



GRADUATE CATALOG 2019-2020

Millersville University

COLLEGE OF GRADUATE STUDIES
AND ADULT LEARNING

Millersville University

Graduate Catalog

2019-2020

The provisions of this catalog are not to be regarded as an irrevocable contract between the student and Millersville University of Pennsylvania. The University reserves the right to change any provisions or requirements at any time.

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UNIVERSITY ADMINISTRATION

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Vice President for Student Affairs and Enrollment Management	Brian P. Hazlett, M.A.

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INTRODUCTION

Millersville University

INTRODUCTION

THE UNIVERSITY

Innovation in education is the philosophy of Millersville University. Established in 1855, the University formally began offering master's degree programs in 1959, but prior to that time was involved in graduate education for the Commonwealth. In 1982, the Pennsylvania Legislature passed Senate Bill 506, creating the State System of Higher Education, effective July 1, 1983. On that date, Millersville State College became Millersville University of Pennsylvania.

From its mid-19th-century proportion of one building on seven-and-a-half acres, Millersville University has grown to a 250-acre campus with more than 60 buildings. The landscaped setting has a central pond set within lawns and gardens. The University's modern research facilities, blended with Romanesque Revival structures and late-Victorian wooden frame houses, reflect its integration of contemporary and classical elements of education. Simultaneously innovative and traditional, this setting encourages close faculty-student relationships as an important component of academic and personal development.

ACCREDITATION

Millersville University is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104, phone (267) 284-5000; the Pennsylvania Department of Education; and is approved by the American Association of University Women. Teacher education programs are accredited by the National Council for Accreditation of Teacher Education, and the University is a member of the American Association of Colleges for Teacher Education. The respiratory therapy program is accredited by the American Medical Association Committee on Allied Health Education and Accreditation. The social work program is accredited by the Council on Social Work Education. The music program is accredited by the National Association of Schools of Music. The nursing program is accredited by the National League for Nursing Accrediting Commission. The chemistry program is accredited by the American Chemical Society. The computer science program is accredited by the Computer Science Accreditation Board. The occupational safety and environmental health program is accredited by the Accreditation Board for Engineering and Technology. The industrial technology program is accredited by the National Association of Industrial Technology. The technology and innovation program is in full compliance with the International Technology Education Association/Council on Technology Teacher Education guidelines for technology teacher education. The business administration program is accredited by the Association of Collegiate Business Schools and Programs. The school psychology certification program is accredited by the National Association of School Psychologists. The art program is accredited by the National Association of Schools of Art and Design. The Center for Counseling and Human Development is accredited by the International Association of Counseling Services.

THE COMMUNITY

Millersville is in Lancaster County, the heartland of central Pennsylvania. The adjacent city of Lancaster, a growing metropolitan area, offers extensive shopping centers and excellent restaurants, theaters, and apartment complexes against a backdrop of rich, verdant farmlands. Millersville Borough has blocks of modern residences that share streets with 100-year-old homes; shopping facilities have been constructed without marring the community's essential beauty. The campus is within a two-and-a-half-hour drive of Philadelphia, Baltimore, and Washington, D.C., and a three-and-a-half-hour drive of New York City.

STUDENT BODY

Enrollment at Millersville University is 7,000 students, 945 of whom are graduate students. Graduate students come from several states and foreign countries. The placement and employment rate of graduate students is excellent, exceeding 90 percent in most areas. Education and social service departments devote considerable attention to the placement of graduates. The liberal arts and science departments encourage their graduates to pursue doctoral or research programs.

COMMUNICATING WITH STUDENTS

At Millersville, an important way we keep in touch with our graduate students is through email, and we provide all graduate students with a free Millersville University student email account. Because we use email as an official way of communicating with students, you are required to activate your new Millersville University account and use it regularly, even if you possess another account through Yahoo, Hotmail, AOL or other service. Your Marauder Mail account is automatically generated at the time you register for coursework. Your email address is myVilleID@marauder.millersville.edu. To access your account, go to the University's homepage, click on the myVille link, then click on the Marauder Mail icon. If you need assistance, contact the Help Desk at 717-871-7777.

The College of Graduate Studies and Adult Learning website, available at www.millersville.edu/graduate, is an important resource for graduate students, containing current news and events information, access to the graduate student forms center, contact information for graduate studies staff and department graduate coordinators, financial assistance and research support, and other regularly updated information.



ACADEMIC INFORMATION

Millersville University

GRADUATE CATALOG 2019-2020

UNIVERSITY CALENDAR 2019-2020

FALL TERM 2019

THU	AUG 22	Orientation for new students admitted for Fall 2019 begins
SAT	AUG 24	Orientation for new students admitted for Fall 2019 ends
MON	AUG 26	Fall classes begin
MON	SEP 02	Holiday (no classes)
FRI	SEP 13	Parent and Family Weekend
SAT	SEP 14	Parent and Family Weekend
FRI	OCT 11	Fall recess begins after last class
WED	OCT 16	Fall recess ends at 7:00 a.m.
FRI	OCT 25	Homecoming Weekend
SAT	OCT 26	Homecoming Weekend
TUE	NOV 26	Thanksgiving recess begins after last class
MON	DEC 02	Thanksgiving recess ends at 7:00 a.m.
MON	DEC 09	Last day of classes
TUE	DEC 10	
	Through	Evaluation period (special class schedule)
SAT	DEC 14	
SUN	DEC 15	Commencement; End of Fall Term

WINTER TERM 2020 (5 weeks)

MON	DEC 16	Winter classes begin
SUN	JAN 19	Winter classes end after last final examination
MON	JAN 20	Holiday (no classes)

SPRING TERM 2020

TUE	JAN 21	Spring classes begin
MON	MAR 16	Spring recess begins at 7:00 a.m.
MON	MAR 23	Spring recess ends at 7:00 a.m.
MON	MAY 04	Last day of classes
TUE	MAY 05	
	Through	Evaluation period (special class schedule)
FRI	MAY 08	
FRI	MAY 08	Graduate Studies Commencement
SAT	MAY 09	Spring Baccalaureate Commencement; End of Spring Term

SUMMER 1 TERM 2020 (4 weeks)

MON	MAY 11	Summer 1 classes begin
MON	MAY 25	Holiday (no classes)
FRI	JUN 05	Summer 1 classes end

SUMMER 2 TERM 2020 (5 weeks)

MON	JUN 08	Summer 2 classes begin
FRI	JUL 03	Holiday observed (no classes)
FRI	JUL 10	Summer 2 classes end

SUMMER 3 TERM 2020 (5 weeks)

MON	JUL 13	Summer 3 classes begin
FRI	AUG 14	Summer 3 classes end

FALL TERM 2020

MON	AUG 24	Fall classes begin
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DEGREES AND PROGRAMS

The graduate programs at Millersville University are designed to provide opportunities for post-baccalaureate students to pursue scholarly and research activity, and to obtain knowledge in an advanced field of study. Graduate programs are offered in the following areas:

DOCTOR OF EDUCATIONAL LEADERSHIP

DOCTOR OF NURSING PRACTICE

DOCTOR OF SOCIAL WORK

MASTER OF ARTS

English
History
Languages and Cultures

MASTER OF EDUCATION

Art
Assessment, Curriculum and Teaching
 Online Teaching
 STEM Education
Early Childhood Education
English
Gifted Education
Language and Literacy Education
Leadership for Teaching and Learning
Mathematics
School Counseling
Special Education
Sport Management

MASTER OF SCIENCE

Emergency Management
Integrated Scientific Applications
Nursing
Psychology (Clinical or School)
Technology & Innovation (Education or Enterprise Concentration)

MASTER OF SOCIAL WORK

Social Work
Social Work and Emergency Management (MSW/MSEM Dual Degree)
Social Work and Sport Management (MSW/M.Ed. Dual Degree)

POST-MASTER'S CERTIFICATE

Family Nurse Practitioner
Nursing Education

POST-MASTER'S CERTIFICATION

Elementary and Secondary Counseling (PreK-12)
Principalship
School Psychology

SUPERVISORY CERTIFICATION

Art Education
 Communication (English)
 Curriculum and Instruction
 Early Childhood Education
 Elementary Education
 World Languages
 Mathematics
 Music Education
 Reading Education
 School Guidance Services
 School Health Services
 School Psychological Services
 Science
 Social Studies
 Special Education

GRADUATE CERTIFICATE

Emergency and Disaster Management
 Gifted Education
 Innovation & Entrepreneurship
 Respiratory Care Therapy
 Writing

POST-BACCALAUREATE CERTIFICATION PROGRAMS

Art (K-12)
 Biology (7-12)
 Chemistry (7-12)
 Early Childhood Education (PreK-4)
 Earth and Space Science (7-12)
 English (7-12)
 English as a Second Language–Program Specialist (requires an existing Instructional I certification)
 French (K-12)
 German (K-12)
 Mathematics (7-12)
 Music (K-12)
 Physics (7-12)
 Reading Specialist (K-12) (requires an existing Instructional I certification)
 School Nurse (requires a bachelor's degree)
 Social Studies (7-12)
 Spanish (K-12)
 Special Education
 Technology Education (K-12)

SPECIALIZED CERTIFICATION AND ENDORSEMENTS

English as a Second Language–Program Specialist (requires an existing Instructional I certification)
 Gifted Endorsement
 Online Teaching Endorsement
 Reading Specialist
 STEM Teaching Endorsement
 Letter of Completion in Coaching Education

ADMISSION REQUIREMENTS

ADMISSION POLICY

Admission to a graduate program is granted without regard to race, color, national origin, gender, ancestry, age, handicap, marital status, life-style or religious creed. Admission decisions are based on the applicant's academic abilities and professional disposition reflected in a record sufficiently strong to support confidence that the applicant can participate effectively in the graduate community.

ADMISSION TO A MASTER'S DEGREE PROGRAM

(See the appropriate Academic Program section for additional criteria.)

Admission decisions are based upon a combination of factors that may include grade-point average; official recommendations from those able to critically assess an applicant's ability to succeed in a graduate program; a written statement of goals; standardized test scores; academic preparation for work in the proposed field; the applicant's interests as matched with those of faculty; and, where appropriate, a successful interview.

REGULAR ADMISSION

To be eligible for regular admission, an applicant must have earned a bachelor's degree from a regionally accredited four-year college or university in the United States or equivalent from a similar institution abroad. The applicant must demonstrate, in the opinion of the faculty and the dean of the College of Graduate Studies and Adult Learning, the ability to successfully complete a master's degree and must have achieved at least a 2.75 undergraduate grade-point average in all coursework attempted (unless otherwise specified by the academic program).

PROBATIONAL ADMISSION

Applicants who do not meet the minimum admission requirements, but who show promise of success in a graduate program, will be considered for admission. Such applicants may be admitted on a probational status, based on the departmental recommendation and a favorable review by the dean of the College of Graduate Studies and Adult Learning. Applicants admitted on probational status will have conditions clearly stipulated in an offer of admission letter.

Upon satisfying the probational conditions—and with the favorable recommendation of the department and with the graduate dean's concurrence—the student will be fully admitted and allowed to continue toward degree candidacy. If the student is unable to achieve a 3.0 grade-point average, he/she will be dismissed from the program.

APPLICATION PROCEDURE

Prospective students may apply electronically by visiting the Millersville College of Graduate Studies and Adult Learning website at www.millersville.edu/graduate/admissions/apply/index.php. For an application to be considered complete, the following must also be submitted:

1. A nonrefundable application fee of \$40 payable at the time of submission of the electronic application (*application fee may be paid by check, American Express, Visa, MasterCard or Discover through the electronic application portal*).
2. Official copies of all transfer and undergraduate transcripts and official transcripts of any previous graduate work (*it is not necessary to send Millersville University transcripts*).
3. Three official recommendation forms submitted by professors or others capable of assessing the applicant's potential for success in a graduate program. Academic or supervisory/professional recommenders are preferred.
4. A written statement of academic and professional goals.
5. If required, an official score report for the Miller Analogies Test (MAT), the Graduate Record Examination (GRE), the Graduate Management Admissions Test (GMAT) or the Oral Proficiency Interview (OPI) and Writing Proficiency Test (WPT). See the *Admissions Testing* section for testing requirements by program.
6. Pennsylvania Public School Code requires updated background checks for employees and all persons who come into direct contact with children. All students, including M.Ed., supervisory, nondegree and post-baccalaureate candidates, must submit TB test and current criminal background clearances defined as being within one year of the issue date and extending through the duration of the field placement for any class requiring field experience.
7. Any additional information required by the specific department. Applicants should refer to the appropriate *Academic Programs* section of this catalog for additional individual program admission requirements.

APPLICATION TIMELINES

Master's degrees in School Counseling, School Psychology and Clinical Psychology have application deadlines as follows:

- January 15 for admission beginning fall.
- April 15 for admission beginning fall (on a space-available basis) for those who have missed the January 15 deadline.
- October 1 for admission beginning spring.

Master's degrees in Family Nurse Practice have application deadlines as follows:

- January 15 for admission beginning fall.
- August 1 for admission beginning spring (fall start is on campus of Millersville University; spring start is at the Dixon University Center in Harrisburg).

Master's degrees in Family Nurse Educator has a rolling admission process.

Master of Social Work degree program accepts applications for summer start only; the deadlines are as follows:

- November 30 for early decision.
- February 1 for full consideration applications.

All other graduate programs take applications on a rolling basis (i.e., no official deadline). However, applicants should use the stated deadlines above as a target. Applications take approximately four to six weeks for processing, so late applications may be considered for the following semester. Applicants admitted late on the rolling cycle may miss early course registration and not get their preferred courses in their first semester.

Admission to a master's degree program is contingent on the recommendation of the department in which the student proposes to study. After reviewing the application and supporting materials, the department may recommend regular or probational admission to a degree program. If the department recommends probational admission, the conditions shall be clearly stipulated. In either case, the applicant will be notified of admission status by the College of Graduate Studies and Adult Learning.

ADMISSIONS TESTING

Applicants for some degree programs are required to submit official score reports from an appropriate standardized test. Please note that scores for any test should not be more than five years old at the time of application. Minimum score requirements can be found in the *Academic Programs* section for specific programs. Test requirements by program are as follows:

Art (M.Ed.)	None
Assessment, Curriculum and Teaching (M.Ed.)	GRE or MAT (only if GPA is lower than 2.8)
Early Childhood Education (M.Ed.)	None
Emergency Management (M.S.)	GRE or MAT (only if GPA is lower than 2.8)
English (M.A. & M.Ed.)	GRE or MAT
Gifted Education (M.Ed.)	GRE or MAT (only if GPA is lower than 3.0)
History (M.A.)	GRE (only if GPA is lower than 2.85)
Integrated Scientific Applications (M.S.)	GRE, MAT or GMAT (only if cumulative GPA is lower than 3.0)
Language & Literacy Education (M.Ed.)	GRE or MAT (only if GPA is lower than 3.0)
Languages and Cultures (M.A.)	ACTFL Spanish, German, French (OPI and WPT)
Leadership for Teaching and Learning (M.Ed.)	GRE or MAT
Mathematics (M.Ed.)	None
Nursing (MSN)	None
Psychology (M.S.) School, Clinical	GRE (only if GPA is lower than 3.0)
School Counseling (M.Ed.)	GRE (only if GPA is lower than 3.0)
Social Work (M.S.W.)	GRE or MAT (only if cumulative GPA from all credits is lower than 2.8)
Special Education (M.Ed.)	GRE or MAT
Sport Management (M.Ed.)	GRE, MAT or GMAT (only if GPA is lower than 3.0)
Technology & Innovation (M.S.)	GRE or MAT (only if GPA is lower than 3.0)

The test score is one of several criteria considered in the admissions process. The score alone is not a basis for denying admission. In cases where the score falls below a departmentally established level, an applicant may be asked to repeat the test.

Applicants are encouraged to become familiar with test formats prior to sitting for the examination. Further information can be obtained in the reference section of McNairy Library.

Applicants possessing a master's degree from a regionally accredited institution do not need to submit standardized admission test scores from the MAT, GRE or GMAT. They must submit an official master's degree transcript in addition to the official baccalaureate degree transcript. Note: A master's equivalency does not suffice for a master's degree.

APPLICATION TO A GRADUATE CERTIFICATE OR CERTIFICATION PROGRAM

Applicants interested in a graduate-level certificate or certification program should consult the appropriate *Academic Programs* section for admission requirements that pertain to a specific program. Certification applicants must submit the Graduate Program Admissions Application and applicable supporting documents. See *Application Procedure* section.

APPLICATION AS A NONDEGREE GRADUATE STUDENT

Applicants should seek admission to the nondegree category if they are:

1. undecided about a graduate area of specialization;
2. not interested in a master's degree program;
3. seeking to earn Instructional II teaching certification;
4. interested in a graduate-level workshop, course or seminar; or
5. completing work for transfer to another institution (transient).

Applicants for nondegree studies must have completed a baccalaureate degree from a regionally accredited four-year college or university.

Admission as a nondegree student does not include admission to degree or certification programs. Nondegree students may apply for admission to a degree or graduate-level certification program after having accumulated graduate credits; however, no more than nine graduate credits, in nondegree status, may be transferred to a degree or graduate-level certification program, subject to departmental approval. Courses for transfer from nondegree status into a program must have received a satisfactory grade, and except in the most extenuating circumstances, no transfer credit will be allowed for work completed more than five years prior to admission to a degree or graduate-level certification program.

It is imperative that applicants consult with the graduate program coordinator from their intended discipline to understand what courses are available to nondegree students.

A nondegree student is permitted to register for any graduate or undergraduate course not restricted by the department.

APPLICATION AS A TRANSIENT STUDENT

Those students desiring to take graduate work for transfer to another institution must, at the time of admission, present a statement from the proper official of the school accepting the work in transfer, indicating their satisfactory graduate student status. Transients must also complete the application for admission as a nondegree student. Further, it is the responsibility of transient students to request, in writing, that a transcript of completed work be forwarded to the appropriate institution.

APPLICATION AS AN INTERNATIONAL STUDENT

Millersville University welcomes applications from prospective international students. In addition to satisfying general admissions requirements as stated on the Graduate Program Admissions Application, international applicants must demonstrate proficiency in the Test of English as a Foreign Language (TOEFL). TOEFL score requirements are 500 on the paper-based test, 183 on the computer-based test or 60-80 on the Internet-based test. The TOEFL is administered nationally. In lieu of the TOEFL, English language proficiency may be demonstrated by earning a score of "6" or higher on the International English Language Testing System (IELTS) exam.

Applicants possessing a baccalaureate degree earned at a non-U.S. institution must have official academic credentials sent to a recognized credential evaluation service for a course-by-course evaluation. One such service is World Education Services, Inc., at www.WES.org. The WES ICAP (International Credential Advantage Package) is a service that allows applicants to store their verified academic transcripts with WES and have them delivered to Millersville University together with the credential evaluation report. Applicants who use the WES ICAP service do not need to submit an official transcript to Millersville University from the non-U.S. institution. The WES ICAP service verifies and authenticates the academic transcripts and delivers the transcripts and credential evaluation to Millersville University directly.

Applicants not using the WES ICAP service must submit to Millersville University an official academic transcript in their native language (with English translation) in a sealed envelope from the non-U.S. institution.

International applicants must also complete a financial disclosure form, also known as the Source of Funds.

Because of Pennsylvania teacher certification requirements, international applicants may not be admitted to the following programs: gifted education, language and literacy education, special education and early childhood education.

SEMESTER HOURS

Specific departmental requirements and the student's undergraduate preparation will determine the maximum number of hours for a master's degree; the *minimum* number of semester hours required are as follows:

1. 30 hours of approved graduate work beyond a bachelor's degree, including a thesis or research project; or
2. 33-60 hours of departmentally approved graduate work of an extended course sequence.

Students should consult with their advisor and discuss the specific program requirements in the *Academic Programs* section to ascertain the semester hours required in a particular degree program.

RESEARCH OPTION

The specific regulations pertaining to the research report and/or thesis are determined by the dean of the College of Graduate Studies and Adult Learning and the student's major department.

NONRESEARCH OPTION

Selected programs permit students to complete an extended course sequence (33-60 credits) in lieu of the thesis or research project.

RESIDENCY REQUIREMENT

Students must complete a minimum of two-thirds of their graduate degree or certification program at Millersville University in order to meet residency requirements.

TIME LIMIT

Work for the degree may be pursued over several years, which need not be in succession but must be concluded within a five-year (master's) or seven-year (doctoral) period. The five-year period begins the semester a student is accepted into a degree program. A reevaluation of coursework taken prior to admission to a degree program and an extension of time, usually an additional year, beyond this five- or seven-year limit may be granted by the dean of the College of Graduate Studies and Adult Learning at the request of the student and upon the recommendation of the advisor and graduate program coordinator.

SECOND MASTER'S DEGREE

Students interested in earning a second master's degree at Millersville in the same field must meet all course requirements for the second degree and complete no fewer than 24 semester hours of approved coursework beyond the requirements for the initial degree.

DEGREE REQUIREMENTS

DEPARTMENTAL REQUIREMENTS

Each department has the option of using the degree candidacy process and will describe the specifics of its degree candidacy process. The general evaluation is based on: 1) the student's performance in graduate study to date; 2) in certain departments, the results of a departmental examination; and 3) other criteria appropriate to the field as determined by the department.

If a student is unsuccessful in the initial attempt to earn degree candidacy, he/she may petition the department for a second evaluation. Prior to the second attempt, the student must be advised by the department of the areas in which performance was deficient and of any other factors that were considered in the denial of the student's admission to degree candidacy. The results of the candidacy evaluation will be forwarded to the College of Graduate Studies and Adult Learning.

The final phase of the candidacy process is the development of a program of study for the remaining requirements in the degree program. This program of study should be developed in consultation with an advisor, and copies should be filed in the department.

M.ED. PROFESSIONAL CORE

Master of Education degree programs are designed to enable the student to become highly skilled as a professional practitioner in education. Each M.Ed. curriculum includes a component in the respective subject matter (e.g., art, elementary education, English, etc.) and a common set of courses in the philosophical, psychological and sociological principles involved in teaching and learning.

The professional core is intended to support candidates to acquire the knowledge, skills and dispositions of the Professional Education Unit and the conceptual framework, Communities of Learners. *Thus, core courses should be scheduled early in a student's program.*

Professional Core Requirements:

3 courses (9 credits)

Required Courses

1. EDFN 601 Methods of Research (3)
2. One of the following:
 - PSYC 525 Advanced Developmental Psychology (3)
 - PSYC 526 Advanced Adolescent Psychology (3)
 - EDFN 545 Advanced Educational Psychology (3)
 - PSYC 625 Human Growth and Development (3)
3. One of the following:
 - EDFN 511 Comparative Education (3)
 - EDFN 590 Social Foundations of Education (3)
 - EDFN 603 Philosophy of Education (3)
 - EDFN 604 Education and Public Policy (3)

Faculty in the educational foundations and psychology departments teach the professional core courses. For descriptions of courses with the "EDFN" prefix, see *Educational Foundations* in the *Academic Programs* section; courses with the "PSYC" prefix are listed under *Clinical Psychology*, *School Psychology* and *School Counseling* in the same section.

CERTIFICATION

ADMISSION

Each certification applicant must submit a completed Graduate Studies Admissions Application and supporting credentials to the College of Graduate Studies and Adult Learning. In conformance with Pennsylvania Commonwealth regulations, these will be reviewed by qualified College of Education and Human Services officials. The number, type and level of courses required of individuals seeking post-baccalaureate certification will depend upon the academic and professional background of each applicant. As a generalization of requirements, most certification applicants will need to complete at least the Education Blocks of coursework, consisting of 15-18 semester hours, plus 12 semester hours of student teaching (one full semester). Requirements in the specialty areas will vary from applicant to applicant as a result of each individual's application and transcript review; therefore, no other general curriculum can be noted here. Questions concerning Pennsylvania Commonwealth regulations governing certification should be directed to the Certification Office, 717- 871-7362.

Applicants seeking admission to certification programs with an incoming GPA of less than 3.0 will have to complete the Teacher Certification Access Track (TCAT). Under this provisional status, students must earn a GPA of 3.0 or higher in each of four post-baccalaureate courses comprising the TCAT requirements. Additionally, students may need to meet additional requirements before they will be granted full admission to the post-baccalaureate certification program. Individual requirements will be outlined in the student's letter of admission.

TEACHER CERTIFICATION TESTING

All Millersville University students who complete the requirements for an initial teacher education certificate through a master's degree—or an approved program of post-baccalaureate or postgraduate studies—will be required to take specialty area tests before receiving the certificate. Official test scores must be received by Millersville University directly from the testing agency.

Mandated by the State Board of Education, Commonwealth of Pennsylvania, these tests must be passed to qualify for Instructional or other Professional Personnel Certificates.

INSTRUCTIONAL I CERTIFICATION

Instructional I certification is required for entry into a teaching position in Commonwealth of Pennsylvania schools.

Applicants interested in earning teacher certification, whether in addition to certification obtained through an undergraduate teacher education program or as a supplement to a liberal arts baccalaureate program, should contact the Certification Office, 717- 871-7362.

INSTRUCTIONAL II CERTIFICATION

Requests for Instructional II certification are made directly by in-service teachers to the Pennsylvania Department of Education at 333 Market Street, Harrisburg, PA 17126-0333; 717-787-3356.

Those planning to satisfy continuing professional education requirements at the graduate level are encouraged to consider a master's degree program. Through academic advisement and careful development of a program of study, teachers can simultaneously pursue certification and a master's degree.

Teachers interested in completing Instructional II certification requirements at the graduate level must contact the College of Graduate Studies and Adult Learning for admission information.

ESL CERTIFICATION

Millersville University is an approved provider of a Program Specialist-ESL certificate program. Persons who have a valid Pennsylvania Instructional I or Instructional II certificate and have enrolled in and completed the Millersville University ESL program are eligible to receive ESL add-on certification from the Pennsylvania Department of Education.

EDUCATIONAL SPECIALIST I CERTIFICATION

Educational Specialist I certification is required for entry into guidance and school psychology positions in Commonwealth of Pennsylvania schools. An Educational Specialist II certificate is acquired through the recommendation of the school district superintendent.

SUPERVISORY CERTIFICATION PROGRAM

PROGRAM COORDINATORS

Art Education

Leslie Gates, Ph.D.

Curriculum and Instruction (K-12)

Jason Petula, Ph.D.

Music Education

Mícheál Houlahan, Ph.D.

Reading Education

Aileen P. Hower, Ed.D.

School Guidance Services

Nadine Garner, Ed.D.

School Health Services

Barbara Zimmerman, Ph.D., R.N.

School Psychological Services

Amelia Lopez, Ph.D.

Single Subject Area

Jason Petula, Ph.D.

Communications (English)

World Languages

Mathematics

Science

Social Studies

Special Education

Richard Mehrenberg, Ph.D.

A post-master's program in educational supervision is offered for the experienced educator in the areas of art, communication (English), curriculum and instruction, elementary education, world languages, mathematics, music, reading, school guidance services, school health services, school psychological services, science, social studies and special education.

The supervisory certification program prepares experienced school personnel to assume leadership roles in an educational setting. This program, offered on a post-master's level, complies with the Commonwealth's certification mandate for educational supervisors and meets Supervisory I Certification requirements.

Admission Requirements

Eligible applicants should contact the appropriate coordinator at the time they apply to the program.

The standard degree application must be completed: three letters of recommendation, a professional goals statement and an official transcript of undergraduate and graduate work. Miller Analogies Test and Graduate Record Exam scores do not need to be submitted.

The application materials will be evaluated by the appropriate department, and an admission recommendation will be forwarded to the College of Graduate Studies and Adult Learning.

Applicants must hold *Instructional II* certification in the subject area in which the supervisory certification is sought and have earned a master's degree (or be pursuing one concurrently).

Applicants for School Health Services must hold a "Specialist II" in school nursing certification and have earned a master's degree.

Note: Before supervisory certification is granted, five years of appropriate experience is required.

For supervisory certification in reading, five years of instruction in a literacy setting is required.

THE PROGRAM

The program consists of 15 credits, including three core courses and a 6-credit field experience. In exceptional cases, an approved substitution may be made for one of the core courses.

Required Courses

EDSU 700 Functions of Supervision (3)

EDSU 701 Administrative Aspects of Supervision (3)

EDSU 703 Curriculum and Supervision (3)

EDSU 799* Applied Supervision (Department Field Experience) (6)

These courses do not need to be taken in order; however, EDSU 700, EDSU 701 and EDSU 703 should be completed before beginning EDSU 799.

The field experience demands a high degree of cooperation between the University and the school where the student is employed or assigned. The student is supervised by a faculty member from the department/area in which the certificate is sought. It is important that the candidate give due consideration to this aspect of the program, since in some cases it may be necessary for the student to take a sabbatical or leave of absence in order to meet the requirement of the field experience.

Consult the appropriate department section in this catalog for a description of field experience. Field experiences vary, but generic competencies apply to all program areas. These include:

1. Knowledge of recent research and application of basic research tools and techniques to problems encountered in supervisory positions.
2. The ability to work with paraprofessionals, teachers, student teachers and the auxiliary staff.
3. Skill in curriculum planning and evaluation.
4. Ability to coordinate supporting services to the major curriculum components, such as speech therapy, dental hygienist, and home and school visitors.
5. Ability to review and assess various curriculum needs and recommend changes as deemed necessary.

COURSE DESCRIPTIONS

EDSU 700 Functions of Supervision (3) Interpersonal processing, data gathering in analysis of classroom teaching, simulation, microteaching, staff development, in-service program development and staff selection.

EDSU 701 Administrative Aspects of Supervision (3) Administrative theory, budget development and school finance, certification, teachers' and students' rights and responsibilities, school law, tenure and collective bargaining.

EDSU 703 Curriculum and Supervision (3) Describe and analyze a curriculum plan, formulate a set of criteria for evaluating a curriculum plan, study roles of various persons in curriculum planning. Identify and evaluate characteristics, features and trends of education programs on levels K-12.

(*) 799 Applied Supervision (6) A one- or two-semester arrangement for a total of 6 credits for any of the content areas listed as follows:

(*) ART 799 Applied Supervision: Art Education (6) A field-based experience to develop the candidate's leadership abilities, articulation of philosophy of art education, and supervisory competencies. Activities may include curriculum and staff development, budgeting and the public relations function, among others. Prereq: EDSU 700, 701 and 703. Offered as needed.

(*) SCCN 799 Applied Supervision: Guidance Services (6) A field-based experience designed to develop the candidate's leadership abilities in the implementation and supervision of comprehensive developmental guidance programs. The American School Counselor Association National Model provides guidelines for supervision. Prereq: EDSU 700, 701 and 703.

(*) EDCI 799 Applied Supervision: Curriculum and Instruction K-12 (6) A field-based experience designed to develop the candidate's leadership abilities K-12. Comprehensive involvement in on-site activities, including classroom observations K-12, required research, policy and skill competencies. Specific activities include the demonstration of effective communication, staff development, budgeting and the ability to integrate curriculum across disciplines K-12, in addition to other activities at the elementary and secondary levels. The field experience demands a high degree of cooperation between the University and the school where the student is employed or assigned. Prereq: EDSU 700, 701 and 703.

(*) **EDSU 799 Applied Supervision: Single Subject Area (6)** Required field experience for those seeking supervisory certification in English, world languages, mathematics, science or social studies. The student submits a work/study proposal which must include a unit of work involving the observation and supervision of teachers and selected other units of work from such areas as scheduling, budget preparation, staff development, curriculum, community relations, etc. All proposals must be approved by the Department of Educational Foundations and sanctioned by the administration of the school where the field experience is to occur. Prereq: EDSU 700, 701 and 703.

(*) **ELED 799 Applied Supervision: Elementary Education (6)** Internship in supervision to take place in schools or educational situations under the direction of the graduate faculty of the Department of Early, Middle and Exceptional Education. Prereq: EDSU 700, 701 and 703.

(*) **MUSI 799 Applied Supervision: Music Education (6)** A clinical field experience through which candidates demonstrate a variety of competencies under practical clinical conditions. Prereq: EDSU 700, 701 and 703.

(*) **NURS 799 Applied Supervision in School Health Services (6)** Provides field experiences in a school setting, with emphasis on the comprehensive role of school health services supervision—in particular, methods for personnel evaluation, observing and supervising school health personnel budget, staff in-service development, health curriculum evaluation and school health program assessment/revision, and community relations. Prereq: EDSU 700, 701 and 703.

(*) **PSYC 799 Applied Supervision: Psychological Services (6)** Provides a field experience in the various activities performed by the supervisor of psychological services. The student is placed with a supervisor of psychological services who, in cooperation with University personnel, plans a relevant program of practical experiences for the intern, based on the comprehensive role of the supervisor of psychological services. Prereq: permission of director of school psychology and EDSU 700, 701 and 703.

(*) **RDED 798 Advanced Theoretical Pedagogy of Reading (3)** Advanced theoretical pedagogy of reading and the supervision of literacy instruction. Principles of supervision and progressive discipline; principles of staff development; evaluation of staff development and curriculum auditing practices. Site-based supervision of staff development and coaching. Prereq: EDSU 700, 701 and 703. Offered periodically.

(*) **RDED 799 Applied Supervision: Reading Clinic (3)** Supervision of teachers working in a classroom and in a reading clinic, complete with observations and follow-up conferences. Written case reports on teachers supervised will be required. Prereq: EDSU 700, 701 and 703. Offered periodically.

(*) **SPED 799 Applied Supervision: Special Education (6)** Provides prospective supervisors with field experience and problems encountered in the schools. Emphasis is upon defining and identifying pupils in all areas of exceptional ability, planning and operating a comprehensive special education program, and on techniques in assisting teachers in evaluating and improving their curricula and their teaching techniques. Prereq: EDSU 700, 701, 703 and SPED 681.

PROFESSIONAL DEVELOPMENT FOR EDUCATORS

In addition to our graduate degree programs, Millersville University offers graduate-level professional development opportunities for educators. Through Summer Institutes for educators, certificate programs, and other customized learning opportunities and partnerships, Millersville University faculty provide timely, convenient, professional development options of the highest quality for Pennsylvania educators. Our offerings, grounded in the 21st-century pedagogical principles, meet educators' needs by integrating a theoretical foundation and research-based practical strategies to apply in classrooms. Professional development is offered on campus, on-site in district and intermediate units, and via technology—either all online or a blend of in-class meetings and online. For more information about professional development opportunities for educators, please contact the College of Graduate Studies and Adult Learning at 717-871-4723 or at profdev@millersville.edu, or visit the website at www.millersville.edu/graduate/programs/educators.

NONCREDIT PROGRAMS

The College of Graduate Studies and Adult Learning (CGSAL) is the administrative hub for graduate studies, including admissions, preadmissions and nondegree student advisement. CGSAL offers doctoral degrees and over 50 master's degrees as well as professional certifications across a wide variety of arts, science, education and other professional disciplines. Programs and course offerings are tailored to the educational needs and lives of adult learners. CGSAL also offers a wide variety of noncredit programs for adult learners, businesses, industries, schools and various agencies through Educator Source, the Nonprofit Resource Network and the Corporate University. Courses can be designed to meet the specific needs of clientele. Corporate University works with companies to facilitate their access to training grant funds.

The Corporate University at Millersville provides customer-focused professional development opportunities designed to enhance the effectiveness of the individual and the organization. With a focus on leveraging industry/government partnerships, we pledge to help strengthen the region's workforce. The Certified Public Manager® program is a nationally accredited comprehensive management development program open to managers in federal, state and local government agencies and nonprofit organizations. The program's primary goal is to improve the performance of public-sector managers and the organizational performance of state, local and federal governments. For information, contact the Corporate University, with offices conveniently located in Millersville, Harrisburg and Lancaster, at 717-871-7642 or corpu@millersville.edu.

The Nonprofit Resource Network at Millersville enhances the effectiveness of nonprofit organizations by providing professional development, networking opportunities and access to critical information resources. For information, contact the Nonprofit Resource Network, with offices conveniently located in Millersville, Harrisburg and Lancaster, at 717-871-7178 or nrninfo@millersville.edu.

ACADEMIC POLICIES

STUDENT RIGHTS AND RESPONSIBILITIES

Upon admission to a graduate studies program, the student assumes responsibility for knowing program requirements and following established procedures. Conversely, the student has the right to expect that all program requirements will be made clear and that all course requirements, including grading criteria and procedures, will be made known. The student has the right to instruction that encourages the free and open discussion of ideas and which respects reasonable student needs and aspirations. It is the student's responsibility to contribute to classroom decorum and an atmosphere that encourages maximum learning. Further, each student is entitled to academic advisement but must initiate the advisement process by scheduling appointments with either the graduate program coordinator in the case of degree admission, or with the dean of the College of Graduate Studies and Adult Learning in the case of nondegree admission status.

ADVISEMENT

Each student is assigned a faculty advisor upon admission to a graduate program. It is the student's responsibility to initiate contact with that advisor to develop an initial program of study and to meet with him/her prior to each registration period. It is the responsibility of the advisor to provide academic counseling in light of program requirements and the student's personal and professional goals.

ACADEMIC STANDING

Graduate degree students are required to maintain a 3.0 grade-point average. A student who fails to meet the scholarship standards may be dismissed from a graduate degree program. If a student falls below a 3.0 average, he/she will be placed on probation. Failure to raise the grade-point average to a minimum of 3.0 during the next semester in which the student is enrolled will result in dismissal from graduate studies at Millersville University. (Summer is considered a semester.)

Graduate students who earn two grades of C+, C or C-, or any combination thereof, will receive an academic warning, regardless of GPA. Earning a third grade of C+, C or C- will result in academic dismissal regardless of GPA. This includes any courses which have been repeated and replaced with a higher grade. A C+, C or C- grade earned at Millersville University may not be made up at another institution of higher learning for the same course.

A graduate student earning an F grade in any course will be dismissed from graduate study at Millersville University. An F grade earned at Millersville University may not be made up at another institution of higher learning for the same course.

Individual departments may have scholarship requirements beyond this minimum level; students should consult their advisor and the *Academic Programs* section of the catalog.

ACADEMIC DISMISSAL AND APPEAL

Students may appeal dismissal to the Graduate Academic Appeals Committee (GAAC). Students who have been dismissed and believe specific, unusual circumstances affected their academic performance may request a review by writing a letter of appeal to the GAAC. For the appeal to be considered before the next semester, it must be received by the committee by the date specified in the notice of dismissal. Information and forms regarding graduate appeals may be found at www.millersville.edu/graduate or by calling 717-871-4723. After GAAC's decision, if an appellant believes the appeal process was not administered as prescribed herein, the appellant may pursue an appeal of the process, but not the academic decision, in writing, to the dean of the College of Graduate Studies and Adult Learning. Such an appeal must be made within 10 business days from the date of the decision letter from the chairperson of the GAAC. The appellant is advised to provide as much written documentation as possible, describing why the process was not administered as prescribed herein, and any supporting materials. The decision of the dean of the College of Graduate Studies and Adult Learning regarding the process appeal is final and not subject to further review.

Any student who is dismissed from the University for poor academic performance may apply to be readmitted to their academic program one calendar year from the date of the dismissal, provided it is their first dismissal. A student may only appeal for reinstatement one time. Upon the second dismissal the student may not appeal and is no longer eligible for admission to any Millersville University graduate program.

GRADUATE GRADING POLICIES

Regular Graduate Courses

Graduate-level courses are those regular courses taught at the 500, 600, 700 and 800 levels. Undergraduate courses (100-400 level) may not be counted for credit in a graduate degree program.

Each instructor establishes his or her own grading policy and states it clearly and in writing at the beginning of the course. Appropriate learning outcomes and measurement systems are built into each course structure to evaluate each graduate student's achievement. Instructors in dual-numbered courses (courses that have cross-listed undergraduate and graduate sections) will clearly differentiate the undergraduate assignments, grading systems and other relevant instructional methods in writing at the beginning of the semester.

The grade-point average (GPA) is a comprehensive evaluation of a student's academic standing. The letter grades used in graduate-level courses and their associated grade-point values are as follows: A (4.0), A- (3.7), B+ (3.3), B (3.0), B- (2.7), C+ (2.3), C (2.0), C- (1.7) and F (0.0). In addition, grades of H (Honors), P (Pass), W (Withdrawal), I (Incomplete) and AU (Audit) may also be used. Grades of H, P, W, I and AU are not used in computing the grade-point average. Grade-point average will be rounded to two places.

University policy accepts a C as minimum earned credit. Individual departments may have scholarship requirements beyond this minimum level; students should consult their advisor.

The *semester GPA* is the number of grade points earned in Millersville courses in a semester divided by the number of credits in the semester for which grades calculated in the GPA were earned. Grade points for *each course* are calculated by multiplying the grade-point value by the number of credits for the course.

The *cumulative GPA* (CGPA) is the total number of grade points earned in Millersville courses divided by the number of Millersville GPA credits. Credits from audited courses, subsequently repeated courses and transfer credits are not included in the CGPA.

Incomplete Grades

A student, upon consultation with the instructor, may receive a grade of Incomplete. The student has the responsibility to complete the appropriate work as outlined by the instructor by the end of the following regular term. In the case of research reports and theses, the grade of Incomplete must be resolved within one calendar year. If a change of grade is not made by the instructor to indicate completion of requirements in the appropriate time span, the grade will be changed to an F. Under extenuating circumstances, the student may petition the dean of the College of Graduate Studies and Adult Learning, with the recommendation of the instructor, for an extension of time to complete the course or research requirements.

Dissertations, Theses, Research Reports/Projects and Practicum Courses

These are evaluated on the basis of H (Honors), P (Pass), F (Fail) or I (Incomplete).

GRADUATE RECORDS POLICIES

Change of Curriculum or Degree Status

Students wishing to change admission status or curriculum must initiate the process by completing the appropriate forms available at www.millersville.edu/graduate/currentstudents/forms-center or in the College of Graduate Studies and Adult Learning, Lyle Hall. Additional admission requirements may apply to these changes; further, curriculum and degree status changes must be approved by both the dean of the College of Graduate Studies and Adult Learning and the student's department(s).

For post-baccalaureate certification students, a new application must be submitted for students to be reevaluated in a new area of certification.

Change of Name and Address

It is the responsibility of each student to provide accurate and current information for all University records. Address changes may be completed by students online through their MAX account, or by sending notice to the College of Graduate Studies and Adult Learning. Students must submit official documentation (copy of marriage license, divorce decree, etc.) to the College of Graduate Studies and Adult Learning for a name change to be made.

Transcripts

A student or graduate wishing to obtain an official copy of her/his academic record must request a transcript using the online Credentials Service accessible through the Millersville website or complete the form available in the registrar's office, Lyle Hall. Forms are also available on the Millersville University website, Student Forms Center. If the requester wishes to obtain an official copy for a third party, the requested transcript must be sent directly to the designated third party or requested in a signed, sealed envelope. There is a \$10 fee per transcript when ordered directly from the University's registrar's office.

Graduation

Students who plan to graduate at the end of any semester must make application for graduation by the deadline published. A \$30 graduation fee is charged. A student who applies for graduation but does not complete degree requirements by the anticipated date must reapply in the semester when he/she does expect to graduate. Students are billed by the bursar for the graduation fee. Additional details and appropriate forms are available on the Millersville commencement web page at www.millersville.edu/commencement.

COMMON POLICY FOR COMPREHENSIVE EXAMS

Comprehensive exams are a common method for assessing students' mastery of core learning objectives in graduate programs. At Millersville, graduate programs have the option of using graduate comprehensive examinations, so students should be aware of their own graduate program's policy and timeline. Several graduate programs use the comprehensive exam as a means to advance to degree candidacy early in their program, while others use the exam as a culminating evaluation at the end of the program.

For those programs that require an exam as a method of comprehensive evaluation, the following guidelines have been developed by the Graduate Curriculum and Program Review Committee.

Registration and Administration

Comprehensive exams are generally administered on or about the 12th week of the fall and spring terms (November and March) and in the third summer session (July-August). Some programs may not offer their comprehensive exam all three times a year, so it is important to check with the program coordinator. Registration is generally required six weeks prior to the test date; students should check with individual programs for forms and specific dates.

Grading

A committee and/or faculty member from the appropriate program will grade comprehensive exams on a pass/fail (P/F) basis. There is also the opportunity for a grade of passing with honors (H) to be awarded.

Failure and Reattempts

If a student fails a comprehensive exam, or any part thereof, they must retake the exam, or the sections they failed, per their graduate program's policy. If a student fails to successfully pass the exam a second time, a third attempt may be permitted upon approval of the program coordinator and/or department graduate committee. Prior to the third attempt, the student should examine, with the assistance of an advisor or coordinator, their preparation for the exam and any measures that could be taken to improve performance. The third attempt at a comprehensive exam is considered final, and failure to pass will result in dismissal from the graduate program.

POLICIES GOVERNING GRADUATE COURSES

ACADEMIC PETITION

Students who believe that an academic injustice has occurred must try to resolve the problem at the lowest appropriate level of authority. The levels of authority from lowest to highest are as follows: individual faculty member; department graduate coordinator and department graduate committee (if existing); department chairperson; dean of the College of Graduate Studies and Adult Learning; and lastly, the Provost/Vice President for Academic Affairs. The case should be presented to progressively higher levels of authority until resolved.

ACADEMIC HONESTY POLICY

Students of the University are expected to be honest and forthright in their academic endeavors. To falsify the results of one's research; to steal the words or ideas of another; to cheat on an examination; or to allow another person to commit, or assist another in committing, an act of academic dishonesty corrupts the essential process by which knowledge is advanced.

Actions that Violate the Academic Honesty Policy

The below lists are for illustration only. They should not be construed as restrictive or exhaustive enumeration of the various forms of conduct that constitute violation of the Academic Honesty Policy.

Plagiarism

Plagiarism is the inclusion of someone else's words, ideas or data as one's own work. When an individual submits work that includes the words, ideas or data of others, the source of that information must be acknowledged through complete, accurate and specific references, and if verbatim statements are included, through quotation marks or other accepted citation practices. By placing his/her name on a scholarly product, the student certifies the originality of all work not otherwise identified by appropriate acknowledgments. Plagiarism would thus include representing as one's own any academic exercise (e.g., written work, computer program, sculpture, etc.) prepared totally or in part by another. An individual will avoid being charged with plagiarism if there is an acknowledgment of indebtedness whenever one:

1. quotes another person's actual words;
2. uses another person's ideas, opinions or theories, even if they are completely paraphrased in one's own words;
3. borrows facts, statistics or other illustrative materials, unless the information is common knowledge.

These guidelines should be followed for all source types, including books, newspapers, pamphlets, journal articles, websites and other online resources. The above lists are for illustration only.

Fabrication

Fabrication is the falsification of research or other findings. The below lists are for illustration only:

1. Citation of information not taken from the source indicated.
2. Listing in a bibliography sources not actually consulted.
3. Inventing data or other information for research or other academic projects.

Cheating

Cheating is the act or attempted act of deception by which an individual tries to misrepresent that he/she has mastered subject matter in an academic project or the attempt to gain an advantage by the use of illegal or illegitimate means. The below lists are for illustration only:

1. Copying from another student's test paper.
2. Allowing another student to copy from one's test paper.
3. Using the course textbook, or other material such as a notebook, brought to class meetings but unauthorized for use during a test.
4. Collaborating during a test with another person by receiving or providing information without the permission of the instructor.
5. Using or possessing specifically prepared, unauthorized materials during a test (e.g., notes, formula lists, formulas programmed into calculators, notes written on the student's clothing or person).

Academic Misconduct

Academic misconduct is the violation of University policies by tampering with grades or participating in the distribution of any part of a test before its administration. The below lists are for illustration only:

1. Stealing, buying or otherwise obtaining all or part of an unadministered test.
2. Selling or giving away all or part of an unadministered test, including answers to an unadministered test.
3. Bribing, or attempting to bribe, any other person to obtain an unadministered test or any information about the test.
4. Buying, or otherwise acquiring, another's course paper and submitting it as one's own work, whether altered or not.
5. Entering a building, office or computer for the purpose of changing a grade in a grade book, on a test or on other work for which a grade is given.
6. Changing, altering or being an accessory to changing and/or altering a grade in a grade book, on a test, on a "Change of Grade" form or other official academic University record which relates to grades.
7. Entering a building, office or computer for the purpose of obtaining an unadministered test.
8. Continuing to work on an examination or project after the specified allotted time has elapsed.
9. Taking a test or course for someone else or permitting someone else to take a test or course in one's place.
10. Giving or taking unauthorized aid on a take-home exam or paper.
11. Submitting work for a class that was already submitted for another class, when unauthorized, or allowing another student to submit or copy from your previously submitted class work.

What Can Students Do to Protect Themselves from Being Charged with Violations of the Academic Honesty Policy?

1. Prepare thoroughly for examinations and assignments; this also implies attending class on a regular basis.
2. Take the initiative to prevent other students from copying your exams or assignments (e.g., shield your answer sheet during examinations; don't lend assignments to other students for them to copy and turn in).
3. Check your instructor's course syllabus for a section dealing with academic dishonesty for that course and information on what style sheets or standards manuals to use, and so forth. If you can't find such a section, ask the instructor about expectations in this area. Instructors should issue clear guidelines at the beginning of a course as to what constitutes dishonesty; ultimately, however, it is the student's responsibility to clear up any uncertainties ahead of time.
4. Don't look in the direction of other students' papers during examinations.
5. Use a recognized handbook for instruction on citing source materials in papers. Consult with individual instructors or academic departments when in doubt.
6. Make use of tutorial services, or other services that may be available, to assist in preparing papers and completing other course assignments properly.
7. Discourage dishonesty among other students.
8. Refuse to assist students who cheat.

Actions Which May Be Taken for Violation of the Academic Honesty Policy

When a faculty member suspects that an act of academic dishonesty has occurred, he/she will meet with the student to:

1. discuss the alleged act;
2. hear any defense the student may have;
3. discuss any proposed academic sanctions;
4. inform the student of his/her right to appeal faculty-imposed sanctions to the department chair and/or dean of the College.

Academic sanctions that may be imposed by the faculty member include:

1. a verbal reprimand;
2. a written reprimand;
3. requiring the student to redo/resubmit the assignment, test or project;
4. lowering the grade for the assignment, test or project.

Academic sanctions that require a formal charge to be filed with the associate provost for Academic Administration include:

1. any sanction in excess of lowering the grade for an assignment, test or project;
2. failing the student for the course;
3. recommending temporary or permanent suspension from the academic major or University.

Faculty members are encouraged to submit a report for each violation of the Academic Honesty Policy to the associate provost for Academic Administration regardless of the academic sanction imposed or requested. If more than one such report is filed for a student, even in the case of sanctions imposed only by the faculty member, then the associate provost for Academic Administration will meet with the student to discuss these occurrences and possibly impose additional academic sanctions.

Confidentiality

In accordance with the provisions of the Family Educational Rights and Privacy Act of 1974, any information relating to an alleged violation of the University's Student Code of Conduct or to the outcome of a judicial hearing must be treated as strictly confidential by members of the faculty.

