry, pathophysiology and therapeutics. This team taught course is designed to provide students with an opportunity to learn, observe and apply concepts of these four content areas in an integrated manner. Concepts in each of these content areas will be emphasized to provide the necessary information for pharmaceutical management of CNS and mental health disorders.

Pre-Requisites

[[PHA-421]] [[PHA-423]]

Co-Requisites

[[PHA-502]]

PHA-532. INTEGRATIVE MEDICINE AND NUTRITION**Credits: 3**

The purpose of the Alternative Medicine and Nutrition course is to help students learn to integrate nonconventional treatments (natural medicines, manipulation therapy, acupuncture, etc.) into traditional treatment strategies. Additionally, students will learn about nutrition support practices, including enteral and parenteral care.

Pre-Requisites

[[PHA-331]], [[PHA-332]], [[PHA-365]] or consent of the instructor.

PHA-534. INTRODUCTION TO HOSPITAL PHARMACY PRACTICE**Credits: 2**

This course introduces students to the practice of pharmacy within a hospital setting. Topics discussed include the accreditation process for hospitals, career options and residency or fellowship training, medication formulary management, automation and technology in hospital pharmacies, medication calculations, medication safety, clinical pharmacy practice, and sterile product preparation.

PHA-536. PRINCIPLES OF ADVANCED COMMUNITY PHARMACY MANAGEMENT**Credits: 2**

This course is designed to provide a foundation for students interested in pursuing the development and implementation of advanced clinical programs in a community pharmacy. The student will be introduced to principles in pharmacy and fiscal management, professional development, and the management and legal issues relating to clinical pharmacy services. Didactic and active learning techniques will be employed throughout the course and the student will be required to develop a business plan. Lecture two hours per week.

Pre-Requisites

P-2 or P-3 standing or consent of the instructor.

PHA-538. PEDIATRIC PHARMACOTHERAPY**Credits: 2**

This course is designed to expand the students current knowledge base regarding the pediatric population and to introduce the core concepts involved in the care of this special population. The course prepares students to identify and address drug-related problems in pediatric patients and to demonstrate competency within those areas. This will be accomplished by completion of case scenarios, actual patient presentations, and a take-home examination. An on-site visit to the Children's Hospital of Philadelphia (CHOP) is required. Lecture two hours per week.

Pre-Requisites

P-2 or P-3 standing

Course Descriptions

PHA-540. COMPREHENSIVE DIABETES MANAGEMENT

Credits: 3

Terms Offered: Spring

This course provides a multidisciplinary foundation for health professionals in the principles of diabetes management. Students who successfully complete the course will have knowledge and the basic skill set that is needed to begin practicing diabetes management. The majority of this course is independent self-study of online lectures, but there are mandatory on-campus discussions and exams.

Pre-Requisites

Requirement: P-2 or P-3 standing.

PHA-544. MANAGED CARE PHARMACY

Credits: 2

Terms Offered: Spring

This elective is intended to help future pharmacists interested in any area of practice better understand the clinical and business decision-making processes of the health care system. The elective will introduce and reinforce the concepts of population health and value, explore tools available to limit healthcare spending, and discuss unique ways pharmacists can be involved in improving patient care. This course will be offered during the spring semester each year.

Pre-Requisites

P2 or P3 standing.

PHA-552. PRINCIPLES OF BIOORGANIC AND MEDICINAL CHEMISTRY

Credits: 3

This will be an introductory course, the aims of which are to provide the principles of bioorganic and medical chemistry, including an understanding of drug structure-activity relationships, prediction of the physicochemical properties of a drug, basic knowledge of the major pathways of drug metabolism, and factors that can contribute to drug-drug interactions.

Pre-Requisites

[[CHM-231]], [[CHM-232]] or [[CHM-235]], [[CHM-237]]; [[PHA-365]] or [[CHM-365]]

PHA-555. INTRODUCTORY PHARMACY PRACTICE EXPERIENCE IV

Credits: 1-half

This course will provide introductory practice experience to students in the clinical telepharmacy setting. Students will gain a broader understanding of this setting and the role that pharmacists may play. Requirement: successful completion of all required courses in the P3 year, or permission of instructor.