AUDITING

Students who audit must be officially admitted to the University. With the consent of the dean of the College of Graduate Studies and Adult Learning and the instructor, a student may be permitted to register for any course as an auditor if space is available. An auditor is registered and required to attend at least half of the sessions but is not required to participate in any of the work of the course. No credit toward a degree is issued for an audited course. A student enrolled as an auditor may be dropped from the course when in the judgment of the instructor and the dean of the College of Graduate Studies and Adult Learning such action is justified. A student shall pay the regular graduate course tuition and fees for the privilege of auditing. To register to audit a course, contact the registrar's office, Lyle Hall, for information and a permission form, and submit it by the end of the add period. Audit privilege may not be changed to credit status. Audit privileges are ordinarily limited to one course per semester. A student who has audited a course may, with the advisor's and the appropriate graduate program coordinator's permission, repeat that course for credit. The student must register again for the course and remit the appropriate tuition and fees.

GRADUATE-LEVEL COURSES FOR UNDERGRADUATES

Well-qualified Millersville University undergraduates may enroll in graduate courses for undergraduate or graduate credit. Specified conditions apply to each of these two credit alternatives:

1. Undergraduates may enroll in 500-level graduate courses for undergraduate credit with permission of the instructor and advisor. The credits earned count toward baccalaureate degree requirements and cannot be converted to graduate credits.
2. An undergraduate with an overall 3.0 GPA or higher may enroll in 500- and 600-level graduate courses for graduate credit. The student must have a maximum of 15 semester hours to be completed in the baccalaureate degree program. Written permission must be acquired from the advisor, the course instructor, the graduate program coordinator and/or chair of the department offering the course, and the dean of the College of Graduate Studies and Adult Learning. The undergraduate will also need to be admitted as a nondegree graduate student. A maximum of nine graduate credits may be earned by an undergraduate. These credits may not count toward the completion of the student's baccalaureate degree.

GRADUATE COURSEWORK OUTSIDE MAJOR FIELD

A student may elect up to, but not more than, six semester hours of work in a discipline outside the major field, provided the courses elected are approved by the advisor and graduate program coordinator. Required professional core courses (M.Ed. programs) are not included in this limit.

REPEATING A GRADUATE COURSE

Graduate students may repeat an individual course only once for grade improvement. Transcripts will reflect grades each time the course is taken. Only the most recent grade and credits will be counted in the cumulative GPA.

Graduate students may repeat an individual course not designed to be repeatable only once for grade improvement.

WITHDRAWAL FROM A COURSE

A student may withdraw from a course, provided he/she conferred with both the course instructor and his/her advisor and has filed a course withdrawal form, which is available at the registrar's office.

The notation made on a student's record about a withdrawn course depends on when the student withdraws. Students who "drop" a course by the end of the first week of classes in spring or fall semesters have all references to that course deleted from their records. Drop periods for summer and winter courses will be determined by the registrar's office.

Students will be permitted to withdraw from a course and receive a grade of "W" up until the end of the 10th week of the semester. The W grade does not carry any grade points and will not be calculated in the student's GPA. There will be no limit on the number of courses from which the student may withdraw. After the 10th week of the semester and through the last day of classes, students who withdraw will receive a non-W grade, which will be determined by the instructor consistent with University policy.

The official date of withdrawal is the date the withdrawal form is submitted with proper signatures to the registrar's office. Deadlines for returning the form are strictly enforced. It is the student's responsibility to obtain all required signatures (both course instructor and advisor) in time to meet the deadline.

Failure to withdraw from a course properly may result in additional tuition fees as well as a failing grade. For example, a student who does not attend a class but only submits a withdrawal form during the second week of class may be subject to additional tuition for that two-week period.

Withdrawal periods will be determined by the registrar's office and be prorated for summer, winter and out-of-term courses.

To withdraw from a course, contact the registrar's office, Lyle Hall, for an appropriate form, or obtain a form on the web in the Student Forms Center.

DROP/ADD POLICY

Schedule Adjustment

- Students may drop or add courses by web from the early registration period until the start of the term. Prior to the first day of classes, faculty signatures are not required to drop or add a course.
- It is the student's responsibility to make official changes to his/her class schedule. There is no automatic drop policy for nonattendance.
- For fall and spring terms, students may drop or add courses online from the early-registration period until 11:59 p.m. EST the day before the second week of classes begins.
- For courses that meet for portions of the fall and spring terms, the registrar will determine equivalent dates for the no-grade, W-grade and regular-grade periods.
- During the summer and winter sessions, the registrar will determine equivalent dates for the no-grade, W-grade and regular-grade periods.

FREQUENCY OF COURSE OFFERINGS

- When a course is always offered in fall, spring and summer, no notation is shown.
- When a course is listed as "Offered in...", it is offered only in the semesters noted.
- When a course is listed as "Offered periodically," it is offered on an irregular or as-needed basis.
- When a course is listed as "Offered infrequently," the course has not been offered for two years and will not be offered for two more years.
- When a course is listed as "Offered annually," the course is taught in either spring or fall.

TRANSFER-OF-CREDIT POLICY

Credits Prior to Admission at Millersville

Students must request approval from their department and the dean of the College of Graduate Studies and Adult Learning for the transfer of graduate credit completed at a regionally accredited institution prior to admission to Millersville. Forms for the approval of transfer credits are available in the College of Graduate Studies and Adult Learning, Lyle Hall, or at www.millersville.edu/graduate/current-student-resources/forms-center.php. The student must arrange for this office to receive official transcripts directly from the institution at which the graduate work was taken. Transfer credit may amount to a maximum of nine credit hours from other accredited institutions, subject to completion of the residency requirement, and is subject to the time limit for the completion of all degree requirements. Except in the most extenuating circumstances, no transfer credit will be allowed for work completed more than five years prior to admission to Millersville University.

All work recommended by the department for transfer credit must be taken in a regular program of studies offered by a four-year, regionally accredited institution on its main campus, at an established center or by the institution's distance-education program. Grades of B- or higher (or documented equivalency) must be achieved in these courses. (Documented equivalency is confirmed with the originating institution by the graduate coordinator of the program of the degree-seeking graduate student.) Requested transfer course grades must come from an accredited graduate program, some of which only give grades of P/F; these exceptions to the transfer-of-credit policy can only be requested in writing by the graduate coordinator of the student's program. Extension work and courses offered in a nonacademic institutional setting

are not considered appropriate for transfer. Credits used for degree completion at another institution may not be transferred to a Millersville degree program. CLEP credits are not accepted for graduate programs and will not be listed on graduate transcripts. Some departments, however, request or allow CLEP credits for program competencies.

Permission to Complete Credits in Transfer Following Admission to a Degree Program

Following acceptance into a graduate degree program, students desiring to pursue graduate work at another institution for transfer purposes must receive the prior recommendation of their advisor and graduate coordinator, and the prior approval of the dean of the College of Graduate Studies and Adult Learning. Approval forms are available at www.millersville.edu/graduate/current-student-resources/forms-center.php or in the College of Graduate Studies and Adult Learning, Lyle Hall.

DEGREE CANDIDACY REVIEW

Degree candidacy is a screening and advising process that is used by some graduate programs. If used in their academic program, students are expected to apply to their respective departments for admission to degree candidacy at the earliest possible time. It is the student's responsibility to initiate the candidacy review process within the required semester-hour limitation. See the *Academic Programs* section for specific degree candidacy requirements.

The effectiveness of the candidacy process is diminished if a student continues beyond the required semester-hour limitation without undertaking the candidacy evaluation. One of the functions of the evaluation is to identify areas of study that may need to be strengthened through specific courses or projects during the remainder of the degree program. If a student does not schedule the evaluation within the stated limit, more semester hours may be required in order to strengthen competency(ies) identified in the review process.

THESIS AND DISSERTATION

THESIS

A master's thesis is an approved creative project or an interpretive, analytical work that offers evidence of an original point of view, supported by original research and the results of that research. In completing a thesis, the student demonstrates a capacity for independent research, an ability to organize and present empirical evidence logically, and proficiency in the use of scholarly language. The final written thesis demonstrates originality, critical and independent thinking, appropriate format, organization and thorough documentation. In certain circumstances, a thesis may be a literary review. A thesis will result in a publishable paper which is submitted to the MU Institutional Repository and the academic department.

If students are planning to pursue a doctoral program, they may want to strongly consider completing a thesis as part of their master's degree requirements. Many doctoral programs look to this as a requirement for admission.

The Graduate Course and Program Review Committee has adopted thesis guidelines to aid in the preparation and completion of theses. A full copy of the Thesis and Dissertation Guidelines is available on the College of Graduate Studies and Adult Learning website at www.millersville.edu/admissions/graduate/files/thesis_dissertation_guidelines_june_2018.pdf.

DISSERTATION

In order to achieve a doctorate degree, a doctoral student is required to complete the theory, research and presentation of a dissertation. Writing a dissertation requires an ability to do competent research, organize materials effectively, write clearly, and make sound interpretations and conclusions from facts presented. The essence of a dissertation is the demonstration of critical-thinking skills, not merely presenting experimental data. Dissertations are expected to make a new and creative contribution to a field of study. A dissertation will result in a publishable paper which is submitted to the MU Institutional Repository and the academic department.

The Graduate Course and Program Review Committee has adopted dissertation guidelines to aid in the preparation and completion of dissertations. A full copy of the Thesis and Dissertation Guidelines is available on the College of Graduate Studies and Adult Learning website at www.millersville.edu/admissions/graduate/files/thesis_dissertation_guidelines_june_2018.pdf.

TUITION AND EXPENSES

TUITION

Tuition charges are set in July by the Board of Governors of the State System of Higher Education. All rates are to be used as estimates. Current information is available at www.millersville.edu/osa.

2018-19 Tuition: All students admitted as graduate students pay the per-credit graduate tuition rate for all courses. The tuition rate for 2018-2019 is \$516 per credit for Pennsylvania residents and \$774 for nonresidents. The 2019-2020 rate is subject to change.

GENERAL FEE

The general fee is a mandatory fee used to support a variety of ongoing student services and activities, such as student government, student organizations, health services and wellness programs, and Student Center debt service, expansion, capital replacement and maintenance.

This fee is charged to ALL students (undergraduate and graduate, full-time and part-time, residential and commuting/off-campus) during all University sessions (including winter session and summer sessions) and at all course locations.

The 2018-2019 fee is \$117.75* per credit (12-credit maximum of \$1,413) for fall and spring semesters. During summer and winter sessions, the fee is \$38.50* per credit for all students.

Refunds: A student who withdraws from the University is entitled to a prorated refund of the general fee in the same proportion as refunds of tuition.

TECHNOLOGY FEE

The technology fee is a mandatory fee collected to support instructional technology. The 2018-2019 fee is \$28 per credit for Pennsylvania residents, and \$38.50 per credit for nonresidents.

HOUSING AND MEAL PLAN FEES

Housing in University residence halls is available for graduate students during regular summer sessions and, if space is available, during fall and spring semesters. Information concerning campus housing policies and procedures is contained in the *Living on Campus* handbook, available from the Department of Housing and Residential Programs. For cost information, call 717-871-4200.

OTHER FEES

Application Fee. Students applying for admission to Millersville University pay a \$40 nonrefundable application fee when submitting their application.

Late-Payment Fee. Students who do not clear their bill or make full settlement of their account by the due date are charged \$100.

Late-Registration Fee. Students who register after the start of the semester/session are charged \$50, except when permission for late registration has been granted by the registrar.

Special Handling Fee. Anyone who gives the University a paper or e-check that is not honored by the bank on which it is drawn is charged \$35.

Replacement Fee. The fee for replacement of a Millersville student identification card is \$25.

Damage Fee. Students are responsible for damages, breakages, and loss or delayed return of University property.

Degree Fee. Each candidate for a degree must pay \$30 to cover the cost of the diploma.

Infirmary Supplies Fee. The cost of supplies used to treat a patient at the infirmary may be charged to the patient.

Library Fees. Overdue fines and other charges may be assessed for library materials not returned on time. The overdue policy is available on the library website at www.library.millersville.edu/policies/fines-and-replacements.

PAYMENT OF TUITION AND FEES

Students enrolling for classes during the early-registration period are not required to pay immediately. Notification of e-bill availability is sent to the students' Millersville email four to six weeks before the beginning of each semester. Full payment is due approximately two to three weeks prior to the beginning of the semester.

Students enrolling after early registration are required to make full payment at the time of registration.

Electronic check and credit card payment options are available via myville at www.millersville.edu.

Questions about fees and payments should be directed to the Office of Student Accounts, Dilworth Building.

Installment Payment Plan

Millersville University offers an installment payment plan to help students meet educational costs during the fall and spring semesters. View information online at millersville.afford.com or by calling 1-800-722-4867. The plan is only available in the fall and spring semesters.

UNIVERSITY REFUND POLICY

A student who wishes to cancel registration and obtain a refund must complete the cancellation process and officially drop the course/courses with the registrar. The effective date for refunds is determined by the date the completed drop/add form is filed in the registrar's office. Application and graduation fees are not refundable.

Students who register are responsible to drop any class they do not plan to attend. Failure to drop the class before the semester begins may result in charges and/or grades being posted to a student's records. Do not rely on the "drop for nonpayment" policy to remove these classes.

Stopping payment on checks written to cover fees does not constitute withdrawal from the University, nor does it relieve the student from financial responsibility for fees owed. Students whose fees are to be paid by scholarship or other sources and who lose the financial assistance because of withdrawal, or for other reasons, will be held personally responsible for all charges.

Students who have made payment for a course are entitled to a full refund of University tuition and fees in the event the University cancels a course.

FALL/SPRING REFUNDS

Refund of Tuition

The following timetable applies to refunds for tuition and the general fee:

1. Withdrawal through the drop period, first week of class: 100% refund.
2. *Semester withdrawal during second week: 80% refund.
3. *Semester withdrawal during third week: 60% refund.
4. *Semester withdrawal during fourth week: 50% refund.
5. *Semester withdrawal during fifth week: 40% refund.
6. Withdrawal after fifth week: no refund.

*After the drop period, refunds shall be made only for full-semester withdrawal.

Housing Fee

A prorated refund on housing fees will be made only when a student withdraws from the University. For students who move out of housing but remain enrolled, there is no refund.

Meal Plan

All students who leave the University will be entitled to a prorated refund of meal plan fees.

SUMMER/WINTER SESSION REFUNDS

Winter session, first summer session, second summer session and third summer session are each considered to be separate entities and are treated as such for refund purposes.

See the appropriate session course listing for the applicable refund schedule on the Millersville website, www.millersville.edu/osa. Rates and refund amounts are subject to change.

FINANCIAL ASSISTANCE

Financial assistance is available to graduate students via graduate assistantships, student loans and campus employment.

ASSISTANTSHIPS

Graduate assistantships are awarded on a competitive basis for a nine-month period to students admitted into a master’s degree program and are renewable for one year. Remuneration for graduate assistants includes a stipend and waiver of tuition only, up to a maximum of 24 graduate credits per calendar year. First-year, full-time graduate assistants receive \$5,000/year (\$2,500/semester), and second-year, full-time graduate assistants receive \$5,400/year (\$2,700/semester). Full-time graduate assistants work 300 hours per semester in their assignment. Current assistantship assignments include most of the departments offering graduate degree programs. Other academic and administrative support assignments are available. Graduate assistantship assignments, which are awarded for fall and spring semesters only, vary but may include research, counseling and administrative responsibilities. Interested students should visit the College of Graduate Studies and Adult Learning website at www.millersville.edu/graduate for information and access to the application. In order to receive full consideration, applications should be received no later than February 1 for the following fall semester.

LOANS

FEDERAL DIRECT LOANS

A graduate student may borrow up to \$20,500 per academic year via the Federal Direct Unsubsidized Loan Program. Certification students may borrow up to \$12,500 per academic year via the Federal Direct Loan Program. Loans may not exceed educational costs or the maximum loan limits, whichever is less. All students must be degree seeking and remain enrolled in a maximum of six credits to be eligible for Federal Direct Loans. The applicant is required to complete the Free Application for Federal Student Aid (FAFSA) in order to apply for the loan. This form is available online at fafsa.ed.gov. **Please note:** *If you are receiving a graduate assistantship, the amount of the tuition waiver is included in calculating Federal Direct Loan eligibility. As a result, your loan may be adjusted.*

SCHOLARSHIP SEARCHES

Scholarship searches are available on the Office of Financial Aid home page at www.millersville.edu/finaid.

CAMPUS EMPLOYMENT

Campus jobs other than graduate assistantships are available. Information regarding job opportunities can be obtained from the Office of Career Services and Office of Student Payroll.

SCHOLARSHIPS

James C. Atty Memorial Scholarship Endowment

James C. Atty, professor of counselor education from 1963-76, has provided a monetary award to be presented annually to a student enrolled in the counselor education program and selected by the department on the basis of financial need and potential as a counselor. The recipient is selected by the Graduate Coordinator of School Counseling.

Distinguished Graduate Fellowship

This endowed fund is supported by faculty, alumni and friends of Millersville University’s graduate program and is awarded to a Pennsylvania resident studying full-time in a master’s degree program. Recipients shall be chosen based on merit as demonstrated by undergraduate GPA and the successful completion of an internship. Financial need may be considered. The fellowship may be renewed for a second year, provided the student remains a full-time graduate student in good academic standing.

Betty Finney Psychology Graduate Fellowship

Awarded to a full- or part-time graduate student in the field of clinical psychology who demonstrates a deep sense of compassion, understanding and keen sensitivity to those in need. He/she should be especially focused on those human beings who often fall through the cracks in society. The recipient student should have experience in community and/or volunteer service, with credit given for community-based research. If no such student in clinical psychology is chosen, a full- or part-time graduate student in the field of school psychology and/or school counseling will be considered using the same criteria. Financial need is a consideration. The award is renewable, provided the recipient continues to meet the basic criteria and remains in good academic standing. A personal statement and two letters of recommendation are required upon initial application.

Forty Et Eight Endowment for Nursing Education

The Forty Et Eight scholarships are awarded to students who are in pursuit of the Bachelor of Science in Nursing, the Master of Science in Nursing or the Nurse Practitioner Certificate option. The student should demonstrate intent to be active in practice upon successful completion of their educational program. The award(s) will be made on the basis of academic potential and financial need as determined by the nursing faculty.

Luelle Hamilton Scholarship in Nursing

An endowment scholarship in memory of Dr. Luelle Hamilton, D.O., is a monetary award presented annually to a graduate nursing student who will be pursuing multidisciplinary alternative methods of healing, including the use of herbs. This recipient will also receive a copy of *Fullness of Joy* by Dr. Hamilton as long as copies are available.

John W. W. Loose History Research Award

Awarded to a junior, senior or graduate student who is pursuing current research on the American Revolution. First preference will be to a student whose research focuses on the American Revolution in Lancaster County. Second preference will be to a student whose research focuses on the American Revolution in general. Third preference will be to a student doing research on a topic within American history. An application is required. The recipient is selected by the history department after an initial review by the Lancaster County Chapter of the Pennsylvania Society of Sons of the Revolution.

Anna McConnell Graduate Award in Special Education

Anna McConnell received her master's degree in special education in 1974 at the age of 65. To recognize her significant achievement, her legacy of fostering education and personal growth in challenged youth, and to encourage others to follow in a similar path, her family established a monetary award presented annually to a student pursuing a master's degree in special education. The recipient must be a nontraditional student who is in good academic standing and has financial need. The recipient is selected by the department and Honors and Awards Committee of the Department of Early, Middle & Exceptional Education.

Helen R. Metzler Graduate Reading Award

Helen R. Metzler, associate professor of education emerita, 1969-77, has provided a monetary award presented annually to a graduate student who has completed reading specialist certification and who has shown excellence in classroom performance as well as through knowledge and application of reading technique. The applicant must have completed all certification courses at Millersville. The recipient is selected by the Departmental Honors and Awards Committee of the Department of Early, Middle and Exceptional Education.

African-American/Latino Alumni Scholarship Keith S. Mills Graduate Student Education Resource Award

Awarded to an African-American/Latino graduate student with a minimum GPA of 3.0 with 12 or more credits as of the date of application. This award is significantly funded by African-American and Latino alumni and was established in honor of Mr. Keith Mills. A member of the class of 1998, Mr. Mills devoted much of his career to educating elementary-age students while serving as a principal in the Lancaster School District and then as an instructional coordinator at Village Charter School in Philadelphia.

Memorial for Dr. Eugene K. Robb in Field of Graduate Education Endowment

This endowed scholarship, in memory of Dr. Eugene K. Robb, dean of the graduate school from 1959-68, is a monetary award presented annually to a graduate student in the field of education on the basis of academic achievement and contributions to the field of education. The recipient is selected by the Academic and Cultural Enrichment Committee.

Dr. Joyce Scout Smedley and William E. Smedley Scholarship in memory of Arthur and Anna Scout and William P. and Mary Kathryn Smedley

This scholarship is awarded to a graduate student in the school counseling program. The scholarship is to be primarily merit based, with consideration of financial need, for graduate students who have demonstrated potential as a school counselor. The scholarship may be renewed for up to four additional semesters upon recommendation of the school counseling faculty.

Daisy K. Spangler Scholarship

Daisy K. Spangler, class of '63 and associate professor of education emerita, 1968-78, has provided an annual award in the form of a bond by the Beta Omicron Chapter of Pi Lambda Theta to a graduate student in early childhood or gifted education with a GPA of 3.5 or higher and who has had successful teaching experience. The recipient is selected by the Departmental Honors and Awards Committee of the Department of Early, Middle and Exceptional Education.

Richard Cecil Todd and Clauda Pennock Todd Graduate Fellowship

Awarded as a fellowship within the graduate school. The fellowship recognizes and encourages excellence in scholarship, research and/or writing among graduate students.

Janet Wood Memorial Fund

Janet Wood, class of '26, has provided a cash award presented to graduate and undergraduate students (may be part-time) enrolled as education majors and/or seeking teacher certification. The recipients must have a 3.5 GPA and have advanced professional standing or admission to degree candidacy. This award may be renewed for a total of four semesters if the student is in good academic standing. Recipient is selected by the Academic and Cultural Enrichment Committee.

The Francis J. Bremer Award

This award was established in honor of Dr. Francis J. Bremer, emeritus, who served as a faculty member of the Millersville University history department and was an internationally acclaimed scholar in Puritan history. Awarded to a graduate student (History B.A. or Social Studies B.S.E.) who is working on a master's thesis or presenting an M.A. thesis at a conference (already accepted) or presenting at a conference with the possibility of publication.

The Grace Scholarship

Awarded to a full- or part-time graduate student in the field of clinical psychology with either a demonstrated experience in and/or an intent to pursue a career in either dual-diagnosis addiction or family systems in the context of addiction. The award is renewable for up to three years, and financial need is a consideration. A personal statement and two letters of recommendation are required.

Danny Ducker Graduate Merit Award

Awarded to a graduate student who has completed at least 18 credits in either the M.A. or M.Ed. program in English as the best exemplar of English research in any aspect of graduate English studies: writing studies, linguistics, education, film or literary studies. Students can submit scholarly work that they created no more than two years from the date of submission. Students may submit work up to two times in total. Recipient is chosen by the English department in a blind selection process.

John Huzzard Graduate Merit Award

Awarded to a graduate student who has completed at least 18 credits in either the M.A. or M.Ed. program in English as the best exemplar of English research in any aspect of graduate English studies: writing studies, linguistics, education, film or literary studies. Students can submit scholarly work that they created no more than two years from the date of submission. Students may submit work up to two times in total. Recipient is chosen by the English department in a blind selection process.

Jean-Paul Levy Endowment

Awarded to a student pursuing a master's degree in French at the Summer Institute. Second preference is to a master's-level student majoring in French who has a minimum 3.0 GPA with demonstrated financial need. Third preference is to an undergraduate student majoring in French who has a minimum 3.0 GPA with demonstrated financial need. If a student who meets the above criteria cannot be found, the award will be made to an undergraduate student minoring in French with a minimum 3.0 GPA and demonstrated financial need.

Keiser Graduate Assistant Scholarship Endowment

The annual spendable income will be used to provide one or more assistantships to include tuition and a stipend for 20 hours per week of work within the Department of Industry & Technology to a student pursuing a master's degree in the department. The recipient's assistantship may be renewed for one additional year. The recipient shall be selected by the University president and/or his/her designee.

Charles B. Johnson Memorial Scholarship

This scholarship is to be awarded to a student who is a junior, senior or graduate student majoring in social work or psychology. First preference is to a student who plans to pursue a career in a mental-health profession with direct patient contact.

Brent D. Frey Technology Education Scholarship

This scholarship is to be awarded to a sophomore, junior, senior or graduate student majoring in technology & engineering education with a minimum GPA of 3.0 and demonstrated financial need. The scholarship may be renewed, provided the student continues to meet the criteria. The award may be split equally between two students at the discretion of the selecting body.



ACADEMIC PROGRAMS

Millersville University

COLLEGE OF ARTS, HUMANITIES AND SOCIAL SCIENCES

ART

GRADUATE FACULTY

Deborah Sigel, Department Chairperson. M.F.A., Cranbrook Academy of Art, 1991. Ceramics.
 Leslie Gates, Graduate Program Coordinator. Ph.D., University of Maryland, College Park, 2011. Art Education.
 Line Bruntse. M.F.A., University of Massachusetts Amherst, 1999. Sculpture.
 Ben Cunningham. M.F.A., Rhode Island School of Design, 1993. Sculpture, Design.
 Christine Filippone. Ph.D., Rutgers University, 2009. Art History.
 Shauna Frischkorn. M.F.A., SUNY-Buffalo, 1998. Photography.
 Heidi Leitzke. M.F.A., Western Carolina University, 2006.
 Nancy Rae Mata. M.F.A., Temple/Tyler School of Art, 2002. Graphic Design.
 Becky McDonah. M.F.A., Arizona State University, 2000. Metalworking.
 James Pannafino. M.F.A., Rochester Institute of Technology, 2004. Graphic Design.
 Jeri Robinson. M.F.A., The School of the Art Institute of Chicago, 1988. Computer Art, Design.
 Brant Schuller. M.F.A., The Pennsylvania State University, 1992. Printmaking.
 Dorothy Frey. M.F.A., American University, 2002. Painting.

The Master of Education degree program in art education allows the graduate student to integrate art education, studio, art history and related academic areas (e.g., psychology, special education, technology and innovation, and languages and cultures). Graduate students are encouraged to experiment and explore in a variety of areas.

The Department of Art is housed in a well-designed and spacious art building, Breidenstine Hall. The 56,000-square-foot facility includes uniquely designed studios for ceramics, computer design, design, drawing, metalsmithing, painting, photography, printmaking and sculpture. It also houses two art galleries and a large art history lecture room. Up-to-date tools and equipment offer students the opportunity to explore a wide variety of art processes.

THE PROGRAMS

MASTER OF EDUCATION DEGREE IN ART EDUCATION

Graduate study in art education is designed to meet the specific needs of art education graduates, practicing art teachers who need graduate credits to meet state mandates, and art teachers who wish to conduct advanced independent study or research in art, art education, art history or related fields.

In addition to the M.Ed., the art department offers a certification program in Supervision of Art Education; see the *Supervisory Certification Program* section for requirements.

Admission Requirements

Those persons applying for admission to the graduate studies program of Millersville University who wish to pursue a program leading to a master's degree in art education must possess Pennsylvania Instructional I Certification in art education or be enrolled simultaneously as a post-baccalaureate certification student.

Applicants who meet the requirements for admission through the Office of Graduate Studies, as specified in the *Admission Requirements* section, will be reviewed by the art department graduate admission committee, which will use the following to formulate a recommendation of probational admission, regular admission or admission denied:

1. Undergraduate and post-baccalaureate grades and grade averages (minimum: 3.0 cumulative; 3.25 in art and art education courses);
2. Three letters of recommendation from persons familiar with the applicant's education and teaching experience (including the applicant's immediate supervisor);
3. Evidence of artistic expression (portfolio review); applicants who completed an undergraduate degree in art at Millersville University are not required to submit a portfolio for review;
4. Professional goals as stated by the applicant; and,
5. If the department recommends probational admission, the conditions shall be clearly stipulated (e.g., the successful completion of a designated course (or courses) either at the graduate or undergraduate level).

Degree Requirements

A program of study will be developed for each student based upon the individual's specific academic background, skills and educational aspirations.

Each student is required to complete the professional studies core, the art education core, the comprehensive studies program and either a thesis or a documented study that represents original investigation relating to art education.

Candidates for the Master of Education degree in art education must complete a minimum of 33 s.h. of approved study, including a thesis. Students may elect to complete a documented study in lieu of the thesis; this option carries a minimum of 36 s.h. for graduation.

I. The Professional Studies Core (9 s.h.)

See the *M.Ed. Professional Core* section for requirements and course descriptions.

II. The Art Education Core (9 s.h.)

Each student must take the following three courses:

ART 523 Art Curriculum Seminar (3)

ART 526 Current Trends in Art Education (3)

ART 603 Assessment in Art Education (3)

III. Comprehensive Studies Program (9-15 s.h.)

Each student will select work in this program in conjunction with the other M.Ed. requirements. The comprehensive studies courses should provide a direction to the student's professional career.

The concepts and skills necessary for teaching are emphasized, as required for the elementary or secondary art classroom, or in other art programs such as special education and adult education.

As part of the comprehensive studies program, the student, in conference with an advisor, may select studies in art studio and art history as well as other graduate studies (e.g., special education, psychology, professional education, literature, technology and innovation, and languages and cultures).

IV. Research (3-6 s.h.)

Each student must elect to complete either a thesis or a documented study that represents original investigation in art education:

ART 678 Documented Study in Art Education (3-6)

ART 699 Thesis (3-6)

Degree Candidacy

See the *Degree Candidacy Review* section.

After the student has completed no fewer than 6 and no more than 15 s.h. in the art department, an evaluation shall be conducted by the student's graduate committee to determine his or her qualifications to become a degree candidate. This evaluation shall be based on:

1. Student's performance in graduate study.
2. Recommendation of the art department graduate faculty.
3. Interview with the graduate program coordinator.

GRADUATE COMMITTEE AND ADVISEMENT

Each graduate student will be assigned a departmental graduate committee that will assist the student in planning a program of study and provide advisement in the development of a research report or documented study. The graduate committee will consist of the art department chairperson, the graduate program coordinator/advisor plus (when selected) the research advisor.

CERTIFICATION PROGRAM IN SUPERVISION OF ART EDUCATION

Admission Requirements

Applicants for the supervisory certification program must have: a) a master's degree, b) Instructional II certification in art, and c) acquired five years of teaching experience before the certificate is awarded.

Certification Requirements

I. Core Courses

See the *Supervisory Certification Program* section for requirements and course descriptions.

II. Department Courses

ART 526 Current Trends in Art Education (3)

ART 799 Applied Supervision: Art Education (6)

COURSE DESCRIPTIONS

ART 521 Visual Resources in Art Education (3) Development and application of visual resources, current and traditional, for curricular development. Offered infrequently.

ART 523 Art Curriculum Seminar (3) Survey of theories, problems and methods in developing curriculum in art education. Offered every other year.

ART 526 Current Trends in Art Education (3-12) Seminar course designed to address current trends, theories, concepts and strategies in art education. Offered every other year.

ART 533, 534, 633, 634, 635 Drawing (3-15) Independent investigation of advanced drawing techniques. Prereq: 9 s.h. of drawing.

ART 641, 642, 643 Design (3-9) Independent investigation of design. Prereq: 9 s.h. of design.

ART 552, 554, 652, 654, 656 Painting (3-15) Exploration of experimental painting techniques, development of individual style and critique skills. Prereq: 9 s.h. of painting.

ART 553, 555, 653, 655, 657 Watercolor (3-15) Exploration of experimental watercolor techniques, development of individual style and critique skills. Prereq: 9 s.h. of watercolor.

- ART 584 Introduction to Studio Art (3)** Fine art introductory-level studio course designed for the post-baccalaureate or M.Ed. student.
- ART 563, 564, 663, 664, 665 Printmaking (3-15)** Exploration of experimental printmaking techniques, development of individual style and critique skills. Prereq: 9 s.h. of printmaking.
- ART 567, 666, 668 Advanced Photography II (3-15)** Exploration of experimental fine art photography techniques, development of individual style and critique skills. Prereq: 9 s.h. of photography.
- ART 582, 583, 682, 683, 684 Sculpture (3-15)** Exploration of experimental techniques in sculpture, development of individual style and critique skills.
- ART 586, 587 Topics in Art Education (3-6)** Independent investigation of topic(s) in art education. Prereq: graduate standing or permission of the instructor.
- ART 588, 589, 688 Topics in Art History (3-9)** Independent investigation of topic(s) in art history. Prereq: graduate standing or permission of the instructor.
- ART 591, 592, 691, 692, 693 Fine Art Metals (3-15)** Independent investigation of metalsmithing, development of individual style and critique skills. Prereq: 9 s.h. of metalsmithing.
- ART 596, 597, 695, 696, 697 Ceramics (3-15)** Independent investigation of ceramics, development of individual style and critique skills. Prereq: 9 s.h. of ceramics.
- ART 602 Qualitative Research and Arts-Based Research Methods (3)** Intended for graduate students whose research questions may best be answered through qualitative and arts-based research methods. Provides students an opportunity to investigate and consider the applications of a number of qualitative and arts-based research methods to their emerging ideas and designs for a thesis or capstone project. The emphasis will be on identifying and evaluating prospective research problems and questions, examination of related research literature and development of a research project proposal. An intermediate-level methods class with a prerequisite of EDFN 601 or a comparable entry-level research course in the student's major department.
- ART 603 Assessment in Art Education (3)** Examines various theories and methods of assessment of why, what and how to assess art. Students will work together to identify assessment dilemmas present in their classrooms and, using text, each other and their own experiences, work together to create potential solutions. The goal is to help students build relevant and immediately applicable tools to use in K-12 classrooms and build a learning community for art educators in which they can explore assessment issues particularly relevant for their subject matter.
- ART 678 Documented Study in Art Education (3-6)** In-depth investigation of an issue in art education under the direction of appropriate faculty.
- ART 686, 687 Topics in Art Studio (3-6)** Independent investigation of topic(s) in an art studio.
- ART 699 Thesis (3-6)** In-depth investigation of a topic relevant to art education within a recognized research format under the direction of appropriate faculty.
- ART 799 Applied Supervision: Art Education (6)** Field-based experience to develop a candidate's leadership abilities, articulation of philosophy of art education, and supervisory competencies. Activities may include curriculum and staff development, budgeting and the public relations function, among others. Prereq: ART 524 and EDSU 700, 701 and 703. A student may petition the Department of Art for a waiver of the 9 s.h. prerequisite.

ENGLISH

GRADUATE FACULTY

- Roberta Jill Craven, Department Chairperson. Ph.D., University of North Carolina at Chapel Hill. Film Studies, Critical Theory, Narrative Studies.
- Nicole Pfannenstiel, Graduate Program Coordinator. Ph.D., Arizona State University. Rhetoric and Composition, Digital Media.
- William Archibald. Ph.D., University of North Dakota. Rhetoric and Composition, Online Teaching, Nonfiction Writing, Visual and New-Media Rhetoric, Samuel Johnson, Decadence.
- Joyce Anderson. M.A., Millersville University. Business Writing for Managers, Technical Writing, Professional Editing and Publication.
- Caleb Corkery. Ph.D., University of Maryland, College Park. Writing Pedagogy, Rhetoric and Race, Drama, Narratology.
- Kerrie R. H. Farkas. Ph.D., Kent State University. Rhetoric and Composition, Public and Civic Discourse, Grounded Theory and Critical Discourse Analysis, Writing and Civic Engagement.
- Judith Halden-Sullivan. Ph.D., The Pennsylvania State University. Rhetoric and Composition Studies, Poetics, Avant-Garde Literature.
- Katarzyna Jakubiak. Ph.D., Illinois State University. African Diaspora Literature, 20th/21st-Century World Literature, Translation Studies.
- Justin Mando. Ph.D., Carnegie Mellon University. Rhetoric and Composition, Science Writing, Technical Writing.
- Timothy R. Mayers. Ph.D., University of Rhode Island. Rhetoric and Composition Studies, Creative Writing, Disciplinary History and Theory of English Studies.
- Kimberly L. McCollum-Clark. Ph.D., The Pennsylvania State University. English Education and Curriculum, Adolescent Literature and Literacy, Composition Theory and Pedagogy.
- Timothy Miller. Ph.D., State University of New York at Binghamton. 16th- and 17th-Century British Literature, Milton.
- Dominic Ording. Ph.D., Michigan State University. 20th-Century American Literature, Gender and Sexuality Studies, Cultural Studies.
- Carla Mary Rineer. Ph.D., Temple University. American Literature to 1945, British and American Modernism, Literary Theory, Women's Studies.
- Yufeng Zhang. Ph.D., Purdue University. Second Language Writing, Teaching English as a Second Language.

THE PROGRAMS

The Department of English offers Master of Arts and Master of Education degrees along with a Graduate Certificate in Writing. The student's course of study will be determined in cooperation with the graduate program director after admission to the graduate program. The substantial resources of the Francine G. McNairy Library will aid coursework and preparation of theses and other capstone research endeavors.

MASTER OF ARTS DEGREE

The Master of Arts degree program in English is designed to prepare the student for continuing graduate study in English or related fields and to enhance the student's intellectual and aesthetic life through the intense study of literature, writing studies, literary theory, film studies and linguistics.

Admission Requirements

Admission to the program is open to those applicants who possess a baccalaureate degree from an accredited college with an undergraduate major in English, or by special permission. Applicants must submit supporting documents as required for general admission to a graduate program (see *Admission Requirements* section). Applicants must take either the general GRE or the MAT and score within the 50th percentile or higher (on the GRE verbal or the MAT overall—exceptions can be made for students with special interests and ability).

An admissions decision is based upon an evaluation of all application documents by the graduate director. If probational admission is granted, the graduate director will stipulate the conditions to be met by the applicant before full admission is granted (e.g., satisfactory completion of prescribed undergraduate courses or completion of a certain number of graduate English courses with a satisfactory GPA).

Degree Candidacy

Admission to degree candidacy requires successful completion of 9-18 s.h. of departmentally approved graduate coursework with an overall B average and satisfaction of the foreign language requirement. This coursework should include at least 9 s.h. at Millersville University. Students need to complete both ENGL 614 and ENGL 651 to achieve degree candidacy. A student who accumulates a maximum of 21 s.h. of graduate coursework and whose grade average falls below a B will be dropped from the degree program.

Upon completion of 18 s.h. of graduate coursework, a student must apply and be admitted to degree candidacy, after which he/she should, in consultation with the graduate coordinator, develop a program which lists the requirements needed to complete the degree program. Once a student has completed 18 credits of graduate coursework, they may not proceed with their program until they have been approved by the department for degree candidacy.

Program Requirements

Applicants for the degree of Master of Arts in English must successfully complete a program which consists of a minimum of 36 graduate credits, including 30-33 hours in coursework and a capstone project of 3-6 s.h.

Part I. Graduate Core (15 s.h.) would include:

- I. Profession of English Studies (ENGL 614) (3 s.h.)
- II. Literary Theory (ENGL 651) (3 s.h.)
- III. Linguistics (ENGL 601, 602, 660, 661, 662, 663 or 664) (3 s.h.)
- IV. Graduate Writing Course (ENGL 667, 668, 670 or 692-695*) (3 s.h.)
- V. Literature Course (3 s.h.)

Part II. English (15-18 s.h.)

Students are encouraged to focus (9 s.h.) on one of the following areas: Writing Studies, Linguistics, British Literature, American Literature or World Literature.

Students must take at least six courses that are offered either as "graduate only" or "graduate mostly" course level.

Part III. Capstone Project (3-6 s.h.)

The project will be created under the close supervision of the appropriate advisor. Upon completion of the project, the student will meet with a committee of three faculty members from the English department for an oral examination of the project. If deemed appropriate, a faculty representative from another department may be invited to join the English department capstone defense committee. The committee may recommend revisions to the thesis. After all revisions have been completed, the accepted thesis is graded "pass" or "pass with honors" by the departmental committee.

1. **Traditional Master's Thesis**—an extended literary analysis that demonstrates a thorough, scholarly examination with a degree of originality.
2. **Creative Thesis**—original, creative work by the student (i.e., a short story, a collection of poetry, creative nonfiction piece) that situates the work in a broader, scholarly context.
3. **Qualitative Research**—scholarly research that is situated in a pedagogical context. Requires IRB approval.
4. **Peer-Reviewed Journal Article**—a student-written, substantial article that is accepted in a reputable, peer-reviewed professional journal.
5. **Curriculum Artifact**—a piece of student scholarship produced during coursework that can be expanded and used in an educational setting.

Required Courses

The student's curriculum, planned with the program coordinator, will include a course in the study of English (ENGL 614), literary theory (ENGL 651), a literature course, a writing course and a course in the nature and structure of the English language (either ENGL 601, ENGL 602, ENGL 660, ENGL 661, ENGL 662, ENGL 663 or ENGL 664). A maximum of six hours of coursework in related fields (such as psychology, education and/or history) may be acceptable only if it has bearing upon the student's chief area of interest.

Foreign Language Requirement

Reading competency in one foreign language is required for the Master of Arts in English. Reading competency can be demonstrated through one of the following ways:

1. Satisfactory completion of a foreign language reading exam.*
2. Earning a "B" or higher in one of the following courses: 201 level of any foreign language, ENGL 587 Special Topics in Translation (Independent Study), ENGL 601 Early English Language and Literature, or ENGL 602 Middle English Language and Literature.

All but the first option are offered at the graduate level and are able to be applied to a candidate's graduate program.

*The language exam is offered in fall and spring only. Degree candidates must contact the graduate director in English to schedule the exam one month prior to the desired test date. Exams are not scheduled in the last two weeks of the semester. This competency must be met before a student is granted degree candidacy. Graduate candidates have two chances to pass the foreign language exam.

MASTER OF EDUCATION DEGREE

The Master of Education degree in English is designed to prepare students for continuing graduate study in English or related fields and to develop in students a substantial understanding of the subject matter of English (language, literature and composition) and related educational theory (philosophy, psychology and research). These understandings are intended to lead toward increased competence in teaching and curriculum development.

Admission Requirements

Present and prospective teachers of English who meet graduate program admission standards are invited to apply for admission to the M.Ed. in English program. Applicants must take either the general GRE or the MAT and score within the 50th percentile or higher (on the GRE verbal or the MAT overall—exceptions can be made for students with special interests and ability).

After reviewing all application documents, the graduate program coordinator may recommend unqualified admission or probational admission. If the department recommends probational admission, the conditions shall be clearly stipulated (e.g., the successful completion of a designated course (or courses) either at the graduate or undergraduate level).

Students applying for admission to the M.Ed. degree must be aware that the M.Ed. degree does not confer teaching certification. Hence, students who do not already have English certification when they apply to this program may have to complete various undergraduate courses if they wish to receive that certification. Students with this degree are qualified to teach English at community colleges and serve as a complement to secondary English teachers' professional development.

Degree Candidacy

Admission to degree candidacy requires successful completion of 9-12 s.h. of departmentally approved graduate coursework with an overall B average. This coursework should include at least 9 s.h. at Millersville University. Students need to complete ENGL 614 and the M.Ed. professional core in order to achieve degree candidacy. A student who accumulates a maximum of 21 s.h. of graduate coursework and whose grade average falls below a B will be dropped from the degree program.

Upon completion of 18 s.h. of graduate coursework, a student must apply and be admitted to degree candidacy, after which he/she should, in consultation with the graduate coordinator, develop a program which lists the requirements needed to complete the degree program.

Program Requirements

Applicants for the Master of Education degree in English must successfully complete a program which consists of a minimum of 36 graduate credits, including 30-33 hours in coursework and a capstone project of 3-6 s.h. The project will be created under the close supervision of the appropriate advisor.

Part I. English Studies

- I. Profession of English Studies (ENGL 614) (3 s.h.)
- II. English (15 s.h.)

Any graduate course offered by the English department except English Education.

Part II. English Education Studies

- I. Professional Core (9 s.h.)
(See *M.Ed. Professional Core* for requirements.)
- II. English Education (6 s.h.)
Select two of the following:
 - ENGL 660** Teaching ESL Listening and Speaking (3)
 - ENGL 664** Teaching of English to Speakers of Other Languages (3)
 - ENGL 666** Seminar in Teaching Literature to Adolescents (3)
 - ENGL 667** Seminar in English Curriculum (3)
 - ENGL 668** Seminar in English Education (3)
 - ENGL 670** Film and Media in Secondary English Education (3)
 - ENGL 672** Seminar in Rhetoric and Composition (3)
 - ENGL 691** Independent Studies (1-3)
 - ENGL 692-695** Writing Institute* (3-6)

Students must take at least six courses that are offered either as "graduate only" or "graduate mostly" course level.

Part III. Capstone Project (3-6 s.h.)

Upon completion of the project, the student will meet with a committee of three English and/or education professors for an oral examination of the project. If deemed appropriate, a faculty representative from another department may be invited to join the project committee. The committee may recommend revisions to the project. After all revisions have been completed, the accepted project is graded "pass" or "pass with honors" by the departmental committee.

1. **Traditional Master's Thesis**—an extended literary analysis that demonstrates a thorough, scholarly examination with a degree of originality.
2. **Creative Thesis**—original, creative work by the student (i.e., a short story, a collection of poetry, creative nonfiction piece) that situates the work in a broader, scholarly context.
3. **Qualitative Research**—scholarly research that is situated in a pedagogical context. Requires I.R.B. approval.
4. **Peer-Reviewed Journal Article**—a student-written, substantial article that is accepted in a reputable, peer-reviewed literary journal.
5. **Curriculum Artifact**—a piece of student scholarship produced during coursework that can be expanded and used in an educational setting.

GRADUATE CERTIFICATE IN WRITING*

This is an 18-credit program of study designed for postgraduate students or community members seeking advanced coursework to better conceptualize and effectively compose diverse genres of writing, with particular attention to *professional writing*—business and technical communication, digital communication, grant writing, writing for publication in various venues, including portfolio preparation—and *creative writing*, or producing poetry, memoirs, various kinds of fiction, drama and screenplays. In addition, committed to the professionalization of writing pedagogy, this graduate certificate will offer advanced coursework in *the teaching of writing*. The Graduate Certificate in Writing will serve as a stand-alone program for any interested student with a bachelor's degree from an accredited four-year college or university. The degree need *not* be in English. This certificate program can also provide a specialization for Millersville University graduate students seeking an M.A. or M.Ed. in English; its requirements complement the demands of both degrees.

The student's curriculum, planned with the program coordinator, will include 18 credits from professional or creative writing, or the teaching of writing configured as FIVE courses and ONE three-credit capstone experience.

COURSE DESCRIPTIONS

ENGL 581: Genres in Poetry Writing

An immersion in poetry writing, often in workshop format, with special attention to the theories and practices of poetry's construction—for example, how and why verse is generated in distinctive ways. Instructors will choose the genre that will be the focus of each section.

ENGL 586-589, 686-689 Special Topics (3) In-depth investigation and development of one or more topics of current interest not normally covered in regular courses. Special topics to be covered and methods to be used will vary according to the needs of the students and faculty involved. Offered periodically.

ENGL 601 Old English Language and Literature (3) An introduction to the structure of Old English and reading in Old English prose and poetry. Offered periodically.

ENGL 602 Middle English (3) Language and literature of England from 1100 to 1500, exclusive of Chaucer, with attention to changes in the language, literature and culture, especially between 1066 and 1509. Offered periodically.

ENGL 603 Chaucer (3) Important works by Chaucer, with attention to the religious, philosophical, political and literary characteristics of his time; study of the language, pronunciation and versification; and important criticism. Offered annually.

ENGL 604 Renaissance in English (3) Renaissance spirit in England demonstrated by nondramatic literature. Offered biennially.

ENGL 605 Shakespeare (3) Critical and historical examination of Shakespeare's plays and poetry, and introduction to major critics and sources. Offered every semester.

ENGL 606 English Literature in the Early 17th Century (3) Major English works, with attention to prose style, forms and style in verse; political events and developments in religious thought; intellectual climate of period 1600-1660. Offered biennially.

ENGL 607 Milton (3) Milton's poetry and prose, in relation to religious, philosophical and critical tendencies of the Puritan period. Offered annually.

ENGL 608 Restoration and 18th-Century English Literature (3) Representative works of British literature published between 1660 and 1800. Reading list varies. Offered periodically.

ENGL 609 English Novel of the 18th Century (3) Emphasis on the rise of the English novel as an art form. Reading list varies. Offered periodically.

ENGL 610 The English Novel of the 19th Century (3) Study of the Victorian novel as an art form and as expression of the general culture of a period. Reading list varies. Offered periodically.

ENGL 611 The Romantic Movement in England (3) Main currents in the literature of the Romantic Age. Emphasis on Wordsworth, Coleridge, Byron, Shelley and Keats. Attention paid to Burns, Blake and major prose writers of the period. Offered periodically.

ENGL 612 Literature of Victorian England (3) Victorian culture as interpreted by leading poets and prose writers who came to prominence between 1830 and 1900. Emphasis will be placed on such figures as Carlyle, Mill, Newman, Tennyson, Browning, Arnold, Ruskin, the Rossetis, Swinburne, Carroll, Hopkins, Hardy and Wilde. Offered periodically.

ENGL 613 Modern British Fiction (3) Examination of the novel and story since 1900. Focus on experimental narrative techniques in the fiction of Conrad, Joyce, Lawrence, Forster, Woolf and Ford. Offered periodically.

ENGL 614 Profession of English Studies (3) "English studies" represents a wide range of scholarly and pedagogical interests and practices. This course will focus on the history and present state of English studies as an academic discipline or field.

ENGL 615 Seminar in Selected British Writers (3) Intensive study of selected figures; investigation of primary and secondary sources; special problems in scholarly research. Writers studied will vary. Offered periodically.

ENGL 616 Documentary Film: Rhetoric, Narrative and Genre (various titles) (3) This course examines the art of interpreting, understanding, appreciating and analyzing nonfiction film. It examines both rhetoric and narrative devices in nonfiction film as well as ethical considerations and ways to interpret a range of nonfiction cinematic genres. Auteur studies as well as film theories contribute to participants' understanding of this important medium. Offered periodically.

- ENGL 621 Early American Literature to 1830 (3)** Examination of Colonial and Federal literature, with some discussion of the beginnings of Romanticism. Special attention to Bradstreet, Taylor, Edwards, Franklin, Wheatley, Brockden Brown, Irving and Cooper. Offered annually.
- ENGL 622 The American Renaissance: 1830-1885 (3)** Focus on Transcendentalism and such figures as Hawthorne, Poe, Thoreau, Melville, Emerson, Whitman and Dickinson. Offered annually.
- ENGL 623 Development of the American Novel: 19th Century (3)** Narrative fiction from early and middle parts of the 19th century to “fin de siècle”; emphasis on the Romance, the Gothic tale and the rise of the novel. Offered periodically.
- ENGL 624 The Emergence of Modern American Fiction: Realism and Naturalism to 1920 (3)** A study of stylistic, thematic and philosophic issues relating to literary realism and naturalism. Selections from writers such as Twain, Howells, Wharton, James, Crane, Norris, London and Dreiser. Offered periodically.
- ENGL 625 Modern American Fiction, 1920-1945 (3)** Important American fiction writers of the 20th century, with emphasis on major developments in ideas and techniques. Special attention to Anderson, Cather, Wright, Hurston, Fitzgerald, Hemingway, Faulkner, Steinbeck and others. Offered annually.
- ENGL 626 Modern American Drama (3)** American drama from World War I to the present, with emphasis on significant developments in the styles and techniques explored by such dramatists as O'Neill, Hellman, Williams, Miller, Albee, Hansberry and others. Offered annually.
- ENGL 627 Modern American Poetry (3)** In-depth study of several major American poets, including Eliot, Pound, Millay, Moore, Hughes, Frost, Stevens, Williams and others. Offered periodically.
- ENGL 628 Contemporary American Literature: 1945–Present (3)** Major trends in poetry, fiction and drama since World War II, with emphasis on such prominent figures as Barth, Bellow, Mailer, Oates, Updike, Plath, Olson, Shepard, Mamet and others. Offered annually.
- ENGL 629 Seminar in Selected American Authors (3)** Intensive study of the works of selected American authors. May be taken more than once for credit. Offered periodically.
- ENGL 630: Studies in American Ethnic Literature Since 1945**
A study of representative literary works of various ethnic groups in contemporary America. Designed to develop an appreciation for and a critical understanding of multiculturalism, the course will examine the cultural plurality and social tension reflected in contemporary ethnic literature and discuss complex issues such as race, ethnicity, power, gender and identity, which are involved in the process of Americanization. Prerequisites: degree-seeking students in English or by permission of instructor.
- ENGL 631 Comparative Literature I (3)** Foundations of modernism in world literature. Symbolism, aestheticism, decadence. Comparative approach to the study of literature, from Poe to Baudelaire to Pater, Sartre, Tolstoy, T.S. Eliot, Lorca, Unamuno and others. Offered periodically.
- ENGL 641 Poetry (3)** The nature of poetry as genre; content as an extension of form; form as an extension of content; work in prosody; intensive reading in verse of all types and periods; projects in bibliography and explication. Offered annually.
- ENGL 642 Drama (3)** Drama as a literary genre; detailed study of specimens of drama of all types and periods; emphasis on masterpieces of drama from Aeschylus to Pinter; dramatic theory and criticism. Offered annually.
- ENGL 643 Fiction (3)** Fiction as a literary genre; in-depth study of specific works of various types and periods; emphasis on specimens of fiction from around the world. Fiction theory and criticism. Offered annually.
- ENGL 644 Modern British Poetry (3)** Forms, techniques and schools of 20th-century British poetry. Emphasis on the major poets and representative contemporary poets. Offered periodically.
- ENGL 645 The Short Story (3)** The rise and development of the short story as a literary genre. Offered periodically.
- ENGL 651 Literary Criticism (3)** Origin and development of literary criticism; the splintering of critical approaches and methodologies (e.g., psychological, sociological, linguistic, archetypal and mythopoeic approaches); current developments such as phenomenology and structuralism; deconstruction; feminist criticism, etc. Offered annually.
- ENGL 660 Teaching ESL Listening and Speaking (3)** Gain a deeper understanding of the nature of spoken English and investigate current approaches to the teaching of ESL listening and speaking skills. Learn effective techniques and teaching ideas for ESL listening and speaking. Also learn the integration of listening and speaking with other language skills in ESL teaching. Note: This course counts toward the M.A. or M.Ed. degree in English, but not toward the ESL certification or the BSE Chapter 49-2 ESL requirement. Offered annually.
- ENGL 661 Seminar in Transformational Linguistics (3)** An introduction to the transformational-generative approach to language analysis. The primary focus of the course is syntax, although the semantic and phonological components of grammar are also examined. Offered periodically.
- ENGL 662 Dialects of American English (3)** An investigation of the nature of dialectal and stylistic variation in American English, focusing on selected problems and issues of recent research in linguistic geography and sociolinguistics. Offered periodically.
- ENGL 663 Applied Linguistics (3)** Applications of current linguistic theory to the study and teaching of a variety of language-related subject matters, including grammar, composition, spelling, second language acquisition, reading and literature. Offered periodically.
- ENGL 664 Teaching of English to Speakers of Other Languages (3)** Examination of leading theoretical approaches to second language learning. Methods and techniques useful in developing listening, speaking, reading and writing skills. Opportunities for peer teaching and related application projects. Offered periodically.
- ENGL 666 Seminar in Teaching Literature to Adolescents (3)** Study of a considerable body of literature suitable for adolescents of varying abilities and backgrounds, and of techniques useful in improving reading skills and developing positive attitudes toward reading. For M.Ed. majors. Offered annually.
- ENGL 667 Seminar in English Curriculum (3)** Principles and processes of curriculum development and a study of exemplary curricula for English in the middle and secondary schools. For M.Ed. majors. Offered periodically.
- ENGL 668 Seminar in English Education (3)** Recent research and new directions in English education. Individualized research and study. Seminar presentation of independent investigation. For M.Ed. majors. Offered periodically.

ENGL 670 Film and Media in the Secondary Classroom (3) Examination of structures, genres and purposes of both fiction and nonfiction film, television and advertising in the context of the secondary classroom and the ways viewers should read and interpret those media. Students will learn how the effective understanding and analysis of these forms can assist them in a deeper comprehension and construction of print texts. Emphasis will be placed on interpreting these texts as a means of developing 21st-century literacies. Offered in summer.

ENGL 671: Special Topics in Rhetoric

Explores the context and effect of persuasive strategies as seen through the lens of a particular topic or period of history. Provides advanced examination of rhetorical principles relevant to the topic.

ENGL 672 Seminar in Rhetoric and Composition (3) Classical and modern theories of rhetoric and their application to the teaching of writing. Effective instructional methods and materials will be examined. Offered periodically.

ENGL 673: Professional Writing Workshop

The Professional Writing Workshop will focus upon *the rhetoric(s) of professional communication within the contexts of students' own on-the-job writing*: how to thoughtfully select language, visual and aural texts, and deliberately designed formats to accommodate writers' intentions as creative problem solvers and to meet the needs of diverse audiences. This course is designed for both practicing professionals and working people aspiring to new professional positions. In a workshop format and, at times, working in teams, students will compose modes of discourse typical of professional writing, including but not limited to electronic and/or print ad copy, web content, brochures, nonprofit pamphlets, letters, informal reports, formal reports, promotional campaigns, and/or recommendations; social media writing for websites, wikis and blogs; students' own websites, wikis and blogs.

ENGL 674: New Media Rhetoric

Gain a rhetorical and theoretical understanding of how texts operate in our increasingly sophisticated online media culture. Examine these new media texts as they appear on the internet, with a particular emphasis on social media as well as old media that is being transformed by/in/to the digital. Learn to follow these processes of text (re)mediation as they take place through perceptual and temporal processes, movement and memory.

ENGL 675: Community Writing

Focuses on the theory and practice of community literacy and citizen engagement in the community. Emphasizes research on community literacy and action-oriented projects meeting community literacy needs.

ENGL 677 Writing Pedagogy (3) Participants learn about writing instruction by engaging in a writers' workshop via discussions, by studying adolescent writers, by exploring new teaching processes in a case study, and by reading about writing instruction. The purpose is to provide the opportunity for students to become thoughtful and effective teachers of writing, whether in a secondary context, a college or university context, or an adult education context. Students work toward this goal by situating themselves in a flexible vantage point: that of the teacher-writer-researcher. Offered every two years in the spring semester.

ENGL 678 The Teacher as Writer I or II (3) This course is designed for teachers K-12 who would like to grow as writers. It consists of structured participation in an ongoing writing workshop where participants become increasingly sophisticated in their use of writing process strategies, conference and response skills, and various genres and styles. The course includes mini-workshops from local writers and is a place where we form a community of writers as we share and listen and grow. Participants experiment with new genres and submit at least one of their pieces for publication. Offered in summer.

ENGL 682: Genres in Nonfiction Writing

Exploration of theories and practices of creative nonfiction, including but not limited to memoirs, profiles, histories, biographies, travel literature, blogging and nature writing in diverse modes (print, digital and visual) for diverse audiences and purposes.

ENGL 691 Independent Studies (1-3) Intensive study of a particular field, curriculum area or problem in English or English education. Student must petition the chairperson of the English department in writing for permission to take this course and may register for it only twice. Offered periodically.

ENGL 698 Research Report (3)

ENGL 699 Thesis (6)

HISTORY

GRADUATE FACULTY

John M. McLarnon, Department Chair. Ph.D., University of Delaware, 1998. 20th-Century American Political History, Pennsylvania History.
 Robyn Lily Davis, Graduate Program Coordinator. Ph.D., University of Oklahoma, 2009. Colonial and Revolutionary America, History of Science.
 Onek Adyanga. Ph.D., University of Connecticut, 2009. African, Imperial and Colonial; Environmental Studies.
 Ronald B. Frankum. Ph.D., Syracuse University, 1997. 20th-Century U.S., American Foreign Policy, Vietnam War.
 Tanya Kevorkian. Ph.D., Johns Hopkins, 1997. Medieval and Early Modern Europe, Early Modern Germany, Modern Europe.
 Victoria Khiterer. Ph.D., Brandeis University, 2008. Russia, Eastern Europe, Holocaust and Genocide Studies.
 Clarence V. H. Maxwell. Ph.D., University of Warwick, 1999. Caribbean, Latin America, African Diaspora, Slavery.
 Erin J. Shelor. Ph.D., University of Kentucky, 2003. 19th-Century Europe, History of Medicine, Modern Britain.
 Mary Sommar. Ph.D., Syracuse University, 1998. Medieval Europe, History of Christianity, Legal History.
 Tracey Weis. Ph.D., Rutgers University, 1994. 19th-Century U.S., Civil War, African-American, Women's and Gender History.

THE PROGRAM

MASTER OF ARTS DEGREE IN HISTORY

Admission Requirements

The Master of Arts in history is available to all qualified candidates. Applicants should have a 3.0 GPA in history and an overall GPA of 2.8. Applicants must submit a writing sample of between 5 and 10 pages, preferably showing use of primary and secondary sources and a grasp of historical thinking. Applicants without academic training in history may be admitted probationally and may be asked to complete the sequence of introductory surveys in U.S. and European history. The Graduate Record Exam is required for applicants whose undergraduate CGPA is below 2.8. For additional admission information, refer to the *Admission Requirements* section.

Degree Requirements (36 s.h.)

I. General Requirements

- a. All students must take HIST 501, 502, 503, 505, 506, 507 and 520 (21 s.h.).
- b. All students must take 6 s.h. of History Seminar. Select from HIST 610, 611, 612, 691.
- c. A qualifying exam is required when a student has completed 9 s.h. but not more than 12 s.h. to advance to degree candidacy. Two field examiners plus one additional faculty member will conduct an oral examination based on previously written answers.

II. Thesis Option (9 s.h.)

Students who elect to write a thesis must register for HIST 699 (3 s.h.) and successfully defend an approved thesis based on original research; additionally, 6 s.h. of history electives are required.

III. Non-Thesis Option (9 s.h.)

Students who elect not to write a thesis are required to enroll in 9 s.h. of history electives, of which at least 3 s.h. must be at the 600 level.

The Department of History requires that all students enrolled in the M.A. program maintain the level of academic progress described in the *Academic Policies* section. In addition to University requirements, any student entering the history graduate program who receives a second C in his/her degree program is automatically suspended from the program. A student suspended on this basis must petition the department's chairperson and graduate faculty for reinstatement.

COURSE DESCRIPTIONS

HIST 501 Readings in United States History, Beginnings to 1815 (3) An intensive readings-and-discussion course focusing on the major issues and interpretations of early American history. Offered every third semester.

HIST 502 Readings in United States History, 1815-1919 (3) An intensive readings-and-discussion course focusing on the major issues and interpretations for the period 1815-1919. Offered every third semester.

HIST 503 Readings in United States History, 1919 to the Present (3) An intensive readings-and-discussion course focusing on the major issues and interpretations for the period since World War I. Offered every third semester.

HIST 505 Readings in Early Modern Europe, 1500-1789 (3) An intensive readings-and-discussion course focusing on the major issues and interpretations of early modern Europe. Offered every third semester.

HIST 506 Readings in the Age of Revolution, 1789-1914 (3) An intensive readings-and-discussion course focusing on the major issues and interpretations of European history from the French Revolution to the First World War. Offered every third semester.

HIST 507 Readings in Modern Europe, 1914 to the Present (3) An intensive readings-and-discussion course focusing on the major issues and interpretations of recent European history. Offered periodically.

HIST 508 Readings in Regional History (3) An intensive readings-and-discussion course focusing on major issues and interpretations in regional history (Africa, Latin America, Asia). Offered periodically.

HIST 510 Topics in United States History (3) A topical readings course devoted to selected issues and problems in the history of the United States. Offered annually.

HIST 511 Topics in European History (3) A topical readings course devoted to selected issues and problems in European history. Offered annually.

HIST 512 Topics in Regional History (3) A topical readings course devoted to selected issues and problems in regional and comparative history. Offered periodically.

HIST 520 Historiography and Historical Research (3) Essential to the practice of history are the ability to think historically, familiarity with its basic sources and an understanding of past historiographical traditions. This course seeks to offer instruction in the traditions of history writing that shaped and contextualized the present historiographical tradition, as well as provide training in the execution of various methods of historical research and writing. Offered annually.

Seminars

HIST 610 Seminar in United States History (3) A research seminar devoted to selected issues and problems in United States history. Offered annually.

HIST 611 Seminar in European History (3) A research seminar devoted to selected issues and problems in European history. Offered annually.

HIST 612 Seminar in Regional History (3) A research seminar devoted to selected issues and problems in regional and comparative history. Offered periodically.

HIST 691 Independent Study (1-3)

HIST 699 Thesis (3)

LANGUAGES AND CULTURES

GRADUATE FACULTY

Susanne Nimmrichter, Department Chairperson, Graduate Program Coordinator. Ph.D., University of Pennsylvania, 1997. German Linguistics, Second Language Acquisition.

Marco Antolín, Director, Spanish. Ph.D., Universidad de Valladolid, 2002. Comparative Poetry, 20th-Century Spanish Literature, Spanish History.

Wilfredo Valentín-Márquez. Ph.D., University of Michigan, 2007. Linguistics and Romance Languages.

THE PROGRAM

MASTER OF ARTS IN LANGUAGES AND CULTURES

(33 s.h.)

Core Courses (in English language)	9 s.h.
Communication in French, German or Spanish	6 s.h.
Culture in French, German or Spanish	6 s.h.
Electives for the Professions	12 s.h.

Millersville and West Chester universities launched a new joint graduate-degree program, the Master of Arts in Languages and Cultures, in fall 2014. This single joint degree will be presented by both language departments in collaboration and coordination to facilitate the prompt and successful completion of students' coursework. The 33-credit degree program may be completed on a full- or part-time basis.

The program contains three core seminars, totaling nine credits: LANC 501 Linguistic Studies, LANC 502 Interpretive Strategies, and LANC 503 Cultural Studies. These seminars are offered during each academic year in a distance-learning format, shared by both schools, and are taught in English to allow students in all three languages to study and work together.

Additionally, there is a general curriculum of 12-24 semester hours in the language of the student's choice, either French, German or Spanish, which includes courses in communicative proficiencies, critical analyses and cultural competencies.

Courses will be offered in all six academic sessions of each calendar year, including both semesters, the three summer sessions and the winter session.

To complete the master's degree, students may choose up to 12 semester credit hours from elective options, in accord with their experience, needs and future professional career plans. These include courses in other fields, such as education, nursing, marketing, criminal justice, study abroad or an internship. A minimum of six credit hours in the elective area must be completed in the target language as the language of instruction.

MILLERSVILLE UNIVERSITY LANGUAGE SUMMER PROGRAMS

To meet the growing need on the part of world-language teachers and certain other professionals for intensive exposure to the spoken language and to the culture of the country, Millersville University created the Language Summer Program for graduate students in 1967.

Summer programs rest on two principles: A higher level of proficiency can be achieved only by intensive exposure to the spoken language through the exclusion of English, and that although graduate credits can be awarded only for work in the classroom, much of the professional value in terms of information, knowledge, skills and attitudes is acquired in extracurricular activities.

The Language Summer Programs are staffed with native instructors and others who speak with near-native fluency. All courses and lectures are given in the target language of each program, and social life is carried out entirely in that language. Students are encouraged to take their meals together in the University's dining room. The program is open only to students who are willing to observe the no-English principle at all times.

For complete details, including the courses to be offered in the summer, visit the website of the Languages and Culture Studies department at www.millersville.edu/languages.

Admission Requirements

A bachelor's degree is required for admission to the graduate program. Applicants must meet established University admission criteria, including receiving the Advanced Low level on both the ACTFL (American Council on the Teaching of Foreign Languages) Oral Proficiency Interview (OPI) or Oral Proficiency Interview by Computer (OPIc) and ACTFL Writing Proficiency Test (WPT). Students scoring less than the Advanced Low level will be retested after completion of the first three courses in the program.

Degree Candidacy

Degree candidacy will be determined by the graduate faculty after students have completed 9 s.h. at Millersville University with a 3.0 GPA or better.

REQUIREMENTS FOR THE M.A. DEGREE

Requirements for all students are uniform and include a specialized written and oral exam, or a written research project with an oral presentation, or a portfolio defended in an oral exam with the faculty.

Required Core Courses for All Students (9 s.h.)

- LANC 501** Linguistic Studies
- LANC 502** Interpretive Strategies
- LANC 503** Cultural Studies

I. Communication (6 s.h.)

All students—French, German and Spanish—choose from their respective communication courses that are offered.

II. Culture (6 s.h.)

All students—French, German and Spanish—choose from their respective culture courses that are offered.

III. Electives for the Professions (12 s.h.)**

All students—French, German and Spanish—may choose any additional courses in their respective communication and culture courses that are offered.

All students—French, German and Spanish—may choose approved courses in a specialty area from another department.

All students—French, German and Spanish—may not choose more than two courses which are taught in English.

No more than three courses can be transferred from another university, other than West Chester.

FRENCH**I. Communication (6 s.h.)**

(At least four courses required)

- FREN 509** Applied Linguistics (3)
- FREN 512** Phonetics (3)
- FREN 523** Stylistics and Composition (3)
- FREN 524** Translation/Interpretation (3)
- FREN 525** Advanced Oral Practice and Self-Expression (3)
- FREN 531** Evolution of the French Language (3)

II. Culture (6 s.h.)

- FREN 541** History of France to 1789 (3)
- FREN 542** History of France from 1789 to Present (3)
- FREN 551** Geography of France, Physical and Economic (3)
- FREN 561** Survey of French Art (3)
- FREN 571** Aspects of Contemporary France (3)
- FREN 581** Seminar in Medieval Literature (3)
- FREN 582** Seminar in Renaissance Literature (3)
- FREN 583** Seminar in 17th-Century Literature (3)
- FREN 584** Seminar in 18th-Century Literature (3)
- FREN 585** Seminar in 19th-Century Literature (3)
- FREN 586** Seminar in 20th-Century Literature (3)

III. Electives for the Professions (12 s.h.)**

- FREN 589** Current Topics (3)
- FREN 698** Research Paper (3) (Independent Study)
- FREN 699** Thesis (3) (must be recommended by advisor)

**See electives under requirements for the M.A. degree.

GERMAN**I. Communication (6 s.h.)**

- GERM 509** Applied Linguistics (3)
- GERM 512** Phonetics (3)
- GERM 522** Composition (3)
- GERM 523** Stylistics and Composition (3)
- GERM 524** Translation and Interpretation (3)
- GERM 531** Evolution of the German Language (3)

II. Culture (6 s.h.)

- GERM 541** History of the German-Speaking Peoples to the Congress of Vienna (3)
- GERM 542** History of the German-Speaking Peoples from the Congress of Vienna to the Present (3)
- GERM 551** Geography of the German-Speaking Countries, Physical and Economic (3)
- GERM 561** Survey of German Art (3)
- GERM 571** Aspects of Contemporary Germany (3)
- GERM 581** Seminar in Medieval German Literature (3)
- GERM 582** Seminar in the Literature of Humanism and the Reformation (3)
- GERM 583** Seminar in the Literature of the Baroque Period (3)
- GERM 584** Seminar in the Literature of the Classical Period (3)

GERM 585 Seminar in 19th-Century German Literature (3)

GERM 586 Seminar in 20th-Century German Literature (3)

III. Electives for the Professions (12 s.h.)**

GERM 589 Current Topics (3)

GERM 698 Research Paper (3) (Independent Study)

GERM 699 Thesis (3) (must be recommended by advisor)

**See electives under requirements for the M.A. degree.

SPANISH

I. Communication (6 s.h.)

SPAN 509 Applied Linguistics (3)

SPAN 512 Phonetics (3)

SPAN 522 Composition (3)

SPAN 523 Stylistics and Composition (3)

SPAN 524 Translation and Interpretation (3)

SPAN 525 Advanced Oral Practice and Self-Expression (3)

SPAN 531 Evolution of the Spanish Language (3)

II. Culture (6 s.h.)

SPAN 541 History of Spanish Civilization (3)

SPAN 542 History of Spanish-American Civilization (3)

SPAN 551 Geography of Spain, Physical and Economic (3)

SPAN 561 History of Hispanic Art (3)

SPAN 571 Aspects of Contemporary Spain (3)

SPAN 572 Aspects of Contemporary Latin America (3)

SPAN 581 Seminar in Medieval Spanish Literature (3)

SPAN 582 Seminar in Renaissance Literature (3)

SPAN 583 Seminar in Golden-Age Literature (3)

SPAN 584 Seminar in 18th-Century Literature (3)

SPAN 585 Seminar in 19th-Century Literature (3)

SPAN 586 Seminar in 20th-Century Literature (3)

SPAN 587 Seminar in Latin American Literature (3)

III. Electives for the Professions (12 s.h.)**

SPAN 589 Current Topics (3)

SPAN 698 Research Paper (3) (Independent Study)

SPAN 699 Thesis (3) (must be recommended by advisor)

**See electives under requirements for the M.A. degree.

COURSE DESCRIPTIONS

COMMON CORE COURSES

LANC/LNC 501 Linguistic Studies (3) The study of the basics of linguistics as the scientific, principled analysis of language and the applications of linguistics to a variety of fields of human activity, including language teaching, translation and interpretation, and the study of language use in professional contexts. Online course which is taught in English, but examples and some of the coursework are dedicated to French, German and Spanish—the languages of the MALC program.

LANC/LNC 502 Interpretive Strategies (3) A course for students of world languages and cultures which helps them develop advanced critical and analytical skills to be applied to texts of different genres and cultures in the target language of study. Online course which is taught in English, but examples and some parts of the coursework are dedicated to French, German and Spanish—the languages of the MALC program.

LANC/LNC 503 Cultural Studies (3) The theoretical and practical approaches to the study of cultural context, practice and production. Students will explore the various threads of modern cultural criticism to interpret cultural products and practices in terms of local-global tensions. Students will also learn how to apply these methodologies to cultural contexts in their target language of specialization.

FRENCH

FREN 509 Applied Linguistics (3) Analysis of the language as behavior, and emphasis on the priority of the spoken language in a systematic study of its structure. Comparison with English to explain and avoid errors of pronunciation and syntax resulting from intrusion of one's native language. Required for degree.

FREN 512 Phonetics (3) Scientific approach to correct formation of French sounds in isolation and in combination. Remedial drill. Language laboratory experience. Required for M.A. degree.

FREN 523 Stylistics and Composition (3) Designed to give students a feeling for French style in writing, a sense of shades of meaning and a mastery of certain difficulties of grammar and syntax. Writing of compositions and participation in the student newspaper. Required for degree.

FREN 524 Translation and Interpretation (3) Intended for students who already have a firm oral and written command of French, but lack experience in necessary techniques and need expert guidance in learning to avoid the pitfalls inherent in transposing thought from one language to another. Emphasis on the importance of style, exactness of expression and use of the dictionary. Practical exercises in technical, scientific, commercial, journalistic and political language. Introduction to consecutive and simultaneous oral interpretation.

FREN 525 Advanced Oral Practice and Self-Expression (3) For advanced students who already possess fluency but need practice in acquiring the habit-forming processes and spontaneous assimilation of spoken-language patterns necessary for mature self-expression. Oral reports and guided discussion. Students in the course will be expected to assume leadership roles in activities of the school, such as public speaking, dramatics, newspaper, etc.

FREN 531 Evolution of the French Language (3) Analysis of the history of the language from Vulgar Latin to the present. Phonology and morphology. May be counted in the civilization and literature block.

FREN 541 History of France to 1789 (3) Formation and development of France from the Middle Ages to the Revolution of 1789, with emphasis on the 16th century (religious wars), the 17th century (the age of Louis XIV) and the 18th century (the coming of the Revolution).

FREN 542 History of France from 1789 to the Present (3) French civilization from the Revolution to the contemporary period.

FREN 551 Geography of France, Physical and Economic (3) Emphasizes the role of France's geography in her economic and cultural development.

FREN 561 Survey of French Art (3) Treats in broad fashion France's contributions to art and music. Considerable use is made of films, slides and recordings.

FREN 571 Aspects of Contemporary France (3) Selected view of current developments in France of significance to its inhabitants. Aspects treated are among the following: internal politics, foreign affairs, economy, educational system, sociological changes, arts and sciences.

***FREN 581 Seminar in Medieval French Literature (3)**

***FREN 582 Seminar in Renaissance Literature (3)**

***FREN 583 Seminar in 17th-Century Literature (3)**

***FREN 584 Seminar in 18th-Century Literature (3)**

***FREN 585 Seminar in 19th-Century Literature (3)**

***FREN 586 Seminar in 20th-Century Literature (3)**

***FREN 589 Current Topics (3)** In-depth investigation and development of a topic of current interest not normally covered in regular courses. Special topics to be covered will vary to meet the challenge of timeliness and appropriateness.

FREN 698 Research Report (3)

FREN 699 Thesis (3)

**Precise title of seminar is announced on the website of the Language and Culture Studies department at www.millersville.edu/languages. Subject matter generally varies from year to year to permit concentration on different authors, works, movements and genres.*

GERMAN

GERM 509 Applied Linguistics (3) Study of second-language acquisition. A systematic description of the structure of the German language. Comparison of the structures of English and German, and the practical implications for foreign-language teaching. Required for degree.

GERM 512 Phonetics (3) Careful analysis and practice of German sounds in isolation and in combination. Includes study of diction and intonation. Includes work in the language lab and recitation before the student body. Required for M.A. degree.

GERM 522 Composition (3) Practice in writing with a view to avoidance of anglicisms in syntax and vocabulary. Grammar treated on a remedial basis to foster correctness in expression. Vocabulary building. Emphasis on production of idiomatic German.

GERM 523 Stylistics and Composition (3) Careful analysis of, and practice in, writing on a variety of stylistics levels. Contrast of written with oral stylistics. Emphasis on grammatical and syntactical constructions that occur primarily in the written language. Required for degree.

GERM 524 Translation and Interpretation (3) Intended for students who already have a firm oral and written command of German but who, for lack of experience in the necessary techniques, need expert guidance in learning to avoid the pitfalls inherent in transposing thought from one language to another. Emphasis on the importance of style, exactness of expression and use of the dictionary. Practical exercises in technical, scientific, commercial, journalistic and political language. Introduction to consecutive and simultaneous oral interpretation.

GERM 531 Evolution of the German Language (3) The evolution of the German language from Proto-Germanic to the present day. Linguistic variation and change as reflected in the German language today. Dialects and the influence of other languages on German. Comparison of Germanic languages, in particular of German and English.

GERM 541 History of the German-Speaking Peoples to the Congress of Vienna (3) Traces the development of the German-speaking peoples on a political, social and cultural basis from prehistoric times and the Germanic past, to the rise and fall of the Holy Roman Empire, the peace settlements of the Congress of Vienna and the age of Goethe.

GERM 542 History of the German-Speaking Peoples from the Congress of Vienna to the Present (3) Lectures, discussions and outside readings in the history of the Austrians, Germans and Swiss-Germans from the Congress of Vienna to the present day.

GERM 551 Geography of the German-Speaking Countries, Physical and Economic (3) Emphasizes the role of geography in the economic and cultural development of the German-speaking countries.

GERM 561 Survey of German Art (3) Treats in broad fashion the contributions of the German-speaking countries to civilization in the domains of art, music and architecture.

GERM 571 Aspects of Contemporary Germany (3) Selected view of current developments in Germany of significance to its inhabitants. Subjects treated: internal politics, foreign affairs, economy, educational system, sociological changes, arts and sciences.

***GERM 581 Seminar in Medieval German Literature (3)**

***GERM 582 Seminar in the Literature of Humanism and the Reformation (3)**

***GERM 583 Seminar in the Literature of the Baroque Period (3)**

***GERM 584 Seminar in the Literature of the Classical Period (3)**

***GERM 585 Seminar in 19th-Century German Literature (3)**

***GERM 586 Seminar in 20th-Century German Literature (3)**

***GERM 589 Current Topics (3)** In-depth investigation and development of a topic of current interest not normally covered in regular courses. Special topics to be covered will vary to meet the challenge of timeliness and appropriateness.

GERM 698 Research Report (3)

GERM 699 Thesis (3)

**Precise title of seminar is announced on the website of the Language and Culture Studies department at www.millersville.edu/languages. Subject matter varies annually to permit concentration on different authors, works, movements and genres.*

SPANISH

SPAN 509 Applied Linguistics (3) Analysis of the language as behavior, and emphasis on the priority of the spoken language in a systematic study of its structure. Comparison with English to explain and avoid errors of pronunciation and syntax resulting from intrusion of one's native language. Required for degree.

SPAN 512 Phonetics (3) A combination of theoretical lessons with practical exercises aimed at imparting native or near-native accents. Includes study of diction and intonation. Students are required to give readings and dramatic presentations in class and before the student body. Required for M.A. degree.

SPAN 522 Composition (3) Practice in writing with a view to avoidance of anglicisms in syntax and vocabulary. Grammar treated on a remedial basis to foster correctness of expression. Vocabulary building. Emphasis on production of idiomatic Spanish.

SPAN 523 Stylistics and Composition (3) Designed to give students a feeling for Spanish style in writing, a sense of shades of meaning and a mastery of certain difficulties of Spanish grammar and syntax. Writing of original compositions, précis writing and translation from English to Spanish. Required for degree.

SPAN 524 Translation and Interpretation (3) Intended for students who already have a firm oral and written command of Spanish, but need expert guidance in learning to avoid the pitfalls inherent in transposing thought from one language to another. Emphasis on the importance of style, exactness of expression and use of the dictionary. Practical exercises in technical, scientific, commercial, journalistic and political language.

SPAN 525 Advanced Oral Practice and Self-Expression (3) For advanced students who already possess fluency, but need practice in acquiring the habit-forming processes and spontaneous assimilation of spoken-language patterns necessary for mature self-expression. Oral reports and guided discussion. Students in the course will be expected to assume leadership roles in activities of the school, such as public speaking, dramatics, newspaper, etc.

SPAN 531 Evolution of the Spanish Language (3) Historical survey of the development of the Spanish language from its Latin beginnings and its later influences to the languages of today. Particularly recommended for students within a summer or two of their comprehensive examinations.

SPAN 532 Spanish Pragmatics (3) Application of philosophical, sociological and linguistic theory to the use of language in the professional workplace. Interdisciplinary analyses of how and why Spanish speakers choose to use particular language forms that convey different linguistic possibilities and different meanings in different cultural contexts.

SPAN 541 History of Spanish Civilization (3) A study of Spain, with special emphasis on the historical development of its intellectual, social and cultural life.

SPAN 542 History of Spanish-American Civilization (3) Traces the main currents of Latin American civilization from its prehistoric beginnings to the present.

SPAN 551 Geography of Spain, Physical and Economic (3) Emphasizes the role of Spain's geography in her economic and cultural development.

SPAN 561 History of Hispanic Art (3) Broad treatment of the contributions to civilization made by the Spanish-speaking peoples in the domains of art, music and architecture. Considerable use of visual materials and recordings.

SPAN 571 Aspects of Contemporary Spain (3) Presents a selected view of current developments in Spain of significance to its inhabitants. May include internal politics, foreign affairs, economy, educational system, sociological changes, arts and sciences.

SPAN 572 Aspects of Contemporary Latin America (3) Selected view of significant, current developments in a number of Latin American countries. May include internal politics, foreign affairs, economy, educational system, sociological changes, arts and sciences.

***SPAN 581 Seminar in Medieval Spanish Literature (3)**

***SPAN 582 Seminar in Renaissance Literature (3)**

***SPAN 583 Seminar in Golden-Age Literature (3)**

***SPAN 584 Seminar in 18th-Century Literature (3)**

***SPAN 585 Seminar in 19th-Century Literature (3)**

***SPAN 586 Seminar in 20th-Century Literature (3)**

***SPAN 587 Seminar in Latin American Literature (3)**

***SPAN 589 Current Topics (3)** In-depth investigation and development of a topic of current interest not normally covered in regular courses. Special topics to be covered will vary to meet the challenge of timeliness and appropriateness.

SPAN 698 Research Report (3)

SPAN 699 Thesis (3)

**Precise title of seminar is announced on the website of the Language and Culture Studies department at www.millersville.edu/languages. Subject matter varies annually to permit concentration on different authors, works, movements and genres.*

COLLEGE OF EDUCATION AND HUMAN SERVICES

EDUCATIONAL FOUNDATIONS:

Doctor of Education in Educational Leadership

Leadership for Teaching and Learning

Assessment, Curriculum and Teaching

GRADUATE FACULTY

Millersville University

Tim Mahoney, Department Chairperson. Ph.D., University of Colorado, 2000. Educational Foundations, Policy and Practice.

Oliver Dreon, Graduate Program Coordinator, Assessment, Curriculum and Teaching. Ph.D., The Pennsylvania State University, 2008. Curriculum and Instruction.

Beth Powers, Graduate Coordinator, Early Childhood Education. Ph.D., University of North Carolina, 2007. Doctoral Research.

Tiffany E. Wright, Ed.D. Program Coordinator, Leadership for Teaching and Learning and joint Ed.D. program in Education Leadership. Ed.D., Johns Hopkins University, 2009. Instructional Leadership, Diversity Issues in Education, Educational Administration.

Sarah Brooks. Ph.D., University of Virginia, 2010. Social Studies Education.

Anne Carroll. M.Ed., Millersville University, 2003. Leadership for Teaching & Learning.

Sandra A. Deemer. Ph.D., University of Delaware, 2000. Educational Psychology.

Ojoma M. Edeh-Herr. Ph.D., Columbia University, 1998. Autism, Behavior Disorders, Intellectual Disabilities, Research, Methodology, Social Learning Curriculum.

Ann Gaudino. Ed.D., University of Pittsburgh, 2008. Educational Administration and Policy Analysis.

Laurie Hanich. Ph.D., University of Delaware, 2001. Educational Psychology.

Camille Hopkins. M.Ed., Millersville University, 2005. Leadership for Teaching & Learning.

Aileen P. Hower, Graduate Program Coordinator for Language and Literacy. Ed.D., Widener University, 2013. Literacy Education, Leadership, Exceptional Learners.

Stacey O. Irwin. Ph.D., University of Maryland, 2002. Communication and Theatre.

Ann Marie Licata. Ph.D., Marywood University, 2006. Human Development, Instructional Leadership.

Ellen M. Long. Ph.D., The Pennsylvania State University, 2000. Transition Planning for Individuals with Disabilities, Adolescents with Disabilities, Legal Issues and Accommodations for College Students with Disabilities, Inclusion, Vocational Rehabilitation Counseling.

Louise Manfredi. Ph.D., University of Leeds, 2006. STEM Endorsement.

Nanette Marcum-Dietrich. Ph.D., University of Delaware, 2005. Curriculum and Instruction, Science Education.

Karen Nell. Ed.D., Temple University, 2012. Educational Administration.

Thomas J. Neuville. Ph.D., University of Colorado, 1999. Normalization, Collaborative Learning, Individuals with Intellectual Disabilities, Transition, Inclusive Postsecondary.

Stephanie Penucci. Ed.D., Liberty University, 2016, Education Librarian.

Jason Petula. Ph.D., The Pennsylvania State University, 2007. Curriculum and Instruction, Science Education.

Theresa A. Russell-Loretz. Ph.D., Purdue University, 1995. Communications.

Scott A. Warner. Ed.D., West Virginia University, 2000. Product Design, Manufacturing, Professional.

Jeffrey Wimer. Ph.D., University of Dayton, 2000. Educational Leadership, Sports Medicine, Methods of Research, Sport Administration.

The faculty of the Department of Educational Foundations teach courses in the Professional Core; Ed.D. Program; M.Ed. Program for Teaching and Learning; M.Ed. Program for Assessment, Curriculum and Teaching; Certification Program in Supervision; Post-Baccalaureate Secondary Certification and elective courses in education.

Shippensburg University

Rhonda Brunner, Graduate Program Coordinator, Ed.D., The Pennsylvania State University, 2009. Educational Leadership.

Wendy Kubasko, Ed.D., Arizona State University, 2015. Educational Leadership & Innovation.

Alan Van Drew, D.Ed., Indiana University of Pennsylvania. Administration and Leadership Studies

M.ED. PROFESSIONAL CORE

See *M.Ed. Professional Core* section for requirements; education course descriptions are included in this section. See *Psychology* section for psychology courses.

CERTIFICATION PROGRAM IN ADMINISTRATION

See the *Leadership for Teaching and Learning* section for requirements and course descriptions.

CERTIFICATION PROGRAM IN SUPERVISION

See the *Supervisory Certification Program* section for requirements and course descriptions.

Electives in Education

Inclusion of these educational foundations electives in a master's degree program must be approved in writing by the major advisor. Nondegree and certification students may elect to include some of these electives in their program of study.

COURSE DESCRIPTIONS

M.ED. PROFESSIONAL CORE COURSES

EDFN 511 Comparative Education (3) Analyze crucial educational questions and issues using the comparative method. Cross-cultural studies pursued in a multidisciplinary format will help participants discover how education serves economic, sociopolitical, ideological and other purposes, and how it reflects the historically derived tensions within national development. Factors underlying similarities and differences in various cultures, nations and contexts are studied. Includes appraisal of educational issues from a global perspective. Offered annually.

EDFN 545 Advanced Educational Psychology (3) A review of psychological principles as they relate to human learning in the urban and nonurban setting. Special consideration is given to motivational and developmental factors in the school that influence students' learning. Additional topics include examination of assessment and evaluation practices, classroom management and accommodating individual differences.

EDFN 590 Social Foundations of Education (3) An analysis of the K-12 school system of the U.S. philosophical and historical influences, significance of education in society, contemporary problems in schooling, challenges and requirements of the profession. Prereq: recommended for students who have earned a baccalaureate degree and seek Pennsylvania teacher certification. Offered annually.

EDFN 601 Methods of Research (3) Introduces methods of empirical educational research. Emphasis on training individuals to be intelligent consumers of educational research. It is strongly recommended that the course be taken early in the student's program.

EDFN 603 Philosophy of Education (3) An analysis of current and perennial education problems using the tools of the philosopher: logic, language analysis and inquiry, and phenomenological description. Students articulate their own beliefs and assumptions about education as well as critically examine and evaluate selected texts. Offered annually.

EDFN 604 Education and Public Policy (3) An analysis of public policy development in the field of education. Major questions to explore include: (1) Who governs education? (2) What are the processes by which policies are formulated? (3) What values are reflected in specific present policy or proposed reform? (4) What do we know about reforming education? (5) How useful is social science research in the formulation of educational policy? Offered annually.

OTHER EDUCATIONAL FOUNDATIONS COURSES

EDFN 512 Women and Education: Socialization and Liberation (3) This course uses philosophical analysis and a sociology of knowledge approach to examine women's and girls' experiences with respect to educational institutions as they exist in America today. These concerns will be explored in an interactive fashion, examining how educational activities alter the nature of that enterprise. The course will examine the role and experiences of women of color and women with less privileged economic status.

EDFN 513 Sexual Orientation and Schooling (3) Students will study the history of sexual orientation, the research on school climate related to sexual orientation of students and professionals, knowledge of current laws and policies, and recommended practices for supporting LGBTQ youth and educators.

EDFN 520 Instructional Technology in Elementary Education (3) Students use case studies to explore the uses of technology and its application in elementary education. Topics include computer basics, applications software, curriculum integration, evaluation of educational software, telecommunication and multimedia presentation systems. Students are provided a series of hands-on experiences with hardware and software to develop the skills and competencies required of the elementary education teacher. Offered regularly. Students may not receive credit for both EDFN 520 and any of the following courses: EDFN 130, 320, 330, 333, 530, 533 and EDAR 330.

EDFN 530 Instructional Technology, Design and Assessment (3) Instructional design and assessment will be used as a basis for planning and evaluating the use of technology for student-centered teaching and learning within specific disciplines. Must be taken as a block with EDSE 321 (or graduate equivalent) and the Teaching of Methods class required in each secondary certification program. Students may not receive credit for both EDFN 530 and any of the following courses: EDFN 130, 320, 330, 333, 520, 533 and EDAR 330.

EDFN 533 Instructional Technology in Special Education (3) Technology for professional development, teaching methodology and student interactions in the field of special education is explored. Through hands-on experience, students develop skills and competencies in the use of computer and related technologies to support tasks associated with the profession. Develops the ability to apply appropriate technology to appropriate situations in education. Students may not receive credit for both EDFN 533 and any of the following courses: EDFN 130, 320, 330, 333, 520, 530 and EDAR 330.

EDFN 560 Post-Baccalaureate Clinical Practicum in Student Teaching (12) This course will provide teacher preparation at an advanced level for graduate students. Taken in sequence with EDSE 561, Graduate Student Teaching, this class will provide a yearlong, field-based experience for post-baccalaureate students who are seeking to change careers through teacher certification. This class will satisfy the professional elements of teacher certification requirements and provide graduate instruction equivalent to the undergraduate Advanced Professional Studies courses. Student records will be evaluated on an individual basis, and other experiences and independent study assignments will be required based on their previous preparation.

Students will be required to meet entrance criteria for this experience that include a specific grade-point average, satisfactory clearances (Act 34, Act 114 and Act 151) and successful completion of specific department and state requirements. This course sequence of EDFN 560 and EDFN 561 may not be applied as graduate credit toward a master’s degree program.

EDFN 561 Student Teaching (6-12) This course will focus on student teaching at an advanced level for graduate students. Post-baccalaureate students will take this course upon completion of their teacher preparation coursework.

EDFN 586-589 Topics in Education (3) Investigation and development of educational topics of current interest not normally covered in regular courses. Special topics and methods will vary according to the needs of students involved. Offered periodically.

EDSE 521 Contemporary Issues in Secondary Education (3) Examines the role of the secondary teacher, issues encountered in the classroom and classroom interactions. Open only to post-baccalaureate students who are employed as full-time teachers but have not completed certification. Offered in summer. Prereq: EDFN 211 or EDFN 590, and EDFN 241 or EDFN 545; admission to advanced professional studies.

EDFN 621 Developing Principles of Teaching in Urban Schools (3) This course enables urban-school practitioners to develop personal principles of understanding and of action based in research and theory. The course specifically examines how teachers understand and respond to the challenge of teaching, the subject matter and the student as these relate to urban communities and schools. Prereq: This course is recommended for new and veteran teachers in urban districts. It may also be taken by those preparing for teaching certification at the graduate level and who intend to teach in an urban school.

EDFN 622 Essential Strategies for the Urban Classroom (3) Exploration and practical application of essential strategies that may be effective in the urban classroom. Prereq: This course is recommended for new and veteran teachers at urban schools. It is also recommended that EDFN 621 be taken prior to enrolling in this course.

EDSU 799 Applied Supervision: Secondary Education (6) Required field experience for those seeking supervisory certification in Curriculum and Instruction, English, world languages, mathematics, science and social studies. The student submits a work/study proposal that must include a unit of work involving the observation and supervision of teachers and selected other units of work from such areas as scheduling, budget preparation, staff development, curriculum, community relations, etc. All proposals must be approved by the educational foundations department and sanctioned by the administration of the school where the field experience is to occur. Offered periodically.

THE PROGRAMS

DOCTOR OF EDUCATION IN EDUCATIONAL LEADERSHIP

The Doctorate in Educational Leadership (Ed.D.), offered in partnership with Shippensburg University, focuses on poverty and technology. It is designed to provide rising school district, state-level and organizational leaders with the knowledge, skills and dispositions to develop and implement programs that support the Commonwealth’s children in realizing their full academic potential in a wide variety of educational settings. Coursework is delivered in a variety of frameworks to include traditional face-to-face, blended, online and integration of other cyber applications where appropriate. It is a great option for school personnel who are currently employed in professional positions.

Note: A transition program will be available for selected candidates who already hold a Letter of Eligibility, have completed the Leadership Residency Program, do not meet the PDE experience requirements or who hold a master’s degree but need additional coursework to meet the prerequisite program entry conditions.

Admission Requirements

- Graduate application and application fee.
- Transcripts from all previous colleges and universities, including any additional certification program(s). Note: A master’s degree in education or a related field is required.
- Current resume or curriculum vitae, including current/past leadership positions, specific leadership responsibilities and experiences.
- Applicants must hold positions which would require a certificate in administration or supervision, and they must hold an administrative certification.
- Three letters of recommendation, one of which should be from a school district superintendent or chief organization administrator if not employed at a school district.
- 500- to 1000-word goal statement addressing the applicant’s goals and objectives for doctoral study in educational leadership and how this program will assist them in achieving those outcomes.

Note: Applicants are required to provide all administrative and teaching certifications and endorsements currently held.

Foundations Cluster

- ELPP 832 Introduction to Executive Leadership (3)
- ELPP 822 Communication Theory for School District Administrators (3)
- ELPP 828 Emergent Technologies and Instructional Practices (3)
- ELPP 829 Political/Social Context for Educational Leadership (3)

Residency Cluster*

- ELP 721R Strategic Leadership in District Governance and Community Relations (4)
- ELP 727R Instructional and Technology Leadership at the Executive Level (4)
- ELP 726R Optimizing Financial Resources to Support District-Level Achievement (4)
- ELP 724R Ethical and Legal Decision Making at the District Level (4)

ELP 723R Negotiations and Personnel Strategic Decision Making (4)
 ELP 725R The Impact of Facilities and Plant Management Decisions on School Effectiveness (4)
 *Requires a minimum of 540-600 hours of fieldwork.

Seminar Cluster

ELPP 890 Recent Research in Executive Leadership I (1 credit each) (2)
 ELPP 891 Recent Research in Executive Leadership II (1 credit each) (2)

Cognate Cluster (Choose 6 credits total through advisement)

Course options that focus on poverty, social welfare policy, special education law and/or diversity could be taken, although individual students may opt to select other approved Shippensburg or Millersville courses with advisor approval. (6)

Research Cluster

ELPP 831 Statistics (3)
 ELPP 830 Quantitative Research in Educational Leadership (3)
 ELPP 820 Introduction to Research in Educational Leadership (3)
 ELPP 808 Quantitative Research in Educational Leadership (3)

Dissertation Cluster

ELPP 897 Dissertation Seminar (3)
 ELPP 898 and 899 Dissertation (6)

Total credits: 62

Ed.D. Program Examinations

Candidacy Exam: The purpose of the candidacy examination is to determine whether or not the student has shown sufficient growth during the first three semesters of the program to suggest that he/she is ready to pursue a more in-depth approach to the knowledge, skills and dispositions expected of the scholar/practitioner. The candidacy exam is designed to allow each candidate to be involved in examining research-based articles in the field. The exam will take place in two parts and must be completed by the end of the fourth semester in the program. The first part will consist of research article analysis and synthesis, and the second part will be an oral defense.

Comprehensive Exam: The purpose of the comprehensive examination is to ensure that each student has achieved a fundamental knowledge base and the ability to accurately and appropriately apply the knowledge before proceeding to the relatively independent scholarship involved in the dissertation process. Knowledge, integration and application of scholarship are essential for the success in independent scholarly work. Comprehensive examinations then are part of the developmental process and the assessment opportunities available within the doctoral program. The comprehensive examinations will be offered at the point when the student has completed all the courses associated with the Superintendent's Letter of Eligibility as well as research courses and doctoral core courses.

Note: The APA style of citation will be used for the Ed.D. program and dissertations.

REQUIRED COURSES

ELPP 808 Qualitative Research Methods in Educational Leadership (3) This course is designed to prepare school leaders for leadership positions in public education. It intends to help postgraduate students in defining an appropriate mode of qualitative inquiry related to a chosen topic of study. The course has been constructed to guide students through a range of issues and considerations, which should inform their general approach to qualitative research. It will give students a general understanding of postgraduate and professional qualitative research, its methodologies, its challenges and its organization. Students will be introduced to a range of research tools and will be equipped to plan and organize their research, as well as to communicate their findings with academic, school district and community audiences.

ELPP 820 Introduction to Research in Educational Leadership (3) This course will provide an introduction to educational research - qualitative, quantitative, and mixed method designs. The primary purpose of the course is to develop the skills and disposition needed to be a critical consumer of educational research. Students will learn the key characteristics, strengths and limitations of various research designs. Students will learn to critique the research methodologies employed by various studies and to synthesize the findings of multiple studies on a specific educational topic/problem.

ELPP 822 Communication Theory for School District Administrators (3) This course is concerned with communication processes within an organization. It focuses on the sending, the receiving and the interpreting of messages. Principles of downward, upward and lateral systems are investigated. Case studies, specific to traditionally underserved and marginalized populations, including but not limited to those living in poverty, students learning English as another language, and students with disabilities, are employed to illustrate typical problems that arise and the methodologies devised for successful resolutions to achieve effective communication. Designed for students to learn how to represent a school district to all internal and external constituents, including the wider community.

ELPP 828 Emergent Technologies and Instructional Practices (3) Designed to provide future school and district administrators with the requisite skill sets and conceptual knowledge needed for effective 21st-century leadership. Topics explored include technology integration, digital citizenship, use of technology in systematic organizational improvement, professional growth, digital culture and visionary leadership. In addition to developing personal philosophies regarding use of technology in teaching, learning and leading, each student develops a personal portfolio of resources.

ELPP 829 Political/Social Context for Educational Leadership (3) Examines the theories of leadership and organization, and their applications to administrative practices. Sociological, psychological and organizational models are described and analyzed to gain insight into administrative practices and processes such as decision making, group motivation, goal setting, delegating, conflict resolution and site-based management. Extensive research of current practices, including but not limited to programming for those living in poverty, students learning English as another language and students with disabilities, is required. Course is designed to target current issues and problematic situations facing the central office administrator in today's dynamic system of public education.