Pre-Requisites

P-3 standing.

PHA-556. ROLE OF PHYTOCHEMICALS ON HEALTH AND DISEASE

Credits: 2

Students will learn the basic concepts and classification of phytochemicals present in our daily diet, followed by the study of specific phytochemicals and their relation to human health and disease. Basic mechanisms and pathways through which phytochemicals act and alter will be discussed. Students will have an opportunity to gain an in-depth understanding of a specific phytochemical of their choice or any other phytochemical designated by the instructor through a research review paper and an in-class presentation.

Pre-Requisites

P-3 standing.

PHA-558. PRINCIPLES OF TOXICOLOGY: FROM BEAKER TO BEDSIDE

Credits: 2

This toxicology elective is designed to provide the student with introductory knowledge of the molecular mechanisms of action and clinical management of poisons. The course will begin with introductory concepts such as history, mechanisms of cell injury and toxicant disposition. The student will then be exposed to the fundamental principles of managing an acutely poisoned patient. Toxicology lectures on each major organ system will prepare students for group presentations. The aims of student presentations will be to achieve a greater understanding of the clinical management of the poisoned patient, and to hone presentation skills. To the extent that is feasible, the course will involve lectures, or other learning experiences, led by external specialists.

The scope of poisons that will be discussed is broad, and includes environmental toxins, industrial toxicants, and drugs. Specific agents will include heavy metals, volatile solvents, common plant toxins, rodenticides, and several drugs. Students may be expected to participate in one laboratory exercise, wherein they will learn a fundamental method to characterize the mechanism and/or extent of cell death induced by a toxicant.

Pre-Requisites

P-2 or P-3 standing or permission of the instructor.

PHA-565. PUBLIC HEALTH CAPSTONE PROJECT SEMINAR

PHA-599. A, B, AND C ELECTIVE ADVANCED PHARMACY PRACTICE EXPERIENCE ROTATIONS

Credits: 5-6

Terms Offered: Fall

Advanced pharmacy practice experience involved in different aspects of pharmaceutical care. (Courses to be determined.) Clinical practice 40 hours per week for a total of five weeks.

Pre-Requisites

Successful completion P-1 - P-3 curriculum in full.

SBL. SBL

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.

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.)

EDSP. SPECIAL EDUCATION

EDSP-501. TEACHING STUDENTS WITH HIGH INCIDENCE DISABILITIES 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. TEACHING STUDENTS WITH LOW INCIDENCE DISABILITIES 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. BEHAVIOR INTERVENTION AND SUPPORT 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. *Categories of assessment will include authentic, formative, summative, diagnostic, and benchmark.* Cooperative discussions will focus on instructional decision-making based upon student learning profiles.

EDSP-505. SECONDARY TRANSITION 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 on-line course is the culminating experience for the Special Education Certification program. Throughout the semester, candidates work with a special education certified teacher and their respective professor as they experience opportunities to apply knowledge and skills gained in previous ED and EDSP courses. Examples of activities include: assessment, IEP development, instructional delivery, involvement in parent/professional meetings, and curricular decision-making. This internship experience requires at least 100 hours in an approved field experience setting to meet the certification regulations set by the Pennsylvania Department of Education.

SUS. SUSTAINABILITY MANAGEMENT CERTIFICATE

SUS-501. INTRODUCTION TO SUSTAINABILITY

Credits: 3

This course serves as an introduction to the concept of sustainability and will investigate why knowledge of sustainability issues and initiatives is an important business management and operational tool. This course is the first in a series of four courses in the Certificate Program in Sustainability Management. There are no pre-requisites for this course.

SUS-502. METRICS OF SUSTAINABILITY**Credits:** 3

Metrics of sustainability are the tools and procedures that are utilized to measure the impact and progress of a sustainability management program. These metrics are important because they enable goal setting and facilitate the adoption of sustainable practices. In this course current sustainability reporting and tracking systems will be studied. This course is the second in a series of four courses in the Certificate Program in Sustainability Management. [[SUS-501]] is a pre-requisite for this course.