ELPP 830 Quantitative Research in Educational Leadership(3) This course is designed to prepare school leaders for leadership positions in public education. It intends to help postgraduate students in defining an appropriate mode of quantitative inquiry related to a chosen topic of study. The course has been constructed to guide students through a range of issues and considerations, which should inform their general approach to quantitative research. It will give students a general understanding of postgraduate and professional quantitative research, its methodologies, its challenges and its organization. Students will be introduced to a range of research tools and will be equipped to plan and organize their research, as well as to communicate their findings with academic, school district and community audiences.

ELPP 831 Educational Statistics (3) Designed to enable the student to interpret the scientific literature in education and psychology, and to make the computations involved in the use of tests and original investigations that require statistical technique. Measures of central tendency, variability and correlations are included, as are knowledge of and evaluation of effect-size research related to instructional practices, leadership practices and educational policy.

ELPP 832 Introduction to Executive Leadership (3) Introductory study of the organization and administration of American public education for persons interested in pursuing a professional career in educational administration. Students will examine theories of leadership based on cooperation, empowerment and facilitation of change. A basic understanding of educational leadership is developed through integration of theory, knowledge and actual practice. Focusing on the multifaceted roles of school/district leaders, students will study the role of an executive leader through the lens of the executive leader as a learner, mentor, instructional leader, supervisor, manager, politician, advocate and innovator. Combining theory with practice, students will obtain a deeper understanding of the complexity of leadership within traditional and nontraditional school and district settings, including but not limited to urban and multilingual schools and/or blended and online learning environments.

ELPP 890 Research in Educational Leadership I (1) The purpose of the course is to help students identify potential dissertation topics in the field of educational leadership such that when they pass their comprehensive examinations, the dissertation topic will have been identified as a viable, researchable topic. This course brings together a group of students periodically throughout the program and examines with several faculty members areas of possible research in the field of executive leadership in concert with the program themes of poverty and digital learning. Students with a well-conceived idea present their ideas, background and potential methodologies to the group and address questions about the viability of the research. Students are introduced to a variety of sources that may help them refine their ideas or locate alternative ideas based on their interests as they entered the program.

ELPP 891 Research in Educational Leadership II (1) The purpose of this course is to provide a continuation of the work completed in ELPP 890 I to help students identify and refine potential dissertation topics in the field of educational leadership. The course reinforces the collaboration between a group of students and faculty members established in ELP 890 I as they continue to examine possible areas of research in the field of executive leadership in concert with the program themes of poverty and digital learning. Students continue to explore their ideas, provide background information, examine potential methodologies with a collegial faculty and candidate group, address questions about the viability of possible research ideas and be introduced to a variety of sources that may help them refine their ideas or locate alternative areas of exploration based on their interests.

ELP 721R Strategic Leadership in District Governance and Community Relations (4) Provides an initial exploration and exposure to leadership roles at the district setting and should be taken as part of a candidate's practicum experiences at the end of the program of study. Candidates are expected to log a minimum of 90 hours of total practical field experiences, including but not limited to shadowing school leaders, observing other educators, assuming responsibility for basic leadership activities as assigned by a mentor and conducting a case study on leadership concepts. Candidates will participate in three leadership seminars which focus on leadership foundations and best practices as articulated by current leaders in the field and a basic action-research activity. Candidates will also begin to explore the role of the superintendent as an agent of change and/or reform.

ELP 723R Negotiations and Personnel Strategic Decision Making (4) Designed to prepare school leaders for leadership in the area of human resources in public schools. Includes a comprehensive review of the personnel function from the perspective of district central office administration and the theories and best practices in staff recruitment, selection, assignment, orientation, evaluation, professional development, reduction in force and other relevant current issues. Explores negotiation concepts, strategies, regulations and the other legal considerations within the Commonwealth of Pennsylvania. Core field experiences, from the basis of the exploration and development of critical skills necessary to be successful, in the areas covered within the course are to include the integration of institutional standards as they apply to all topics.

ELP 724R Ethical and Legal Decision Making at the District Level (4) Designed for preparing executive leadership positions in public education. Students are expected to have background in public school law and some experiences in leading public schools at the building and/or district levels. Focuses on a review of key areas of school law, with advanced study in the level areas which are currently challenging school and district leaders. State laws affecting public education will be studied in detail along with issues dealing with student rights, the role of the school board, laws specific to the roles of school leaders, parent and community issues, emerging special education challenges and laws dealing with business and finance.

ELP 725R The Impact of Facilities, Technology Infrastructure and Plant Management Decisions on School Effectiveness (4) Designed for students in the Superintendent's Letter of Eligibility Program and for practicing educational administrators who want to update skills in educational facilities, technology infrastructure and plant management. Related educational program to facilities planning and development; provides an opportunity for students to interact with professionals from a variety of disciplines related to planning and development of educational facilities; relates local planning to Pennsylvania Department of Education requirements and regulations; and provides field-based work in contemporary facility planning, technology infrastructure, facilities development and maintenance.

ELP 726R Optimizing Financial Resources to Support District-Level Achievement (4) Project-driven course focuses on the changing perception of finance in American public schools (K-12). Assists in creating a platform of beliefs about school finance, budgeting and the role of the superintendent by helping students understand key issues from a historical perspective, as well as current thinking on what it should become. Emphasis on approaches to developing, evaluating and articulating financial planning strategies to staff, the public and the school board that inform decisions about student achievement. Also discusses the relationship between school boards and superintendents specific to budget development and strategies for enhancing the relationship.

ELP 727R Instructional and Technology Leadership at the Executive Level (4) Provides an advanced exploration and exposure to leadership roles at the district setting and should be taken as part of a candidate's practicum experiences at the end of the program of study. Candidates are expected to log 180 hours of practical field experiences, including but not limited to shadowing school leaders, observing other educators, assuming responsibility for instructional leadership activities as assigned by a mentor and conducting a case study on instructional leadership concepts. In addition, the candidate will participate in three leadership seminars which will focus on instructional leadership foundations and best practices as articulated by current leaders in the field. Candidates will also begin to explore the role of superintendent as an agent of change and/or reform.

ELPP 897 Dissertation Seminar in Educational Leadership (3) This course is designed to provide Ed.D. candidates with the necessary background and tools to develop their final drafts of the dissertation proposals and assemble their dissertation committees. Key elements of the dissertation proposal will be reviewed, and candidates will begin to have more intense conversations with faculty and others regarding the nature and relevance of their research focus. The IRB process will be outlined. (It is anticipated that candidates will consult with potential dissertation advisors, and the IRB process will be explained when completing this course.)

ELPP 898 Dissertation Research I in Educational Leadership (3) Working with an assigned dissertation advisor, each candidate formally begins the dissertation process. This includes a) finalizing a dissertation proposal describing the theoretical framework and antecedent literature, b) defending the written proposal in an oral examination before his/her Dissertation Committee and c) beginning dissertation activities as described in the proposal.

ELPP 899 Dissertation Research II in Educational Leadership (3) This course is a continuation of ELP 898: Dissertation I. Working with the assigned dissertation advisor from ELP 898, each candidate moves fully into the execution stage of the research as set forth in the dissertation proposal. Following the conclusion of the data-collection stage, the candidate refines the initial chapters of the dissertation and develops the presentation of the data to include the summaries, discussion, implications and recommendations for future research. Finally, the candidate presents the findings in a defense of the dissertation before the Dissertation Committee.

The course will be offered on a pass/fail basis.

SUGGESTED COGNATE COURSES

ELP 510 Special Education Law (3) Provides a comprehensive and current overview of the major federal laws and judicial interpretations of those laws that apply to the education of children with disabilities. Course includes discussions of inclusion, effective accommodations, IEPs, discipline, equal protection and procedural due process. It also examines the six principles of the Individuals with Disabilities Act and Chapters 14, 15 and 16 of the Pennsylvania School Code. Course helps students understand what the law requires so that they will become effective educational leaders capable of making appropriate decisions that comply with these laws.

SOWK 515 Social Welfare Policy (3) Provides students with the orienting knowledge and skills needed to examine social welfare policies and to understand their relevance to social service delivery and social work practice. Approximately one-third of this class will include online content, one-third will be in person with the instructor, and one-third will be via video conferencing.

SCCN 630 Multicultural Counseling (3) This course is designed to sensitize students to and promote an understanding of culture as a core factor in the counseling process. Students will explore their own identities, examine their own attitudes toward various groups, and acquire foundational knowledge and skills in counseling interventions with various populations. Students will also be introduced to basic principles of social justice and client and community advocacy. Emphasis will be placed on methods and techniques that facilitate intra- and intergroup interaction.

SWK/SOWK 614 Survey Development and Measurement (3) This three-credit advanced course prepares students with the skills to be critical users of a variety of types of measurement instruments, as well as gain experience in the intricacies of scale development, including psychometrics. Students will examine and determine scale reliability and validity.

ACTE 634 Legal and Ethical Issues in Online Education (3) With the wealth of online learning tools and resources available, teachers need an understanding of the legal issues that impact their use with learners in the K-12 setting. This course addresses current legislation pertaining to the use of copyrighted digital media in the classroom, best practice in the use of online tools and applications with children over and under 13 years of age, and current controversies and legal challenges related to children's online behaviors. While the content of the course is updated every semester, the course goal remains the same: to investigate the legal issues pertaining to the use of digital media and online tools in the classroom by teachers and students.

MASTER OF EDUCATION DEGREE IN LEADERSHIP FOR TEACHING AND LEARNING

The Master of Education degree in leadership for teaching and learning prepares teachers for roles in basic education as principals, department heads, curriculum directors, supervisors and other leadership positions. The program philosophy is rooted in the literature demonstrating the effectiveness of leaders who facilitate responsible, responsive change through cooperative action. The program utilizes the strengths of cohort groups of students, portfolio assessment, an internship, mentors, technology and case studies. Community relations; respect of the influences of race, class, gender and ethnicity in education; and the liberal arts as a source of knowledge and perspective are acknowledged in the program curriculum.

The master's degree program includes 36 semester hours of coursework. Candidates who complete the curriculum and degree requirements, and have five years of teaching experience, are eligible to be recommended for the K-12 Principal's Certificate and also for the K-12 Curriculum and Instruction Supervisory Certificate. Those who already hold an appropriate master's degree may apply to pursue only the certificates; a review of their previous coursework will determine what requirements must be satisfied to be eligible for the certificates.

Admissions Requirements

Students who seek admission to the Master of Education degree in leadership for teaching and learning must comply with the University's established admissions criteria and procedures. Admission to the degree program will be on a cohort basis. Twenty students will be admitted to each cohort group, with a new cohort commencing each fall semester. Courses completed prior to the beginning of a cohort may be considered for inclusion in the program.

The following criteria will be used in determining admission to a cohort:

1. Letters of recommendation
2. Official transcripts
3. Academic and Professional Goals Statement
4. Critical thinking exam: Graduate Record Exam or Miller Analogies Test
5. Commonwealth of Pennsylvania Teacher's Certificate, Instructional I. Applicants without Instructional I Certificates must meet with the Graduate Program Coordinator for review and possible acceptance.
6. Structured interview

Assessment

In addition to the normal course requirements and assessment instruments, a portfolio will be utilized as a form of formative and summative assessment. Completion of the program is contingent upon passing the portfolio review and maintaining a 3.0 GPA. Students who fail to maintain the academic scholarship and/or professional standards are subject to dismissal from the program.

COURSE OF STUDY

Professional Core Requirements (9 s.h.)

- EDFN 545** Advanced Educational Psychology (3)
EDFN 601 Methods of Research (3)
EDFN 603 Philosophy of Education (3)

Educational Leadership Core (18 s.h. minimum)

- EDLD 610** Leadership Theory and Organizational Behavior (3)
EDLD 614 School and Community Relations (3)
EDLD 620 School Law, Public Policy and the Principal (3)
EDLD 667 Leadership Seminar I (1)
EDLD 668 Leadership Seminar II (1)
EDLD 669 Leadership Seminar III (1)

Supervisory Core (9 s.h.)

- EDLD 798** Applied Supervision (3)
EDLD 799 Applied Practicum (3)
EDSU 700 Functions of Supervision (3)
EDSU 701 Administrative Aspects of Supervision (3)
EDSU 703 Curriculum and Supervision (3)

COURSE DESCRIPTIONS

EDLD 610 Leadership Theory and Organizational Behavior (3) Examination of theories of leadership based on cooperation, empowerment and facilitation of change. The implications of leadership theories on administration in educational organizations. Attention given to organizational climate, conflict negotiation, decision making, communication, assumptions about power and change. Theory, research, practice and the influences of special-needs learners, race, class, gender and other social constructs will be integrated into the course. Offered in fall.

EDLD 614 School and Community Relations (3) Examination of the political, social and economic factors which influence the school's relationship with various community agencies and constituencies. Developing administrative sensitivity to community needs and effective articulation of the school's programs to the various communities. Offered annually.

EDLD 620 School Law, Public Policy and the Principal (3) An overview of American public elementary and secondary school law in the context of public policy. Examines federal and state constitutional, statutory and common law decisions that impact on the substantive or procedural rights of students, teachers and other school personnel. Emphasis on Pennsylvania School Code, issues of equity and equality, and First Amendment issues. Makes use of 1) an interactive, empowering pedagogy, 2) case studies addressing race, class, gender and religious diversity, and 3) alternative assessment strategies. Offered annually.

EDLD 667 Leadership Seminar I (1) The first in a series of three one-credit seminars on the emergent issues and PDE competencies surrounding special education and English language learners for principal candidates, the overrepresentation of diverse students in special education, and prevention and early-intervention strategies for students with disabilities. Offered in spring.

EDLD 668 Leadership Seminar II (1) The second in a series of three one-credit seminars on the emergent issues and PDE competencies surrounding special education and English language learners for principal candidates, including early intervention and effective instructional strategies for students with disabilities in inclusive settings. Prereq: EDLD 667. Offered in spring.

EDLD 669 Leadership Seminar III (1) The third in a series of three one-credit seminars on the integration of a mini-portfolio on emergent issues and PDE competencies surrounding special education and English language learners into the comprehensive program portfolio based on national standards. Prereq: EDLD 668. Offered in spring.

EDSU 700 Functions of Supervision (3) Interpersonal processing, data gathering in analysis of classroom teaching, simulation, microteaching, staff development, in-service program development and staff selection. Offered annually.

EDSU 701 Administrative Aspects of Supervision (3) Administrative theory, budget development and school finance, certification, teachers' and students' rights and responsibilities, school law, tenure, collective bargaining. Offered annually.

EDSU 703 Curriculum and Supervision (3) Describe and analyze a curriculum plan, formulate a set of criteria for evaluating a curriculum plan, study roles of various persons in curriculum planning. Identify and evaluate characteristics, features and trends of education programs on levels K-12. Offered annually.

EDLD 798 Applied Supervision (3) Internship in which the candidate must conduct two cycles of clinical supervision with each of three teachers: one at the elementary school, one at the middle school and one at the high school.

EDLD 799 Applied Practicum (3) Internship is a performance-based, on-site field experience on administrative best practices. Emphasis is on curriculum development, professional growth plans, organizational and financial management, school-community engagement and administrative responsibilities.

MASTER OF EDUCATION IN ASSESSMENT, CURRICULUM AND TEACHING

The Master of Education in Assessment, Curriculum and Teaching (ACTE) is designed for current teachers who are seeking to advance their professional effectiveness. The program builds five outcomes related to assessment, curriculum and teaching in emerging fields and offers two concentrations: one in Online Teaching and one in STEM Education. All candidates entering the program must meet all Millersville University graduate entrance requirements. Additionally, all candidates must have Instructional I certification and pass both a written essay and oral interview.

Degree Requirements

9 credits M.Ed. Core + 6 credits ACTE Core + 12 credits Concentration in Online Teaching or STEM Education + 6 credits Thesis/Capstone experience, totaling 33 credits.

M.Ed. Core Courses

EDFN 545: Advanced Educational Psychology (3)

EDFN 601: Methods of Research (3)

EDFN 604: Education and Public Policy (3)

ACTE Core Courses

ACTE 630: Current Technology for Online Instruction (3)

EDFN 530: Instructional Technology, Design and Assessment (3)

ACTE Concentration Area

Online Teaching

ACTE 632: Online Learning Environments (3)

ACTE 633: Responding to Individual Learners (3)

ACTE 634: Legal and Ethical Issues in Online Education (3)

ACTE 635: Instructional and Curricular Design for Online, Blended and Customized Instruction (3)

STEM Education

ACTE 651: Science Curriculum and Reform (3)

EDUC 651: Mathematics in the School Program (3)

EDTE 604: Engineering Principles and Concepts (3)

ACTE 655: Integrative STEM Education (3)

Thesis/Capstone Experience

ACTE 699: Inquiry for Teaching and Learning (6)

COURSE DESCRIPTIONS

EDFN 530 Instructional Technology, Design and Assessment (3) Instructional design and assessment will be used as a basis for planning and evaluating the use of technology for student-centered teaching and learning within specific disciplines.

EDFN 545 Advanced Educational Psychology (3) A review of psychological principles as they relate to human learning in the urban and nonurban setting. Special consideration is given to motivational and developmental factors in the school that influence students' learning. Additional topics include examination of assessment and evaluation practices, classroom management and accommodating individual differences.

EDFN 601 Methods of Research (3) Introduces methods of empirical educational research. Emphasis on training individuals to be intelligent consumers of educational research. It is strongly recommended that the course be taken early in the student's program.

EDFN 604 Education and Public Policy (3) An analysis of public policy development in the field of education. Major questions to explore include: (1) Who governs education? (2) What are the processes by which policies are formulated? (3) What values are reflected in specific present policy or proposed reform? (4) What do we know about reforming education? (5) How useful is social science research in the formulation of educational policy?

ACTE 630 Current Technology for Online Instruction (3) Students develop skills in using current and emerging instructional technology to support online learning environments. Instructional design and assessment as well as national standards are used as a basis for planning and evaluating student-centered distance education. The methodologies and technologies used in the course are updated each semester according to current trends, practices and research in the field of instructional technology.

ACTE 632 Online Learning Environments (3) Students will examine methods of engaging students in online learning environments and ways to effectively foster communication and interaction among students, content and instructor. Current research studies will be used to inform the creation of online learning environments that support and assess student learning. Students will complete an online field experience in a K-12 online environment.

ACTE 633 Responding to Individual Learners (3) This course fosters teachers' understanding and ability to respond to various characteristics that impact students' learning within the online environment. Course content examines individual differences across learning, development, cognitive abilities, reading proficiency and student readiness for online learning, while acknowledging the influences of prior educational experiences, home environment and necessary special education accommodations. Emphasis is placed on adapting instruction by working with students and their families, other community stakeholders and additional professionals who support student learning and achievement.

ACTE 634 Legal and Ethical Issues in Online Education (3) With the wealth of online learning tools and resources available, teachers need an understanding of the legal issues that impact their use with learners in the K-12 setting. This course addresses current legislation pertaining to the use of copyrighted digital media in the classroom, best practices in the use of online tools and applications with children over and under 13 years of age, and current controversies and legal challenges related to children's online behaviors. While the content of the course is updated every semester, the course goal remains the same: to investigate the legal issues pertaining to the use of digital media and online tools in the classroom by teachers and students.

ACTE 635 Instructional and Curricular Design for Online, Blended and Customized Instruction (3) This course is designed as an integrative, project-based experience for students. The course applies instructional design methodology to the development of online, blended and customized courses that are engaging, effective and in alignment with standards and best practices as identified by learning research. Participants will enact a unit of instruction as either the lead teacher or as an intern co-teaching role. Participants are guided through the process of conducting needs assessments; defining course goals and objectives; and designing instructional lesson plans, activities and materials, and assessments. Consideration is given to various models of online delivery, content organization and presentation, and design principles.

ACTE 651 Science Curriculum and Reform (3) The purpose of the course is to develop a better understanding of school science curriculum. This course examines literature that provides the foundation for modern reform in science education. With the past in the background and current issues in the forefront, the course analyzes the implications of reform initiatives for classroom practice, with a focus on student learning. Class discussions will examine how different assumptions and perceived goals of science education influence what is taught, how it is taught, and how it is assessed and interpreted.

ACTE 655 Integrative STEM Education (3) Integrative STEM (iSTEM) education is a standards-based metadiscipline integrating Science, Technology, Engineering and Math. This course examines the goals and outcomes of integrative STEM teaching and learning. iSTEM instruction is grounded in inquiry methodologies by using project-based learning strategies, technological tools, equipment and procedures in innovative ways. The goal of iSTEM instruction is to prepare students to address societal needs and challenges in order to compete in the global workforce by improving college-readiness skills and increasing the number of students who may consider a career in a STEM-related field.

ACTE 699 Inquiry for Teaching and Learning (6) Design, execution and communication of applied research in emerging fields of online teaching or STEM education. Two types of applied research may be pursued: (1) basic research using experimental, descriptive or other traditional research methodologies, (2) documented study of innovative curricular development. In either approach, candidates must demonstrate use of emerging technologies, effective instructional design and use of assessment data for improving curricular design.

EDUC 651 Mathematics in the School Program (3) The nature of mathematics and mathematical thought processes; current views on the learning and teaching of mathematics; problem solving; aids to instruction; instructional strategies in mathematics education.

EDTE 604 Engineering Principles and Concepts for the Nonengineer (3) The innovations and inventions of engineering design are vital to enhancing the standards of living for humanity. In this course, which is intended for the nonengineer, students will learn what engineers do and how they do it. The connections between the engineering profession and society will be examined. This will include a review of engineering organizations and their standards, problem-solving techniques and the methods of modeling systems.

EARLY, MIDDLE AND EXCEPTIONAL EDUCATION:

Language and Literacy Education

Early Childhood Education

Gifted Education

Special Education

GRADUATE FACULTY

- Richard L. Mehrenberg, Department Chairperson, Graduate Program Coordinator for Special Education. Ph.D., George Mason University, 2009. Special Education.
- Elizabeth Powers, Graduate Program Coordinator for Early Childhood Education. Ph.D., University of North Carolina, 2007. Education, Curriculum Culture and Change.
- Aileen P. Hower, Graduate Program Coordinator for Language and Literacy. Ed.D., Widener University, 2013. Literacy Education, Leadership, Exceptional Learners.
- Charlton H. Wolfgang, Graduate Program Coordinator for Gifted Education. Ph.D., Drexel University, 2013. Educational Leadership Development and Learning Technologies.
- Susannah A. Boyle. M.Ed., University of New Orleans, 2013. Education and Special Education.
- Lesley Colabucci. Ph.D., The Ohio State University, 2004. Language, Children's Literature, Literacy and Culture.
- Jason Davis. Ed.D., Special Education, University of San Francisco, 2018. Language, Children's Literature, Literacy and Culture.
- Ojoma M. Edeh-Herr. Ph.D., Columbia University, 1998. Autism, Behavior Disorders, Intellectual Disabilities, Research, Methodology, Social Learning Curriculum.
- Kimberly S. Heilshorn. Ed.D., Widener University, 2003. Leadership and School Administration, Mathematics Education.
- Persida Himmele. Ph.D., Biola University, 2001. Bilingual and ESL Education.
- William J. Himmele. Ph.D., Biola University, 2001. TESOL, Multicultural Education.
- Kazi I. Hossain. Ed.D., Indiana University of Pennsylvania, 2000. Multicultural Educational Methods.
- Janet Josephson. Ph.D., University of Delaware, 2014. Education and Special Education.
- Ellen M. Long. Ph.D., The Pennsylvania State University, 2000. Transition Planning for Individuals with Disabilities, Adolescents with Disabilities, Legal Issues and Accommodations for College Students with Disabilities, Assistive Technology, Vocational Rehabilitation Counseling.
- Thomas J. Neuville. Ph.D., University of Colorado, 1999. Normalization, Collaborative Learning, Individuals with Intellectual Disabilities, Transition, Inclusive Postsecondary.
- Jason Petula. Ph.D., The Pennsylvania State University, 2007. Curriculum and Instruction, Science Education.
- Jennifer Shettel. Ed.D., Widener University, 2009. Literacy Education.
- Deborah Tamakloe. Ph.D., Washington State University, 2015. Special Education.
- Judith K. Wenrich. Ed.D., Lehigh University, 1991. Literacy Education and Assessment.

THE PROGRAMS

MASTER OF EDUCATION DEGREE IN LANGUAGE AND LITERACY EDUCATION

The Department of Early, Middle and Exceptional Education offers a master's in language and literacy education in which students choose one of two concentrations: a literacy concentration leading to reading specialist certification, or an ESL concentration leading to ESL certification. Both concentrations are available for elementary and secondary teachers who possess an Instructional Certificate in Pennsylvania. A Master of Education in language and literacy education offers the student the opportunity to participate in original research and experiential programs in this field.

Degree Requirements for Reading Concentration

I. Semester Hours

- a. Research Option: minimum of 42 s.h., including a thesis.
- b. Non-Research Option: minimum of 39 s.h.

II. Professional Core (9 s.h.)

See *M.Ed. Professional Core* section for requirements and course descriptions.

III. Required Courses (27 s.h.)

- RDED 621** Foundations of Reading and Writing (3)
- RDED 622** Reading and Writing in the Content Areas (3)
- RDED 623** Diagnosis of Reading and Writing Disabilities (3)
- RDED 624** Diagnosis and Correction of Reading and Writing Difficulties: Reading Clinic Practicum (6) (Prereq: RDED 623)
- RDED 625** Psychological and Social Factors in Reading and Writing (3)
- RDED 626** Literacy Leadership (3)
- EDUC 562** Methods for Teaching English Language Learners (3)
- EDUC 636** Literature and Response (3) (if a prior children's literature course was completed; if not, EDUC 535 must be taken)

Special Education Course (3 s.h.)

Choose one:

- SPED 600** Orientation to Special Education (3)
- SPED 601** Psychological Aspects of Individuals with Disabilities (3)

Upon successful completion of the above courses in section III and the Reading Specialist PRAXIS test, the student qualifies for reading specialist certification.

Degree Requirements for ESL Concentration

I. Semester Hours

- Research Option: minimum of 39 s.h., including a thesis.
- Non-Research Option: minimum of 36 s.h.

II. Professional Core (9 s.h.)

See *M.Ed. Professional Core* section for requirements and course descriptions.

III. Required Courses (18 s.h.)

- EDUC 561** Second Language Acquisition: Theory, Programs and Assessment (3)
EDUC 562 Methods for Teaching English Language Learners (3) (Prereq: EDUC 561)
EDUC 563 Linguistic and Cultural Diversity in the Classroom (3)
EDUC 564 Assessment, Policies and Practices in Teaching English Language Learners (3) (Prereq: EDUC 561 or 562)
EDUC 565 Language and Literacy Interventions: Clinical Practicum (6) (Prereq: EDUC 561, 562, 563 and 564 or permission of instructor)

IV. Required Concentration—Related Courses (9 s.h.)

- RDED 622** Reading and Writing in Content Areas (3)
 Children's Literature Class (3 s.h.) (choose one):
EDUC 533 Nonfiction Literature and Literacy (3)
EDUC 636 Literature and Response (3) (if a prior children's literature course was completed; if not, EDUC 535 must be taken)
ENGL 666 Seminar in Teaching Literature to Adolescents (3)
 Another children's literature class with advisor approval (3)
 Linguistic Class (3 s.h.) (choose one):
EDUC 631 Linguistic Foundations (3)
ENGL 661 Seminar in Transformational Linguistics (3)
ENGL 663 Applied Linguistics (3)

CERTIFICATION PROGRAM IN SUPERVISION OF READING AND LANGUAGE ARTS EDUCATION

To qualify for admission to the Reading Supervisor Certificate program, a candidate must have:

- a master's degree from an accredited college (or be pursuing one concurrently);
- reading specialist certification; and,
- five years of satisfactory teaching experience with primary responsibility for reading/language arts.

I. Core Courses

See the *Supervisory Certification Program* section for required educational supervision courses EDSU 700, 701 and 703.

II. RDED 798 Advanced Theoretical Pedagogy of Reading (3 s.h.)

III. RDED 799 Applied Supervision: Reading Clinic (6 s.h.)

MASTER OF EDUCATION DEGREE IN EARLY CHILDHOOD EDUCATION

The Master of Education degree program in early childhood education prepares professionals for teaching and administrative positions in child-care and preschool settings, elementary schools, early-intervention special education programs, and colleges. The program is based on knowledge and developmentally appropriate practices for the teaching and learning of young children (birth through 8 years of age). An interdisciplinary program, it focuses on the connections of children, family, educational settings and community so essential to a young child's total development and individual, diverse needs. The program addresses early-childhood issues using sound research practices and principles, and includes a focus on the graduate student's individual professional needs. Courses are taught by graduate faculty members from the elementary and early childhood education, educational foundations, special education and psychology departments.

Degree Requirements

I. Semester Hours

- Research Option: minimum of 36 s.h., including a thesis.
- Non-Research Option: minimum of 36 s.h.

II. Professional Core (9 s.h.)

See *M.Ed. Professional Core* section for requirements and course descriptions.

PSYC 526 is not recommended for early childhood education degree-seeking students.

III. Required Courses (15 s.h.)

- ECHD 611** Current Practices and Research in Early Childhood Education: Affective and Psychomotor Emphasis (3)
ECHD 612 Current Practices and Research in Early Childhood Education: Cognitive Emphasis (3)
 or **ECHD 519** Seminar in Early Childhood Education
ECHD 613 Early Childhood Education: Home, School and Community (3)
ECHD 614 Advanced Curriculum in Early Childhood Education (3)
SPED 618 Early Intervention for Infants, Toddlers and Preschoolers with Developmental Delays (3)

IV. Electives (12 s.h.)

With prior approval of graduate program coordinator.

V. Exit Examination

A written comprehensive examination, written and evaluated by graduate faculty, is required of all students at the end of the program and is to be scheduled during the final semester.

POST-BACCALAUREATE CERTIFICATION IN EARLY CHILDHOOD EDUCATION

The certificate can be completed within two or two-and-one-half years of coursework with class offerings year-round (fall, winter, spring and summer). This certificate can be applied towards the fulfillment of the requirements for the Master of Education degree in early childhood education.

Course Requirements

- ECHD 511** Early Childhood Education Today (3 s.h.)
- ECHD 519** Seminar in Early Childhood Education (3 s.h.)
- ECHD 614** Advanced Curriculum in Early Childhood Education (3 s.h.)
- EDUC 580** Methods for Teaching English Language Learners (3 s.h.)
- EDUC 535** Literature for Children and Young Adolescents (3 s.h.)
- EDUC 686** Standards Aligned Systems (3 s.h.)
- RDED 621** Foundations of Reading (3 s.h.)
- SPED 618** Early Intervention, Inf/Td/PreK (3 s.h.)

Advanced Professional Program

- EDUC 651** Mathematics in the School Program (3 s.h.)
- EDUC 643** Curriculum Trends in Social Studies (3 s.h.)
- RDED 620** Current Practices in Literacy Education (3 s.h.)

Student Teaching:

- ELED 678** Internship in Elementary Education (1 s.h.)
- ERCH 690** Student Teaching (9 s.h.)
- EDUC 575** Current Trends in Education (3 s.h.)

MASTER OF EDUCATION DEGREE IN GIFTED EDUCATION

The Master of Education degree in gifted education is designed to provide the specialized knowledge needed by teachers and other educational personnel who work with gifted and able students (K-12). The curriculum is appropriate for teachers whether they provide instruction in special programs for the gifted or teach in inclusive settings. The M.Ed. degree in gifted education does not confer teacher certification.

The Department of Early, Middle and Exceptional Education is responsible for the gifted education program, although the program itself is multidisciplinary. Courses in the gifted education program are taught by graduate faculty members from the early childhood education, educational foundations, special education and psychology departments.

Degree Requirements

I. Semester Hours

A minimum of 36 s.h. are required.

II. Professional Core (9 s.h.)

See *M.Ed. Professional Core* section for requirements and course descriptions.

III. Required Courses (18 s.h.)

- GFED 670** Psychology of the Gifted (3)
- GFED 674** Programming for the Gifted (3)
- GFED 675** Evaluating Instructional Effectiveness: Applications for the Gifted (3)
- GFED 676:** Teaching Gifted Learners: Instructional Strategies (3)
or **686, 687, 688** Topics in Gifted Education (3)
- GFED 690** Clinical Practicum (6) Prereq: GFED 674 and 675

IV. Area of Specialization (9 s.h.)

The student, with the approval of an advisor, must complete a minimum of 9 s.h. in an area of specialization. Specializations could include, but are not limited to, early childhood education, language and literacy, English as a Second Language, English, fine arts, world languages, leadership, mathematics, online teaching, psychology, sciences, social sciences, special education, STEM, and technology and innovation.

POST-BACCALAUREATE CERTIFICATE IN GIFTED EDUCATION

The certificate program can be completed in four semesters, with offerings year-round (fall, spring and summer). Psychology of the Gifted (GFED 670); Programming for the Gifted (GFED 674); Evaluating Instructional Effectiveness: Applications for the Gifted (GFED 675); Teaching Gifted Learners: Instructional Strategies (GFED 676); and Clinical Practicum (GFED 690) will be offered on a rotating basis. The completed certificate (18 s.h.) can be applied in its entirety towards the requirements for the Master of Education degree in gifted education.

Certificate Requirements**Required Courses (18 s.h.)**

- GFED 670** Psychology of the Gifted (3)
- GFED 674** Programming for the Gifted (3)
- GFED 675** Evaluating Instructional Effectiveness: Applications for the Gifted (3)
- GFED 676** Teaching Gifted Learners: Instructional Strategies (3)
- GFED 690** Clinical Practicum (6) Prereq: GFED 674 and 675

ENDORSEMENT IN GIFTED EDUCATION

The four courses required to earn the PDE-approved Gifted Education Endorsement are the same as the first four courses for the post-baccalaureate certificate in gifted education. Therefore, students who are interested in applying to the gifted endorsement program should apply for the certificate program, using the online graduate application. Students who complete the endorsement coursework can then decide if they would like to continue on and complete the certificate.

Endorsement Requirements**Required Courses (12 s.h.)**

- GFED 670** Psychology of the Gifted (3)
- GFED 674** Programming for the Gifted (3)
- GFED 675** Evaluating Instructional Effectiveness: Applications for the Gifted (3)
- GFED 676** Teaching Gifted Learners: Instructional Strategies (3)

Admission Requirements for Elementary Education, Language and Literacy Education, Early Childhood Education and Gifted Education

In addition to general graduate studies admission requirements (see *Graduate School Admission Requirements* section), applicants must have earned a 2.75 or better undergraduate cumulative average (or other proof of academic competency) to qualify for admission.

Also see *Graduate School Admission Requirements* for program-specific entrance-exam requirements.

Admission to the Master of Education degree in elementary education requires applicants to hold an Instructional I Teaching Certificate in elementary education. Applicants who have earned a bachelor's degree in a field other than elementary education may satisfy Instructional I Certificate requirements and master's degree requirements concurrently.

Admission to certification as a reading specialist, an ESL specialist, a reading supervisor, or applicants interested in earning a Master of Education degree in language and literacy education must possess an Instructional I Teaching Certificate in elementary or secondary education. Students who have not taken a three-credit special education course at the time of admittance into the reading specialist program will need to complete an undergraduate- or graduate-level special education class in addition to the SPED 600: Orientation to Special Education course or the SPED 601: Psychological Aspects of Individuals with Disabilities course required for this program.

Admission to the Master of Education degree in early childhood education requires applicants to hold an Instructional I Teaching Certificate in elementary education, early childhood education or special education. Applicants who have not earned certification in one of these fields may earn early childhood education certification and master's degree requirements concurrently.

Admission to the certificate program in gifted education, the endorsement program in gifted education or the Master of Education degree in gifted education requires applicants to hold an Instructional I Teaching Certificate.

SPECIAL EDUCATION POST BACCALAUREATE CERTIFICATION

Two comprehensive (PK-8 and grades 7-12) post-baccalaureate certification programs with requirements of 27 credits or less is offered, depending on the student's undergraduate preparation. Candidates must hold a valid Instructional I teaching certification in a PreK-8 area or be simultaneously enrolled in another Millersville University program leading to such. A clinical practicum experience is required for all candidates for this certification.

SPECIAL EDUCATION POST MASTERS SUPERVISORY CERTIFICATION

A post-master's certification program for supervision of special education programs is offered. This program consists of four courses (12 s.h.) plus a 3 s.h. practicum experience in special education supervision.

Requirements for the Program:

- Instructional II teaching certificate
- Applicant must have earned a master's degree (or be pursuing one concurrently)
- Applicant must have five years of appropriate experience

Number of Credits - 12 Credits

Major Sequence and Degree Requirements

I. Core Requirements

Must apply to take SPED 799 one semester ahead of time

EDSU 700 Functions of Supervision (3)

EDSU 701 Administrative Aspects of Supervision (3)

EDSU 703 Curriculum and Supervision (3)

SPED 681 Administration and Supervision of Special Education Programs (3)

SPED 799 Applied Supervision: Special Education (3)

MASTER OF EDUCATION IN SPECIAL EDUCATION

Millersville University offers the Master of Education degree in special education. The master's degree in special education requires 36 credits.

The Millersville University Special Education Master's Degree is designed for educators already in the classroom. Assessment have real-world applications and are individualized to meet the needs of working professionals. Many classes are offered in blended format, allowing students to acquire new skills on campus, and later implement them in their own classroom.

Requirements for the Program:

- Minimum GPA of 3.0
- If undergraduate cumulative GPA is 3.0, no GRE scores are required.
- Below a 3.0 cumulative GPA, you must have minimum GRE scores of 150 on verbal and quantitative components, and a 29 minimum score on analytical writing
- Instructional I teaching certificate
- 3 years of teaching experience preferred
- Currently teaching students with exceptionalities preferred

Required Courses:

Number of Credits - 36 credits

Major Sequence and Degree Requirements

I. Knowledge Core (12 credits)

EDFN 601 Methods of Research (3)

EDFN 545 Advanced Educational Psychology (3)

One of the following:

EDFN 511 Comparative Education (3)

EDFN 590 Social Foundations of Education (3)

EDFN 603 Philosophy of Education (3)

EDFN 604 Education and Public Policy (3)

One of the following:

PSYC 525 Advanced Child Psych (3)

PSYC 526 Advanced Adolescent Psychology (3)

PSYC 625 Human Growth and Development (3)

II. Professional Core Requirements (15 credits)

SPED 651 Advocacy and Leadership for the Accomplished Special Education Teacher (3)

SPED 652 Issues in Diversity for the Accomplished Special Education Teacher (3)

SPED 653 Consultation and Collaboration for the Accomplished Special Education Teacher (3)

SPED 654 Advanced Pedagogy for the Accomplished Special Education Teacher (3)

SPED 689 Research Seminar for the Accomplished Special Education Teacher (3)

III. Specialization Area (6 credits)

Other combinations may be approved through consultation of program advisor

GFED 670/676 (gifted education)

EDUC 561/562 (English language learners)

EDTE 591/592 (educational technology)

RDED 622/623 (literacy)

SOWK 602/611 (school social work)

IV. Comprehensive Exam

- May be taken once all professional core courses are completed.
- Must be successfully completed prior to enrolling in SPED 695 Capstone Experience for the Accomplished Special Education Teacher

V. Capstone Experience for the Accomplished Special Education Teacher SPED 695 (3)

- All knowledge core courses and comprehensive exam must be successfully completed prior to enrollment. (Up to 6 credits of courses from the remainder of the program may be taken concurrently)
- Graduate candidates unable to complete the objectives of the course over the span of a semester may re-enroll for an additional 1 credit per semester, for a maximum of 2 additional semesters.

COURSE DESCRIPTIONS

EDUCATION

EDUC 501 Teaching of Nutrition in a School Program (3) Examines the teaching of food and nutrition in the school program. After studying nutrition from a personal perspective, the students will examine and evaluate existing curricula and materials in order to prepare their own nutrition programs. Offered infrequently.

EDUC 533 Nonfiction Literature and Literacy (3) This course offers an in-depth look at nonfiction literature written for children and young adolescents. The communication of ideas through visuals and print in books and biographies will be highlighted. Topics include evaluation and selection of books, models for student writing, visual literacy and student response to nonfiction. Prereq: survey course in children's literature or permission of instructor. Offered periodically.

EDUC 534 Creative Dramatics (3) Presentation of the development of a program in creative dramatics for the inexperienced classroom teacher who wishes to gain insight into the dramatic process and learn how this process can stimulate language study and enhance the development of a language arts program. Offered infrequently.

EDUC 535 Literature for Children and Young Adolescents (3) Introduces the genres of literature for children and young adolescents from birth through 14 years of age. Students examine the work of renowned authors and illustrators. Response to literature and the selection of books for the classroom receive emphasis. The course is intended for students who have not taken a survey course in children's literature. Credit may not be earned for EDUC 333 and EDUC 535. Prereq: admission to the post-baccalaureate program in elementary education or permission of the instructor. Offered in fall and spring.

EDUC 536 Picture Book Communication (3) Examines the unique qualities of communication in picture books. Book design, illustration, verbal-visual integration, renowned illustrators and children's responses to picture books receive in-depth attention. Exploration of picture books for all ages will occur. Before enrolling, students must have completed a survey course in children's literature. Offered infrequently.

EDUC 551 Metrication (3) Consideration of the process of implementing the metric system in schools, techniques for problem solving, and applications of mathematics to the world of measurement. Offered infrequently.

EDUC 575 Current Trends in Education (3) A survey of current and future curricular and instructional trends in education. Emphasis on identification, examination and evaluation of topics, methods, strategies and issues affecting teaching and learning. Offered periodically.

EDUC 586-589, 686-689 Topics in Education (1-3) In-depth investigation and development of one or more topics of current interest not normally covered in regular courses. Special topics to be covered and methods used will vary according to the needs of students and faculty involved. Offered periodically.

EDUC 610 Critical Literacy in the Diverse Democratic Classroom (3) Development of a personal perspective of critical literacy, encompassing reading, writing, speaking and listening. Consideration of literacy as cultural social practice, comparison of multiple perspectives, and implications as to how educators define literacy. Knowledge of how adolescent students use literacy to make meaning of text in multiple contexts, including content area material. Application of assessment tools to determine practical strategies to develop students' literacy skills. Offered infrequently.

EDUC 630 Teaching Reading Through Writing (3) Discussion of how reading and writing interact to support the development of literacy. Focus will be on how reading and writing are integrated through the grades—primary through high school. Offered infrequently.

EDUC 631 Linguistic Foundations (3) Survey of the science of language and ways in which it can enrich the teaching of language. Offered infrequently.

EDUC 632 Elementary School Language Arts (3) Examines writing, reading, listening and speaking as tools for exploring concepts across the curriculum. Current research and theory will be examined. Offered infrequently.

EDUC 634 Realism in Children's Literature (3) Examines the realistic treatments of topics in fiction and nonfiction for children and the issues that they raise. Censorship will be explored, and procedures for addressing it will be examined. Offered infrequently.

EDUC 635 Folk Literature and Its Oral Interpretation (3) Designed to provide opportunities for teachers, librarians and interested members of the community to explore the realm of traditional literature appropriate for use in the educational curriculum and cultural arts programs. It allows participants to achieve an understanding of the purpose and history of oral literature, as well as its modern educational and social applications. Offered infrequently.

EDUC 636 Literature and Response (3) Examines literature for children and adolescents, and their responses to it. Students investigate the influences upon and patterns of response, including motor, oral, written and expressive-art response, and the authentic assessment of it. Literature in all genres will be read. Students should possess a working knowledge of contemporary children's literature. Course is intended for students who have completed a survey course in children's literature. Offered annually.

EDUC 641 Social Studies in the Elementary School (3) An overall view of social studies in the elementary school curriculum. Investigation of the role it plays and the methods and strategies appropriate for elementary school children. Offered in summer.

EDUC 642 Individualizing Instruction in Social Studies (3) Examination of programs, guidelines and practices for individualizing instruction in the social studies curriculum. Offered periodically.

EDUC 643 Curriculum Trends in Social Studies (3) Study of significant trends in social studies education that are a result of the many social issues in our society. Emphasis on content and methodology appropriate for social studies education. Offered infrequently.

EDUC 651 Mathematics in the School Program (3) The nature of mathematics and mathematical thought processes; current views on the learning and teaching of mathematics; problem solving; aids to instruction; instructional strategies in mathematics education. Offered in summer.

EDUC 658 Seminar in School Mathematics Education (3-6) Examination of critical issues, research studies and individual research problems. Prereq: EDUC 651 or permission of instructor. Offered periodically.

EDUC 661 Science in the School Program (3) The nature of science and science thought processes; current views on learning and teaching science; analysis and critical evaluation in developing science for children. Offered in summer.

EDUC 668 Seminar in School Science (3) Examination of critical issues, research studies and individual research problems in the teaching of science in the schools. Offered periodically.

EDUC 671 Curriculum Development in the School (3) Developing curriculum in theory and practice for subject areas. Emphasis is on critiquing planned programs of study and articulating a personal philosophy of curriculum design. Offered annually.

EDUC 672 Cooperating Teacher in the Schools (3) Examination of issues involved in supervision of preservice teachers. Includes supervision of student teachers. Prereq: teacher certification. Offered infrequently.

EDUC 673 Measurement and Assessment in Teaching (3) Principles, procedures and ethics of testing and measurement essential to curricular decision making and effective teaching. Offered infrequently.

EDUC 691 Independent Studies (1-3) Intensive study of a particular field, curriculum area or problem in education. Prereq: 12 graduate s.h. Offered periodically.

ELED 502 Education in Today's Elementary School (3) An in-depth look at teaching in the elementary school. Topical study includes concepts, definitions, skills and classroom management strategies needed by today's thinking, decision-making classroom professionals. In lieu of field experiences, appropriate teaching behavior is modeled by the instructor, and actual classroom occurrences are examined by the case study approach and through other media. Offered in summer.

ELED 505 Creative Activities in the Elementary School (3) General theory of creativity. Consideration of the basic principles of creative teaching as they relate to the various curricular areas in the elementary school. Activities and experiences applied to creative teaching. Offered in summer.

ELED 576 Assessment for Instructional Planning (3) Principles, procedures and use of traditional and alternative testing and measurement to make curricular decisions to enhance student learning in the elementary classroom. Emphasizes analysis of student learning to inform teacher decision making. Prereq: ELED 502, EDFN 545, RDED 621 and two college-level mathematics courses. Offered annually.

ELED 678 Internship in Elementary Education (1-12) Internship in schools or educational situations under supervision of the graduate faculty of the Department of Early, Middle and Exceptional Education. Offered periodically.

ELED 699 Thesis (3-6) Each student writes and orally defends an individual thesis on an elementary education topic. Prereq: 24 graduate s.h. Offered periodically.

ELED 799 Applied Supervision: Elementary Education (3) Internship in supervision to take place in schools or educational situations under the direction of the graduate faculty of the Department of Early, Middle and Exceptional Education. Prereq: EDSP 700, 701 and 703. Offered periodically.

LANGUAGE AND LITERACY EDUCATION

RDED 620 Current Practices in Literacy Education (3) Current trends and appropriate pedagogy in the teaching of literacy processes, including reading, writing and speaking in the preK through grade 8 classroom. Content consistent with the *Pennsylvania Standards for Reading, Writing, Speaking and Listening* and the *Common Core State Standards*. Offered annually.

RDED 621 Foundations of Reading and Writing (3) The bases of literacy and the significant research that has established the theoretical foundations for these processes. Analysis of research and its practical application to the classroom. Offered annually.

RDED 622 Reading and Writing in the Content Areas (3) Discussion of strategies and techniques for enhancing comprehension, concept and vocabulary development, and study skills in the content areas. Offered annually.

RDED 623 Diagnosis of Reading and Writing Disabilities: A Practicum (3) Administration and interpretation of various formal and informal diagnostic assessments related to literacy. Decision making about individuals with reading and writing difficulties, based on current theory and practice. Prereq: RDED 621 and 622. Offered in fall.

RDED 624 Diagnosis and Correction of Reading and Writing Difficulties: Reading Clinic Practicum (6) Course focuses on procedures and materials for prevention and correction of reading difficulties, evaluation of student progress and differentiation of instructional techniques. Prereq: RDED 623. Offered in summer.

RDED 625 Psychological and Social Factors in Reading and Writing Ability (3) Discussion of psychological, social and health factors that influence reading and writing ability; theories and practices of teaching reading to culturally diverse individuals; and the role of the reading specialist in the planning and implementation of a schoolwide reading program. Prereq: RDED 623. Offered annually.

RDED 626 Literacy Leadership (3) Course focuses on the role of the reading specialist as a literacy leader. Topics will include theoretical orientations, the observation and supervision of reading, principles of staff development, principles of coaching and leadership practices. Prereq: RDED 621 and 622. Offered in spring.

RDED 629 Special Topics in Reading (3) In-depth investigation and development of an area of current reading interest not normally covered in regular courses. Topics covered and methods used will vary according to needs of students and faculty involved. Course instructors include staff, national reading authorities and area reading personnel. Offered in summer.

RDED 699 Thesis (3-6) Each student writes and orally defends an individual thesis of some significance in the field of reading education. Prereq: 24 graduate s.h. Offered periodically.

RDED 798 Advanced Theoretical Pedagogy of Reading (3) Advanced theoretical pedagogy of reading and the supervision of literacy instruction. Principles of supervision and progressive discipline; principles of staff development and evaluation of staff development; curriculum auditing practices. Site-based supervision of staff development and coaching. Prereq: EDSU 700, 701 and 703. Offered periodically.

RDED 799 Applied Supervision: Reading Clinic (3) Supervision of teachers working in a classroom and in a reading clinic, complete with observations and follow-up conferences. Written case reports on teachers supervised will be required. Prereq: EDSU 700, 701 and 703. Offered periodically.

EARLY CHILDHOOD EDUCATION

ECHD 519 Seminar in Early Childhood Education (3) Investigation of contemporary goals of early childhood education. Provides analysis of organizational plans, classroom environment, teaching strategies and resources, and noteworthy trends and innovations. Application to individual situations is stressed. Focus will vary. Offered annually.

ECHD 611 Current Practices and Research in Early Childhood Education: Affective and Psychomotor Emphasis (3) Investigation of contemporary practices and research pertaining to the affective and psychomotor development of children, birth to age 8. Primarily covers emotional growth, socialization, self-concept, aesthetic awareness, physical growth and perception. Offered annually.

ECHD 612 Current Practices and Research in Early Childhood Education: Cognitive Emphasis (3) Contemporary practices and research pertaining to the cognitive development of children, birth to age 8. Includes literacy and mathematical abilities, social cognition, memory, language and brain development research. Offered periodically.

ECHD 613 Early Childhood Education: Home, School, Community (3) Examination of current programs and recommended procedures for developing communication between home and school. Acquaints students with community resources and services available to families and teachers. Opportunities to develop a practical parent-teacher communication program for an individual teaching situation. Offered annually.

ECHD 614 Advanced Curriculum in Early Childhood Education (3) Extension of basic curriculum theory and practice as it applies to programs for young children. Sources of influence on early childhood curriculum—such as professional organizations, learning theorists and historical practice—will be examined. Students analyze and revise or refine curriculum content and practices in their individual learning situations. Offered annually.

ECHD 615 Administration and Supervision of Early Childhood Programs (3) The role of the early childhood program administrator as an educational leader. Topics include educational decision making; program development; effective staff supervisory skills; facility management; funding sources and procedures; advocacy; and health, safety and nutrition issues. Offered periodically.

ECHD 616 Play in the Early Childhood Curriculum (3) Examination of play as a vital component of the early childhood curriculum. Focuses on the research, theories and practical knowledge of play in children's development in order to help adults make the play component of a program more effective and meaningful. Offered periodically.

ECHD 699 Thesis (3-6) Each student writes and orally defends an individual thesis of some significance in the field of early childhood education. Prereq: 24 graduate s.h.

SPED 618 Early Intervention for Infants, Toddlers and Preschoolers with Developmental Delays (3) For practicing teachers or master's-level students who will be called upon to develop, implement and evaluate early-intervention programs for students with developmental delays and students who are at risk for school delays. Includes examination of areas that interfere with normal development, assessment of the needs of young children and design of programs to facilitate growth. Includes the importance of family involvement and evaluates instructional strategies intended to enhance the child's success. Covers skills in accordance with family-centered services and participation in interagency, collaborative efforts. Offered periodically.

MUSI 587 Music in the Kindergarten and Preschool Classroom (3) In-depth study of games, teaching strategies and materials providing classroom teachers and music teachers with tools to create meaningful musical experiences in the classroom. Current principles and guidelines for early childhood education will be presented. An opportunity to work with preschool children under the direction of several experienced teachers. Also covers basic musical concepts. Musical materials will include multicultural folk and other musical genres. Offered periodically.

GIFTED EDUCATION

GFED 670 Psychology of the Gifted (3) Covers diverse elements in psychology that converge in the study of giftedness. The early studies of Terman will give a historical perspective leading to an exploration of developments in the areas of measurement, individual differences and multifactorial views of intelligence. Emphasis will be placed upon the literature on creativity and problem solving. The contribution of humanistic psychology which gives a sense of process or personal growth and of achievement will be explored.

GFED 674 Programming for the Gifted (3) Designed for in-service teachers pursuing a master's degree in gifted education or for those teachers with special interest in educating the gifted and talented. In-depth exploration of six components of gifted programs: definition of gifted, identification of the gifted, curriculum, teacher selection, program organization, and management.

GFED 675 Evaluating Instructional Effectiveness: Applications for the Gifted (3) An advanced course dealing with ways to evaluate the achievement of gifted and able students. Attention will be paid to interpretation of relevant research pertaining to the instruction and identification of gifted and able students. Prereq: GFED 674 or permission.

GFED 676 Teaching Gifted Learners: Instructional Strategies (3) This course is designed to prepare teachers to identify and use appropriate instructional and curricular strategies to meet the needs of gifted and talented learners. Best practices and current research on instructional pedagogy for the gifted and talented will be examined and implemented. Appropriate informational technology will be used to research, plan and implement instructional strategies for gifted and talented learners.

GFED 686, 687, 688 Topics in Gifted Education (3) Possible topics include creativity, motivation, management of gifted programs, research, etc. Participants may take this course more than once. Topics vary each year and are taught by faculty from various departments.

GFED 690 Clinical Practicum in Gifted Education (6) Practical application of curriculum models and strategies for gifted students. Production of materials/units to be used in the classroom. Direct instruction of gifted youngsters will be required. Prereq: GFED 674 and GFED 675 or permission.

GFED 699 Thesis (3-6) Prereq: 24 graduate s.h. Offered periodically.

SPECIAL EDUCATION

SPED 580 Diagnostics and Assessment Strategies for Students with Disabilities (3) In this course, teacher candidates will develop competencies for administration, scoring and interpretation of formal assessment devices typically used in educational evaluations. Teacher candidates acquire knowledge of the process of how to select formal assessment tools in terms of reliability, validity and norm populations, and learn about integrated systems of assessment and data collection for identification of students struggling to meet academic and behavioral expectations. Teacher candidates will learn the role of educational evaluations in developing Individual Education Programs (IEP) for students in need of support in the general education curriculum. Teacher candidates learn how to collaborate with parents and include them as equal partners in the assessment process.

SPED 586-589 Topics in Special Education (3) Specific topics are chosen that may serve as a change agent for special education programs in which students with disabilities are the prime responsibility.

SPED 600 Orientation to Special Education (3) Introductory overview of special education, primarily for individuals with no previous knowledge of the field. Emphasis is placed upon comprehension of definitions, terminology and classification systems. General historic backgrounds for the areas of brain injured, intellectual disabilities, emotionally disturbed, socially maladjusted, and physical and learning disabilities are reviewed in terms of program development, laws and curriculum.

SPED 601 Psychological Aspects of Individuals with Disabilities (3) A survey course of physical, psychological and social aspects of individuals with disabilities. Special attention is paid to disability as a socially constructed experience for people with disabilities as it pertains to learning processes, educational systems and social roles. The historical development of education and human service programs for individuals with disabilities is given consideration. Current terminologies and trends are emphasized. Multicultural aspects are included as they pertain to special education.

SPED 618 Early Intervention for Infants, Toddlers and Preschoolers with Developmental Delays (3) For practicing teachers or master-level students who will be called upon to develop, implement and evaluate early-intervention programs for students with developmental delays and students who are at risk for school delays. Includes examination of areas that interfere with normal development, assessment of the needs of young children and the design of programs to facilitate growth. Includes the importance of family involvement and evaluates instructional strategies intended to enhance the child's success. Covers skills in accordance with family-centered services and participation in interagency, collaborative efforts. Prereq: SPED 580, 600 and 601. Offered periodically.

SPED 642 Seminar in Effective Teaching for Students with Mild/Moderate Disabilities (3) Provides education intervention and management model for the accurate assessment of, and systematic intervention with, mentally and/or physically handicapped school-age students. Emphasis is placed on selecting and applying specific evaluation tools, programs, materials, techniques and psychological principles to the learning of identified populations. Prereq: SPED 580, 600 and 601. Offered in summer.

SPED 644 Seminar in Effective Teaching for Students with Multiple Disabilities (3) A seminar in prescriptive teaching techniques explores the needs and functioning levels of school-age students with multiple disabilities and investigates approaches for basic development in categories including motor, self-help, and social and language development skills. Prereq: SPED 580, 600 and 601. Offered in summer.

SPED 651 Advocacy and Leadership for the Accomplished Special Education Teacher (3) This course orientates the student with advanced opportunities, roles, and skills available to the accomplished special education teacher. Students will learn how to be effective advocates for students and their families, as well as how to develop leadership skills in the special education classroom and beyond. Emphasis will be placed on relevant professional organizations and careers that highlight special education advocacy and leadership.

SPED 652 Issues in Diversity for the Accomplished Special Education Teacher (3) This course allows the student to examine and reflect upon a variety of social constructs, intercultural issues, curriculum development and implications for future research and practice in respect to preK-12 education and development of policies at the international, national and local levels as they impact the lives of diverse children, adults and families living in the United States and across the globe.

SPED 653 Consultation and Collaboration for the Accomplished Special Education Teacher (3) This course is designed to prepare educators to effectively collaborate and problem-solve with students, families and other professionals. A major emphasis in this course will include co-planning, co-instruction and co-reflection through demonstration lessons. Additional content in this course will address the legal requirements associated with referral and procedural safeguards for parents and youth with disabilities. Emphasis will be placed on consultation and communication strategies to facilitate collaboration within schools and the surrounding community.

SPED 654 Advanced Pedagogy for the Accomplished Special Education Teacher (3) This course familiarizes experienced educators with an in-depth examination of research-based pedagogical methods used to improve academic, social, behavioral and transitional outcomes for preK-12 students with disabilities. Current instructional and assistive technologies will be explored. Specific topics and strategies explored in the course will be aligned to the strengths and preferences of each student. Selection, implementation and assessment of appropriate teaching strategies with an authentic audience will be expected.

SPED 665 Transition and Supportive Employment for Adults with Disabilities (3) Transition planning for secondary students with disabilities, with specific emphasis on making appropriate job-placement decisions. Job categories will also be examined to assist in making meaningful matches between the worker and job. Programs that facilitate development of a congruence between job and employee are included, as well as agencies and other resources that might assist in job placement. Prereq: SPED 580, 600 and 601. Offered infrequently.

SPED 671 Behavior Analysis: Strategy Systems for Special Education (3) Intervention strategies for dealing with appropriate and inappropriate behaviors in individuals with disabilities. Opportunities to research and practice relevant classroom teaching and management skills, including the analysis of student behaviors, techniques for modifying targeted skill areas and methods for analyzing possible causes of behavior. Discussions of systematic procedures for evaluating the efficacy of certain management and intervention systems. Also emphasizes investigation and development of pragmatic solutions to students' current placement questions. Prereq: SPED 580, 600 and 601. Offered in fall.

SPED 681 Administration and Supervision of Special Education Programs (3) Current issues and practices of special education curriculum and instruction, school law, budget process, staff development, teacher supervision, family collaboration and public relations are analyzed. Discussions are geared to effecting change to meet standards, student needs and best practices for students with special needs. Prereq: acceptance into department supervisory program; may be taken concurrently with EDSU 700, 701, 703; must be taken prior to SPED 799. Offered periodically.

SPED 689 Research Seminar for the Accomplished Special Education Teacher (3) This course is designed to acquaint graduate students with relevant areas of needed research in the field of special education. Attention is given to discovering relevant problem areas for investigation. Historical, descriptive and experimental methods of research are covered. The value of research-based teaching practices is stressed. A main purpose is to guide the student through an experience of writing a grant proposal and a literature review. Prereq: EDFN 601 Methods of Research.

SPED 690 Clinical Practicum (6) This experience will be utilized by students who are certified in areas of education other than special education. Prereq: SPED 580, 600, 601, 621, 642, 644, 652 and 671.

SPED 693 Action Research (3) In-depth approach to a specially and individually structured problem. Seminars to discuss recent trends and issues in special education will be included. Students may visit and become familiar with institutions, private schools and innovative public school classes for students with disabilities.

SPED 695 Capstone Experience for the Accomplished Special Education Teacher (3-5) This course enables the student to put theory into practice as it pertains to the professional contributions of an accomplished special education teacher. In accordance with the ongoing consultation of the instructor, the student will design, implement and reflect upon a major capstone project aligned with the objectives of the program. Capstone examples include but are not limited to a.) action research, b.) creation/presentation of professional development, c.) creation/presentation of original scholarship at a professional conference, d.) mentorship of a preservice or new special education teacher, e.) grant writing. The course is three hours (pass/fail). However, if the student is unable to complete all requirements of the course during a single semester, they may reenroll for one credit up to two additional, consecutive semesters for a total of five credits. Prereq: completion of all special education M.Ed. coursework. Up to six credits (not from the Knowledge Core) may be taken concurrently.

SPED 699 Thesis (3) An applied research project pertaining to the education of students with disabilities. Research findings must be submitted to a professional journal, and papers must be orally defended to a committee.

SPED 799 Applied Supervision: Special Education (3) Provides prospective supervisors with field experience and problems encountered in the schools. Emphasis on defining and identifying pupils in all areas of disability, planning and operating a comprehensive special education program, and emphasis on techniques in assisting teachers in evaluating and improving their curricula and teaching techniques. Prereq: EDSU 700, 701, 703 and SPED 681.

PROGRAM SPECIALIST—ESL CERTIFICATION PROGRAM

EDUC 561 Second Language Acquisition: Theory, Programs and Assessment (3) Provides prospective and practicing teachers with a foundational understanding of English language structure, first and second language acquisition, and oral language assessment methods for K-12 classrooms. Historical and evolving legislative policies and programs related to schooling and English language learners in the U.S. Offered annually.

EDUC 562 Methods for Teaching English Language Learners (3) Provides prospective and practicing teachers with an opportunity to apply theoretical foundations of second language acquisition to teaching in the classroom. Methods for developing English language learners' conversational and academic language, as well as strategies for learning in the content areas. Prereq: EDUC 561. Offered annually.

EDUC 563 Linguistic and Cultural Diversity in the Classroom (3) Examines U.S. and world cultures, sources of cross-cultural conflict and approaches to cross-cultural conflict resolution as it relates to K-12 settings. Explores approaches for creating classrooms that promote equity and an appreciation for diversity. Offered annually.

EDUC 564 Assessment, Policies and Practices in Teaching English Language Learners (3) Focuses on the use of various tools in assessing and planning for the linguistic and instructional needs of English learners. Contains a public school field experience component where participants apply methods and principles for supporting English language learners in K-12 settings. Examines state and federal policies as they relate to schooling and English language learners. Prereq: EDUC 561 or 562. Offered annually.

EDUC 565 Language and Literacy Interventions: Clinical Practicum (6) Application of literacy theory and knowledge of effective research-based instruction. Assessment of English language learners. Acquisition of academic vocabulary, instructional strategies for teaching content area vocabulary and text, and use of interventions in a clinical setting. Prereq: EDUC 561, 562, 563 and 564 or permission of instructor. Offered annually.

SOCIAL WORK

GRADUATE FACULTY

Millersville University

Karen M. Rice, Department Chairperson. Ph.D., University of Maryland, 2011. Child Welfare, Diversity, Macro Practice, Research, Statistics, Program Evaluation, Global Social Work.

Marc Felizzi, M.S.W. Program Coordinator. Ph.D., Widener University, 2010. Micro/Mezzo Practice, Mental Health, Family Violence.

Laura Brierton Granruth, DSW Coordinator. Ph.D., The Catholic University of America, 2009. Policy, Healthcare, Writing for Research, Dissertation Seminar.

Joyous C. Bethel. Ph.D., Barry University, 1997. Micro/Mezzo Practice, Families, Human Behavior and the Social Environment, Diversity, Spirituality, Grief.

Tammy Carson, Field Coordinator. MSW, University of Pittsburgh, 1992. Field.

Bertha DeJesus. DSW, Kutztown University/Millersville University, 2018. Field, Micro/Mezzo/Macro Practice, Child Welfare, Human Behavior and the Social Environment.

Leonora E. Foels. Ph.D., Barry University, 2007. Micro Practice, Diversity, School Social Work, Mental Health.

Jennifer M. Frank. Ph.D., Bryn Mawr, 2017. Social Welfare, Human Behavior and the Social Environment, Homelessness, Poverty, Macro Practice.

Heather L. Girvin. Ph.D., Bryn Mawr, 2002. Research, Child Welfare, Diversity, Human Behavior and the Social Environment.

David H. Johnson. Ph.D., University of Texas at Austin, 2009. Social Welfare Policy, Human Behavior and the Social Environment, Macro Practice, Research, Mediation.

Wanja Ogongi. Ph.D., Widener University, 2012. Macro Social Work Practice, Human Behavior and Social Environment, Social Work Research, Field Education.

Curtis D. Proctor. Ph.D., Case Western Reserve University, 2005. Research, Diversity, Statistics, Human Behavior and the Social Environment.

Alexandra Redcay. Ph.D., Rutgers University, 2016. Research, Statistics, Child Welfare, Mental Health Addiction, Transgender Issues.

Kathleen M. Walsh. Ph.D., University of Maryland, 2006. Micro/Mezzo/Macro Practice, Administration, Management.

Kutztown University

John A. Conahan. Ph.D., Marywood University, 2005. Policy Practice, Administration and Leadership, Substance Abuse.

Janice A. Gasker. DSW, University of Pennsylvania, 1995. Economic Justice and Narrative Practice.

Edward P. Hanna. DSW, University of Pennsylvania, 1993. Practice Theory Development, Critical Thinking and Ethics, Mediation and Conflict Management/Resolution, Clinical Supervision, Program Moderation and Facilitation.

Yoon Mi Kim. Ph.D., University of Pittsburgh, 2013. Child/Youth Identity Development, Acculturation, Secondary Posttraumatic Stress.

Sharon C. Lyter. Ph.D., Rutgers University, 1986. Micro/Mezzo Practice, Behavioral Health, Diversity, Social Work Supervision.

Varsha Pandya. Ph.D., Case Western Reserve University, 2001. Research Methods, Qualitative Research Methods, Research Education, Group Work, Family Violence, Public Child Welfare, Child and Adolescent Social Work, Poverty.

- Yasoda Sharma. Ph.D., University of Texas at Arlington, 2012. Violence Against Women, Reproductive Health, HIV/AIDS, Mental Health, International Social Work and Social Work Research.
- Juliana Svistova. Ph.D., University at Albany, State University of New York, 2015. International Social Work/Development, Qualitative Research.
- John G. Vafeas. DSW, University of Pennsylvania, 1987. Academic Leadership, Faculty and Program Development, Agency and Program Accreditation, Academic Accreditation, Research Methodology and Program Evaluation, Information Technology in Social Services, Disabilities, Community-Needs Assessment.
- Barth K. Yeboah. DSW, University of Pennsylvania, 1988. Human Behavior in the Social Environment, International Migration, Immigrant Families.
- Fang-Hsun Wei. Ph.D., University of Texas at Arlington, 2012. Health, Social and Economic Development; Social Work Statistics; International Social Work.
- Mary Rita Weller. Ph.D., Widener University, 2006. Disabilities, Human Sexuality, Human Behavior, Social Environment.

Shippensburg University

- Andrea Barrick. Ph.D., West Virginia University, 2015. Agenda Setting, Violence Against Women, Public Opinion, Policy Making in State Supreme Court.
- Samuel Benbow. D.Ed., Indiana University of Pennsylvania, 2007. Multicultural Education, Student Retention, Team Building.
- Dara P. Bourassa. Ph.D., University of Maryland, 2007. Aging, Health Care, Mental Health, Research.
- Jennifer Clements. Ph.D., University of Maryland, 2006. Group Work, LGBT Youth, Micro/Mezzo Practice, Child Welfare.
- Elizabeth Fisher, Department Chair. Ph.D., University of Maryland, 2004. Social Work History, Policy, Practice, Transformational Leadership.
- Marita Flagler, Graduate Program Co-Coordinator. Ph.D., Colorado State University, 2004. Intellectual Disabilities, Gender Issues, International Social Work, Social Welfare Policy.
- Jayleen Galarza, Field Co-Coordinator. Ph.D., Widener University, 2013. Intersectionality, Latina Sexuality, Sexual Identities and Experiences, Feminist Therapy.
- Michael J. Lyman. Ph.D., University of Utah, 2004. Micro Practice, Families, Field Education, Distance Education Instruction, Research.
- Dorlisa J. Minnick. Ph.D., The Catholic University of America, 2010. Research, Service Learning, Policy.

THE PROGRAMS

DOCTOR OF SOCIAL WORK

The Kutztown University-Millersville University (KU-MU) collaborative Doctor of Social Work with a focus on leadership and education prepares graduates for innovation and leadership in social work theory, practice and education.

The program is ideal for current social workers who are currently employed in professional positions. It is a part-time, online program with an intensive weekend residency once each semester.

MISSION

The KU-MU DSW program will provide advanced preparation for practice and teaching. Graduates will create, implement and evaluate social work interventions as well as teach.

GOALS

1. Prepare graduates for advanced leadership in social work.
2. Prepare graduates to conduct research for practice and policy development.
3. Prepare graduates to teach in higher education.

COURSE OF STUDY

Year 1

- SWK/SOWK 700** Social Work Leadership I (3)
- SWK/SOWK 701** Social Work Leadership II (3)
- SWK/SOWK 704** Social Work Teacher-Scholar I (3)
- SWK/SOWK 705** Social Work Teacher-Scholar II (3)
- SWK/SOWK 710** Research Methodology (3)
- SWK/SOWK 715** Multivariate Analysis (3)

Year 2

- SWK/SOWK 600-899** Elective (3)
- SWK/SOWK 720** Leadership/Teaching Praxis I (3)
- SWK/SOWK 721** Leadership/Teaching Praxis II (3)
- SWK/SOWK 725** Intervention Research (3)
- SWK/SOWK 730** Qualitative Analysis (3)
- SWK/SOWK 775** Dissertation Seminar (3)

Year 3**SWK/SOWK 600-899** Elective (6)**SWK/SOWK 776** Doctoral Dissertation I (3)**SWK/SOWK 777** Doctoral Dissertation II (3)*Note: The APA style of citation will be used for the DSW program and dissertations.***COURSE DESCRIPTIONS**

SWK/SOWK 700 Social Work Leadership I (3) This is the first of a sequence of two courses on advanced leadership and management for Doctor of Social Work students. Students will glean a theoretical orientation to the study of organizations and leadership within organizations. This examination of theories will reflect the values of the social work profession and their application to social service systems, structures and processes. Also explored will be theories of organizational change, organizational challenges and organizational effectiveness. Within the context of social service organizations, leadership approaches and theories are also examined. Prereq: acceptance into the DSW program or permission of the chair of the department.

SWK/SOWK 701 Social Work Leadership II (3) This is the second course in the advanced leadership and management sequence. The focus of this course is on development of knowledge and skills for social work managers within the public and private social service sector. Additional attention will be given to leading in times of fiscal constraint, political changes and workforce challenges. Prereq: Social Work Leadership I or permission of the chair of the department.

SWK/SOWK 704 Social Work Teacher-Scholar I (3) This is the first of a sequence of two courses on social work teaching and scholarship for Doctor of Social Work students. The course will enable students to critically examine seminal and contemporary works in pedagogy. The connection of these theories to social work teaching and learning will be a central component of this course, including particular emphasis on the historical evolution of social work education. The course provides students with an opportunity to explore seminal works from a historical perspective and critically evaluate contemporary theories of teaching and learning in social work. It is required preparation for the second course in the sequence in which students develop a unique and personal conceptual framework for their own teaching. Prereq: acceptance into the DSW program or permission of the chair of the department.

SWK/SOWK 705 Social Work Teacher-Scholar II (3) This is the second in a sequence of two courses about social work teaching and scholarship for Doctor of Social Work students. The course provides students with an opportunity to critically evaluate theories of teaching and learning, particularly in contemporary settings in social work. Students will craft a conceptual framework to guide their own career as instructors in a variety of social work settings, including undergraduate and graduate professional social work education. They will practice course planning and delivery along with program development and student/course/program assessment, with attention to accreditation requirements. In addition, they will develop understanding of the roles of the social work teacher-scholar in academe and other settings. Prereq: Social Work Teacher-Scholar I or permission of the chair of the department.

SWK/SOWK 710 Research Methodology (3) This course provides a connection between social science theory building and research. It explores in depth the logic of research and the stages of the scientific process. Also central to this course are the major methods, designs, techniques and strategies in the practice of social research. The role of research in social work practice as well as the strengths and limitations of various approaches, designs, methods and techniques will be examined. Data gathering, information processing systems and analytical techniques will form a major focus in this course. Of particular importance will be the student's development of skill for designing proposals for evidence-based ethical research. While qualitative and mixed methods will be covered, the major emphasis of the course will be on quantitative approaches and analytical techniques. Instruction will include modeling teaching methods of research methodology courses, use of modern software for quantitative and qualitative analysis, and the proper uses of statistical analysis, including that at the multivariate levels of analysis and structural equation modeling. Knowledge and skill learned in this course will constitute the building block for subsequent research-related coursework in the DSW program and the completion of a successful dissertation.

SWK/SOWK 715 Multivariate Analysis (3) Doctoral students will practice descriptive, univariate and bivariate inferential statistics, and multiple regression. Further, students will gain a foundation in repeated measures analysis, logistic regression and multivariate analysis of variance. Students will use multivariate analysis to conduct meta-analysis of literature and the evaluation of programs.

SWK/SOWK 720 Leadership/Teaching Praxis I (3)/SWK/SOWK 721 Leadership/Teaching Praxis II (3) This experiential, two-semester course is designed to provide students with an opportunity to demonstrate mastery of the course content from the program's first year. Students will participate in supervisory leadership and/or teaching activities that provide experiential learning, and application and integration of theory and skills acquired in earlier coursework. Weekly meetings are a required component of this course, and the meetings will be facilitated by a faculty member to instruct, guide and assess student progress related to the leadership and/or teaching praxis.

SWK/SOWK 725 Intervention Research (3) This advanced research course will introduce students to the five steps of intervention development, testing and dissemination. Students will be given the opportunity to practice elements of these stages to master the strategies of implementing, documenting and evaluating interventions that respond to social problems affecting systems of all sizes (e.g., individual, family, group, community).

SWK/SOWK 730 Qualitative Analysis (3) This course prepares doctoral students to understand the core process of qualitative study, including the study design, data-analysis techniques and ethics. The students will study strategies of qualitative research, including designs such as case study and ethnography along with data analysis methods such as narrative and grounded theory. The course provides opportunities to learn the tools to enhance and critically evaluate the rigor of a qualitative study as well as to write research proposals, report findings and identify how knowledge of social work practice, policy and education can be advanced through qualitative research.

SWK/SOWK 775 Dissertation Seminar (3) Students will engage in a collaborative learning experience in which they explore different ways of knowing in social sciences. They will become familiar with a variety of theoretical perspectives (based upon the interests of the group) and will practice integrating those theories with their professional social work practice as they work toward formulating a research question and identifying a relevant theoretical perspective from which to examine it in the upcoming dissertation. Ethical considerations in research will be examined, and students will become familiar with their institution's IRB process. Dissertation process will be considered, including the development of the dissertation committee. In addition, students will consider deeply the relationship between their education and their future roles as leaders and educators.

SWK/SOWK 776 Doctoral Dissertation I (3)/SWK/SOWK 777 Doctoral Dissertation II (3) Students will work in close consultation with a faculty member to build upon the research question crafted in the Dissertation Seminar. They will gain institutional approval for the conduct of their independent research and will conduct the research under the supervision of the faculty member. A focus will be placed on the completion of a traditional dissertation in the context of the development of applied knowledge that will be relevant to the social work profession; as such, the student will develop components of the dissertation that may be published or presented in refereed venues.

MASTER OF SOCIAL WORK

Millersville and Shippensburg universities are jointly offering a Master of Social Work (MSW) degree program to prepare students to work in a variety of human service programs and agencies in an advanced clinical and/or administrative capacity. The flexibility of the social work degree provides graduates with many options as they pursue their careers in helping fields.

All required courses are offered in the evening only. Elective courses will primarily be offered in the evening and occasionally on Saturdays. Some elective courses meet at the Dixon University Center in Harrisburg.

A dual-degree option is available for students in the MSW program who wish to also obtain a Master of Science in Emergency Management.

A dual-degree option is available for students in the MSW program who wish to also obtain a Master of Social Work and Master of Science in Emergency Management. Students seeking a dual degree in MSW/MSEM will need to complete the full curriculum in the MSW program (which is 36 or 60 credits). Students will learn emerging trends in emergency prevention, response and recovery; gain knowledge and skills related to emergency-management response; and develop ways to address secondary trauma individuals may experience after emergencies.

Learning Objectives

- Provide an understanding of the social nature of natural hazards and disasters.
- Give students knowledge of the social factors affecting disaster mitigation, preparedness, response and recovery, and 24 additional unique credits within the MSEM program.
- Reveal unfounded myths about human behavior in disasters.
- Increase awareness of hazards and disasters around the world and the unequal social consequences stemming from disasters.
- Provide an awareness of opportunities for policy adjustments and applications of research findings.
- Highlight social work values and ethics in examining the consequences of disasters as they relate to race, ethnicity, national origin, class, gender, physical or mental disability, mental illness and age.

A dual-degree option is available for students in the MSW program who wish to also obtain a Master of Social Work and Master of Education in Sport Management.

Students seeking a dual degree in MSW/M.Ed. in sport management will need to complete the full curriculum in the MSW program (which is 36 or 60 credits). Students will learn emerging trends in working with athletes of all levels, in clinical and counseling settings; gain knowledge and skills related to athletic program and/or venue management; and develop methodologies to work with athletes in a number of areas, for example, career counseling, life skills development, substance-abuse prevention, advocacy, recruitment and transitioning to a post—athletic career.

Learning Objectives

- Provide an understanding of the need for social workers in athletic settings.
- Give students knowledge of the social factors affecting athletes of all levels, develop skills to administer and develop athletic programs or facilities, and 24 additional unique credits within the M.Ed. in sport management program.
- Discuss current perceptions of student athletes.
- Increase awareness of the issues regarding athletes and sport management.
- Provide an awareness of opportunities for policy adjustments and applications of research findings.
- Highlight social work values and ethics in examining the issues of professional and amateur athletes as they relate to race, ethnicity, national origin, class, gender, physical or mental disability, mental illness and age. Students will have the opportunity to complete three internships while in the program, two with a social work focus, and one with a sport management focus.

Mission

The mission of the joint Millersville-Shippensburg MSW program is to provide accessible social work graduate education in the South Central region of Pennsylvania. We prepare students to be effective advanced generalist practitioners committed to the purpose and values of the social work profession.

Goals

1. Prepare students for competent advanced generalist practice through the acquisition and demonstration of social work practice behaviors consistent with the Council on Social Work Education (CSWE) educational policy and accreditation standards.
2. Prepare students with the specialized knowledge and skills for social work practice with client systems to resolve problems and facilitate change within the boundaries of ethical practice, and with attention to the profession's commitment to social justice and human rights.

3. Encourage students' commitment to continued professional development and lifelong learning by providing opportunities for community engagement and real-life learning experiences.

ACCREDITATION

The Millersville-Shippensburg MSW program is accredited by the Council on Social Work Education (CSWE). In February 2014, the CSWE reaffirmed and extended the program's accreditation until February 2022. The accreditation validates that the program meets national standards for social work education as determined by experts in the field. Practitioners must have graduated from a CSWE-accredited social work MSW program to be eligible to apply for licensure in Pennsylvania.

Admission Classifications

The program is designed both for students who have no previous social work education and for those who want to build upon their baccalaureate social work education. Students will be admitted full- or part-time.

Applicants may apply for regular-standing admission or for advanced-standing admission. Regular-standing admission is for students who completed a baccalaureate degree with a major from other than a CSWE-accredited social work program, and for students who graduated from a CSWE-accredited social work program but do not meet the GPA requirements for advanced standing. Applicants may apply for advanced-standing admission if they have graduated from a CSWE-accredited social work program and meet the GPA requirements as described in the admission guidelines.

Admission Guidelines

Candidates may choose to apply through either Millersville or Shippensburg University. Applicants for regular-standing admission must have a minimum cumulative grade-point average of 2.8 on a 4.0 scale from a regionally accredited undergraduate institution. In exceptional cases, applicants who lack the required grade-point average but whose other qualifications are outstanding may be admitted on a probational basis. Applicants admitted on probation must earn grades of B or higher in the first 12 credits.

Applicants for advanced-standing admission must have earned a baccalaureate degree within the last eight years from a CSWE-accredited social work program with an overall GPA of 3.0 and a major GPA of 3.25 or higher on a 4.0 scale.

Students who graduated with a baccalaureate degree from a CSWE-accredited social work program who are not eligible for advanced standing may be eligible for exemptions from first-year foundation courses other than practice and field instruction in which they have earned a grade of B or higher within the past eight years. Exemptions will reduce the total number of credits a student must earn to graduate. The Admissions Committee will send a letter notifying the applicant of the exemptions.

Students who do not otherwise qualify for advanced-standing status may be exempted from certain foundation courses under strict guidelines as outlined in this section. Students may not be exempt from practice or field placement coursework. With the exception of practice and field instruction courses, students who earned a grade of B or higher within the past eight years in courses that were part of a CSWE-accredited social work program are eligible for exemptions from first-year foundation courses with similar content.

All applicants with less than a 2.8 GPA must submit an official Miller Analogies Test (MAT) or general Graduate Record Exam (GRE) score report completed within the past five years as part of the admissions process.

Applicants must evidence a combination of professional and personal experiences, qualities and values that are considered essential for the practice of social work. A current résumé is required. Three professional references are required, with a minimum of one from faculty and one from a current or recent agency employer or supervisor. Applicants for advanced standing are required to submit an additional reference from the department chair of their undergraduate program. Applicants will complete a written personal statement. Application forms are available on the graduate studies website www.millersville.edu/apply/graduate. The program may request a personal interview or additional information about an applicant when necessary to make a fully informed admissions decision.

Persons who have a criminal record are not eligible to work in some human service fields. Applicants with criminal records should contact the MSW program director for additional information.

Students must demonstrate that they have successfully completed coursework with significant content in human biology, economics, U.S. federal or state and local government, psychology, sociology/anthropology and statistics. Applicants can be admitted with up to two course deficiencies. These course deficiencies must be completed by the end of the foundation year (30 credits) of the MSW program for regular admission, or before SOWK 630 Field Practicum for advanced-standing admission.

Students may receive or transfer credit for up to 9 credit hours earned at other regionally accredited institutions prior to admission. Graduate credits earned more than five years prior to admission do not qualify for transfer. Students may only transfer credits if they are in good standing in those schools. Courses must be listed on an official transcript with a B or higher. Condensed one-week graduate courses do not qualify for transfer.

With advance permission of the faculty advisor, program co-coordinator and dean of graduate studies and research, and as part of a planned program, a student may transfer credits from other graduate programs at Millersville University or Shippensburg University. Forms for the approval process of transfer of credits are available at www.millersville.edu/gps/studentlife.

The program does not grant academic credit for life or work experience.

Degree Requirements

Students with regular-standing admission must complete 60 credits of graduate study, including 42 credit hours of required coursework, 12 credit hours of field practicum and 6 credit hours of electives. BSW graduates with regular admission status may receive exemption for some coursework, as per admission guidelines.

Students with advanced-standing admission must complete 36 credits of graduate study, including 18 credit hours of required coursework, including a summer "bridge" course, 9 credit hours of field practicum and 9 credit hours of electives.

All courses must be taken in sequence. The 60-credit program can be completed in two years full-time (four courses a semester) or four years part-time (two courses a semester). The 36-credit program can be completed in one year full-time or two years part-time. Both programs are year-round, with each new cohort starting in the summer term.

Degree Candidacy

A formal admission to the degree candidacy process takes place after a minimum of 12 credits have been completed. Millersville-Shippensburg MSW faculty members evaluate students to determine if they have the potential for completing the requirements of the social work program. Qualifications are based on academic performance in line with University standards and demonstrated ethical behavior, values and commitment to social work as a career. The social work faculty has the right to dismiss from the program at any time students found not qualified for social work practice.

COURSE OF STUDY

Students enroll in either the regular (60 s.h.) or the advanced-standing (36 s.h.) program. Students in the regular program take both the required foundation year (I) and the concentration year courses, including two elective courses (III, IV). Students in the advanced program take SOWK 601, the concentration year courses (II) and the three elective courses (III, IV).

I. Foundation Year (30 s.h.) (Required of regular program students only.)

- SOWK 501** Principles and Philosophies of Social Work (3)
- SOWK 505** Understanding Social Work Practice with Diverse Populations (3)
- SOWK 510** Human Behavior in the Social Environment I (3)
- SOWK 511** Human Behavior in the Social Environment II (3)
- SOWK 515** Social Welfare Policy (3)
- SOWK 520** Micro/Mezzo Social Work Practice (3)
- SOWK 521** Macro Social Work Practice (3)
- SOWK 525** Research Methods (3)
- SOWK 530** Field Practicum I (3)
- SOWK 531** Field Practicum II (3)

II. Concentration Year—Required (3 s.h.)—Advanced-Standing Program

- SOWK 601** Integrative Seminar (3)

III. Concentration Year—Required (24 s.h.)—Regular- and Advanced-Standing Programs

- SOWK 610** Advanced Micro Practice and Assessment (3)
- SOWK 615** Advanced Social Welfare Policy (3)
- SOWK 620** Advanced Practice with Groups and Families (3)
- SOWK 621** Advanced Macro Social Work Practice (3)
- SOWK 625** Advanced Research Methods (3)
- SOWK 630** Advanced Field Practicum I (3)
- SOWK 631** Advanced Field Practicum II (3)

IV. Concentration-Year Electives—Required Regular Program (6 s.h.)/Advanced-Standing Program (9 s.h.)

- SOWK 602** Behavioral Health (3)
- SOWK 603** Gender Issues (3)
- SOWK 604** Health Care (3)
- SOWK 605** Child Welfare (3)
- SOWK 606** School Social Work (3)
- SOWK 607** Emergency Mental Health and Trauma (3)
- SOWK 608** Social Work Administration and Supervision (3)
- SOWK 609** Art Therapy and Social Work (3)
- SOWK 611** Children and Youth at Risk (3)
- SOWK 612** Social Work and the Law (3)
- SOWK 613** Mediation in Social Work Practice (3)
- SOWK 614** Survey Development and Measurement (3)
- SOWK 616** Leadership Dynamics in Social Work Practice (3)
- SOWK 617** Addictions in the Field of Social Work (3)
- SOWK 618** Human Rights in Social Work (3)
- SOWK 619** Global Perspectives in Social Work (3)
- SOWK 622** Military Social Work (3)
- SOWK 623** Narrative Therapy (3)
- SOWK 640-643** Special Topics (3)
- SOWK 691** Independent Study (3)

COURSE DESCRIPTIONS

SOWK 501 Principles and Philosophies of Social Work (3) Introduces the generalist model for practice, which serves as a base for subsequent social work courses and provides initial understanding of the needs and issues of special populations in relation to social welfare policies and services as well as social work practice. The course provides an introduction to the profession and the MSW program while helping to prepare students for their subsequent field placements. This course will be offered in a blended-learning format. Offered in summer.

SOWK 505 Understanding Social Work Practice with Diverse Populations (3) Focuses on issues of understanding human diversity, risk, societal power and privilege, including issues related to sexism, heterosexism, classism, ageism, religion and spirituality, cultural identity development oppression, risk, resilience and empowerment. This course will be offered in a blended-learning format. Offered in fall.

SOWK 510 Human Behavior in the Social Environment I (3) Examines the life-span approach to human development, with a focus on the interaction between the individual's biopsychosocial functioning and the social environment. It considers the impact of micro and mezzo (i.e., families and small groups) systems on behavior, with particular emphasis given to populations considered to be at risk. This course will be offered in a blended-learning format. Prereq or Coreq: SOWK 501. Offered in summer.

SOWK 511 Human Behavior in the Social Environment II (3) HBSE II explores theories for understanding the behavior of individuals, social systems and communities. It examines traditional and alternative perspectives on the political, economic and institutional environments, and critically considers opportunity structures and how they deter and promote human development. Prereq: SOWK 510. Offered in spring.

SOWK 515 Social Welfare Policy (3) Furnishes students with the orienting knowledge and skills needed to examine social welfare policies and to understand their relevance to social service delivery and social work practice. This course will be offered in a blended-learning format. Prereq: SOWK 501. Offered in fall.

SOWK 520 Micro/Mezzo Social Work Practice (3) Offers opportunities for applying and studying advanced generalist practice with individuals, families and groups. Course content is presented in a face-to-face format with Web-based supplements. Students will learn and apply intervention skills to their specific areas of interest, which enable development of individuals, families and groups in environment processes for improving social functioning. Prereq: SOWK 501; Coreq: SOWK 530. Offered in fall.

SOWK 521 Macro Social Work Practice (3) Conceptualizes macro social work as the profession that brings about social change. The course extends from understanding theories about communities and organizations to assessment and practice. Students will focus on analysis of the community as a social system, common strategies for producing change in community work, the nature of formal organizations as environments through which social services are provided in the community, and the knowledge and skills necessary to effect change within organizations. This course will be offered in a blended-learning format. Prereq: SOWK 520; Coreq: SOWK 531. Offered in spring.

SOWK 525 Research Methods (3) Introduces research concepts, procedures for conducting research and their application to social work practice. Advanced knowledge of scientific inquiry, the ethics that guide research and the roles of social workers as researchers are also covered. Both qualitative and quantitative methods of collecting and analyzing data are given major attention. Students learn the procedure for developing a research proposal. This course will be offered in a blended-learning format. Offered in spring.

SOWK 530 Field Practicum I (3) Provides students with practical experience (200 hours) in supervised direct-service activities across all client systems, from the individual's level to that of the community. This initial field experience allows the student to apply theory and skills acquired in the generalist foundation areas while simultaneously fostering the development of a professionally reflective, ethical, knowledgeable and self-evaluating social worker. Coreq: SOWK 520. Offered in fall.

SOWK 531 Field Practicum II (3) Provides students with practical experience (200 hours) in supervised direct-service activities across all client systems, from the individual's level to that of the community. This initial field experience allows the student to apply theory and skills acquired in the generalist foundation areas while simultaneously fostering the development of a professionally reflective, ethical, knowledgeable and self-evaluating social worker. Coreq: SOWK 521. Offered in spring.

SOWK 601 Integrative Seminar (3) Builds upon the foundation content from students' BSW programs. It serves as a "bridge" course to integrate BSW learning in preparation for MSW courses. A major focus in the course is an in-depth look at the history of social welfare services and the relationship to current social work knowledge, skills and values. A research experience is required that serves as the basis for the course project. This course will be offered in a blended-learning format. Prereq: advanced-standing admission status. Offered in summer.

SOWK 602 Behavioral Health (3) Enables students to understand and increase their ability to work with micro to macro aspects of mental health/mental retardation and substance abuse/dependence as bio-psycho-social-societal phenomena. This course will be offered in a blended-learning format. Prereq: SOWK 601 or completion of foundation year. Offered in spring.

SOWK 603 Gender Issues (3) Provides an in-depth study of the concepts, policies, practices and research in the field of gender studies. This course will examine institutionalized gender socialization, current gender issues and controversies, feminist theory for understanding behavior, and guiding principles and practices for helping professionals. This course will be offered in a blended-learning format. Prereq: SOWK 601 or completion of foundation year. Offered periodically.

SOWK 604 Health Care (3) Focuses on four content areas: 1) what the social worker's role is in different healthcare settings; 2) historic and current policies that affect healthcare services; 3) current research in various healthcare-related issues; and 4) international models of care. This course will be offered in a blended-learning format. Prereq: SOWK 601 or 531. Offered periodically.

SOWK 605 Child Welfare (3) Provides an in-depth study of the concepts, policies, practices and research in the field of child welfare and family and children services. This course will provide an introduction to the child welfare field, an overview of the development of services for children, a detailed examination of the provision of services and an exploration of the ethical implications of child welfare practice. This course will be offered in a blended distance-education format. Prereq: SOWK 601 or 531. Offered periodically.

SOWK 606 School Social Work (3) Provides an in-depth study of the concepts, policies, practices and research in the field of school social work, examining policy, research, practice and human behavior content. This course will be offered in a blended-learning format. Prereq: SOWK 601 or SOWK 531. Offered periodically.

SOWK 607 Emergency Mental Health and Trauma (3) Provides an in-depth study of the concepts, policies, practices and research in crisis intervention during disasters. This course will provide an introduction to the disaster field, a detailed examination of the human service delivery systems and guidelines for attending to the emotional and mental-health needs of both disaster survivors and responders, using the Critical Incident Stress Management model. This course is offered online. Prereq: SOWK 601 or 531 or permission of instructor. Offered periodically.

SOWK 608 Social Work Administration and Supervision (3) This course is designed to expand students' knowledge of and skills in effective program management of human services organizations and to provide approaches for managing service programs effectively. Organizational and management theories and principles are applied to a range of human services. This course will provide students with an introduction to the knowledge and skills necessary to perform managerial and supervisory functions in public and private human service organizations, including those that have historically served populations at risk. It will examine the structure and processes of human service organizations, the process of management, and organization building. The course will also cover different supervisory approaches and techniques, and consider supervisory challenges that arise in various practice settings. During this course, students will be provided with opportunities to build competencies.

SOWK 609 Art Therapy and Social Work (3) This advanced elective course explores the principles and techniques of art therapy and considers the usefulness of art therapy in providing alternatives and supplements to the customary verbal methods of intervention. Ways of working with clients at various stages of the life cycle, childhood through later adulthood, and with clients who are on different levels of psychosocial functioning are examined. Issues in art therapy are explored both cognitively and experientially. Previous training in the visual arts and artistic ability are not required. This course will meet 2/3 online and 1/3 in the classroom. Offered periodically. Prereq or Coreq: SOWK 601 or 531.

SOWK 610 Advanced Micro Practice and Assessment (3) This advanced practice course, with heavy focus on clinical assessment, provides students with a conceptual framework for clinical social work practice with individuals. The course will emphasize assessing clients' systems at the micro level, with a particular focus on diagnoses, assessment and treatment of individuals. The course maintains a multicultural, strengths perspective and a focus on diversity, rural populations, and social and economic justice. The course will be offered in a blended-learning format.

SOWK 611 Children and Youth at Risk (3) This course is an in-depth study of the concepts, policies, practices and research in the field of child services, including school social work and child welfare. In addition, this course will provide a detailed exploration and understanding of a range of at-risk children and youth populations and their families. This comprehensive understanding will help practitioners to effectively conduct an assessment and develop a treatment plan listing evidence-based intervention strategies and/or prevention programs that will effectively meet the complex needs of at-risk populations and their families. The challenges and ethical dilemmas confronting social work practitioners working with at-risk populations and their families will also be addressed. Prereq or Coreq: SOWK 521 or 601. Offered in summer.

SOWK 612 Social Work and the Law (3) Social workers understand that virtually everything they do professionally in the 21st century has to include evaluations of risk, legality, funding and unintended consequences. Malpractice appropriately receives much attention in this regard, but legislative and regulatory requirements regarding funding, grants and contracts, definitions of disabilities, responsibilities of different levels of government and many other legal aspects of the profession must also be considered. For most people, law is a foreign language, and social workers need to be somewhat fluent in this language so they can deal with the convergence of law and social work, social services and social policy. This course will be offered in a blended-learning format. Prereq or Coreq: SOWK 601. Offered periodically.

SOWK 613 Mediation in Social Work Practice (3) Mediation as an alternate form of dispute resolution is continuing to rise and is being widely used in human services, corporate, labor, consumer and family issues across the United States. Students in the mediation class will focus on practical and theoretical aspects of mediation and its place in the larger framework of alternate dispute resolution for social work clients. Skills in helping parties find common ground, creating a climate for reaching agreement, aspects of confidentiality, and both directive and nondirective mediation techniques will be explored. Prereq: SOWK/SWK 601 or SOWK/SWK 531.

SOWK 614 Survey Measurement and Development (3) Prepares students with the skills to be critical users of a variety of types of measurement instruments, as well as gain experience in the intricacies of scale development, including psychometrics. Students will examine and determine scale reliability and validity. Prereq or Coreq: SOWK 601.

SOWK 615 Advanced Social Welfare Policy (3) Introduces conceptual approaches to policy analysis and assesses selected social policies, programs and services in the areas of income maintenance, healthcare and personal social services in accordance with these approaches and with specific reference to their impact on special populations. This course will be offered in a blended-learning format. Prereq: SOWK 515 or 601. Offered in fall.

SOWK 616 Leadership Dynamics in Social Work Practice (3) This course focuses on leadership theories and practices that are relevant to professional social work. The course prepares students for effective leadership practice in both formal leadership positions (i.e., administrative positions) and informal leadership positions (i.e., amongst colleagues). Students will be able to apply the course concepts to their work as advanced generalized practitioners at micro, mezzo and macro levels. Leadership issues and challenges within a multicultural context and variety of settings, including nonprofit, public, for-profit, community-based, political, national and international organizations, will be explored. Students will assess their own and other leadership styles in order to build competence as leaders. Students will create an individual leadership development plan that is based on key leadership theories and models. Special emphasis will be placed on the need for evidence-based leadership practice and leadership for social and economic justice. Prereq: SOWK/SWK 601 or SOWK/SWK 531.

SOWK 617 Addictions in the Field of Social Work (3) This course will focus on the topic of addictions, preparing students to recognize and intervene when clients and their families demonstrate addiction problems in a wide range of social service agencies and host settings, such as child welfare, mental health, aging, schools, healthcare, corrections, and drug and alcohol programs. The course will examine the evolving models of alcohol and chemical dependency to the present-day understanding of the disease model, including an examination of the neurobiology of addiction and basic pharmacology, including medication-assisted therapies. The concept of harm reduction is introduced. Using a case-studies approach, students will develop assessment and intervention skills. The course will address professional issues, including credentialing, confidentiality and ethics. Prereq: SOWK/SWK 601 or SOWK/SWK 521.

SOWK 618 Human Rights in Social Work (3) This three-credit advanced elective course includes the examination of the major human rights documents and their impact on social work practice as well as the exploration of strategies and techniques used in the rights-based approach in social work. This is a hybrid course that is primarily delivered online with some face-to-face interaction. Prereq: SOWK/SWK 601 or SOWK/SWK 531.

SOWK 619 Global Perspectives in Social Work (3) Students will be exposed to global issues and understand how the institution of social welfare has developed in different regions of the world. The course examines globalization and its effect on social welfare and human need. As a way of understanding how different regions and countries have responded to human need, the course explores the specific areas of women in developing countries, street children and child labor, HIV in the developing world and the plight of refugees. The role of international organizations, such as the World Bank, the International Monetary Fund, the agencies of the United Nations and nongovernmental organizations (NGOs), in shaping international welfare policy and services will be examined. Prereq: SOWK/SWK 601 or SOWK/SWK 531.

SOWK 620 Advanced Practice with Groups and Families (3) This course builds on the practice concepts learned during the foundation year, particularly in the SWK/SOWK 520: Micro/Mezzo Social Work Practice course. This course focuses on social work with groups and with families from a systems and ecological perspective. Emphasis is on strengths- and evidence-based family and group assessment and intervention strategies with diverse, complex families and groups.

SOWK 621 Advanced Macro Social Work Practice (3) Assists students in developing knowledge of administration supervision, grant writing, fundraising and budgeting. The macro social work practice course will provide models for developing programs that promote social and economic justice for the underserved, the poor and the oppressed populations. This course will be offered in a blended-learning format. Prereq: SOWK 521 or 601; Coreq: SOWK 631. Offered in spring.

SOWK 622 Military Social Work (3) This course provides students with specialized knowledge of working with military personnel, veterans and their families. Military social work is a unique service and intervention focus designed to help social workers enhance their overall knowledge and skill set in support of servicewomen and -men as well as their family and supportive caregivers. Students will have opportunities to learn the history, theoretical underpinnings, and foundations and practical applications to specific client populations. Through interactive practice activities, including the use of case studies, film, role-plays and guest speakers, students will develop an understanding of narrative therapy as an empowering approach in working with diverse populations. Coreq or Prereq: SWK/SOWK 601 or SWK 531.