SUS-503. SUSTAINABILITY IMPLEMENTATION**Credits:** 3

Students will learn about implementing sustainability management systems through an in-depth study of a manufacturing facility. Key topics to be studied include: setting sustainability goals, development of an environmental policy statement, development of sustainability metrics and sustainability reporting. This course is the third in a series of four courses in the Certificate Program in Sustainability Management. [[SUS-501]] and [[SUS-502]] are pre-requisites for this course.

SUS-504. INDUSTRY-FOCUSED SUSTAINABILITY**Credits:** 3

In this course students will perform an in-depth study of sustainability standards and practices in the context of a specific industry. This course is the last in a series of four courses in the Certificate Program in Sustainability Management. [[SUS-501]], [[SUS-502]], and [[SUS-503]] are pre-requisites for this course.

WILKES UNIVERSITY

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Policy Statement of Nondiscrimination

Wilkes University is committed to providing a welcoming environment for all members of our community and to ensuring that all educational and employment decisions are based on individuals' abilities and qualifications. Wilkes University prohibits discrimination in its educational programs, employment, admissions or any activities on the basis of race, color, national or ethnic origin, age, religion, disability, pregnancy, gender, gender identity and/or expression, sexual orientation, marital or family status, military or veteran status, genetic information, or any other characteristic protected under applicable federal, state or local laws.

Consistent with this principle, Wilkes University will comply with state and federal laws such as the Pennsylvania Human Relations Act or other applicable state law, Title IX, Title VI and Title VII of the Civil Rights Act, the Americans with Disabilities Act, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination in Employment Act of 1967, the Ethnic Intimidation Act of 1982 (P.L. 537-154) and other laws that prohibit discrimination.

As a recipient of federal financial assistance for education activities, Wilkes University is required by Title IX of the Education Amendments of 1972 to ensure that all of its education programs and activities do not discriminate on the basis of sex/gender, including in admissions and employment. Sexual harassment, sexual assault, dating and domestic violence, and stalking are forms of sex discrimination, which are prohibited under Title IX and this Policy.

All members and visitors of the Wilkes University community have the right to raise concerns or make a complaint regarding discrimination under this Policy without fear of retaliation. Inquiries about this Policy statement may be addressed to the University's Title IX Coordinator in person, by mail, by telephone, or by email, using the contact information listed below. A report may be made at any time (including during non-business hours). Anonymous complaints may also be made by clicking [here](#).

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Inquiries about Title IX may be directed to Wilkes University's Deputy Title IX Coordinator, the Assistant Secretary, or both. The Assistant Secretary can be contacted at U.S. Department of Education, Office of Postsecondary Education, 400 Maryland Avenue

S.W., Washington, D.C. 20202, or (800) 421-3481. For further information on notice of non-discrimination, you can find the [address and phone number of the OCR office that serves your area here](#) or call 1-800-421-3481.

Statement of Disclaimer

The statements in this bulletin are for the purposes of information. The University reserves the right to change any provisions or requirements, including tuition and fees, any time within the student's term of residence. No contract is created or implied. Students must fulfill all prevailing degree or program requirements.

Academic Leadership for Graduate and Professional Studies

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Dr. Scott Stolte, Dean, Nesbitt College of Pharmacy
Dr. Deborah A. Zbegner, Dean, Passan School of Nursing

Federal and State Act Compliance

The Wilkes University Police Department (WUPD) prepares, publishes, and distributes this annual report in compliance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (The "Clery Act"). This document is prepared in compliance with Act 73 of 1988 of the Commonwealth of Pennsylvania and the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, 20 USC §1092(f). This report is available in hard copy format upon request, during normal business hours, at the University Police Communications Center, 148 S. Main Street, UCOM Garage; the Office of Admissions, Chase Hall's Reception Area; and the Office of Student Affairs, Passan Hall, second floor. Additionally, an electronic copy of this report is available on the University website at: www.wilkes.edu. In addition, daily logs and crime logs are available for review during normal business hours at the University Police Communications Center. Any questions regarding this report and the specific requirements of the Acts that govern its production can be addressed to Justin Kraynack, Chief of Operations & Compliance, ext. 4554.

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