SOWK 623 Narrative Therapy (3) This course provides students with specialized knowledge of narrative therapy in clinical social work practice. Narrative therapy is a unique intervention designed to help clients express and re-author their life stories. This course focuses on narrative therapeutic techniques applied to working with individuals, families and groups. Students will have opportunities to learn the history, theoretical underpinnings, and foundations of narrative therapy as well as the clinical applications to specific client populations. Through interactive practice activities, including the use of case studies, film and role-plays, students will develop an understanding of narrative therapy as an empowering approach in working with diverse populations. Coreq or Prereq: SWK/SOWK 601 or SWK 531.

SOWK 625 Advanced Research Methods (3) This is the advanced course in the research methodology sequence. The focus of this course is on social work practice research paradigms, models and methods. Particular attention is given to the conduct of evaluation and assessments projects. Students will conduct a mixed-methods program evaluation. This course also gives the student a more in-depth exploration of gender and ethnic minority research issues and computer-assisted, descriptive and exploratory data analysis. Prereq: SWK/SOWK 525 or SOWK 601.

SOWK 630 Advanced Field Practicum I (3) Provides students with practical experience (270 hours) in supervised direct-service activities across all client systems, from the individual's level to that of the community. This advanced field experience allows students to apply theory and skills acquired in the generalist concentration areas while simultaneously fostering the development of a professionally reflective, ethical, knowledgeable and self-evaluating social worker. Prereq: SOWK 531; Coreq: SOWK 620. Offered in fall.

SOWK 631 Advanced Field Practicum II (3) Provides students with practical experience (230 hours) in supervised direct-service activities across all client systems, from the individual's level to that of the community. This advanced field experience allows students to apply theory and skills acquired in the generalist concentration areas while simultaneously fostering the development of a professionally reflective, ethical, knowledgeable and self-evaluating social worker. Prereq: SOWK 531; Coreq: SOWK 621. Offered in spring.

SOWK 640-643 Special Topics (3) This course provides the opportunity for a range of topics to explore issues and concerns for the social work profession. Prereq or Coreq: SOWK 601 or 531.

SOWK 691 Independent Study (3) An in-depth approach to an individually structured issue. Registration by permission.

POST-BACCALAUREATE CERTIFICATE IN EXPRESSIVE ARTS

This certificate is for students enrolled in or who have completed a master's degree in one of the following disciplines: social work, psychology (all concentrations), educational psychology, counseling, marriage and family therapy, fine arts, or related mental-health discipline. Students enrolled in the certificate program will have previously completed coursework in psychopathology, ethics/professional practice, theory, and child and adult development. The Expressive Arts Certificate will provide students with the required knowledge and skills around the use of the arts (e.g., music, theater, art, dance/movement, storytelling) to apply to their practice with various groups and at all levels (micro, mezzo, macro) of practice. Additionally, upon completion of the certificate and then a subsequent 200-hour (social work, psychology, educational psychology, marriage and family counseling, related mental-health discipline) or 500-hour (fine arts or another discipline) hour supervised internship in chosen art modality, the individual will be eligible to apply as a Registered Expressive Arts Therapist and/or Registered Expressive Arts Consultant through the International Expressive Arts Therapy Association.

Required Courses:

- SOWK 607** Emergency Mental Health and Trauma (3)
- SOWK 609** Art Therapy and Social Work (3)
- ART 602** Qualitative Research and Arts-Based Research Methods (3)

COURSE DESCRIPTIONS

SOWK 607 Emergency Mental Health and Trauma (3) Provides an in-depth study of the concepts, policies, practices and research in crisis intervention during disasters. This course will provide an introduction to the disaster field, a detailed examination of the human service delivery systems and guidelines for attending to the emotional and mental-health needs of both disaster survivors and responders, using the Critical Incident Stress Management model. This course is offered online. Prereq: SOWK 601 or 531 or permission of instructor. Offered periodically.

SOWK 609 Art Therapy and Social Work (3) This advanced elective course explores the principles and techniques of art therapy and considers the usefulness of art therapy in providing alternatives and supplements to the customary verbal methods of intervention. Ways of working with clients at various stages of the life cycle, childhood through later adulthood, and with clients who are on different levels of psychosocial functioning are examined. Issues in art therapy are explored both cognitively and experientially. Previous training in the visual arts and artistic ability are not required. This course will meet 2/3 online and 1/3 in the classroom. Prereq or Coreq: SOWK 601 or 531. Offered periodically.

ART 602 Qualitative Research and Arts-Based Research Methods (3) Intended for graduate students whose research questions may best be answered through qualitative and arts-based research methods. Provides students an opportunity to investigate and consider the applications of a number of qualitative and arts-based research methods to their emerging ideas and designs for a thesis or capstone project. The emphasis will be on identifying and evaluating prospective research problems and questions, examination of related research literature and development of a research project proposal. An intermediate-level methods class with a prerequisite of EDFN 601 or a comparable entry-level research course in the student's major department.

Students will select two from the following list of expressive arts courses (additional courses may be taken with prior approval of certificate coordinator):

ART 584: Introduction to Studio Art for Graduate Students: + Discipline

ART 585: Introduction to Studio Art for Graduate Students: + Discipline

ENGL 641 Poetry (3) The nature of poetry as genre; content as an extension of form; form as an extension of content; work in prosody; intensive reading in verse of all types and periods; projects in bibliography and explication. Offered annually.

ENGL 642 Drama (3) Drama as a literary genre; detailed study of specimens of drama of all types and periods; emphasis on masterpieces of drama from Aeschylus to Pinter; dramatic theory and criticism. Offered annually.

ENGL 643 Fiction (3) Fiction as a literary genre; in-depth study of specific works of various types and periods; emphasis on specimens of fiction from around the world. Fiction theory and criticism. Offered annually.

ENGL 645 The Short Story (3) The rise and development of the short story as a literary genre. Offered periodically.

ENGL 678 The Teacher as Writer I or II (3) This course is designed for teachers K-12 who would like to grow as writers. It consists of structured participation in an ongoing writing workshop where participants become increasingly sophisticated in their use of writing process strategies, conference and response skills, and various genres and styles. The course includes mini-workshops from local writers and is a place where we form a community of writers as we share and listen and grow. Participants experiment with new genres and submit at least one of their pieces for publication. Offered in summer.

ENGL 682: Genres in Nonfiction Writing (3) Exploration of theories and practices of creative nonfiction, including but not limited to memoirs, profiles, histories, biographies, travel literature, blogging and nature writing in diverse modes (print, digital and visual) for diverse audiences and purposes.

SOWK 623: Narrative Therapy (3) This elective course provides students with specialized knowledge of narrative therapy in clinical social work practice. Narrative therapy is a unique intervention designed to help clients express and re-author their life stories. This course focuses on narrative therapeutic techniques applied to working with individuals, families and groups. Students will have opportunities to learn the history, theoretical underpinnings and foundations of narrative therapy as well as the clinical applications to specific client populations. Through interactive practice activities, including the use of case studies, film and role-plays, students will develop an understanding of narrative therapy as an empowering approach in working with diverse populations.

PSYCHOLOGY

GRADUATE FACULTY

Frederick S. Foster-Clark, Department Chairperson. Ph.D., Cornell University, 1989. Adolescent Development, Social Contexts of Development, Social Networks, Social Cognition, Delinquency and Criminality, Methodology and Statistics.

Debra Vredenburg, Assistant Department Chair. Ph.D., Ohio University, 1998. Social Psychology, Workplace Issues, Organizational Behavior and Experimental Methods.

Jason Baker, Graduate Program Coordinator of School Counseling. Ph.D., Regent University, 2008. Technology in Counseling, Technology in Teaching, Assessment Techniques, Rural School Counseling.

Claudia Haferkamp, Graduate Coordinator of Clinical Psychology. Ph.D., Ball State University, 1987. Clinical Supervision, Integration of Clinical and Social Psychology, Cognitive-Behavioral Therapies and Interventions.

Helena Tuleya-Payne, Graduate Coordinator of School Psychology. D.Ed., The Pennsylvania State University, 1983. School Psychology, Psychoeducational Assessment, Applied Behavior Analysis, Consultation.

Kelly Banna. Ph.D., Auburn University, 2007. Behavioral Pharmacology, Mathematical Modeling, Operant Conditioning.

Richard Joseph Behun, Ph.D., Duquesne University, 2013. Ethics in Professional Counseling, Human Sexuality, Child Sexula Abuse, Mandated Reporting Law, and Civil Liability for Professional Counselors.

Andrew Bland. Ph.D., Indiana State University, 2013. Individual, Couples and Family Therapy; Child Development; Humanistic/Holistic Approaches to Therapy, Assessment, Evidence-Based Practice.

Shaun Cook. Ph.D., University of Arizona, 2006. Memory and Aging Research, Behavioral Research, Neuropsychology, Electroencephalogy, Computational Models of the Brain.

Shawn P. Gallagher. Ph.D., University of Delaware, 2002. Experimental Animal Research, Effects of Eye Disease and Ocular Surgery on Visual Perception in Humans, Sensation and Perception.

Nadine Garner. Ed.D., Duquesne University, 2000. School Counseling, Solution-Focused Counseling, Multicultural Issues, Conflict Resolution, Multiple Intelligences.

Lauren Kaiser. Ph.D., University of Maryland, College Park, 2007. School Psychology, School Consultation, Teacher Coaching, Academic and Behavioral Assessment, Evidence-Based Interventions.

Amelia Lopez. Ph.D., Lehigh University, 1998. Homeschool Collaborations, Behavioral Disorders, Assessment and Interventions.

Karena Rush. Ph.D., Louisiana State University, 2002. Assessment and Treatment of Child Psychopathology and Developmental Disabilities, Applied Behavior Analysis, Early Childhood Risk and Prevention.

Nicole Sorhagen. Ph.D., Temple University, 2014. Developmental Psychology.

Brett Swords, Ph.D., University at Albany (SUNY), 2013. Empirically Supported Treatment, Burnout, Clinical Supervision.

Elizabeth Towner Thyrum. Ph.D., Rutgers University, 1992. Clinical Psychology, Health Behavior, Behavioral Medicine, Addictive Processes.

THE PROGRAMS

The Department of Psychology offers six programs of graduate study:

1. Master of Science degree in psychology (42 or 60 s.h.)
2. Certification in school psychology (64 s.h.)
3. Supervisory certification in school psychological services (15 s.h. plus five years' experience as a certified school psychologist)
4. Master of Education degree with specialization in school counseling (36 s.h.)
5. Certification in preK-12 School Counseling (48 s.h.)
6. Supervisory certification in guidance services (15 s.h. plus five years' experience as a certified school counselor)

Information specific to school psychology students is contained in the *School Psychology Handbook*, available from their advisor.

Departmental Philosophy

The programs offered by the Department of Psychology are based on an underlying philosophy that graduate training in psychology and counseling should contain four essential components: academic training in relevant theory and knowledge; research skills and an ability to evaluate research critically; practical experience that can be directly useful in subsequent professional employment; and a high degree of self-awareness and interpersonal relationship skills.

The graduate programs in psychology and school counseling are designed primarily to train practicing psychologists and school counselors. We are committed to the development of individuals who can knowledgeably and effectively practice their profession in the community and in the school. The focus of the Master of Science program is to train service providers in psychology and professional counseling who will work in mental-health or educational settings. The Master of Education program is focused on preparation of professional counselors as applied to school counseling. The objective of the school psychology certification program is to train service providers who apply psychology to school settings. The school counseling certification program offers certification in elementary and/or secondary school counseling. The supervisory certification in school psychological services is for individuals who wish to oversee school psychology programs or school psychologists. The supervisory certification in school guidance services is for individuals who wish to oversee school counseling programs.

These programs are competency-based programs. It is assumed that acquisition of knowledge and skill development should proceed sequentially. The development of skills requires a series of practical experiences in both coursework and field experiences. Consequently, the programs emphasize the practicum/internship experiences of students in conjunction with the development of professional growth.

MASTER OF SCIENCE IN PSYCHOLOGY: CLINICAL PROGRAM

The clinical program is designed for students who wish to pursue a career in mental health, functioning as counselors and clinicians. It also prepares students for further graduate study. It emphasizes the development of assessment and psychotherapeutic skills through coursework and supervised experience with clients in the department's training clinic, and through internships in local mental-health agencies and hospitals. Students wishing to pursue licensure as a professional counselor after graduation are advised to complete the clinical program with the following courses, which may be helpful when taking the National Counselor Exam (NCE): SCCN 630 Multicultural Counseling; SCCN 645 Career Development; and PSYC 537 Ethics and Professional Practice. Students are advised to obtain 60 graduate credits in order to meet educational requirements for licensure.

MASTER OF SCIENCE IN PSYCHOLOGY WITH CERTIFICATION IN SCHOOL PSYCHOLOGY

The school psychology certification program is a 64-s.h. post-baccalaureate program, fully approved by the National Association of School Psychologists. Upon completion of specified coursework (43 s.h.) in the program, the student is awarded a Master of Science degree in psychology. Following completion of the final 21 s.h. of the 64-s.h. program, the student is recommended for certification as a school psychologist in the Commonwealth of Pennsylvania. Students may also transfer graduate coursework or a master's degree in psychology or a related area into the program. When that is the case, a review of previous work will be conducted to determine which competencies have been met and the remaining certification requirements.

CERTIFICATION IN SUPERVISION OF SCHOOL PSYCHOLOGICAL SERVICES

The certificate to supervise psychological services in the public schools requires 15 s.h. of coursework and practicum. Certification as a public school psychologist is a prerequisite to entering this program. While the student may begin the program at any time after becoming a certified school psychologist, a minimum of five years of experience as a school psychologist is required before the supervisory certificate may be granted.

MASTER OF EDUCATION WITH CERTIFICATION IN SCHOOL COUNSELING

This is a 48-s.h. post-baccalaureate program. Upon completion of specified coursework (36 s.h.) in the program, the student is awarded a Master of Education degree in school counseling. Following successful completion of the remaining coursework and fieldwork, the student is certified as a preK-12 school counselor in the Commonwealth of Pennsylvania.

CERTIFICATION IN SUPERVISION OF SCHOOL GUIDANCE SERVICES

The certificate to supervise guidance services in the public schools requires 15 s.h. of coursework and practicum. Certification as a school counselor is a prerequisite to entering this program. While the student may begin the program at any time after becoming a certified school counselor, a minimum of five years of experience as a school counselor is required before the supervisory certificate may be granted. See *Supervisory Certification Program* section.

Admission Requirements

Applicants to the Master of Science degree programs in clinical or school psychology or the certification in school psychology program are required to have a minimum of 18 undergraduate semester hours in psychology.

Applicants to the Master of Education degree program or the school counseling certification program are required to have a minimum of 6 semester hours in undergraduate or graduate education courses, and 6 semester hours in undergraduate or graduate general and developmental psychology. Refer to the *Master of Education and Certification in School Counseling* section for further details on these prerequisites.

In addition to an official transcript, three letters of recommendation, an autobiographical sketch indicating how the student's desire for advanced training in psychology/counseling developed, a group interview with the program staff and a writing sample form the basis for admission. Graduate Record Examination scores are required for applicants with lower than a 3.0 undergraduate cumulative grade-point average (148 minimum score on verbal, 147 minimum score on the quantitative components and 3.5 minimum score on analytical writing component). For all other applicants, submission of GRE scores is optional.

Students seeking admission to the certification in school psychology program, having completed graduate coursework or received a master's degree from another institution, and students interested in certification in the supervision of school psychological services may obtain details regarding admission procedures by contacting the graduate coordinator of school psychology: 717-871-4420. Students seeking admission to the school counseling certification program after receiving a master's degree from another institution, and students interested in supervision of school guidance services should obtain information from the graduate coordinator of school counseling: 717-871-7267.

EVALUATION OF STUDENTS

The Department of Psychology has the responsibility of evaluating its students to ensure that they will have the skills and competencies necessary for professional positions. To assure a sufficient level of competency, several methods of evaluation are employed.

Grades

In most courses, grades are determined by the student's ability to demonstrate to the instructor's satisfaction that the subject has been mastered. In skills courses, grades are based on mastery of academic content and also on the instructor's evaluation of the student's demonstration of appropriate clinical and interpersonal skills and dispositions. A grade of A indicates outstanding performance, a grade of B indicates good performance, and a grade of C indicates clearly unsatisfactory performance. Plus/minus grades are given at the instructor's discretion.

Grades of C+, C and C-

If a student receives a grade of C+ or below, that student is automatically placed on departmental probation, and the student's overall performance is reviewed by the graduate faculty. A student receiving a grade of C+ or below should first have a conference with the instructor who gave the grade. The purpose of this conference is to reach an understanding of the reasons behind the grade. Additionally, the student is required to write a letter to the graduate program coordinator of his/her program indicating (a) the student's perception of the problem(s) that led to his/her poor grade, and (b) what he/she intends to do to correct those problems and prevent recurrence.

Typically, students are expected to repeat the course in which they received their first C+ grade or below in order to remove the original grade and obtain a grade of B- or better.

If the student receives a second C+ or below, the student is subject to dismissal from the psychology and counseling programs, pending review by the graduate faculty.

Grades of Incomplete

A grade of "Incomplete" will be given only to provide the student with the opportunity to complete unfinished work without attending class. Students will be informed in advance, if at all possible, about the pending grade of "Incomplete." A mutually acceptable, written agreement between the instructor and the student receiving the grade must be created to specify the deadline to complete the requirements, content of the requirements and default grade in the event that requirements are not met by deadline.

Grades of F

A grade of F will be given to any student found guilty of plagiarism or other academic dishonesty. Students who receive an F in any course in the program may be dismissed from the psychology and counseling programs, pending review by the graduate committee.

Core Competency Examination for Psychology

Students in the School or Clinical Psychology programs will be required to pass the Core Competency Examination (CCE). Students who have completed graduate coursework at another institution must take the CCE for core courses completed at Millersville University; however, for core courses that were accepted for transfer credit at program admission, the corresponding CCE need not be taken. Passing the exam is required prior to registering for any assessment or selected advanced therapy courses and is a necessary component of advancement to degree candidacy.

- 1a. Each student must take the relevant CCE at the end of the semester following the successful completion of each appropriate core course (i.e., January, May and August). Students should contact the psychology office for specific dates and times. The core courses for Clinical Psychology are PSYC 530 Child Development Within the Family System; PSYC 612 Research Design and Statistical Analysis; and PSYC 635 Psychopathology. For School Psychology, the core courses are PSYC 530 Child Development Within the Family System; PSYC 612 Research Design and Statistical Analysis; and PSYC 600 Professional Seminar in School Psychology.
- 1b. If a student fails one or more sections of the CCE, they must retake the failed section(s). Normally, this occurs at the end of the following semester; however, students can petition, in consultation with their advisor and the appropriate graduate coordinator, to delay retesting if remedial work is deemed necessary or advisable.
2. If all components of the Core Competency Examination are not passed the second time, the graduate committee will decide on the disposition of the student's case. Students should be aware that one option is dismissal from the program. A third and final attempt may be allowed but only after an appropriate remedial plan has been developed and fully executed. This may involve retaking of the relevant core course.

- Students are limited to no more than 27 completed credits without passing all of the CCEs. Furthermore, certain courses require successful completion of the CCEs. Students who do not pass the CCEs are expected to drop themselves from these courses, even if they are already enrolled.

Clinical Competence Review Process

Students who are judged to lack clinical skills, counseling skills, professional competence or professional dispositions are subject to dismissal from the psychology and counseling programs. All faculty teaching graduate courses are qualified and ethically bound to evaluate all the above-mentioned skills and competencies. If there are any concerns, the program faculty may operate on a decision-making continuum, consistent with standards of practice in the profession, which could include: a meeting with the student and appropriate parties to share feedback about clinical and dispositional concerns, the development of a specific remediation plan, temporary suspension from coursework, or unilateral dismissal from the graduate program after review and vote by the graduate committee.

Ethical Principles of Psychologists and School Counselors

Students whose behavior in any way indicates a breach of the standards specified by the American Psychological Association, the Pennsylvania Psychological Association, the Pennsylvania State Licensure Board, the National Association of School Psychologists, the American Counseling Association or the American School Counselor Association are subject to dismissal from their program.

Grievance Procedure

Students should be aware that there is a student grievance procedure. A grievance should be submitted in writing to the graduate committee in care of the current graduate program coordinator. The graduate committee in conjunction with the grievance committee will attempt to resolve the complaint. If this process does not resolve the complaint, the matter should be handled as specified in the *Policies Governing Graduate Courses: Academic Appeals* under the *Academic Policies* section.

Degree Candidacy for Psychology Programs

To advance to degree candidacy, all students must meet the following requirements:

- Pass all core courses with a 3.0 GPA or better;
- Pass the Core Competency Examination;
- Receive a satisfactory evaluation from the psychology department graduate committee.

Degree Candidacy for School Counseling Program

To advance to degree candidacy, all students must meet the following requirements:

- Pass the Phase I core courses with a 3.0 GPA or better: SCCN 621, SCCN 645, PSYC 530;
- Satisfactory progress on School Counseling Competency Project;
- Receive a satisfactory evaluation from the school counseling program faculty and the graduate committee, after passing guidance program development.

Degree candidacy for eligible students will be updated once in the fall and spring semesters.

COURSE REQUIREMENTS

Master of Science Degree in Psychology: Clinical Program (42 s.h.); Clinical Program to Pursue Licensure (60 s.h.).

Clinical core: 9 credits

PSYC 530 Child Development in the Family System (fall, spring)

PSYC 612 Research Design and Statistical Analysis (fall, spring)

PSYC 635 Psychopathology (ONLY offered in FALL)

Therapy/Assessment:

Required:

PSYC 631 Psychotherapy and Intervention Skills (fall, spring and summer)

PSYC 670 Clinical Interviewing and Appraisal skills (fall and spring: replaces

At least two required (PSYC 631 is a prerequisite for these courses):

PSYC 632 Group Counseling and Psychotherapy (fall)

PSYC 634 Child Psychopathology and Interventions (summer)

PSYC 636 Cognitive Therapy (fall)

PSYC 638 Cognitive-Behavior Therapies (spring)

Licensure Required:

PSYC 537 Ethics and Professional Practice (summer)

PSYC 625 Human Growth and Development (summer, spring)

SCCN 630 Multicultural Counseling (summer, fall)

SCCN 645 Career Development (summer, fall)

Required:

PSYC 682 Internship in Psychology (6 credits; spring ONLY)

Electives (*Select at least five courses*):

PSYC 515 Physiological Psychology (fall)

- PSYC 517** Tests and Measurements (spring)
- PSYC 526** Advanced Adolescent Psychology (summer)
- PSYC 536** Applications of Biopsychology (spring)
- PSYC 540** Classroom Intervention (fall; for School PSYC + SCCN)
- PSYC 547** Applied Social Psychology (summer)
- PSYC 586** Childhood Disorders (fall, spring)
- PSYC 633** Systems of Psychotherapy (fall)
- PSYC 634** Child Psychopathology and Interventions (summer)
- PSYC 637** Theories of Family Dynamics (summer)
- PSYC 671** Psychological Assessment (fall, spring)
- PSYC 696** Research Methods in Psychology (for thesis research)
- PSYC 699** Thesis (3-6 credits; PSYC 696 is a prerequisite)

Master of Science Degree in Psychology with Certification in School Psychology (64 s.h.)

Core (9 s.h.)

- PSYC 530** Child Development Within the Family System (3)
- PSYC 600** Seminar in School Psychology (3)
- PSYC 612** Research Design and Statistical Analysis (3)
- Prepracticum Portfolio (0)

Core Competency Examination should be taken after completion of the core.

Skills I: Core (6 s.h.)

- PSYC 630** Group Processes and Personality (3)
- PSYC 631** Psychotherapy and Intervention Skills (3)

Skills II: Assessment (9 s.h.)

- ***PSYC 671** Psychological Assessment I (3)
- ***PSYC 672** Psychological Assessment II (3)
- ***PSYC 673** Personality Assessment (3)

Skills III: Interventions (10 s.h.)

- PSYC 540** Classroom Intervention (3)
- ***PSYC 646** Consultation (3)
- ***PSYC 634** Child Psychopathology and Interventions (4)

Educational Foundations (3 s.h.)

- SPED 601** Psychology of Exceptional Children (3)

Related Courses (12 s.h.)

- PSYC 547** Applied Social Psychology (3)
- RDED 621** Foundations of Reading and Writing (3)
- EDUC 671** Curriculum Development in the School (3)
- PSYC 536** Applications of Biopsychology (3)

Electives (3 s.h.) (select one of the following)

- SCCN 630** Multicultural Counseling (3)
- PSYC 637** Theories of Family Dynamics (3)
- ***PSYC 674** Assessment of English Language Learners (3)

or

Selected course with approval of advisor.

Note 1: Prepracticum field experiences must be completed prior to enrolling in PSYC 685. The designated activities outlined in the prepracticum syllabus should be initiated upon acceptance into the school psychology certification program. Students are responsible to their advisors for documentation of the requirements.

Note 2: Portfolios are required of all school psychology certification students. Portfolio instructions and requirements may be obtained from students' advisors and should be initiated upon acceptance into the school psychology certification program. Students are required to submit their portfolios to their advisors on the fifth Tuesday of each semester, and to attend the portfolio meeting on the sixth Tuesday of each semester.

Field Experiences (12 s.h.)

- ***PSYC 685** Practicum and Seminar in School Psychology (3)
- ***PSYC 686** Internship and Seminar in School Psychology (9)

Certification Program in Supervision of School Psychological Services

(School Psychology Certification plus 15 s.h.)

I. Core Curriculum Courses

See the *Supervisory Certification Program* section for requirements and course descriptions.

II. Department Field Course

PSYC 799 Applied Supervision: School Psychological Services (6)

*Students must pass the CCE prior to enrolling in these courses.

Master of Education and Certification in School Counseling

In order to be considered for an interview, applicants are required to have a minimum of six semester hours in undergraduate or graduate general and developmental psychology. Applicants must also be computer literate.

If six semester hours in undergraduate or graduate education courses have not been met by the time of application, they must be taken during the course of the program to satisfy prerequisite coursework.

Appropriate education courses are those taught in a department of education, special education or educational foundations. Prerequisite courses in education and psychology may be in process during the semester in which application to the program is submitted. In this case, evidence that the coursework is currently being taken (either in the form of a mid-semester grade report or a letter from the instructor) must be submitted with the program application. In addition, experience with children in applied settings is preferred.

Professional Core (6 s.h.)

One of the following:

EDFN 601 Methods of Research (3)

PSYC 612 Research Design and Statistical Analysis (3)

Pre-Internship Portfolio (0)

One of the following:

EDFN 511 Comparative Education (3)

EDFN 590 Social Foundations of Education (3)

EDFN 603 Philosophy of Education (3)

EDFN 604 Education and Public Policy (3)

Phase I Core (12 s.h.)

SCCN 621 Counseling Theory and Practice I (3)

SCCN 645 Career Development (3)

PSYC 530 Child Development Within the Family System (3)

SCCN 612 Study of the Individual (3)

Phase II (12 s.h.)

SCCN 622 Group Procedures in Counseling (3)

SCCN 630 Multicultural Counseling (3)

SCCN 631 Appraisal Techniques for Guidance Purposes (3)

SCCN 651 Theory and Practice II (3)

Phase III (6 s.h.)

SCCN 657 Brief Counseling (3)

SCCN 671 Guidance Program Development (3)

Note: Pre-internship portfolio field experiences are required for the M.Ed. The designated activities as outlined in the pre-internship syllabus should be initiated upon acceptance into the school counseling program. Students are responsible to their advisors for documentation of the requirements.

Prerequisites:

SCCN 621 for all Phase II Core Courses

SCCN 621, 651 or **SCCN 657**

Master of Education in School Counseling

1. Provisional acceptance
2. All coursework completed and School Counseling Competency Project passed
3. Pre-Internship portfolio completed
4. Recommendation of graduate faculty
5. Admission to degree candidacy

Certification Program in School Counseling

(Master of Education plus 12 s.h.)

Application should be made for admission into the certification program after acceptance for degree candidacy.

PSYC 540 Classroom Intervention (3)

SCCN 665 School Counseling Practicum (3)

SPED 600 Orientation to Special Education (3)

SCCN 675 Internship I: School Counseling (3)

COURSE DESCRIPTIONS

SCHOOL COUNSELING

SCCN 586-589, 686, 687 Topics in Counselor Education (3) Offered infrequently.

SCCN 612 Study of the Individual (3) A case study with self as subject provides the opportunity for students to increase their understanding of complex human behavior. Through synthesis and organization of a great deal of information about self comes the basis for study and understanding of others. Prereq: degree program admission. Offered in spring.

SCCN 621 Counseling Theory and Practice I (3) Presentation of basic counseling principles and theories. Through the use of role play, audiotapes and videotapes, students will develop skills basic to the helping process. Prereq: degree program admission. Offered in fall.

SCCN 622 Group Procedures in Counseling (3) Principles and methods of group theory, process and leadership skills for planning and facilitating small counseling groups in schools. Participation in a psychoeducational group is required. Prereq: SCCN 621. Offered in spring.

SCCN 625 Ethics and Law in School Counseling (3) This course engages students with important ethical codes of the profession of school counseling, including the American Counseling Association (ACA) and the American School Counselor Association (ASCA), while orienting students to broad concepts of professionalism, bounds of practice, and ethical decision-making models. Students will explore federal and state case law, ethical dilemmas and case studies which help undergird the consideration and development of standards of best practice within the school counseling profession. Historical perspectives on legal and ethical practices in the field will be offered, and the development of standard of best practice and functioning will be initiated. Offered in spring.

SCCN 630 Multicultural Counseling (3) The problem of counseling for a culturally diverse population is examined within a broad conceptual framework of issues and concepts. Methods and implications for counseling clients of various global backgrounds are studied. Prereq: SCCN 621. Offered in fall and summer.

SCCN 631 Appraisal Techniques for Guidance Purposes (3) Development of competency in the effective administration, interpretation and communication of test results. Focus is on the theoretical, technical and practical aspects of individual and group tests, screening devices, interviews and observations. Emphasis is on the counselor as a consumer within the school guidance program. Prereq: SCCN 621. Offered in spring.

SCCN 641 Internship in Higher Education and Community Agency/Licensure (3) Field experiences for students interested in higher education and community agencies (300 hrs.) and/or for students who are considering pursuing licensure as a Licensed Professional Counselor (LPC): individual supervision and seminar sessions. This course does not serve as a substitute for SCCN 675. Prereq: completion of SCCN 665 and permission. Offered in fall or spring.

SCCN 645 Career Development (3) Historical and theoretical foundations of the evolution of vocational guidance into career guidance and counseling are studied. Models, materials and strategies basic to career guidance and counseling programs are emphasized. Offered in fall and summer.

SCCN 651 Counseling Theory and Practice II (3) This second-level skills course provides supervision of videotaped sessions with a child client. Prereq: SCCN 621. Offered in spring.

SCCN 657 Brief Counseling (3) This is a third-level skills course which includes brief solution-focused theory applied to ongoing counseling work with a child client and supervised using videotaped sessions. Strategy selection and implementation are emphasized. Conceptualization, general principles and applications in crisis counseling are included. Prereq: SCCN 651 and passing CCE. Offered in fall.

SCCN 665 School Counseling Practicum (3) Supervised field experience which familiarizes students with the practice of professional school counseling. Students will gain exposure to children at a variety of developmental levels and will be required to log a minimum of 100 hours of direct experiences in a school counseling setting. Prereq: SCCN 621. Offered in fall or spring.

SCCN 671 Guidance Program Development (3) Guidance programs based on a developmental, comprehensive and team approach. Primary prevention is the focus of the model used to facilitate program implementation in the elementary and secondary schools. Prereq: CCE passed. Offered in fall.

SCCN 672 Technology Use by Counselors (3) Methods and strategies to develop and incorporate computer-related technology into the guidance program. Students develop computer literacy and review software for both computer-assisted and computer-managed guidance and counseling. Emphasis is on the use of technology both as consumer and practitioner. Prereq: experience as a school counselor or permission. Offered infrequently.

SCCN 675 Internship 1: School Counseling (3) Guidance and counseling experiences in the school setting (420 hrs.); individual supervision and seminar sessions. Prereq: completion of SCCN 665 and permission. Offered in fall or spring.

SCCN 676 Internship 2: School Counseling/Licensure (3) Counseling experiences in school and/or a community agency (300 hrs.) for students who are considering pursuing licensure as a Licensed Professional Counselor (LPC); individual supervision and seminar sessions. Prereq: completion of SCCN 665 and permission. Offered in fall or spring.

SCCN 691 Independent Study (1-3) An in-depth approach to an individually structured problem. By permission.

SCCN 699 Thesis (3) Each student writes and orally defends an individual thesis of some significance in the field of counselor education. Prereq: 24 s.h. in program and permission.

SCCN 799 Applied Supervision: Guidance Services (6) Provides prospective supervisors with actual field experience in auditing current comprehensive developmental guidance programs and initiating action plans for subsequent program improvement, including performance-based assessment of school counselors. The American School Counselor Association National Model provides guidelines for the supervision. Prereq: EDSU 700, 701 and 703. (See *Supervisory Certification Program* section.)

PSYCHOLOGY

PSYC 505 Recent Developments in Psychology (3) Contemporary issues in psychology examined through a critical review of current research, theory and practice. Designed to provide students with opportunities for independent study in areas where basic competencies are weak or in areas of special interest. Offered periodically.

PSYC 511 Substance-Related Disorders (3) Focus on current treatment approaches to substance-related disorders. Following a review of specific psychoactive drugs and their impact on physical and psychological function, theoretical orientations and their application to clinical scenarios will be discussed. Diagnostic issues, assessment techniques and currently accepted intervention techniques will be covered. Special populations involving gender, ethnicity, sexual orientation and comorbidity will be highlighted. Offered periodically.

PSYC 515 Physiological Psychology (3) A systematic examination of the nervous and sensory systems and their regulation of human behavior. Basic knowledge of biology and chemistry is essential. Prereq: permission of instructor. Offered annually.

PSYC 517 Tests and Measures (3) Introduction to basic principles of psychological testing and measurements. Issues in test construction and design, evaluation of psychometric properties, and applications of tests in various fields of psychology. Offered annually.

PSYC 525 Advanced Developmental Psychology (3) In-depth examination of human development, with emphasis on birth through adolescence. Presentation of current accounts characterizing development in various domains (physical, cognitive, social, moral, psychosexual) and critical reviews of theoretical attempts to explain the process of development. Offered annually.

PSYC 526 Advanced Adolescent Psychology (3) Personal and environmental forces that are dynamic in the behavior of adolescents. Emphasis is given to the family, school and community aspects of adolescent behavior. Recent developments in adolescent psychology and adolescent development are emphasized. Offered annually.

PSYC 530 Child Development Within the Family System (3) Theory and research on the development of cognitive, emotional, linguistic, psychosexual and moral systems in the child. Emphasis on the impact of family structure and dynamics on the developing child. Offered in fall and spring.

PSYC 536 Applications of Biopsychology (3) Survey of current topics. Includes psychotropic drugs, neuropsychological assessment and treatment. Emphasis on clinical applications and knowledge base to enable referrals/coordination with related psychiatry/neurology professionals. Prereq: undergraduate or graduate course in physiological psychology or biology, or permission of instructor. Offered annually.

PSYC 537 Ethics and Professional Practice (3) This course combines ethics education with an introduction to clinical psychology and counseling. Ethical standards of psychologists and counselors and an ethical decision-making model will be applied to moral, ethical and legal dilemmas in clinical practice. The historical development of clinical psychology, its major theoretical perspectives and empirically supported treatments will be reviewed. Offered annually.

PSYC 540 Classroom Intervention (3) Gives service providers skills to identify classroom discipline problems and improve classroom behavior and learning. Students apply behavioral analysis to develop and monitor interventions. Emphasis on selection and evaluation of research-based strategies and schoolwide factors which affect student discipline. Offered in fall.

PSYC 546 Learning Theories and Their Application (3) Review of behavioral approaches to learning, such as operant and classical conditioning, and observational learning. Cognitive and ethological challenges to behavioral theories will be considered. Includes information-processing models of learning.

PSYC 547 Applied Social Psychology (3) Examines the effects of social psychological factors on various clinical issues, including racial-ethnic and cultural issues, the development and maintenance of maladaptive behaviors, clinical judgment, relationship between clinician/school psychologist and client, and the outcome of intervention. Prereq: admission to graduate program or permission of instructor. Offered in summer.

PSYC 586-589 Topics in Psychology (1-4) Investigate and develop one or more topics of current interest not normally covered in regular psychology courses. Special topics and methods used to investigate the topics will vary according to the needs of psychology students and faculty. Offered periodically.

PSYC 600 Professional Seminar in School Psychology (3) The philosophy, administrative arrangements, responsibilities and general functions of a school psychologist. Emphasis on research information relating to skills and techniques used by psychologists in the prevention and remediation process as they apply to schoolchildren. Firsthand experience in the functions of a school psychologist through field visitations and planned seminars. Schedule near the beginning of the program. Offered annually.

PSYC 612 Research Design and Statistical Analysis (3) This course is designed to develop and extend skills in the interpretation of psychological research. Understanding the relationships between research methods, statistical procedures and interpretation is emphasized. Prereq: undergraduate course in statistics. Offered in fall and spring.

PSYC 613 Problems in Psychology (1-3) Seminar course designed to provide students with an opportunity for intensive study in specialty areas in psychology. These areas will apply primarily to the practice of school psychology and the field of education. Offered periodically.

PSYC 625 Human Growth and Development (3) A comprehensive study of growth and development with a life-span perspective. Physical growth and maturation, social development, emotional and personal development, and cognitive development. Special projects in the field of student's interest. Offered annually.

PSYC 630 Group Processes and Personality (3) Taught as a group process class with the goal of increasing self-awareness and promoting professional growth. Integrating theoretical concepts of personality with interpersonal experiences and feedback from fellow class participants to enable understanding of his/her personality functioning as it relates to his/her potential to effectively provide mental-health services. Offered in fall and spring.

PSYC 631 Psychotherapy and Intervention Skills (3) Intensive, supervised training in effective helping skills, including listening and responding skills, relationship enhancement, interview skills and active interventions. Students receive supervision of videotaped counseling with clients. Offered in fall, spring and summer.

***PSYC 632 Selected Therapies: Group Counseling and Psychotherapy (3)** Development of skills and awareness necessary for successful functioning as a facilitator of groups or as a group leader. Methods include participation in an encounter group, role playing, analyses of nonverbal communication, and reflective listening. Prereq: must pass CCE. Offered in fall.

PSYC 633 Systems of Psychotherapy (3) This course reviews the major paradigms in psychotherapy using a trans-theoretical model. Major paradigms include psychoanalytic/psychodynamic; person-centered/existential; behavioral; cognitive; cognitive-behavioral; systems; gender-sensitive; multicultural and third-wave therapies. Application of theories through self-analysis and case studies will be emphasized along with the stages-of-change model and current research on the efficacy of the therapies. Offered in fall.

***PSYC 634 Child Psychopathology and Intervention (4)** Introduces students to child and adolescent psychopathology and therapeutic interventions used with children and adolescents. Play-therapy techniques with clinical child populations, process groups with adolescents and preadolescents, behavioral group therapy, adjunct parent counseling and cognitive-behavioral procedures are emphasized. Offered in summer.

PSYC 635 Psychopathology (3) Develops the ability to diagnose in traditional nosological fashion and to be able to discriminate from one another the various mental disorders contained in the DSM-IV. In addition to requiring the ability to diagnose mental disorders, students will also be required to write diagnostic reports using the DSM-IV multi-axial system. Offered in fall.

***PSYC 636 Selected Therapies: Cognitive Therapy (3)** Basic principles and clinical applications of cognitive therapy. Use of role play, audiotapes and videotapes to help others identify and restructure thinking patterns and beliefs that contribute to personal and interpersonal conflicts and psychological disturbances. Prereq: must pass CCE. Offered in fall.

***PSYC 637 Theories of Family Dynamics (3)** Reviews major theories and differentiates family therapy from other forms of therapy; aids human services workers in determining the appropriateness of these treatment models for specific cases. Offered in summer.

***PSYC 638 Selected Therapies: Cognitive-Behavioral Therapies (3)** Review models of common clinical problems and specific cognitive, behavioral and integrative techniques. Role play, videotape, in-class demonstrations and case materials will be used to provide hands-on experience. Students will incorporate cognitive-behavioral perspectives and interventions with clients. Prereq: must pass CCE. Offered in spring.

PSYC 646 Consultation (3) Explores the theoretically and practically applied aspects of consultation. Educational, clinical, mental-health, behavioral and organizational models of consultation will be covered. Students will develop and implement individual consultation projects. Offered in fall and spring.

PSYC 670 Clinical Interviewing and Appraisal Skills (3) Development of competencies in evidence-based interviewing and observation skills and in administration, scoring, interpretation, and application of diagnostic measures, mental status exams, and risk assessments. Students also are introduced to selected cognitive, personality, and behavioral assessment instruments. Students receive supervision of recorded sessions with clients and report writing.

***PSYC 671 Psychological Assessment I (3)** Introductory course in individual psychological evaluation, stressing practical experience in administering and interpreting individual psychological test batteries. Standardized intelligence tests are emphasized. Introduces special-purpose tests such as adaptive behavior assessment and brief achievement tests. Students administer tests and write reports under supervision. Prereq: must pass CCE. Offered in fall and spring.

***PSYC 672 Psychological Assessment II (3)** Advanced psychological assessment, stressing practical experience in selecting, administering and interpreting individual psychological test batteries to assist in educational decision making in the schools. Emphasis on ecological and curriculum-based assessment. Critical evaluation of instruments and competence in interpreting and integrating results are emphasized. Students administer tests and write reports under supervision. Prereq: PSYC 671. Offered annually.

***PSYC 673 Personality Assessment (3)** An introduction to the administration, scoring, interpretation and application of personality-assessment instruments. Introduces objective tests, projective tests and behavioral assessment. Prereq: must pass CCE. Offered annually.

PSYC 674: Assessment of English Language Learners (3) A multicultural-issues class with focus on assessment and classification of culturally and linguistically diverse children. Prepares school psychologists and practitioners in the mental-health field to work with English language learners, make educational recommendations and help determine the extent to which child learning difficulties are related to limited English proficiency, cultural/ecological factors or learning disabilities. Learn assessment techniques, skills and strategies to be used with English language learners. Prereq: PSYC 671 or its equivalent. Offered in summer.

PSYC 675: Behavioral Assessment of Children and Youth (3) This course is designed to develop the skills in conducting assessment and developing recommendations for students referred for behavioral/emotional difficulties. The purpose of this course is to provide training in the techniques of behavioral assessment, including direct observation, interviews, checklists, rating scales, self-monitoring and other methods of assessment. A tiered model of service delivery will be used as a larger context for discussing assessment methods that may be used for universal screening and more individualized assessments.

***PSYC 682 Internship and Seminar in Psychology (6)** Supervised internship in a field agency, hospital or clinic. Designed to develop the student to a point of entry-level skills in the areas of assessment, counseling and staff participation. Students meet regularly with departmental supervisor. Schedule near end of program. Permission of graduate program coordinator is required. Offered in spring.

***PSYC 685 Practicum in School Psychology (3)** Sequential, supervised experiences in field settings working with children of preschool and school age. Students complete a comprehensive case study. Students meet regularly with University supervisor both individually and in seminars. Prereq: permission of instructor. Offered annually.

PSYC 686 Internship and Seminar in School Psychology (9) Yearlong, extensive, supervised clinical and field experiences in all domains of school psychology. Students meet regularly with University supervisor both individually and in seminars. Schedule in last year of program. Prereq: PSYC 685 and permission of instructor. Offered annually.

PSYC 696 Methods of Research in Psychology (3) Introduction to, and application of, advanced methods of psychological research. Emphasis placed upon the development and practice of research skills as preparation for conducting original research for a thesis. Prereq: PSYC 612.

PSYC 699 Thesis (3-6) Student designs and conducts research in an appropriate area of psychology. The results and interpretation are presented in a written thesis. The entire process is guided by the research advisor. Prereq: PSYC 696.

PSYC 799 Applied Supervision: Psychological Services (6) Field experience in the various activities performed by supervisors of psychological services. The student plans a relevant program of practical experiences based on the comprehensive role of the supervisor of psychological services, in conjunction with the University supervisor. Prereq: permission of director of school psychology.

**Open only to students admitted to degree candidacy in the M.S. in Psychology clinical track, M.S. in Psychology school psychology track, psychological services program or school psychology certification program.*

SPORT MANAGEMENT

GRADUATE FACULTY

Daniel Keefer, Department Chairperson. Ph.D., University of North Carolina at Greensboro, 2001. Exercise Physiology, Internships, Sport Conditioning, Analyzing Sport Performance.

- Rebecca Mowrey, Graduate Program Coordinator. D.P.E., Springfield College, 1989. Sport Management, Sport Law, Risk Management, Ethics, Sociocultural Aspects, Women and Gender Issues in Sport, Sport Marketing, Internships, Leadership, Governance and Policy, Facility Management.
- Mandi Dupain. Ph.D., University of Pittsburgh, 2002. Exercise Physiology, Analyzing Performance in Sport, Sport Conditioning, Internships.
- Julie Lombardi. P.E.D., Indiana University, 1993. Physical Education, Exercise Physiology, Internships, Sport Nutrition.
- Gordon Nesbitt. Ph.D., Purdue University, 1993. Sport Administration, Events Management, Campus Recreation Programming, Finance.
- Jeffrey Wimer. Ph.D., University of Dayton, 2000. Educational Leadership, Sports Medicine, Methods of Research, Sport Administration.
- Ying Wushanley. Ph.D., The Pennsylvania State University, 1997. Sport Management, Sport History, Women and Gender in Sport, Sport and Higher Education, The Olympic Movement, Ethics.

THE PROGRAM

MASTER OF EDUCATION DEGREE IN SPORT MANAGEMENT

The Department of Wellness and Sport Sciences offers the M.Ed. in sport management, with specialty concentrations in athletic coaching and athletic management. The degree program is designed to meet the needs of full-time students as well as working professionals, including athletic directors, coaches, athletic trainers and sport industry professionals. The program will appeal to individuals involved in the management of professional sport industries, school-based athletics, commercial and community recreation, sport facilities, fitness clubs and related private-sector enterprises. Studies leading to this M.Ed. are interdisciplinary, drawing on expertise in sport science, educational theory and research. A thesis option is available.

Admission Requirements

In addition to meeting regular University admission criteria, applicants for admission to the master's degree program in sport management should have an undergraduate GPA of 2.75 or higher. Applicants with a cumulative GPA between 2.75 and 2.99 will choose to either take the Graduate Record Exam (GRE), Miller Analogies Test (MAT), Graduate Management Admissions Test (GMAT) or complete a face-to-face interview with a short writing assignment on a topic appropriate to the sport management program. Applicants with a cumulative GPA above 3.0 are only required to submit a complete application. Applicants with a cumulative GPA below 2.75 may submit an application for consideration. These students will also need to comply with admission requirements for applicants with a cumulative GPA between 2.75 and 2.99 as previously stated above.

Applicants to the M.Ed. and certification programs must submit copies of clearances (Act 151—Child Abuse History; Act 34—Criminal Record Check; and Act 114—Federal Criminal History) to the Field Services Office. Please contact the Field Services Office at 717-871-5752 for additional information.

Degree Requirements

The M.Ed. in sport management is a 36-semester-hour program. Coursework toward the degree includes required courses, electives and an internship.

I. Professional Core (9 s.h.)

See *M.Ed. Professional Core* section for requirements and course descriptions.

WSSD 612: Research Methods in Sport or **EDFN 601** may be completed to meet the requirement.

II. Athletic Management Concentration Program Requirements (27 s.h.)

WSSD 601 Organization and Administration of Sport Programs (3)

WSSD 602 Sport in American Culture (3)

WSSD 603 Moral and Ethical Issues in Sport (3)

WSSD 604 Facilities and Event Management (3)

WSSD 605 Sport and the Law (3)

VARIES Sport Marketing (3)

WSSD 616 Internship in Athletic Management (3)

WSSD 622 Sport Finance (3)

Program Electives (3 s.h.)

III. Athletic Coaching Concentration Program Requirements (27 s.h.)

WSSD 601 Organization and Administration of Sport Programs (3)

WSSD 602 Sport in American Culture (3)

WSSD 603 Moral and Ethical Issues in Sport (3)

WSSD 604 Facilities and Event Management (3)

WSSD 605 Sport and the Law (3)

WSSD 619 Internship for Athletic Coaching (3)

Program Electives (9 s.h.)

MASTER OF SOCIAL WORK & MASTER OF EDUCATION IN SPORT MANAGEMENT

A dual-degree option is available for students in the MSW program who wish to also obtain a Master of Social Work and Master of Education in sport management. Students seeking a dual degree in MSW/M.Ed. in sport management will need to complete the

full curriculum in the MSW program (which is 36 or 60 credits). Students will learn emerging trends in working with athletes of all levels, in clinical and counseling settings; gain knowledge and skills related to athletic program and/or venue management; and develop methodologies to work with athletes in a number of areas — for example, career counseling, life skills development, substance-abuse prevention, advocacy, recruitment and transitioning to a post-athletic career.

COURSE DESCRIPTIONS

WSSD 551 Coaching of Sport (3) Designed to develop the major area of knowledge pertinent to the profession of coaching. The American Sport Education Program (ASEP), dealing with sport philosophy, sport psychology, sport pedagogy, sport physiology, sport first aid and sport management, will be presented. Students may take the certification exam. Offered periodically.

WSSD 581 Analyzing Performance in Sport (3) Provides a clear understanding of factors to be considered when analyzing human movement pertaining to sport and athletic competition. Offered periodically.

WSSD 582 Sport Psychology (3) Focuses on the latest psychological skills training techniques for both coaches and athletes. The latest techniques in neurolinguistic programming and its implications for coaches and athletes will be utilized. Students will be introduced to and learn the latest mental-training techniques of Olympic and professional athletes. Offered periodically.

WSSD 591 Exercise Physiology (3) Theory and laboratory experiences relating to the mechanisms by which the body adapts physiologically to selected conditions of muscular performance within the context of physical activity and sports. Laboratory experiments will include circulatory and respiratory response to exercise, respiratory metabolic measurements, identification of the ventilatory threshold, assessment of maximal oxygen uptake, energy cost of physical activity and assessment of body composition. Offered periodically.

WSSD 601 Organization and Administration of Sport Programs (3) Includes regulations of sport-governing bodies, federal law, academic integrity, institutional control, financial effectiveness and welfare of sport personnel and participants. Offered yearly.

WSSD 602 Sport in American Culture (3) An examination of 20th-century American culture and the role played in it by sports. Areas which will come under scrutiny include but are not limited to the family, labor, industry, schools, churches, race relations and democracy as they relate to sport in American culture. Offered yearly.

WSSD 603 Moral and Ethical Issues in Sport (3) An inquiry into ethics and morality as these apply to sport management. Competition, violence, rules, drugs and athletic scholarships are some of the concepts examined. Various ethical approaches are considered. Offered yearly.

WSSD 604 Facilities and Event Management (3) Principles of financing, operating and managing public-assembly facilities. Emphasis on event management in arenas. Lectures, projects, papers and practical experience emphasized. Offered yearly.

WSSD 605 Sport and the Law (3) U.S. legal system; negligence law; intentional torts and criminal acts, including assault and battery, hazing and violence in sport; and risk identification and management. Constitutional law issues, including state action, due process, equal protection, search and seizure/privacy issues, and drug testing. Federal statutes, including Title IX, Title VII of the Civil Rights Act of 1964, Title I of the Americans with Disabilities Act, and contract law. Offered yearly.

WSSD 610 Women in Sport (3) Examines the history of female participation, women's relationships to changing female roles and ideals, and the attitudes of society toward competition for women. Includes an overview of women's sport organizations, federal laws and the motivations of female athletes. Offered periodically.

WSSD 612 Research Methods in Sport (3) Overview of the nature of research in sport sciences. Topics include different types of research methods in sport, research design, skill in data collection and assessment, and application of research to the management of sport.

WSSD 615 Campus Recreation Programming (3) Overview includes budgets, personnel, facilities, legal concerns, gender issues, planning and evaluation, publicity and evaluation. Programming areas include intramurals, extramurals, informal sports, club sports and outdoor pursuits. Offered periodically.

WSSD 616 Internship in Athletic Management (3) Practical experience related to athletic management. Students will coordinate their coursework with specific field experience. Program supervised by a member of the Department of Wellness and Sport Sciences. Students must contact the graduate coordinator of sport management one semester prior to enrolling to complete the Internship Application packet. Offered each semester. Prereq: WSSD 601, 602, 603, 604, 605.

WSSD 617 Sport Conditioning (3) The physiological principles underlying the process of physical conditioning. The student will also learn how to apply these principles to individuals training for sport and physical fitness. Offered periodically.

WSSD 618 Athletic Injury Prevention and Management (3) The basic principles of sports medicine. Emphasis on injury prevention, management and rehabilitation. Current topics and methods in athletic training are also discussed. Offered periodically.

WSSD 619 Internship for Athletic Coaching (3) Practical experience related to athletic coaching. Students will coordinate their coursework with specific field experience. Program supervised by a WSSD faculty member. Students must submit a completed Sport Management Internship Application to the graduate coordinator one semester prior to enrolling in WSSD 619. Prereq: WSSD 601, 602, 603, 604, 605. Offered each semester.

WSSD 621 Nutrition for Exercise and Sport (3) Complete study of nutrition and its effects upon exercise and sport. Offered periodically.

WSSD 622 Sport Finance (3) Provides students with an improved understanding of sports-related finance issues and expands their skills in financial analysis and planning. Develops an appreciation for the financial decision-making process in sports business. Offered yearly.

WSSD 686-689 Special Topics in Sport Management (3) In-depth investigation and development of an area of current sport management interest. Offered periodically.

WSSD 691 Independent Study (1-3) Intensive study of a particular field or problem in sport management not normally covered in a regular course. Offered as needed. Prereq: completion of 12 s.h. graduate credits and permission of the graduate program coordinator. Offered as needed.

WSSD 698 Research Proposal (3) To fulfill the requirements of the course, students must satisfactorily complete an introduction, a review of literature and provide a written research design. APA format will be used for the research proposal. Prereq: completion of the professional core, plus an additional 15 s.h. in the major, and the approval of the thesis faculty advisor and the graduate program coordinator. Offered as needed.

WSSD 699 Thesis (3) Each student writes and orally defends a study of some significance in the field of sport management demonstrated by (1) an individual bound thesis or (2) by condensing his/her findings and submitting them to a professional journal. APA format will be used for the thesis. Prereq: completion of WSSD 698. Offered as needed.

COLLEGE OF SCIENCE AND TECHNOLOGY

EMERGENCY MANAGEMENT

GRADUATE FACULTY

Sepideh Yalda, Graduate Program Coordinator. Ph.D., St. Louis University, 1997. Earth Sciences.
 Kirsten N. Bookmiller. Ph.D., University of Virginia, 1992. Government and Political Affairs.
 Robert J. Bookmiller. Ph.D., University of Virginia, 1992. Government and Political Affairs.
 Richard D. Clark. Ph.D., University of Wyoming, 1987. Earth Sciences.
 Caleb A. Corkery. Ph.D., University of Maryland, College Park, 2004. English.
 Marc Felizzi. Ph.D., Widener University, 2010. Social Work.
 Ethan Frost. Ph.D., University of Delaware, 2011. Geography.
 Duane E. Hagelgans. J.D., CSP, Widener University, 2003. Earth Sciences.
 Theresa A. Russell-Loretz. Ph.D., Purdue University, 1995. Communications.

ADJUNCT FACULTY

Paul Benyeda. M.S., C.E.M., Millersville University, 2014. Emergency Management.
 Rochelle M. Brittingham. Ph.D. University of Delaware, 2014.
 Paul A. Charp. Ph.D., University of Tennessee, 1981. Emergency Management.
 Elaine Enarson. Ph.D., University of Oregon, 1981. Emergency Management.
 Timothy W. Sevison. D.Sc., Jacksonville State University, 2018. Emergency Management.
 Gregory M. Zarus. M.S., Texas Tech University, 1990. Emergency Management.
 Jeffrey Jumper. M.S., Millersville University, 2016. Emergency Management.

THE PROGRAM

MASTER OF SCIENCE DEGREE IN EMERGENCY MANAGEMENT

The Master of Science degree in Emergency Management (MSEM) is a multidisciplinary program and is delivered as a fully online program. Graduate students will benefit through the continued development of both general and specialized courses, exposure to academics and practitioners with interest and experience in the area of disaster research and emergency management, the opportunity to undertake graduate research independently as part of ongoing faculty research, the opportunity to complete internships/co-ops, the link to other graduate programs and the availability of high-demand employment opportunities following graduation.

Admission Requirements

Before an application will be considered for admission, the following documents must be submitted to the College of Graduate Studies and Adult Learning: a completed graduate application and application fee, an official transcript from all institutions of higher education attended, verification of completion of a baccalaureate degree from a regionally accredited institution, three professional letters of recommendation, a goal statement and a résumé. If an applicant does not meet the minimum undergraduate GPA requirement of 2.8, an official score from either the GRE or MAT test taken within five years of the date of application is required. Applicants whose first language is not English must submit their score from the Test of English as a Foreign Language (TOEFL). Students with non-U.S. degrees must submit official academic credentials evaluated by an evaluation service along with the MSEM application. The TOEFL must have been completed within the previous two years.

Degree Requirements

The curriculum consists of 24 credit hours of required courses and an additional six credit hours of elective courses. The degree program, therefore, requires students to complete a total of 30 credit hours. Each course will incorporate knowledge and skills from or relevant to academic research, best practices, human behavior and key organizations, as well as legal issues, policies, rules and regulations.

The program can be completed on a part-time schedule. Students can elect to enroll in one or two courses during the fall and spring semesters as well as during the summer. It is possible for students to complete the program within two years; it must be completed, however, within five years.

Transfer Credits

All transfer credits must come from a regionally accredited institution and must have been completed within five years of enrolling in the MSEM program. A total of nine credits can be transferred.

Curriculum

I. Core Courses (24 s.h.)

- EMGT 601** Principles and Practices of Emergency Management (3)
EMGT 603 Technical and Professional Writing for Emergency Management (3)
EMGT 605 Social Dimensions of Disaster (3)
EMGT 607 Emergency Mental Health and Trauma (3)
EMGT 614 Natural Hazards Primer (3)
EMGT 615 Emergency Preparedness for Industry (3)
EMGT 619 Emergency Management Planning (3)
EMGT 693 Field Experience Practicum (3)

II. Elective Courses (6 s.h.)

- EMGT 609** Long-Term Disaster Response and Recovery (3)
EMGT 616 Terrorism, WMD and Homeland Security (3)
EMGT 617 Emergency Management: Crisis and Emergency Risk Communication (3)
EMGT 618 Humanitarian Responses to International Disasters (3)
EMGT 629 Special Topics Course (3)
EMGT 633 GIS Applications for Emergency Management (3)
EMGT 634 Comparative Emergency Management System (3)
EMGT 653 Theoretical Perspectives and Methods Applied to Emergency Management (3)
EMGT 691 Independent Study (3)

Emergency and Disaster Management (EDM) Graduate Certificate

The EDM graduate certificate is a fully online certificate program and consists of five courses. This certificate is a 15-credit graduate certificate program. Certificate students who successfully complete their certificate courses will be able to apply the earned credits towards the full MSEM degree (or the MSEM-MSW dual-degree program) should they elect to do so. All certificate students will be required to complete

EMGT 601: Principles & Practices of Emergency Management and can select four additional courses from the following course list:

Required

EMGT 601: Principles & Practices of Emergency Management (3 s.h.)

Select four of the following courses (total of 12 s.h.)

EMGT 603: Technical & Professional Writing for Emergency Management

EMGT 605: Social Dimensions of Disaster

EMGT 614: Natural Hazards Primer

EMGT 617: Crisis, Emergency and Risk Communication

EMGT 618: Humanitarian Responses to International Disasters

EMGT 619: Emergency Management Planning

COURSE DESCRIPTIONS

EMGT 601 Principles and Practices of Emergency Management (3) History and perspectives of the field, hazards concepts and taxonomies, all-hazards approach, phases of emergency management, risk assessment, risk communication, emergency-management functions, sustainable development, best practices, the EOC, the disaster plan, CEM, IAEM, forging intra- and intergovernment relationships. Offered in fall and spring.

EMGT 603 Technical and Professional Writing for Emergency-Management Personnel (3) The emergency-management professional is engaged in an ever-increasing workload involving reporting, budget preparation, grant applications and communicating with the public. This course is designed to enhance the necessary skills for the emergency manager to successfully negotiate the increased demands of the profession. Offered in fall and spring.

EMGT 605 Social Dimensions of Disaster (3) An overview of the findings of disaster sociology, including but not limited to an examination of the social science definition of disaster, the disaster mythology, the impact of the media, organizational challenges during disaster, creating and maintaining a disaster-resilient community, national and international disaster researchers, and the research literature. Offered in fall and spring.

EMGT 607 Emergency Mental Health and Trauma (3) This in-depth course provides the emergency responder with a greater appreciation of the challenges, responses and adjustments encountered by those exposed to disastrous events. Offered in fall and spring.

EMGT 609 Disaster Response and Long-Term Recovery (3) Investigation of emergency-management practices as applied to response, short-term and long-term community recovery. Offered in fall and spring.

EMGT 614 Natural Hazards Primer (3) Natural science examination of natural or environmental hazards and their associated risks. The overview will include hazards such as hurricanes, tornadoes, earthquakes, tsunamis and floods. Offered in summer.

EMGT 615 Emergency Preparedness for Industry (3) An examination of industrial and societal risks associated with the manufacture, handling, storing and transporting of biological, chemical, nuclear and radiological materials. Offered in fall and spring.

EMGT 616 Terrorism, Weapons of Mass Destruction and Homeland Security (3) A sociological exploration of what terrorism is, why it occurs, prudent approaches to reducing the incidence of terrorism, and failed approaches; the origins and functions of homeland security; the necessity of maintaining an all-hazards approach; and issues surrounding the placement of FEMA within the Department of Homeland

Security, WMD history; an overview of the basic known biological, chemical, radiological and nuclear materials likely to be used as weapons; approaches to inoculation and treatment before and after exposure. Offered in fall of odd years.

EMGT 617 Crisis and Emergency Risk Communication (3) Examines how the media is an integral part of an effective disaster plan, how the media is problematic during disaster response, the value of a trained public information officer within organizations, key issues in risk communication and best practices. Offered in spring of even years.

EMGT 618 Humanitarian Responses to International Disasters (3) International organizations and the challenges and experiences they commonly encounter in mitigating and responding to disaster events; considers if a global economy, global village will help or hinder future efforts. Offered periodically.

EMGT 619 Emergency-Management Planning (3) In-depth analysis of planning methodologies and constructs as well as pitfalls and limiting factors in the development and execution of emergency-management plans at the strategic, operational and tactical levels. Origins of emergency-management planning, applicable policies and legislation, historical incident review and analysis, contemporary and emerging planning doctrine, and advanced planning concepts. Offered in fall and spring.

EMGT 629-632 Special Topics Course (3) In-depth investigation and development of one or more topics of current interest not addressed in current curriculum. Topics will vary according to the needs of students and the faculty involved. Offered periodically.

EMGT 633 GIS Applications for Emergency Management (3) Introduction to Geographic Information Systems (GIS), with emphasis on their use in emergency management. Covers the different types of GIS data available, sources of data, and software tools for querying and spatially analyzing data. Offered in fall of odd years.

EMGT 634 Comparative Emergency-Management Systems (3) Provides a comparative perspective to emergency management by examining different governmental frameworks for emergency/disaster management from around the globe. Students will gain insight through a variety of case studies into the connections between a country's political and legal culture, level of political-economic development and disaster vulnerability to the organization of its domestic emergency/disaster-management system. Offered periodically.

EMGT 653 Theoretical Perspectives and Methods Applied to Emergency Management (3) Theoretical perspectives drawn from sociology are applied to emergency management. The EM professional will develop insight into the common responses to planning, responding, recovery and mitigation. Offered periodically.

EMGT 691 Independent Study (1-3) Intensive study of a particular emergency-management area, topic or event. Permission of program coordinator is required.

EMGT 693 Field Experience Practicum (3) A capstone experience in which emergency-management knowledge and skills are applied and integrated within a field experience. Those already working within an emergency-management-related career will use their current position as the basis for completing a project applicable to enhancing their current skills and applying best practices. Prereq: student must have completed 24 credits in the MSEM program. Offered in fall and spring.

INTEGRATED SCIENTIFIC APPLICATIONS

GRADUATE FACULTY

Richard D. Clark, Department Chairperson, Graduate Program Coordinator. Ph.D., University of Wyoming, 1987. Atmospheric Sciences.

Joseph T. Bushey. Ph.D., Carnegie Mellon University, 2003. Civil Engineering/Environmental Systems.

Michael R. Gumpfer. Ph.D., University of Kentucky, 1998. Economics.

Jessica J. Kelly. Ph.D., Rutgers, The State University of New Jersey, 2009. Geography.

Ajoy Kumar. Ph.D., Old Dominion University. Physical Oceanography.

Sepideh Yalda. Ph.D., St. Louis University, 1997. Atmospheric Sciences.

THE PROGRAM

MASTER OF SCIENCE DEGREE IN INTEGRATED SCIENTIFIC APPLICATIONS (MSISA)

The goal of the Millersville University MSISA program is to produce professionals with cross-disciplinary scientific skills and business knowledge. The MSISA degree was developed in response to local and national trends indicating the need for highly skilled, technically astute scientists possessing good business sense and excellent communication skills. There are four specializations within the program:

- 1) Climate Science Applications: Learn to interpret and articulate climate science information emphasizing impacts on society, infrastructure and critical resources.
- 2) Environmental Earth Systems Management: Prepare for careers that bridge environmental sciences with business competencies and geospatial data management.
- 3) Geoinformatics: Students develop skills in remote sensing, data management, GIS and image analysis, and learn to apply them within a business context.
- 4) Weather Intelligence and Risk Management: Develop proficiencies in quantifying uncertainty and management of weather-related risk within the business enterprise.

See mville.us/msisa for detailed information on the core curriculum and specializations.

Admission Requirements

Before an application will be considered for admission, the following documents must be submitted to the College of Graduate Studies and Adult Learning: a completed graduate program application and application fee, an official transcript from all institutions of higher education attended, verification of completion of a baccalaureate degree from a regionally accredited institution, three professional or academic recommendation

forms, a goal statement and a résumé. If an applicant does not have a minimum undergraduate GPA of 3.0, an official score from the GRE, MAT or GMAT taken within five years of the date of application is required. Applicants whose first language is not English must submit their score from the Test of English as a Foreign Language (TOEFL). The TOEFL must have been completed within the past two years. Students with non-U.S. degrees must submit official academic credentials evaluated by an evaluation service (see *Application as an International Student* for more information).

Degree Requirements

The MSISA consists of 36 graduate credits, which includes 33 credits in the interdisciplinary core curriculum and professional specialization area, and a three-credit internship or applied research activity. The professional specializations within the MSISA include Weather Intelligence and Risk Management (WIRM), Geoinformatics (GI), Environmental Systems Management (ESM) and Climate Science Applications (CSA). The required internship or research activity will be conducted as a full-time summer or a full-semester experience under the mentorship of a faculty member and the supervision of a member of the external partner organization. It is anticipated that students will have opportunities to take part in funded research activities with University faculty and/or government or private-sector scientists and professionals.

Visit miller.us/msisa for additional information, or email gradadmissions@miller.us.

Climate Science Applications (CSA)

Core Courses (18 s.h.)

BUAD 653 Operations Management (3), fully online delivery

MATH 695 Actuarial Financial Mathematics

or

BSN 512 Essentials of Accounting and Finance (3) Shippensburg

BUAD 670 Strategy and Policy (3), fully online delivery

MATH 503 Probability and Statistics for Teachers

or

MATH 535 Statistical Methods

or

ISCA 546 Statistical Applications for the Integrative Sciences (3)

ECON 507 Environmental Economics and Policy (3) Blended delivery, competency in microeconomics required

ISCA 693 Field Experience Practicum (3)

Specialization Courses (18 credit hours, at least four courses are required)

Specialization courses include but are not limited to:

ISCA 643 Climate Science Applications (3)

Climate Science: Evidence, Consensus and Uncertainty (3)

Global Markets: Sensitivity and Susceptibility to Weather and Climate (3)

Energy and Climate Policy (3)

Nature & Society in Global Environmental Policy and Negotiations (3) or EMGT 633 GIS Applications (3) fully online delivery

EMGT 615 Emergency Preparedness for Industry (3) or EMGT 619 Emergency Management Planning (3)

Environmental Earth Systems Management (EESM)

Core Courses (21 s.h.)

BUAD 653 Operations Management (3) fully online delivery

MATH 695 Actuarial Financial Mathematics

or

BSN 512 Essentials of Accounting and Finance (3) Shippensburg

BUAD 670 Strategy and Policy (3) fully online delivery

MATH 503 Probability and Statistics for Teachers

or

MATH 535 Statistical Methods

or

ISCA 546 Statistical Applications for the Integrative Sciences (3)

ECON 507 Environmental Economics and Policy (3) Blended delivery, competency in microeconomics required

EMGT 633 GIS Applications (3), fully online delivery

ISCA 693 Field Experience Practicum (3)

Specialization Courses (15 credit hours)

ISCA 545 Environmental Earth Systems Management (3)

ISCA 555 Environmental Sustainability (3)

Environmental Chemistry (3)

ISCA 565 Stormwater Management (3)

Technical Electives (min. 3 credit hours required)

Choose three of the following one-credit modules. Modules will be offered during the summer and winter sessions:

Wetland Delineation (1)

TMDL Development (1)

Risk Assessment (1)

Environmental Impact Assessment/Statement (1)

Watershed Implementation Planning (1)

FEMA (1)

Geoinformatics (GI)

Core Courses (21 s.h.)

BUAD 653 Operations Management (3) fully online delivery

MATH 695 Actuarial Financial Mathematics

or

BSN 512 Essentials of Accounting and Finance (3) Shippensburg

BUAD 670 Strategy and Policy (3) fully online delivery

MATH 503 Probability and Statistics for Teachers

or

MATH 535 Statistical Methods I

or

ISCA 546 Statistical Applications for the Integrative Sciences (3)

ECON 507 Environmental Economics and Policy (3) Blended delivery, competency in microeconomics required

EMGT 633 GIS Applications (3) fully online delivery

ISCA 693 Field Experience Practicum (3)

Specialization Courses (15 credit hours, at least five courses are required)

Specialization course options include but are not limited to:

ISCA 580 Remote Sensing and Image Interpretation (3)

ISCA 661 Earth Imaging and Data Processing (3)

ISCA 662 Advanced Topics in Remote Sensing (3)

ISCA 663 Geoinformational Case Studies (3)

ISCA 664 Open Web Mapping (3)

ISCA XXX Spatial Data Structures (3)

Weather Intelligence and Risk Management (WIRM)

Core Courses (18 s.h.)

BUAD 653 Operations Management (3) fully online delivery

MATH 695 Actuarial Financial Mathematics

or

BSN 512 Essentials of Accounting and Finance (3) Shippensburg

BUAD 670 Strategy and Policy (3) fully online delivery

ISCA 546 Statistical Applications for the Integrative Sciences (3)

ECON 507 Environmental Economics and Policy (3) Blended delivery, competency in microeconomics required

ISCA 693 Field Experience Practicum (3)

Specialization Courses (18 credit hours, at least four courses are required)

Specialization courses include but are not limited to:

ISCA 6XX Weather Derivatives and Valuation (3)

ISCA 643 Climate Science Applications (3)

EMGT 619 Emergency-Management Planning (3)

ISCA 5XX Business Weather and Intelligence with Cross-Sector Case Studies (3)

ISCA 6XX Weather Risk Management with Case Studies (3)

EMGT 603 Technical and Professional Writing for Emergency Management (3)

COURSE DESCRIPTIONS

BUAD 653 Operations Management (3)

Examines positioning, design and operating decisions and their interrelationships in the context of the overall competitive strategy of the firm. The international dimensions of operations management, as well as the relationships of operations management to other functional areas are stressed. Topics include operations strategy, quality management, product and service design, process design, capacity planning, facilities layout, design of work systems, location planning, total quality control, aggregate planning, independent demand inventory system, push-and-pull systems, enterprise resources planning, supply chain management, and scheduling. 3 s.h. Distance-learning format.

BUAD 670 Strategic Management and Policy (3)

Capstone seminar in the formulation and administration of organizational planning and policy. The student is expected to utilize, integrate and apply the theories, concepts, principles and techniques relevant to business problems and situations. Uses case studies, course projects, library research, field research, group decision making, role-playing, simulations and other strategic planning and management process exercises. Emphasizes the global nature of business and utilizes technology to coordinate the activities of the group efforts. Prereq: demonstrated proficiency in general business concepts at the introductory level through job experiences or coursework. 3 s.h. Distance-learning format.

ISCA 545 Environmental Earth Systems Management (3)

Examination of management approaches for anthropogenic impacts to environmental systems. Evaluates environmental processes and the interconnectedness of the earth system in the context of human disruptions. Grounded in the complex dynamic chemical and energy cycling in biota, water, air and soil. Presents valuation metrics and tools to synthesize system-based approaches. Utilizes case-study examples for critiquing approaches and as a basis for designing management plans. While focus is on biogeochemical scientific principles, management approaches integrate social, economic and policy considerations. 3 s.h. Offered in fall. Prereq: CHEM 112; MATH 161; 300-level environmental course; or permission of instructor.

ISCA 555 Environmental Sustainability (3)

Detailed examination of anthropogenic impacts on the environment and the technical-management approaches to address the causes and effects. Subtopics in the broad areas of water, waste and energy will be grounded with case studies of Millersville University and regional activities/programs promoting sustainability. Tools and mechanisms will be presented for developing and evaluating sustainability plans across these core areas and to rank potential mitigation measures to successfully achieve goals. Evaluation tools applied include but are not limited to life-cycle assessment, walkability scoring and LEED certification. Integration of scientific/technological, public policy and economic considerations in achieving environmental sustainability in the subtopic areas will be discussed. 3 s.h. Offered in fall. Prereq: MATH 161; CHEM 111; prior 300-level environmental course or equivalent; or permission of instructor. Prereq or Coreq: ISCA 545.

ISCA 643 Climate Science Applications (3)

An analysis of social, economic and health activities related to climate and weather at local, regional and global scales. The course will cover results of interdisciplinary research arenas, including natural resource governance; urban systems dynamics; the intersection of weather, climate and health; GIS application and regional climate for adaptation. The course will also review adaptation strategies for climate change through an analysis of the scenarios of projected climate change, developing scientific tools and methods for analyzing current and future vulnerabilities, conducting integrated analyses of climate-change impacts and adaptation, and developing scalable solutions. 3 s.h. Distance-learning format.

ISCA 661 Earth Imaging and Data Processing (3)

Focuses on how geoformation technologies, including GIS, remote sensing, GPS and spatial analytical techniques, can be integrated to address various situations in environmental risk assessment, monitoring and planning. Topics include geodetic datum; understanding heights and vertical datum; geodetic surveying and mapping; data processing in IDL, including map projections, data structures and data visualization; image processing in ENVI, including classification, image transforms and exploring hyperspectral data; extending ENVI with IDL. Distance-learning format-blended. 3 s.h. Offered fall of odd years. Prereq: none.

ISCA 662 Advanced Topics in Remote Sensing (3)

This course develops advanced concepts and techniques of remote-sensing principles. Topics include radiative transfer equation derivation; algorithm development for land, ocean and atmospheric variables; satellite and aerial image analysis and interpretation; atmospheric correction in the visible and infrared wavelengths; validation of satellite and co-located in situ data; and statistical analyses of residuals. Case study examples from land, ocean and atmosphere. Distance-learning format-blended. 3 s.h. Offered in spring of even years. Prereq: ISCA 661.

ISCA 663 Geoinformational Case Studies (4)

Focuses on case studies on how a variety of agencies implement and integrate geospatial data in their operations. Case study-based application of geospatial tools and software in order to solve problems in urbanization, agriculture, natural hazards, forestry, disaster management, etc.; practical problems involving case studies in land-use change and drought, impact on stream quality, flooding, insect damage and wildfires in response to both natural and human-induced climate change. Introduction to Global Mapper software. Distance-learning format-blended. 3 s.h. Offered in fall of even years. Prereq: ISCA 662.

ISCA 664 Open Web Mapping (3)

History and importance of web mapping; benefits and challenges to free and open source software (FOSS); identify the pieces of hardware and software architecture used in web mapping; process (clip and project) GIS data using QGIS and GDAL; list the basic functions of a WMS and describe how and why each would be invoked; large tiled web maps; identify commonly used web mapping APIs (both proprietary and FOSS); implement techniques for data filtering and classification using OpenLayers; recognize the benefits and weaknesses of OpenStreetMap and the process of crowdsourcing. 3 s.h. Distance-learning format-blended. Offered in spring of odd years. Prereq: none.

ISCA 693 Field Experience Practicum in Integrated Science (3)

A capstone experience in which knowledge and skills are applied and integrated within a field experience. Those already working in a related field can use their current position as the basis for completing a project applicable to enhance their current skills applying best practices. 3 s.h. Prereq: program coordinator approval.

MATH 503 Probability and Statistics for Teachers (4)

A rigorous one-semester study of probability, distribution theory and the basics of statistical inference. Topics include probability, expectation, discrete and continuous distributions, descriptive statistics and both estimation and hypothesis testing for one- and two-sample problems. Prereq: MATH 311.

MATH 695 Topics in Mathematics (3)

Investigation of one or more mathematical topics of current interest not covered in regular courses. Topics and methods of instruction may vary according to the needs and interests of students and faculty involved. Offered infrequently.

EMGT 633 GIS Applications for Emergency Management (3)

Introduction to Geographic Information Systems (GIS), with emphasis on their use in emergency management. Covers the different types of GIS data available, sources of data, and software tools for querying and spatially analyzing data. Offered in fall of odd years.

MATHEMATICS

GRADUATE FACULTY

Delray J. Schultz, Department Chairperson. Ph.D., Temple University, 1992. Statistics.

Janet A. White, Assistant Department Chairperson. Ph.D., American University, 2002. Mathematics Education.

H. Tyrone Washington, Graduate Program Coordinator. Ph.D., North Carolina State, 2012. Mathematics Education.

J. Robert Buchanan. Ph.D., North Carolina State University, 1993. Ordinary Differential Equations, Functional Analysis.

Antonia Cardwell. Ph.D., Kent State University, 2005. Analysis.

Ximena P. Catepillán. Ph.D., University of Iowa, 1991. Operator Theory.

James W. Fenwick. Ph.D., University of Wyoming, 1985. Statistics.

Zhigang Han. Ph.D., Stony Brook University, 2006. Geometry, Topology.

Noel F. Heitmann. Ph.D., University of Pittsburgh, 2003. Applied Mathematics.

Bruce M. Ikenaga. Ph.D., Cornell University, 1982. Algebra.

Baoling Ma. Ph.D., University of Louisiana at Lafayette, 2012. Applied Mathematics.

Erin R. Moss. Ph.D., Purdue University, 2009. Mathematics Education.

Kevin S. Robinson. Ph.D., University of Florida, 2000. Statistics.

Zhoude Shao. Ph.D., University of Minnesota, 1994. Applied Mathematics.

Cynthia E. Taylor. Ph.D., University of Missouri, 2011. Mathematics Education.

Ronald N. Umble. Ph.D., University of North Carolina at Chapel Hill, 1983. Algebraic Topology.

Michael G. Wismer. Ph.D., University of Delaware, 1996. Mathematics Education.

Mingquan Zhan. Ph.D., West Virginia University, 2003. Graph Theory, Matroid Theory.

THE PROGRAM

The Department of Mathematics offers graduate coursework in mathematics and mathematics education, and offers the M.Ed. in mathematics education.

Courses are designed to be of optimum value and relevance to teachers of mathematics in secondary schools. Mathematics teachers who are not pursuing a degree may enroll as nondegree students and elect any course in mathematics or mathematics education for which they have the prerequisites.

ADMISSION REQUIREMENTS

Admission to the M.Ed. program in mathematics education is granted to those applicants whose mathematical preparation fulfills the mathematical proficiency requirement (see I below). Conditional admission is granted to those applicants who have satisfactorily completed the following Millersville University undergraduate mathematics courses or their equivalents: MATH 161, 211, 311 (Calculus I, II, III) and MATH 322 (Linear Algebra). Such persons are granted full admission status upon fulfillment of the mathematical proficiency requirement.

MASTER OF EDUCATION DEGREE IN MATHEMATICS

I. Mathematical Proficiency

Demonstrated mathematical proficiency is required for the degree. Students who enter the program having earned a grade of B- or higher in the following undergraduate courses (or their equivalents) are considered to have met this requirement:

MATH 322 (502) Linear Algebra I

MATH 333 (503) Introduction to Probability and Statistics

MATH 345 (504) Abstract Algebra I

MATH 464 (506) Real Analysis I

Either one of the following:

MATH 353 Survey of Geometry

MATH 355 (505) Transformational Geometry

Students with deficiency in one or more of these areas must complete the corresponding 500-level course(s) with a grade(s) of B- or higher. Credits so earned apply towards the M.Ed. degree per guidelines in block III below. Note that only one of the two undergraduate geometry courses (MATH 355) has a corresponding 500-level course. Graduate students who wish to study the material in MATH 353 for graduate credit may request special permission to do so.

II. Professional Core (9 s.h. minimum required)

See the *M.Ed. Professional Core* section for requirements and course descriptions. MATH 535 may be substituted for EDFN 601.

III. Mathematics Courses (12 s.h. minimum required)

Four of the following; at least two numbered 510 or higher:

- MATH 502** Linear Algebra for Teachers (4)
- MATH 503** Probability and Statistics for Teachers (4)
- MATH 504** Modern Algebra for Teachers (3)
- MATH 505** Transformational Geometry for Teachers (3)
- MATH 506** Modern Analysis for Teachers (3)
- MATH 520** Logic and the Foundations of Mathematics (3)
- MATH 535** Statistical Methods I (3)
- MATH 536** Statistical Methods II (3)
- MATH 537** Statistical Problem-Solving Seminar
- MATH 566** Complex Variables (3)
- MATH 577** Problems in Applied Mathematics (3)
- MATH 592** Graph Theory (3)
- MATH 642** Linear Algebra (3)
- MATH 650** Topics in Geometry (3)
- MATH 664** Real Variables (3)
- MATH 670** Operations Research (3)
- MATH 675** Numerical Analysis (3)
- MATH 683** General Topology (3)
- MATH 691** Combinatorics (3)
- MATH 693** Number Theory (3)
- MATH 695** Topics in Mathematics (3)
- MATH 696** Independent Study in Mathematics (1-3)

NOTES:

- (a) MATH 535 may not be double-counted under blocks II and III.
- (b) Credits earned in 500-level-numbered courses may be applied in block III, provided the student earns a grade of B- or higher.
- (c) Students may elect MATH 695 or 696 more than once, provided the topics are different.

IV. Mathematics Education Courses (9 s.h. minimum required)

Three of the following:

- MATH 602** Equity Issues in Mathematics Education (3)
- MATH 603** History of Mathematics (3)
- MATH 604** Ethnomathematics (3)
- MATH 606** Transitioning to the First Year in a High-Needs School District (3)
- MATH 607** Moving to Tenure (3)
- MATH 610** Problem-Solving Seminar (3)
- MATH 611** Psychology of Learning Mathematics (3)
- MATH 612** Diagnostic and Prescriptive Mathematics (3)
- MATH 614** Current Issues in Middle-School Mathematics (3)
- MATH 615** Current Issues in Secondary-School Mathematics (3)
- MATH 616** Teaching Advanced Placement (AP) Calculus in the Secondary School (3)
- MATH 617** Curricular Innovations in Middle- and Secondary-School Mathematics (3)
- MATH 618** Assessment in the 7-12 Mathematics Classroom (3)
- MATH 619** Advanced Perspectives for Teaching High School Mathematics (3)
- MATH 622** Teaching Mathematics in the 21st Century (3)
- MATH 672** Mathematical Modeling in the Secondary-School Curriculum (3)
- MATH 679** Technology in the Secondary Mathematics Classroom (3)
- MATH 690** Topics in Discrete Mathematics for Teachers (3)
- MATH 697** Topics in Mathematics Education (3)
- MATH 698** Independent Study in Mathematics Education (1-3)

Note: Students may elect MATH 697 or 698 more than once, provided the topics are different.

V. Final Options (Select One)

1. Non-Thesis (6 s.h. minimum required). Elect two courses offered by the department at the 510 level or higher. The minimum course requirement for the degree with this option is 36 s.h.
2. Thesis (3 s.h. minimum required).
MATH 699 Thesis

The minimum course requirement for the degree with this option is 30 s.h. plus thesis (three or more credits).

Note: MATH 535 may not be double-counted in categories II and VI.

VI. Field Experience*

All students must complete a field experience through a math education thesis or a research project in math education.

VII. Capstone Component*

All students must fulfill this requirement either by completing the thesis option or a comprehensive oral presentation.

**For details on these requirements, students should contact the mathematics department office or the graduate program coordinator.*

COURSE DESCRIPTIONS

MATHEMATICS COURSES

MATH 502 Linear Algebra for Teachers (4) Systems of linear equations, matrix algebra and determinants; real vector spaces, linear independence, basis and dimension; real inner product spaces, Gram-Schmidt orthogonalization; eigen theory and diagonalization; linear transformations and matrix representation. Prereq or Coreq: MATH 311; MATH 310/520 recommended.

MATH 503 Probability and Statistics for Teachers (4) A rigorous one-semester study of probability, distribution theory and the basics of statistical inference. Topics include probability, expectation, discrete and continuous distributions, descriptive statistics and both estimation and hypothesis testing for one- and two-sample problems. Prereq: MATH 311.

MATH 504 Modern Algebra for Teachers (3) Algebraic properties of complex number systems, set theory, groups, rings, integral domains and fields. Prereq: MATH 310/520 and MATH 322/502.

MATH 505 Transformational Geometry for Teachers (3) Study of the real Euclidean plane in the spirit of Felix Kline: Geometry is the study of those properties left invariant under a group of transformations. Motions, similarities, affinities, projectivities. Offered in spring and periodically in summer. Prereq: MATH 310/520 and MATH 322/502 or permission of instructor.

MATH 506 Modern Analysis for Teachers (3) Real number system, limits of sequences and functions, theory of differentiation, Riemann integration, infinite series. Prereq: MATH 310/520, 311, 322/502. MATH 345/504 recommended.

MATH 520 Logic and the Foundations of Mathematics (3) Theory of inference, symbolic logic, nature of axiom systems, validity of proofs, consistency, independence, completeness, theory of sets and cardinal numbers.

MATH 535 Statistical Methods I (3) Survey of statistical methods used in research, education, behavioral science and biomedical applications. Experimental designs discussed regarding advantages, disadvantages, sampling problems and analysis. Regression and analysis of variance. Prereq: an elementary probability or statistics course. Offered in fall and periodically in summer.

MATH 536 Statistical Methods II (3) Continuation and extension of statistical methods introduced in Statistical Methods I (Math 535). Advanced topics in analysis of variance, randomized block designs and experimental designs. Prereq: MATH 535 or permission of instructor. Offered in spring.

MATH 537 Statistical Problem-Solving Seminar (1) Capstone course designed to serve as outcome assessment for math majors enrolled in statistics option. Course involves problem solving, data analysis and statistical consulting. Materials drawn from real-world problems. Prereq: MATH 535. Coreq: MATH 536. Offered in spring.

MATH 566 Complex Variables (3) Complex number system, analytic functions, elementary functions, contour integration, residues and poles, conformal mapping. Prereq: MATH 506 or equivalent. Offered infrequently.

MATH 577 Problems in Applied Mathematics (3) An investigation of one or more topics of current interest in applied mathematics. Specific topics to be covered vary but are announced each time the course is offered. Offered infrequently.

MATH 592 Graph Theory (3) Finite graphs, multigraphs, digraphs and networks from theoretical, practical and historical perspectives. Specific topics include isomorphisms, graph variants, planarity and nonplanarity, traversability, colorings, flows, matchings and optimization algorithms. Prereq: MATH 502 or equivalent. Offered periodically.

MATH 642 Linear Algebra (3) Vector spaces, linear transformations, matrices, systems of equations, determinants. Prereq: MATH 502 or equivalent. Offered infrequently.

MATH 650 Topics in Geometry (3) Topics selected from the parallel postulate and models for Euclidean and non-Euclidean geometries; projective geometry; local geometry of smooth space curves; geometry of smooth surfaces in space; geometry of space-time; finite geometries; representation of a geometry as a group of transformations acting on a set. Prereq: teaching experience or permission of instructor. Offered infrequently.

MATH 664 Real Variables (3) Metric spaces, completeness, limits and continuity, compactness and connectedness, uniform continuity, derivative and integral, sequences and series of functions, uniform convergence. Prereq: MATH 502 and 506 or equivalent. Offered infrequently.

MATH 670 Operations Research (3) Principles of model building; examples from linear optimization, network analysis, dynamic programming, probabilistic decision theory, Markov chains, queuing theory, simulation and inventory models. Applications and theory. Prereq: MATH 642 or equivalent, and a statistics course or equivalent. Offered periodically.

MATH 675 Numerical Analysis (3) Numerical treatment of equations, matrices and systems of equations; interpolation and approximation by polynomials; numerical integration; method of least squares. Prereq: MATH 502 and 506, or equivalent. Offered in fall.

MATH 683 General Topology (3) Set theory, metric and topological spaces, cluster points, closure, interior and boundary, continuity, homeomorphisms, product and quotient spaces, separation, compactness, connectedness, completeness. Prereq: MATH 502, 504 and 506.

MATH 691 Combinatorics (3) Counting techniques, including the multiplication principle, the addition principle, the pigeon-hole principle, permutations, combinations, the principle of inclusion-exclusion, recurrence relations, generating functions and Polya's Theory of Enumeration. Prereq: MATH 502 or equivalent. Offered periodically.

MATH 693 Number Theory (3) The classic higher arithmetic of integers: mathematical induction, divisibility, congruences, prime numbers, diophantine equations. Euler-Fermat Theorem and quadratic reciprocity. Offered periodically.

MATH 695 Topics in Mathematics (3) Investigation of one or more mathematical topics of current interest not covered in regular courses. Topics and methods of instruction may vary according to the needs and interests of students and faculty involved. Offered infrequently.

MATH 696 Independent Study in Mathematics (1-3) Selected topics. Prereq: permission of chairperson. Offered infrequently.

MATHEMATICS EDUCATION COURSES

MATH 602 Equity Issues in Mathematics Education (3) Designed for graduate-level students with an interest in equity issues in mathematics education. Students examine issues of equity in mathematics education from various theoretical and practical perspectives and along lines of race, gender, culture and socioeconomic status. It is a reading-intensive course that spans such topics as the achievement gap, tracking, culturally relevant pedagogy, multiculturalism, the nature of mathematics, and mathematics for democracy and social justice. Course assignments primarily involve presentations, discussions, writing, problem solving and problem posing. Some assignments will be differentiated to ensure they are relevant to the concerns of both practicing teachers as well as students without a teaching background who intend to pursue further graduate study.

MATH 603 History of Mathematics (3) Evolution of mathematical concepts from antiquity to the present century. Emphasis on eras of great mathematical activity.

MATH 604 Ethnomathematics (3) Aims to introduce ethnomathematics as a field by examining mathematics across and within cultures. In addition, the course is designed to strengthen and expand students' understanding of mathematical topics (e.g., number systems, geometry, combinatorics, group theory) through study of the mathematics of world cultures. Furthermore, students will discuss ways in which the course may be used to refresh or augment 7-12 school mathematics courses and develop school materials in ethnomathematics.

MATH 606 Noyce-Transitioning to the First Year in a High-Needs School District (3) MATH 606 is intended to address topics and concerns relevant to recently certified Noyce secondary mathematics teachers as they transition to their first year of teaching in a high-needs school district. Through reading, class discussions, individual presentations and written assignments, participants reflect on their student-teaching experiences, further explore challenges of working with diverse groups of students, and develop strategies to increase their effectiveness as a teacher in the context of a high-needs district. Prereq: permission of instructor.

MATH 607 Noyce-Moving to Tenure (3) MATH 607 is intended as an extension of MATH 606 and meant to address topics and concerns relevant to recently certified Noyce secondary mathematics teachers as they complete their first year of teaching in a high-needs school district. Through reading, class discussion, individual presentations and written assignments, participants reflect on their experiences during the first year of teaching, further explore challenges of working with diverse groups of students, and develop strategies to increase their effectiveness as a teacher in the context of a high-needs district. Prereq: permission of instructor.

MATH 610 Problem-Solving Seminar (3) Develops students' problem-solving abilities in mathematics and teaching of problem solving to high school students. Includes discussion of solutions to problems and the theories of problem solving. For both teachers and nonteachers. Offered periodically.

MATH 611 The Psychology of Learning Mathematics (3) Investigation of the learning theory of constructivism and its application to the learning of mathematics. Emphasis on higher-order concept acquisition and schema development, and their relationship to mathematical instruction and teacher decision making. Individual differences in learning styles are also discussed. Prereq: teaching experience or permission of the instructor. Offered periodically.

MATH 612 Diagnostic/Prescriptive Teaching of Mathematics (3) Will develop expertise in diagnostic techniques to enable mathematics educators to use appropriate activities, strategies and materials for effective instruction in mathematics. For elementary school, middle school, special education, high school general mathematics, and Chapter 1 teachers, administrators and supervisors. Prereq: teaching experience or permission of instructor. Offered infrequently.

MATH 614 Current Issues in Middle-School Mathematics (3) Current issues relating to middle-school mathematics instruction, including issues associated with teaching strategies as well as curricular issues. Central to this discussion will be the NCTM's Principles and Standards for School Mathematics and the PA Academic Standards for Mathematics. Prereq: teaching experience or permission of instructor. Offered periodically.

MATH 615 Current Issues in Secondary-School Mathematics (3) Current issues relating to secondary-school mathematics instruction, including issues associated with teaching strategies as well as curricular issues. Central to this discussion will be the NCTM's Principles and Standards for School Mathematics and the PA Academic Standards for Mathematics. Prereq: teaching experience or permission of the instructor. Offered periodically.

MATH 616 Teaching Advanced Placement (AP) Calculus in the Secondary School (3) Current issues associated with the teaching of advanced placement calculus in the secondary school, including issues associated with teaching strategies as well as curricular issues. Central to this discussion will be the College Board publications on the AP calculus curriculum, AP calculus exams and the use of technology in the AP calculus classroom. Prereq: teaching experience or permission of the instructor. Offered periodically.

MATH 617 Curricular Innovations in Middle- and Secondary-School Mathematics (3) Current curricular issues and teaching strategies associated with educational innovations that are invariant with respect to the middle-school–secondary-school boundary. Central to this discussion will be the NCTM's Principles and Standards for School Mathematics and the PA Academic Standards for Mathematics. Prereq: teaching experience or permission of the instructor. Offered periodically.

MATH 618 Assessment in the 7-12 Mathematics Classroom (3) Intended for secondary mathematics teachers who wish to explore the nature of the mathematics assessment from a variety of perspectives. The course will examine traditional and nontraditional forms of assessment as well as the purpose of formative and summative assessments allowing for discussion of the pros and cons of each. The course will also examine the impact of assessment tools on individual classroom instruction as well as within local departments, schools, districts, states and national education issues. The course will seek to actively involve teachers in a productive dialogue about the mathematics that they teach and explore a variety of levels at which the mathematics can be assessed. In order to do this, it will be necessary at times to expand and explore K-16 mathematics assessment at some length.

MATH 619 Advanced Perspectives for Teaching High School Mathematics (3) Intended for secondary mathematics teachers at the middle or high school level who wish to explore the nature of the mathematics that they teach from a different viewpoint. The course will look at typical secondary mathematics topics, including the real-number system, polynomials, number theory, trigonometry and Euclidean geometry while examining concept analysis, problem analysis and mathematical connections. It will actively involve in-service and preservice teachers in a productive dialogue about the mathematics that they teach and potential developmental or extensions that could be put into practice at each level. The class will also explore a variety of levels at which it may be appropriate to address these issues with their own students.

MATH 622 Teaching Mathematics in the 21st Century (3) Designed for examination, study and analysis of teaching techniques and alternate approaches to teaching and learning mathematics in the 21st century. Students experiment with a variety of pedagogies that are more in line with the way in which 21st-century students live rather than how they are often taught. Comparisons of multiple pedagogies (current, past and potential future) will be frequently made and discussed.

MATH 672 Mathematical Modeling in the Secondary-School Curriculum (3) Investigation of the process of mathematical modeling. Creative and empirical model construction, model analysis and model research. Problems taken from a variety of disciplines. Some problems are suitable for algebra and geometry students; others require some knowledge of calculus and statistics. Prereq: MATH 502 or its equivalent. Offered periodically.

MATH 679 Technology in the Secondary Mathematics Classroom (3) Introduction to technologies currently available for teaching secondary mathematics. Emphasis on the use of modern graphics calculators, although computer software is also presented. Capabilities of the technologies examined in depth, but emphasis will be on the use of this technology in the classroom. Mathematical topics selected from elementary algebra, geometry, algebra II, precalculus and calculus. Prereq: secondary teaching experience. Offered periodically.

MATH 690 Topics in Discrete Mathematics for Teachers (3)

Provides high school mathematics teachers a variety of situations and problems requiring ideas and solutions from discrete mathematics. Includes problems represented by finite graphs, digraphs or networks; recurrence relations; matrices and generating functions. Solutions involve developing and understanding algorithms and inductive reasoning. Integrating discrete mathematics topics into the curriculum is emphasized. Prereq: MATH 502 or equivalent. Offered periodically.

MATH 697 Topics in Mathematics Education (3) Investigation of one or more topics of current concern in mathematics education not covered in regular courses. Course content varies according to the needs and interests of students and faculty involved. Offered infrequently.

MATH 698 Independent Study in Mathematics Education (1-3) Selected topics. Prereq: permission of chairperson. Offered infrequently.

MATH 699 Thesis (3 or more)

NURSING

GRADUATE FACULTY

Cynthia Blevins. D.N.P., CRNP, York College. Adult Gerontology.

Shirley Bushong. M.S.N., CRNP, Millersville University. Urgent Care, Adult Care.

Michele Chronister. M.S.N., CRNP, Millersville University. Infant and Women's Care.

Laurette Flannery. M.S.N., CRNP, Bloomsburg University. Rehabilitation and Wound Care.

Cassandra Haddad. M.S.N., CRNP, Millersville University. Adult/Primary Care, Alternative Medicine.

Teresa Hartmann. Ph.D., R.N., Widener University, 2016. Economic Value of Nursing, Financial Aspects of Patient Care, Trauma/Emergency Care.

Jaima Kishbaugh-Brown. M.S.N., CRNP, Millersville University. Endocrinology.

Kelly A. Kuhns, Department Chairperson, D.N.P. Coordinator. Ph.D., R.N., Villanova University, 2000. Adult Health, Nursing Education, Online Education, Nursing Professional Development, Nursing Political Advocacy.

Dawn Lambert. Ph.D., RN, Capella University. School and Community Nursing.

Linda Lee. M.S.N., CRNP, Millersville University. Orthopedics.

Cayleigh Minter. M.S.N., CRNP, Millersville University. Occupational Health.

Jenny L. Monn, Graduate Program Coordinator. DNP, FNP-BC, York College of Pennsylvania, 2015. Family Nurse Practitioner, Millersville University, 2007. College Health, Women's Health, Immunizations, Evidence-Based Practice.

Anne Pryzbylkowski. M.S.N., CRNP, Millersville University. Nephrology.

Lisa Senft. D.N.P., CRNP, Millersville University. Pulmonology.

Adam Updegraff. D.N.P., CRNP, Millersville University. Internal Medicine.

Barbara J. Zimmerman. Ph.D., R.N., Widener University, 1996. Rehabilitation and Chronic Illness, Pediatrics, School Nursing, Case Management, Nursing Education.

THE PROGRAMS

DOCTOR OF NURSING PRACTICE

The purpose of the Doctor of Nursing Practice program is to further educate clinical experts with the knowledge and skills in systems analysis and evidence-based integration and evaluation. It prepares individuals to design improved methodologies to promote safe, timely, effective, equitable and patient-centered care.

The DNP program is tailored to the needs of certified, advanced practice nurses, including nurse practitioners, clinical nurse specialists, certified nurse midwives and certified registered nurse anesthetists. The 36-credit program provides the advanced practice registered nurse with tools to engage in evidence-based, scholarly clinical practice. The two-year program uses a blended format to offer courses, with each course meeting on campus once per semester, with the remaining work conducted online. A minimum of 330 clinical hours are required and must be approved and academically supervised by a faculty member and/or preceptor. A scholarly project is required and will focus on utilizing evidence-based practice research to improve healthcare safety, quality and/or outcomes for individuals, groups or populations. The finished product will be a publishable manuscript.

The admission criteria requires a bachelor's degree in nursing and a master's degree in nursing or closely related field (i.e., MPH) with a minimum GPA of 3.5 in the master's degree. Applicants must have a valid RN nursing license. This is in addition to recommendations, curriculum vitae and a written statement outlining the goal of the DNP project.

The program is designed as a cohort model, beginning during the summer session each year. Courses are offered year-round, allowing for completion in a two-year timeframe. Each student is assigned a faculty advisor based on his/her clinical interests.

Learning Outcomes and Assessment

The Doctor of Nursing Practice program outcomes integrate nursing science with advanced levels of system thinking and professional accountability to design, deliver and evaluate evidence-based practice to improve healthcare quality, safety and outcomes. These learning outcomes are:

- Initiate and participate in collaborative efforts with other disciplines to influence healthcare outcomes.
- Advocate for and provide leadership to develop policy that helps to share healthcare financing, regulation, access and delivery.
- Employ effective communication and collaborative skills in the development and implementation of practice models, peer review, practice guidelines, health policy, standards of care and/or other scholarly products.
- Use information technology and research methods to design, direct and evaluate quality improvement methodologies to promote safe, timely, effective, efficient, equitable and patient-centered care.

MASTER OF SCIENCE DEGREE IN NURSING

Millersville University offers a Master of Science in Nursing (MSN) degree, with two specialty options: family/individual across the lifespan nurse practitioner (FNP), and nursing education.

All class sessions are offered during weekday evenings in three-hour blocks of time or via distance learning. Clinical courses for the FNP student require a minimum of 16 hours per week in clinical practice. Nursing education students are required to complete one semester of an eight-hour-per-week teaching practicum.

Individuals completing the MSN with family/individual across the lifespan nurse practitioner option are prepared to function as family nurse practitioners in a variety of settings, including clinics and primary-care settings.

Individuals completing the MSN with nursing education option are prepared to function as educators in nursing education programs or healthcare agencies.

The program (MSN) is accredited by the Accreditation Commission for Education in Nursing (ACEN).

Admission Requirements

Applicants for the Master of Science in Nursing programs are referred to the *Admission Requirements* section for general criteria and guidelines for admission to the University.

Specific criteria required by the Department of Nursing include:

1. Baccalaureate degree in nursing from an accredited (ACEN or CCNE) school of nursing.
2. Undergraduate grade-point average of at least 3.0 on a 4.0 scale. When GPA is below this, probational acceptance may be considered if the candidate demonstrates graduate study potential by other means.
3. Satisfactory completion of an undergraduate statistics course (equivalent to MATH 130) and a research course in nursing.
4. Computer literacy and access to a computer and internet service.
5. Three current academic and/or professional references.
6. Licensure as a registered nurse in Pennsylvania or in the state where clinical practice or internship is to be arranged.
7. Minimum of one year of clinical experience in nursing.
8. Successful completion of a personal interview with the Nursing Admissions Committee.
9. Current résumé, including a minimum two years of pertinent clinical experience by application date. Preferred is 3-5 years.
10. Verification of completion of statistics, research and physical courses.

POST-MASTER'S CERTIFICATE

A post-master's certificate is available in the family nurse practitioner option and the nursing education option for individuals who already hold an MSN degree. Course requirements are contingent upon previous master's degree.

Programs of Study

In order to meet the requirements for the Master of Science in Nursing degree, students are required to complete the Graduate Nursing Core and Advanced Nursing Practice Core, as well as the respective specialty courses. Students should consult with their advisor on the proper sequence of course offerings.

I. Graduate Nursing Core (15 s.h.)

NURS 501 Role Development and Theoretical Foundations of Advanced Nursing (3)

NURS 502 Research Methodology (3)

NURS 503 Advanced Practice Professional Issues and Health Policy (3)

NURS 504 Nursing Informatics and Healthcare Technology (3)

NURS 698 Scholarly Project (3)

II. Advanced Nursing Practice Core (9 s.h.)

NURS 511 Pathophysiology for Advanced Practice (3)

NURS 512 Health Assessment and Diagnostic Evaluation for Advanced Practice (3)

NURS 513 Pharmacology and Alternative Therapeutics in Nursing Practice (3)

III. Family Nurse Practitioner Core (19 s.h.)

- NURS 521** Clinical Management of the Young Family (7)
NURS 522 Clinical Management of the Mature and Aging Family (7)
NURS 523 Family Nurse Practitioner Internship (5)

IV. Nursing Education Core (12 s.h.)

- NURS 515** Advanced Clinical Practicum (3)
NURS 630 Effective Teaching: Theories and Methods in Nursing Education (3)
NURS 631 Measurement and Evaluation in Nursing Education (3)
NURS 632 Nursing Curriculum and Program Design (3)
NURS 633 Nursing Education Internship (3)

Family/Individual Across the Lifespan Nurse Practitioner Option

This program is designed for the part-time student. Completion of the program requires 43 theory hours plus the completion of clinical practice hours.

Graduates are eligible to submit an application to the Pennsylvania State Board of Nursing (SBN) for designation as a Certified Registered Nurse Practitioner (CRNP) upon satisfactory completion of requirements and passing a national certification examination administered by either the American Nurses Credentialing Center (ANCC) or the American Academy of Nurse Practitioners (AANP).

A graduate of a nurse practitioner program may not practice as a CRNP unless authorized to do so by the Board. Board authorization is equivalent to receipt of a CRNP number. While the CRNP application is pending, the applicant may not be employed as a CRNP. (Refer to Pennsylvania CRNP Rules and Regulations Section 21:261 (b).)

Nursing Education Option

The nursing education option is designed for the student who desires to pursue a career as a nurse educator. Graduates are prepared to teach in nursing education programs or healthcare agencies.

Completion of the program requires 39 theory hours plus clinical. Upon completion of the MSN nursing education option, graduates are eligible to take the Certified Nurse Educator (CNE) examination administered by the National League for Nursing.

Health Services Supervisory Certification Program

The PDE certification to supervise school health services in the public schools requires 15 s.h. of coursework and practicum. See the *Supervisory Certification Program* section for requirements and course descriptions.

COURSE DESCRIPTIONS

NURS 501 Role Development and Theoretical Foundations of Advanced Nursing (3) This course serves as the introductory course for the Master's of Science in Nursing program. It is designed to provide a foundation to advanced practice nursing. Students explore nursing concepts and theory. Emphasis is placed on bridging the theory-practice gap. Students apply this theoretical basis in exploring advanced practice role development. Advance practice core competencies are introduced and analyzed.

NURS 502 Research Methodology (3) Advanced research in nursing. Builds on previous knowledge of research and statistics to develop a research-oriented approach to practice. Includes analysis of methods and techniques of research and interpretation of their usefulness for application in practice. Theory and practice will be used in defining nursing problems and in developing a research proposal. 3 hrs. theory. Prereq/Coreq: NURS 501. Offered in spring.

NURS 503 Advanced Practice Professional Issues and Health Policy (3) In-depth study of the issues of advanced nursing practice, focusing on the historical, social and political forces which impact advanced nursing practice. Advanced practice roles in nursing are explored and analyzed. 3 hrs. theory. Offered in fall.

NURS 504 Nursing Informatics and Healthcare Technology (3) Discussion of the ways in which information and technology influence practice and decision making in various aspects of nursing practice, such as clinical, education, leadership and research, is the major focus of the course. Advances in technology that support and enhance the delivery of care and interdisciplinary communication are addressed. The legal, ethical, cultural, economic and social factors affecting healthcare information technology are also explored.

NURS 511 Pathophysiology for Advanced Practice (3) Advanced physiology and pathophysiology at the cellular, organic and systemic level. Interdependence of organ systems in health and disease is emphasized as a basis for clinical assessment and management. 3 hrs. theory. Offered in spring.

NURS 512 Health Assessment and Diagnostic Evaluation for Advanced Nursing Practice (3) Clinical course. Provides framework for diagnosis and clinical decision making for the advanced practice nurse. Assessment skills and procedures for individuals across the life cycle will be developed. Information gathered in the assessment process will provide a basis for the evaluation of the health status of individuals. An analysis of an individual's response to wellness and illness will include examination of concepts of cultural influences, health-seeking behaviors, and stress and adaptation. 2 hrs. theory, 3 hrs. lab. Prereq: NURS 501, 502, 503 and 511. Offered in fall.

NURS 513 Pharmacology and Alternative Therapeutics in Nursing Practice (3) Principles of pharmacology applied to the therapeutic management of the individual and the family across the life cycle. Emphasis on prescribing and monitoring pharmacology and alternative therapeutic regimens. Adverse drug reactions and multiple drug interactions are included. 3 hrs. theory. Prereq: NURS 501, 502, 503 and 511. Offered in fall.

NURS 515 Advanced Nursing Practice Clinical Practicum (3) This course provides an opportunity to integrate theory and practice through an intensive practicum experience. The practicum provides the opportunity for the nurse educator student to develop advanced clinical experience within a selected population and/or setting.

NURS 521 Clinical Management of the Young Family (7) This course provides the family nurse practitioner student with the necessary knowledge and clinical experience to assist young families with health promotion and chronic and acute health problems. The biophysical, cognitive and psychosocial development of members of the young family is explored. A focus on women's health issues is incorporated in the course content. The role of the family nurse practitioner in caring for the young family is identified. 3 hrs. theory plus clinical component. Prereq: NURS 501, 503, 511, 512, 513.

- NURS 522 Clinical Management of the Mature and Aging Family (7)** This course provides the family nurse practitioner with the necessary knowledge and clinical experience to assist mature and aging families with health promotion and chronic and acute health problems. The biophysical, cognitive and psychosocial development of members of mature and aging families is explored. A focus on women's health issues is incorporated in the course content. The role of the family nurse practitioner in caring for mature and aging families is identified. 3 hrs. theory plus clinical component. Prereq: NURS 521.
- NURS 523 Family Nurse Practitioner Internship (5)** This course provides an opportunity to integrate theory and practice through an intensive internship experience. Focus is on the domains and competencies of the nurse practitioner as direct provider of primary healthcare. Biweekly seminars will be conducted to discuss current topics. The student will be guided in the practicum by nurse practitioner and physician preceptors in a variety of settings. 1 hr. theory plus clinical component. Prereq: NURS 521 and 522.
- NURS 560 School Nursing (5)** Focus on the specialty of school nursing, examining the role of the school nurse in health promotion of school-age youth. Health services, health education and environmental health of the school community are explored. Legal issues of nursing in a school setting are identified. Individualized health and educational plans that address the special health needs of children in the school setting are developed. Management and evaluation of comprehensive school health programs are explored with an understanding of the need for outcome criteria. Clinical experiences provide the student an opportunity to participate in school health settings at both elementary and secondary levels. 3 hrs. theory plus clinical component.
- NURS 586-588, 686-688 Topics in Nursing (1-3)** In-depth investigation and development of one or more topics of current interest in nursing that are not normally covered in regular courses. Topics/methods will vary according to the needs of students and faculty.
- NURS 630 Effective Teaching: Theories and Methods in Nursing Education (3)** Educational theories and methods are explored in this course. The advantages and challenges of technology-based teaching and learning are presented. Past and future trends in education are discussed. Theory and research findings about the learning process, the nature of the learner and the goals of instruction are discussed.
- NURS 631 Measurement and Evaluation in Nursing Education (3)** This course introduces the student to the concepts of measurement and evaluation. Techniques in designing instructional objectives and test items are developed. Grading methods and test analysis are explored. The purpose of program evaluation is emphasized.
- NURS 632 Nursing Curriculum and Program Design (3)** This course focuses on curriculum foundations, principles and issues. Synthesis of knowledge is attained by development of a curriculum/program project.
- NURS 633 Nursing Education Internship (3)** This course provides an opportunity to integrate theory and practice through an intensive internship experience. Focus is on the role of the nurse educator and the learning environment. Seminars will be conducted to discuss current topics related to nursing education. The students will be guided in the internship by nurses who are nurse educators. 1 hr. theory plus teaching practicum. Prereq: NURS 630, 631 and 632.
- NURS 691 Independent Study in Advanced Nursing Practice (1-3)** In-depth approach to an individually structured program. Focus will vary according to the needs of students and faculty involved.
- NURS 698 Scholarly Project (3)** Scholarly project is intended to be innovative and relevant to advanced nursing practice. It is completed under the supervision of an individual faculty member. Prereq: NURS 502, 521, 522 or NURS 502, 630, 631, 632.
- NURS 700 Advanced Practice Nursing: Transformational Leadership (3)** Emphasizes the roles of the advanced practice nurse as a clinical scholar, clinical expert and as a leader in evidence-based practice and transformation of healthcare. Evolution and need for doctoral education in nursing is considered. Theories of leadership change and transformation, and innovation diffusion are introduced. Systems theory, organizational and other mid-level theories are addressed. The interface between ethical and regulatory/legal obligations will be examined.
- NURS 701 Health Policy & Healthcare Economics (3)** Synthesize political action related to the structure of healthcare delivery. Analyzes factors that influence the production, financing and distribution of healthcare services in the United States and globally. Utilize the social justice model as framework for in-depth analysis and critique of the social, political and economic factors affecting advanced/doctoral nursing practice. Topics include basic economic theory, market drivers, healthcare financing and reimbursement, cost/benefit analysis and healthcare entrepreneurship.
- NURS 702 Applied Nursing Research (3)** The relationships among basic and applied research, translational science, and evidence-based practice in healthcare settings is examined through this course. Translational research strategies are identified, and the theoretical and practical challenges of translating evidence into practice are addressed.
- NURS 703 Epidemiology and Health Promotion (3)** This course will focus on the integration of evidence-based practice and epidemiological approaches to promote consistent and equitable care for diverse populations. Data will be critically analyzed to identify barriers to equitable quality healthcare. Students will analyze epidemiological, biostatistical, occupational and environmental data in the development, implementation and evaluation of clinical prevention and population health. Consideration of ethically sound solutions to complex issues related to individuals, communities and populations is explored.
- NURS 704 Complex Healthcare Systems (3)** Focus on the major theories and approaches to sustainable healthcare business practices. Key areas of interest include application of organizational theory and consideration of organizational culture. Focus on quality improvement and ensuring patient safety, with an emphasis on outcome indicators and the relationship among processes, outcomes and costs.
- NURS 705 Evidence-Based Practice: Models and Applied Research (3)** Focuses on developing the necessary skills needed for applying EBPs processes within the context of a practice setting, healthcare organization or community. Provides the foundation for the DNP Scholarly Project experience. Emphasizes the scholarly, systematic evidenced-based practice approach to problemsolving. The relationship between nursing interventions and patient outcomes is examined and opportunities for improvement are sought.
- NURS 706 Statistical Methods (3)** Exploration of statistical methods commonly used by advanced practice nurses to understand human health patterns. Descriptive and inferential statistics are applied through the use of statistical software packages and manipulation of data sets. Appraisal of appropriateness of research methods and techniques is included.
- NURS 707 Capstone Design Seminar (3)** Focus is on the design and defense of the student's capstone project. Integration of foundational courses to develop, design and successfully defend the proposed capstone project. Seminar style allows for increased interaction with faculty advisors and course peers.
- NURS 708 Informatics and Data Management (3)** Design, select and use information systems/technology to evaluate programs of care, outcomes of care, and care systems. Examine how information systems/technology provide a mechanism to apply budget and productivity tools, practice information systems and decision supports, and web-based learning or intervention tools to support and improve patient care

NURS 709 Capstone Implementation Seminar (3) Focus is on the implementation of the student's capstone project, as well as collection of specified outcome measures. Students will engage in their select area of practice to enact the previously approved capstone project. Seminar style allows for increased interaction with faculty advisors and course peers.

NURS 710 Transforming Healthcare (3) This culminating course reflects the student's ability to assume a leadership role, employ effective communication and collaboration skills, evaluate practice and successfully negotiate transformational change in the healthcare setting. Special attention is paid to the theoretical underpinnings and the broader implications of the capstone projects.

NURS 711 Capstone Evaluation Seminar (3) Focus is on the evaluation and completion of the student's capstone project, including statistical analysis of the specified outcome measures. Analysis and application of the findings in the context of the greater healthcare system are essential. Emphasis on dissemination of results. Seminar style allows for increased interaction with faculty advisors and course peers.

NURS 786 Clinical Advanced Doctoral Nursing Practice (1-6) In-depth clinical practice in the current interest or need in advanced nursing which is not normally covered in regular courses. This clinical topics course will vary according to the needs of students and faculty involved.

NURS 787 Topics in Advanced Doctoral Nursing Practice (1-3) In-depth investigation and development of one or more topics of current interest in advanced nursing which are not normally covered in regular courses. Special topics to be covered and methods used will vary according to the needs of the students and faculty involved.

NURS 791 Independent Study in Doctoral Nursing Practice (1-3) In-depth approach to an individually structured program. Focus will vary according to the needs of students and faculty involved.

NURS 799 Applied Supervision in School Health Services (6) Provides field experiences in a school setting, with emphasis on the comprehensive role of school health services supervision, methods for personnel evaluation, observing and supervising school health personnel budget, staff in-service development, health curriculum evaluation, and school health program assessment/revision and community relations. Prereq: EDSU 700, 701 and 703.

TECHNOLOGY & INNOVATION

GRADUATE FACULTY

Len Litowitz, Department Chairperson. Ed.D., University of Minnesota, 1986. Power, Energy and Transportation, Professional.

Scott A. Warner, Graduate Program Coordinator. Ed.D., West Virginia University, 2000. Product Design, Manufacturing, Professional.

Mark A. Atwater. Ph.D., North Carolina State University, 2011. Production.

Thomas P. Bell. Ph.D., University of Maryland, 1992. Graphic Communications, Professional.

Sharon A. Brusic. Ed.D., Virginia Polytechnic Institute and State University, 1991. Electronics, Professional.

Barry G. David. Ed.D., Temple University, 1990. Production, Management.

Kenneth P. DeLuca. Ph.D., University of Missouri-Columbia, 1985. Electronics, Management.

Alex Johnson. Ph.D., University of North Dakota, 2010. Production Processes and Materials.

Ebrahim P. Karan. Ph.D., Georgia Institute of Technology, 2014. Construction.

Mehdi Khalighi. Ph.D., University of Utah, 2001. Environmental Health, Safety.

Betty-Jo Legutko. Ph.D., Alvernia University, 2016. Occupational Safety, Environmental Health.

Joseph M. McCade. Ed.D., Virginia Polytechnic Institute and State University, 1989. Power, Professional.

Jack Ogutu. Ph.D., Auburn University, 2013. Ergonomics, Safety.

Mark R. Snyder. Ed.D., Virginia Polytechnic Institute and State University, 1992. Graphic Communications.

John R. Wright Jr. Ph.D., Iowa State University, 1998. Electronics, Power, Robotics.

THE PROGRAM

MASTER OF SCIENCE DEGREE IN TECHNOLOGY & INNOVATION

The Master of Science in technology & innovation degree program has been created for students from a variety of backgrounds, including education; business and industry; science and technology; and entrepreneurship. The program has two concentrations from which to choose — education and enterprise. The courses in the program are designed to develop and engage students in creativity, design thinking, innovation, ingenuity, problem solving, critical thinking, decision making, research, curiosity, scholarship, leadership and professionalism. The thinking processes of professionals such as designers, engineers and entrepreneurs are the foundation of the technology & innovation core courses. These thinking processes are universal and enduring concepts and are widely considered important tools for success in a world submerged in technology. Experiences in this program provide students with insight as to how their own thinking processes affect them in both their personal and professional lives, and how those thinking processes can be modified to meet the circumstances. Teachers, employees and business leaders alike will learn to think about their own thinking. The technology & innovation program is structured to be flexible enough to allow students to customize their graduate studies to a significant degree. This flexibility enables students in the program to make choices, including which option works best to complete the program, the topic to explore through a thesis or research and development technical project, or the variety of courses from which to choose to address one's areas of interest or professional development needs.

Admission Requirements

Applicants must possess a baccalaureate degree. Students holding a variety of baccalaureate degrees can benefit from the completion of the Master of Science in technology & innovation. Admission to the program is granted after a favorable review of application materials. A minimum undergraduate cumulative average of 3.0 is required. Applicants with less than a 3.0 GPA are required to submit acceptable test scores from either the Miller Analogies Test (MAT) or the Graduate Record Examination (GRE). Probationary admission may be granted at the discretion of the department. See the *Admission Requirements* section for additional application information. Selected graduate courses may be credited toward both graduate-level certificates or teaching endorsements and the master's degree in technology & innovation. See the department chairperson or graduate program coordinator for further information.

Degree Requirements

Each student is required to complete all four courses in the technology & innovation core and either the education core or the enterprise core (depending on the degree concentration selected), and the identified expectations of one of the three degree-completion options. Under the thesis option, Option 1, a thesis (EDTE 699) must be satisfactorily completed as part of a minimum of 30 s.h. of approved graduate study. The applied research option, Option 2, requires satisfactory completion of EDTE 698 Research and Development in Technical Areas as part of 33 s.h. of approved graduate study. Option 3 involves the completion of 36 s.h. of graduate study by taking five approved elective courses which have been selected based on their fit to the professional development needs of the student. Technology & innovation and approved courses in related disciplines are elected to complete the semester-hour requirements. The graduate program coordinator serves as the advisor for all graduate students pursuing a master's degree. Master's degree candidates who elect the thesis option will select, in consultation with the graduate coordinator, a thesis advisor from the Department of Applied Engineering, Safety & Technology. This advisor will work with at least two other members of a student's thesis committee. These other committee members must consist of at least one other graduate-level faculty member of the Department of Applied Engineering, Safety & Technology. The third member must come from outside of the department and can be someone who is a recognized expert in a given field.

TECHNOLOGY AND INNOVATION (MS) EDUCATION CONCENTRATION

30-36 credits (dependent on completion options) major sequence and degree requirements

I. Technology & Innovation Core Courses

- **EDTE 603** Fostering Creativity by Design (3)
- **EDTE 604** Engineering Principles and Concepts for the Nonengineer (3)
- **EDTE 605** Applying Critical Thinking and Decision Making (3)
- **EDTE 646** Writing the Professional Paper (3)

II. Education Core

Research Area

- **EDFN 601** Methods of Research (3)

Social Foundations (select one)

- **EDFN 511** Comparative Education (3)
- **EDFN 590** Social Foundations of Education (3)
- **EDFN 603** Philosophy of Education (3)
- **EDFN 604** Education & Public Policy (3)

Psychology Area (select one)

- **PSYC 525** Advanced Developmental Psychology (3)
- **PSYC 526** Advanced Adolescent Psychology (3)
- **PSYC 625** Human Growth & Development (3)
- **EDFN 545** Advanced Educational Psychology (3)

III. Degree-Completion Options (select one)

Option 1: Thesis

- **EDTE 699:** Thesis (6)
- **Elective (3)**

Option 2: Research and Development Technical Project

- **EDTE 698:** Research and Development in Technical Areas (6)
- **Elective (3)**
- **Elective (3)**

Option 3: Coursework

- **Elective (3)**
- **Elective (3)**
- **Elective (3)**
- **Elective (3)**
- **Elective (3)**

TECHNOLOGY AND INNOVATION (MS) ENTERPRISE CONCENTRATION

30-36 credits (dependent on completion options) major sequence and degree requirements

I. Technology & Innovation Core Courses

- **EDTE 603** Fostering Creativity by Design (3)
- **EDTE 604** Engineering Principles and Concepts for the Nonengineer (3)
- **EDTE 605** Applying Critical Thinking and Decision Making (3)

- **EDTE 646** Writing the Professional Paper (3)

II. Enterprise Core

Business Courses (both required)

- **BUAD 670** Strategy and Policy (3)
- **BUAD 653** Operations Management (3)

Analytics/Statistics Courses (Select One)

- **MATH 503** Problems and Statistics for Teachers (4)
- **MATH 535** Statistical Methods I (3)
- **MATH 610** Problem-Solving Seminar (3)

III. Degree-Completion Options (select one)

Option 1: Thesis

- **EDTE 699** Thesis (6)
- **Elective (3)**

Option 2: Research and Development Technical Project

- **EDTE 698** Research and Development in Technical Areas (6)
- **Elective (3)**
- **Elective (3)**

Option 3: Coursework

- **Elective (3)**
- **Elective (3)**
- **Elective (3)**
- **Elective (3)**
- **Elective (3)**

Technology & Innovation and Related Area Elective

Elective courses taken for any of the degree-completion options must be given prior approval by the graduate program coordinator.

Degree Candidacy

The student will apply for admission to degree candidacy after completing 6 to 15 s.h. of graduate-degree credits. Graduate faculty will evaluate the student's performance and provide a written recommendation with regard to the individual as a degree candidate. At the time of admission to degree candidacy, the student will consult with the graduate program coordinator to review and update his or her program of studies for completing the degree requirements.

COURSE DESCRIPTIONS

ITEC 515, 525, 535 Advanced Problems in Communication, Transportation/Energy/Power or Production Technology (3) Resources, processes and outcomes of selected technical areas in technology and innovation. Technical area emphasized (e.g., computer-aided drafting and design, computer numerical control, desktop publishing, digital electronics, manufacturing, photography and robotics) varies with the course offering. Laboratory experiences focus on technological problem solving. 2 hrs. lec., 3 hrs. lab.

ITEC 586-589 Topics in Industry and Technology (1-3) Investigation of one or more topics of current interest in technology, innovation, industry and engineering. Topics vary according to needs and interests of students and faculty involved. Offered periodically.

EDTE 603 Fostering Creativity by Design (3) This course will expose students to the concept of how creativity, within the context of the technological world, is manifested through design. Whether it is during the ideation, development, use, modification and updating, or disposal of the artifact or system of technology, design is the overarching force that is present through each stage. Students will also explore the latest theories on creativity as well as the ways that a designer uses creativity and design, thinking toward solving problems in an increasingly technologically complex world. Design-based thinking skills such as problem solving, decision making, researching, designing and creating will be emphasized. The course is appropriate for all graduate students, especially those in education, technological fields and entrepreneurship. Prereq: graduate student standing. Offered biennially.

EDTE 604 Engineering Principles and Concepts for the Nonengineer (3) The innovations and inventions of engineering design are vital towards enhancing the standards of living for humanity. In this course, which is intended for the nonengineer, students will learn what engineers do and how they do it. The connections between the engineering profession and society will be examined. This will include a review of engineering organizations and their standards, problem-solving techniques and the methods of modeling systems. Prereq: graduate student standing. Offered biennially.

EDTE 605 Applying Critical Thinking and Decision Making (3) This course is an exploration of the nature and application of critical thinking towards acts of decision making. Students will learn how to understand, facilitate and practice the techniques of disciplined critical thinking and decision making while avoiding the pitfalls of thinking traps such as biases and irrational tendencies. The course has been designed to address a variety of audiences, including teachers at all levels as well as entrepreneurs and individuals from business and industry, the sciences and the technological fields. Prereq: graduate student standing. Offered biennially.

EDTE 646 Writing the Professional Paper (3) Development of competencies for identifying and developing graduate research topics and for publishing in professional literature. Emphasis on research methods, organization and effective writing. The satisfactory completion of this course is required before pursuit of EDTE 698 Research and Development in Technical Areas or EDTE 699 Thesis. Offered biennially.

EDTE 690 Integrative Learning Using Experimental Strategies (3) The purpose of this course is to engage students in curriculum planning, design and assessment that will enable them to identify, use and evaluate experimental and integrative teaching-learning strategies and facility connections between all subjects in grades preK-6 (e.g., literacy, science, mathematics, social studies, arts, technology, physical education, engineering). Offered periodically.

EDTE 691 Independent Study in Technology Education (1-3) Pursuit of a topic of special interest and of potential application in technology and innovation. Written proposal must be approved by an appropriate faculty sponsor, the graduate program coordinator and the department chairperson prior to the semester of formal registration in this course. Completion of an approved independent study includes a written research report, which partially determines the grade received. Offered periodically.

EDTE 698 Research and Development in Technical Areas (3) Design, execution and communication of applied research in technology and innovation. Emphasis on recent technological advances and experimentation with contemporary processes, materials and techniques. Three types of applied research may be pursued: technical project, innovative instruction or technical research. Study is guided by a faculty advisor. Research and development results and applications are recorded as a research report. Prereq: EDTE 646, admission to degree candidacy and permission of graduate program coordinator.

EDTE 699 Thesis (3) Planning, conducting and recording basic research in technology and innovation. Includes application of an experimental, descriptive, historical or other pertinent educational research method. Study is guided by research advisor and faculty committee. Research results and interpretation are recorded as a thesis. Prereq: EDTE 646, admission to degree candidacy and permission of graduate program coordinator.

GRADUATE CERTIFICATE IN ENTREPRENEURSHIP AND INNOVATION

This certificate program is designed for postgraduate students and/or community members seeking advanced coursework to better conceptualize and deploy principles and practices of entrepreneurship. Individuals from industry can benefit from this graduate certificate by enhancing their existing knowledge while offering the opportunity for continued study beyond their bachelor's degree. Additionally, individuals who are considering starting a business or working within an entrepreneurial environment may elect to take this program of study.

The graduate certificate will serve as a stand-alone program for any interested student with a bachelor's degree from an accredited four-year college or university. The degree need not be in business; students electing this certificate program come from diverse backgrounds and various undergraduate majors and may not have had any significant, formal business training or experience. This certificate program can also provide a specialization or gateway for Millersville University graduate students seeking a master's degree in technology & innovation. Courses will address concepts including corporate, social and educational entrepreneurship. Students will investigate opportunities for developing a business while learning how to evaluate opportunities, assess overall resources and manage growth. Students will also learn to promote themselves and their businesses, especially those students without experience in advertising, branding or internet marketing, and apply modern and emerging concepts that are directly applicable to small and developing businesses.

Graduate Certificate Core Requirements (9 credits):

ENTR 501 Introduction to Entrepreneurship (3)

ENTR 511 Entrepreneur: Networking and Sales (3)

ENTR 510 Entrepreneurial Promotions and Branding (3)

Entrepreneurship Toolkit Electives (choose any one course for 3 credits):

EDTE 603 Fostering Creativity by Design (3)

EDTE 604 Engineering Principles and Concepts for the Nonengineer (3)

ENTR 541 Topics in Entrepreneurship: title to be determined (3)

or take three one-credit different topics courses

Entrepreneurship Culmination (3 credits required):

ENTR 540 Entrepreneurship Capstone (3)

COURSE DESCRIPTIONS

ENTR 501 Introduction to Entrepreneurship (3) This course offers a broad overview of the art, science and process entrepreneurship. Course concepts addressed include corporate, social and educational entrepreneurship. Students will investigate opportunities for developing a business while learning how to evaluate opportunities, assess overall resources and manage growth. Prereq: bachelor's degree from an accredited institution or permission of instructor.

ENTR 510 Entrepreneurial Promotions and Branding (3) The focus of this course is on helping entrepreneurs understand the fundamentals of sales promotions as well as create a brand for their business and themselves. Students will learn how to analyze direct competition, establish an online presence for the purposes of branding and gain experience with other low-cost promotional techniques. Prereq: ENTR 501 or permission of instructor.

ENTR 511 Entrepreneur: Networking and Sales (3) This course introduces the entrepreneurial tools necessary for networking and sales in ways that help create networks through important ties, including economic, financial, consumer, social and political attitudes, that can improve entrepreneurial endeavors. This course explores real-world principles that permeate the functioning of these diverse networks. Prereq: ENTR 501 or permission of instructor.

ENTR 514 Topics in Entrepreneurship (1) The development and exchange of scholarly information and the scope of the work shall include the exploration of current topics in entrepreneurship, which will require course registrants to engage in research and scholarly exchanges through class discussion, projects, reports and/or papers. Prereq: bachelor's degree from an accredited institution or permission of instructor.

ENTR 540 Entrepreneurship Capstone (3) As a culmination to the graduate-level certificate program in entrepreneurship, this capstone course focuses on tying together the functional aspects of an entrepreneurial initiative to position it for growth and longevity. The course immerses the student in entrepreneurship through experiential learning and covers entrepreneurial thinking among students to develop the necessary real-world skills for founding and growing an entrepreneurial venture. Prereq: ENTR 501, 510, 511 or permission of instructor.



GENERAL INFORMATION

Millersville University

UNIVERSITY SERVICES

OFFICE OF EXPERIENTIAL LEARNING AND CAREER MANAGEMENT

The Office of Experiential Learning and Career Management houses Career Services, Academic Internship Program and Volunteer Central. Career Services offers programs and services to help students clarify and attain educational and career goals. Services include career counseling, workshops to enhance résumé writing, job search and interviewing skills, resource information, computer-assisted career search, job vacancy announcements, job fairs, on-campus interviewing, and electronic and in-person résumé critiques. Volunteer Central links agencies to Millersville students seeking community-service opportunities. Graduate students and alumni may utilize these services at the Office of Experiential Learning and Career Management, Bedford House, 717-871-7655. Office hours are Monday through Friday, 8 a.m. to 4:30 p.m. For up-to-date information on programs and services, check the web page: www.millersville.edu/elcm.

CENTER FOR COUNSELING AND HUMAN DEVELOPMENT

The Center for Counseling and Human Development offers students the opportunity to discuss any matter freely in a confidential, professional setting at no cost. Licensed psychologists help students reach greater self-understanding and enhance their abilities to manage immediate and future concerns. Individual counseling, workshops, group experiences and consultations are available. Drug and alcohol counseling is provided by a certified addictions counselor. The center is located on the third floor of Lyle Hall and is open when classes are in session: Monday, Tuesday, Thursday and Friday from 8 a.m. to 4 p.m., and Wednesday from 8 a.m. to 6 p.m. To make an appointment, please call 717-871-7821. **All services are strictly confidential.**

STUDENTS WITH DISABILITIES

Millersville University encourages prospective students with disabilities to contact the Office of Learning Services in Lyle Hall at 717-871-5554 to discuss their needs. Students requesting assistance must complete a Special Assistance Request form and provide detailed documentation from their professional or healthcare practitioner regarding the nature of and limitations imposed by their disability. Accommodations are arranged upon completion of this process.

HEALTH SERVICES

Health Services, located in the Witmer Building, provides medical care to all registered students by licensed medical professionals. There is no charge for a visit to Health Services. There may be minimal charges for medications and testing. Services include treatment for minor illness and injuries; men's and women's health exams; monitoring and management of some chronic health conditions; education and advice for health concerns; physical examinations; TB testing; and immunizations, including FREE influenza vaccines. In-house laboratory testing and medical procedures such as EKGs, wound care and laceration repair are provided, with referrals to specialists as indicated. Students who do not need to be seen can obtain OTC medications and supplies from the Self Care Cart, located in the reception area. A health evaluation/physical is required by Health Services. Refer to the Health Services website, www.millersville.edu/healthservices for forms and further information. Appointments are available by calling 717-871-5250.

IDENTIFICATION CARDS

Graduate students are required to have a Millersville University student identification card, which may be obtained at the Campus ID Office in Boyer Computer Center. This identification serves as a library and activity card. Personal photo can be uploaded in advance for quick pickup. There is no charge for the initial ID card; replacement cost is \$25. The Campus ID Office is open Monday through Friday, 8 a.m. to 4 p.m., 717-871-7008.

OFF-CAMPUS HOUSING

Student Lodging, Inc. (SLI) wants to help you find affordable and safe student housing conveniently located adjacent to Millersville's campus. Graduate students can explore SLI's various housing options at the Brookwood Court Apartments and Healthy Living (Wellness) Apartments. You can visit www.studentlodginginc.com for more information or call 717-871-4611.

COLLEGE OF GRADUATE STUDIES AND ADULT LEARNING

The College of Graduate Studies and Adult Learning (CGSAL) is the administrative hub for graduate studies, including admissions, preadmissions and nondegree student advisement. CGSAL offers doctoral degrees and over 50 master's degrees as well as professional certifications across a wide variety of arts, science, education and other professional disciplines. Programs and course offerings are tailored to the educational needs and lives of adult learners. CGSAL also offers a wide variety of noncredit programs for adult learners, businesses, industries, schools and various agencies through Educator Source, the Nonprofit Resource Network and the Corporate University. Courses can be designed to meet the specific needs of clientele. Corporate University works with companies to facilitate their access to training grant funds.

The College of Graduate Studies and Adult Learning is open Monday to Friday, 8 a.m. to 5 p.m., and is located on the second floor of Lyle Hall. Please visit www.millersville.edu/graduate or contact gradadmissions@millersville.edu for additional information on all programs in the College of Graduate Studies and Adult Learning.

PARKING PERMITS

Prior to parking on campus, all drivers must obtain a temporary parking permit to be displayed on the parked vehicle. Parking permits are required on campus Monday through Friday, 8 a.m. to 4 p.m. Parking is open on campus (no permit required) after 4 p.m. weekdays and all weekend. The current permit fees for all parking permits, including semester, full-year, temporary and visitor permits, are available at the University Police Department in the Lebanon House. Information about parking is also available online at www.millersville.edu/police.

LOST AND FOUND

This service is located at the main desk of the Student Memorial Center, 717-871-4636, and the hours coincide with those of the center. Miscellaneous possessions are held there. Valuables are held by the University Police in the Lebanon House, 717-871-4357.

DINING

Graduate students may purchase meal plans. Descriptions and prices for each of the meal plans are available at www.millersville.edu/dining. Sign up to be a meal-plan member by going to MAX; click on Student Services and then select My Dining. Click login under My Housing; select dining tab on the left-hand side. Select continue, select dining plan, submit My Dining Plan Selection. Payment options are available at www.millersville.edu/bursar/mealplans/php. For billing inquiries, contact the bursar's office at 717-871-5101.

Students may purchase salads, sandwiches, pizza, pasta and other light fare in The Galley and Juice Bar in the Student Memorial Center; the Cove in Lyle Hall; and The Anchor, a deli-convenience store in Gordinier Lobby, as well as from several private enterprises in close proximity to the University.

STUDENT MEMORIAL CENTER

The Student Memorial Center has six furnished conference rooms and a multipurpose room that can handle various setups for weekly meetings, guest speakers and special events. Reservations for conference rooms and the multipurpose room can be made at the SMC Information Desk.

The Center for Student Involvement and Leadership (CSIL) oversees Greek life, clubs and organizations, campus activities, leadership and multicultural programs. CSIL offices are located near the clock tower entrance of the SMC. Student organization offices that are located inside of the SMC include the Student Senate, University Activities Board, Society of Latino Affairs, Allies, Black Student Union, WIXQ campus radio station, Touchstone Yearbook and *The Snapper* newspaper. The Vice President of Student Affairs suite is located in the SMC towards the center portion of the building.

The Business Office is located on the main level of the SMC. This area houses the banking services for registered student organizations. Personal checks up to \$50 can be cashed with a valid MU ID card. This office also exchanges cash for change needed for laundry machines.

Located towards the center of the building, The Galley serves as both a cafeteria and a grab-and-go. This popular dining and gathering area features salads, sandwiches, cheesesteaks, hamburgers, pastas and pizza.

Located towards the center of the building, the Ticket Office provides ticket sales services to Millersville University departments, offices, local community, and student clubs and organizations. Here you can purchase tickets for all ticketed events, athletic events and ticket plans, and receive commencement ticket information.

The Technical Operations office is located in the SMC lower level. Technical operations specializes in audio, video, lighting and other electronic support for campus functions. Meetings, conferences, lectures, cultural affairs and concerts are just a few of the events serviced by the technical operations department.

Towards the center of the SMC is the PSECU e-Center. PSECU is a member-owned, self-service provider of financial services, including checking and savings accounts. Millersville University students may set up a bank account at the e-Center inside of the SMC. There are also several PSECU ATMs located on campus, including inside of the SMC.

The Fitness Center offers a top-of-the-line facility designed to meet the fitness needs of students, faculty, staff and alumni. The facility also provides a diverse selection of workout equipment, along with an indoor track, three basketball courts, a multiuse court and two racquetball courts. The fitness center also provides group fitness classes and personal training.

The University Store is located in the northern end of the SMC. A large selection of imprinted campus apparel, art supplies and materials required for classes is located on the upper level. The store also offers store gift cards, postage stamps, computer accessories, a variety of greeting cards and a wide selection of gift items. Buy or rent your text books from the Textbook Room located in the lower level. The Copy Shop services include copies service, fax service, lamination and binding/poster printing.

VETERANS

Millersville is approved to offer training to veterans under Title 38, United States Code, Section 3675, under the following: Chapter 30—Montgomery G.I. Bill; Chapter 31—Vocational Rehabilitation (Disabled Veterans); Chapter 32—Post-Vietnam Era Veterans; Chapter 33—Post-9/11 Era Veterans; Chapter 35—War Orphans and Widows Educational Assistance Act; and Chapters 1606 and 1607—Selected Reserves. For further information, contact the Veterans Resource Center, Mercer House, 717-871-4343 or vrc@millersville.edu.

SPECIAL FEATURES AND RESOURCES

ART GALLERIES

The Winter Visual and Performing Arts Center Gallery and Sykes Gallery each feature significant exhibitions of professional artists of national and international stature. Swift Gallery displays both undergraduate and graduate student artwork. Sykes and Swift galleries are housed in Breidenstine Hall. Contact the art department, 717-871-7249, for further information.

CULTURAL EVENTS SERIES

The Cultural Affairs Committee's mission is to bring to Millersville University's campus both enriching and entertaining programs that broaden the visual and performing arts experiences of our students and the Millersville community. It is the committee's goal to provide cultural offerings that reinforce the importance of the arts in the development of a well-rounded individual and a civil society. Although the series varies from year to year, varied types of performing arts are included. Call 717-871-5802 for further information.

LIBRARY

The Francine G. McNairy Library & Learning Forum is a learner-centered hub for the University community, dedicated to educating, inspiring and connecting people with ideas, information and each other. Librarians and information professionals are available to assist students with research, information literacy and accessing information resources appropriate for their studies. Students and members of the University community can access library resources by visiting the library or at www.library.millersville.edu. Library collections include electronic journals, databases, streaming video and eBooks, as well as physical collections of books, films curriculum, and archives and special collections — a repository for unique historical documents and records focused on the University and local region. The library features state-of-the-art facilities for research and learning, such as the Digital Learning Studio, where students can seek assistance with digital content creation, 3D printing and other current technologies. Students, faculty, staff and administrators can use flexible spaces for group and individual study and meetings.

In addition, the Francine G. McNairy Library & Learning Forum is home to the Writing Center Annex, Office of Sponsored Programs and Research Administration, the Instructional Technologies and Support Team, the Center for Academic Excellence, the Coordinator of General Education, the Career and Life Studies office and the Starbucks Café.

THE WARE CENTER

Situated in the heart of the arts district, the Ware Center serves as a satellite campus for Millersville University. The Ware Center is Millersville University's premier performing arts center, where several undergraduate and graduate courses are offered. Students enrolled in courses at the Ware Center are able to experience Lancaster's charm, history and culture while visiting unique shops and eateries. Classes are held during the evening, with parking conveniently located at no charge to students. The Ware Center provides a distinctive learning experience, with technology-enhanced classrooms, a computer lab, vending machines and comfortable study spaces. Noncredit adult learning courses are also offered at the site during the day.

ORGANIZATIONS

GRADUATE STUDENT ORGANIZATION (GSO)

The purpose of this association is to provide a forum for academic and social interests. The GSA has representatives on the Faculty Senate, the Graduate Course and Program Review Committee, and other administrative, advisory or policy-making bodies of the University. All graduate students, regardless of degree status, are automatically members of the GSA and are encouraged to hold offices and participate in the activities of the association. For further information, visit www.millersville.edu/graduate/current-student-resources/graduate-student-organization-gso.php, or contact the College of Graduate Studies and Adult Learning at 717-871-4723.

GRADUATE STUDENT AMBASSADORS

The College of Graduate Studies and Adult Learning seeks graduate students interested in volunteering their time as Graduate Student Ambassadors. The ambassadors talk and interact with prospective students to answer questions, provide one-on-one tours, serve as the face and voice of their programs, and assist with various events such as commencement, graduate orientations and open houses. Participation is based on an as-available basis. For further information, contact the College of Graduate Studies and Adult Learning at 717-871-4723.

ROUTES TO MILLERSVILLE UNIVERSITY

DIRECTIONS TO THE CAMPUS

FROM BALTIMORE AND SOUTH:

Take Route I-83 north to Route 30 east. Then follow "From Route 30."

FROM HARRISBURG AND WEST:

Take Route 283 east to exit for Route 741 east. Then follow "From Route 30."

FROM THE PENNSYLVANIA TURNPIKE, TRAVELING EAST:

Take Exit 19/247 (Harrisburg East) onto Route 283 east. From Route 283, take exit for Route 741 east. For about five miles, follow Route 741 east (the name Rohrerstown Road will change to Millersville Road), then turn right at the light at Route 999. Follow "Almost There."

FROM THE PENNSYLVANIA TURNPIKE, TRAVELING WEST:

Take Exit 21/286 (Reading/Lancaster) and follow Route 222 south to Route 30 west. Then follow "From Route 30."

FROM ROUTE 222 SOUTH:

Take the exit for Route 30 west, then follow "From Route 30."

FROM ROUTE 30:

Take the exit for Route 741 east. Follow Route 741 east (the name Rohrerstown Road will change to Millersville Road). About four miles beyond Route 30, turn right at the light onto Route 999. Follow "Almost There."

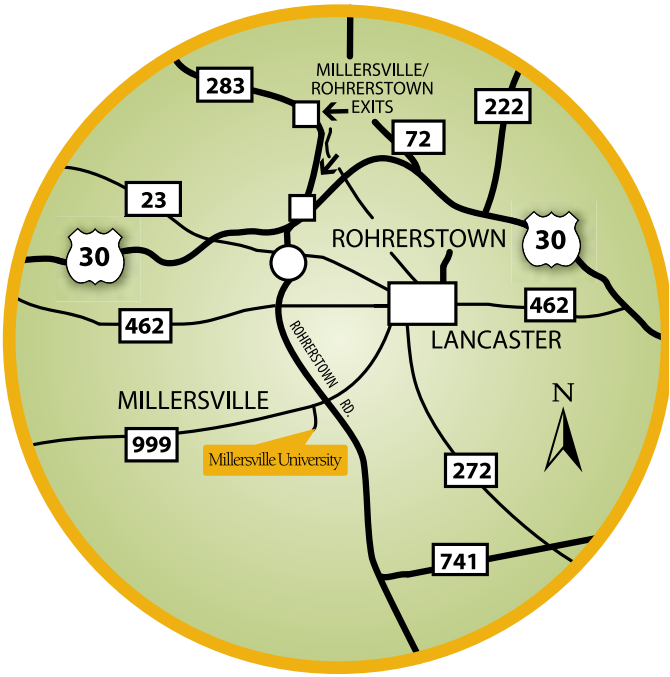
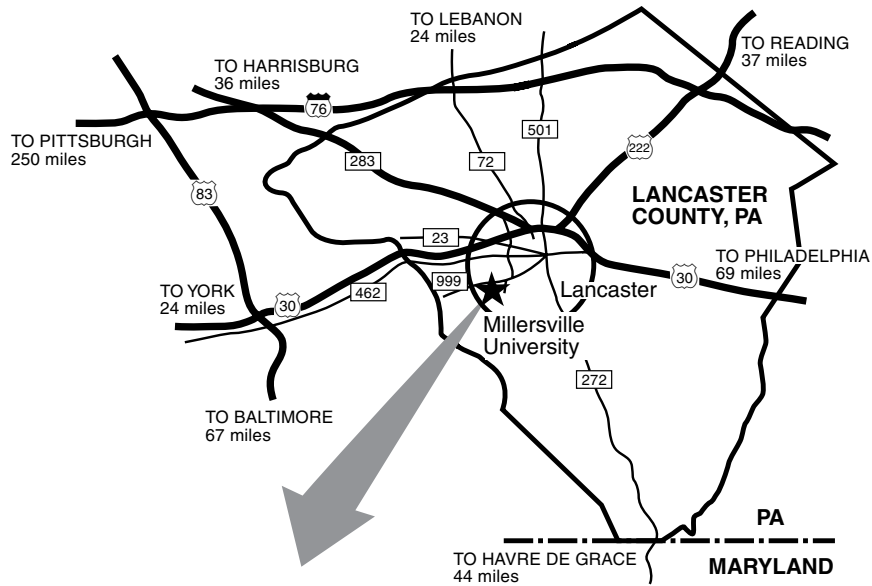
FROM LANCASTER CITY:

Go west on Orange Street, turn left on Charlotte Street and then bear right onto Manor Street. It will become Route 999 (Manor Avenue). When you cross Route 741 (Millersville Road), follow "Almost There."

ALMOST THERE:

At the third traffic light (after Route 741), turn left onto George Street. After you cross West Cottage Ave., you will be on the campus.

REGIONAL MAPS





Unless otherwise noted, telephone numbers shown in this catalog are within the 717 area code.

A graduate catalog is published every year by the Millersville University of Pennsylvania Council of Trustees. This document at www.millersville.edu provides announcements for the 2019-2020 academic year. The catalog is for informational purposes only and does not constitute a contract. The provisions of this catalog are not intended to create any substantive rights beyond those created by the laws and constitutions of the United States and the Commonwealth of Pennsylvania. They are not intended to create, in and of themselves, any cause of action against the State System of Higher Education, the Board of Governors, the Chancellor, an individual, President or University, or any other officer, agency, agent or employee of the State System of Higher Education.

Information contained herein was current at the time of publication. Courses and programs may be revised; faculty lists and other information are subject to change without notice; course frequency is dependent on faculty availability. Not all courses are necessarily offered each session of each year. Individual departments should be consulted for the most current information.

**A member of Pennsylvania's
State System of Higher Education.**

All requests to Millersville University of Pennsylvania under the Right-to-Know Law must be submitted in writing to:
Agency Open Records Officer
Millersville University of Pennsylvania
P.O. Box 1002
Millersville, PA 17551-0302
Phone: 717-871-7551
Fax: 717-871-5050
Email: agencyopenrecords@millersville.edu

Millersville University does not discriminate on the basis of race, color, religion, national origin, ancestry, sex, age, or disability in admission or access to, or treatment or employment in, its programs and activities. This includes Title VI of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, and the Americans with Disabilities Act of 1990.

Coordinators: Services for Students with Disabilities—Dr. Sherlynn Bessick, Director, Office of Learning Services, Lyle Hall, 717-871-5554; Title VI and Title IX—Elizabeth Swantek, Office of the Vice President of Student Affairs and Enrollment Management, Student Memorial Center, 717-871-4100; ADA Coordinator—Mr. Patrick Weidinger, Director of Safety and Environmental Health, Dilworth Building, 717-871-4240.

Policy on Auxiliary Aids

Millersville University does not discriminate on the basis of disability status in admission or access to its programs and activities. Individuals are encouraged to make the University aware of any permanent or temporary disability. Arrangements will be made to secure auxiliary aids and services, when necessary, to ensure that such students are not denied the benefits of, excluded from participation in, or otherwise subjected to discrimination under programs and/or activities at Millersville University. This policy extends to full-time, part-time and nondegree students, and students enrolled in both credit and noncredit courses.

A Member of Pennsylvania's State System of Higher Education.

Millersville University

COLLEGE OF GRADUATE STUDIES
AND ADULT LEARNING

www.millersville.edu/graduate

**COLLEGE OF GRADUATE STUDIES
AND ADULT LEARNING**

Millersville University
P.O. Box 1002
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Millersville University is an Equal Opportunity/Affirmative Action institution.
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