

Graduate Catalog 2010-11



SHENANDOAH
UNIVERSITY

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Mission

Shenandoah University educates and inspires individuals to be critical, reflective thinkers; lifelong learners; and ethical, compassionate citizens who are committed to making responsible contributions within a community, a nation and the world.

Core Values

Development of an enduring passion for learning

Commitment to self-reflection and personal development

Respect for diverse cultures, experiences and perspectives

Celebration of creative performance, expression, teaching and discovery

Cultivation of leadership to advance positive change and growth

Dedication to citizenship, professional service and global outreach

Foundation

Shenandoah University distinguishes itself by providing opportunities to gain knowledge and develop skills in a collaborative, personalized environment that intertwines professional and liberal learning. A Shenandoah education incorporates scholarship, experiential learning and sophisticated technologies, as well as practical wisdom.

As an institution affiliated with the United Methodist Church, Shenandoah University practices the highest ethical standards in its interactions with the community and with students of all faiths. Within a community of scholars, Shenandoah promotes the welfare of the whole person by fostering a nurturing environment in which students learn, grow and flourish.

This catalog is a source of general information and does not constitute an irrevocable contract between Shenandoah University and any person. Every effort has been made to ensure the accuracy and completeness of this catalog; however, Shenandoah University reserves the right to make necessary changes to the provisions and policies of this catalog at any time. All such changes are effective at such time as determined by Shenandoah University and may apply to all prospective and matriculated students. Every effort will be made to minimize the inconvenience such changes might create for students.

Shenandoah University does not discriminate on the basis of sex, race, color, religion, national or ethnic origin, age, physical or mental disability, veteran status or sexual orientation.

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GENERAL INFORMATION

Shenandoah University is a private, coeducational school offering both a broad liberal arts program and an emphasis on career preparation. Six schools — The Bernard J. Dunn School of Pharmacy, College of Arts & Sciences, Harry F. Byrd, Jr. School of Business, School of Education & Human Development, School of Health Professions (Divisions of Athletic Training, Nursing, Occupational Therapy, Physical Therapy, Physician Assistant Studies and Respiratory Care) and Shenandoah Conservatory — to award baccalaureate, master and doctoral degrees.

Northern Virginia Campus

44160 Scholar Plaza, Leesburg, VA
(571) 223-0238, www.su.edu/nvcampus

For two decades, Shenandoah University has operated a campus in Northern Virginia. The current site specializes in graduate study in teacher and school administration education and nursing.

Accreditation

Shenandoah University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, master and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of Shenandoah University.

Accreditation Council for Occupational Therapy Education

Accreditation Council for Pharmacy Education

Accreditation Review Commission on Education for the Physician Assistant, Inc.

American College of Nurse-Midwives Division of Accreditation

American Music Therapy Association

AACSB, International – The Association to Advance Collegiate Schools of Business International

Commission on Accreditation in Physical Therapy Education

Commission on Accreditation of Athletic Training Education

Commission on Collegiate Nursing Education

Committee on Accreditation for Respiratory Care

National Association of Independent Colleges and Universities

National Association of Schools of Music

State Council of Higher Education for Virginia

Teacher Education Accreditation Council

University Senate of the United Methodist Church

Virginia Board of Nursing

Virginia Department of Education

and other appropriate associations and agencies

**ACNM – 8403 Colesville Road, Suite 1550, Silver Spring, MD 20910-6374; (240) 485-1800; www.acnm.org*

Federal Law Compliance Annual Disclosure

In compliance with federal law, Shenandoah University makes annual disclosure of the following:

1. **Campus Security Report.** This report is available on the Shenandoah University Web site and the Department of Public Safety Web site, in the annual Student Handbook, and in the Human Resources and Admissions offices.
2. **Financial Assistance.** This information includes, but not limited to, a description of all federal, state, local, private and institutional student financial assistance programs. The information is available in both of the university's catalogs and in the Financial Aid Office.
3. **Institutional Information.** The reports and information include, but are not limited to, cost of attendance (tuition and fees, estimates of costs for books and supplies, estimates of charges for room and board, estimates of transportation costs and any additional program costs); refund policy; requirements or procedures for officially withdrawing from the university; summary of regulations for the return of Title IV grant or loan assistance; the institution's academic programs, names of associations, agencies, or governmental bodies that accredit, approve, or license the institution and its programs; description of any special facilities and services available to disabled students, names, titles and contact information for designated persons; a statement regarding student enrollment in study abroad programs; and location of documents describing the institutions accreditation, approval or licensing. Reports and information are available in the Business Office, Financial Aid Office, Human Resources Office, Academic Affairs Office, Registrar's Office and the Academic Enrichment Center.
5. **Completion and Graduation Rates.** This information is available in the Academic Enrichment Center.
6. **Athletic Program Participation and Financial Support Data.** This report/information is available in the Office of Athletics and the Academic Enrichment Center.

ADMISSIONS

Application

Upon request, the Office of Admissions will forward official graduate application materials. Every applicant who wishes to undertake graduate study at Shenandoah, whether in a regular degree program or otherwise, must make formal application for admission.

Shenandoah University's application process offers two options. The Graduate Application for Admission is for degree-seeking students and requires a \$30 application fee for most programs. The fee is waived for students applying through the Centralized Application Service for Physician Assistants (CASPA) and through the Physical Therapy Centralized Application Service (PTCAS). The Visiting Student Application is for non-degree-seeking students interested in special programs, continuing education or special class(es) and requires a \$20 application fee. The application fees are not credited to tuition and fees and are non-refundable.

Unless otherwise stated in specific program descriptions, one copy of all official transcripts is required from each institution of higher learning attended by the applicant. See the program descriptions in this catalog for individual program requirements. Transcripts must be sent by the college(s) directly to the dean of admissions. Credentials submitted by the applicant are not considered official.

Applicants must submit official transcripts from all colleges and/or universities attended and must have a bachelor's degree from a regionally accredited college and/or university. Exceptions to the bachelor's degree requirement are for the following programs:

1. Occupational Therapy
2. Pharmacy
3. RN-MSN
4. Athletic Training

For these programs, all required prerequisite course work must be completed at a regionally accredited college and/or university. For programs requiring a master's degree for entry, that degree must be from a regionally accredited institution.

Each graduate degree program may have additional application requirements. See specific program descriptions in this catalog. All application processing for the Physician Assistant Studies program is through the Central Application Service for Physician Assistants (CASPA) at www.caspaonline.org. All application processing for the Pharmacy program is through the Pharmacy College Application Service (PharmCAS) at www.pharmacas.org. All application processing for the Physical Therapy program is through Physical Therapy Centralized Application Service at www.ptcas.org. Although these applications are processed differently and do not all require the SU application fee, they are held to the same standards as Shenandoah University's other graduate programs. All application materials submitted become property of the university and cannot be released back to the student.

Program Application Deadline

Each graduate degree program may have its own application deadline. For programs without a specific deadline, applications are considered on a first-come, first-served basis. It is advisable to apply well before the beginning of each semester.

Applications to Programs without Deadlines

An application file is not considered complete until the application, official transcripts, and any supporting documentation are received. No action will be taken on an incomplete file. The letter of acceptance to graduate study will be considered valid for a maximum of one semester. An accepted student may defer enrollment for up to one year by written notification to the Office of Admissions, requesting a new entry date. Deferred enrollment is subject to the admission requirements in force at the time the initial decision was made and is predicated upon the fact that the student will not enroll at another institution before enrolling at Shenandoah University. Following a deferment request, a new decision letter will be issued. A student who enrolls at another institution before enrolling at Shenandoah University must submit new application materials.

Applications to Programs with Deadlines

Applications are not considered for admission until the application fee and all required documentation have been received. See specific program descriptions in this catalog for a list of the required documentation. No action will be taken on an incomplete file. Applicants will be notified of the admission decision immediately after the Admissions Committee has reviewed all applications and final class selections have been made. Please note that some programs may fill their available seats prior to the admissions deadline. It is advisable to complete the application process well before the deadline.

Admissions Decisions

All graduate applications for admission are reviewed by the appropriate faculty committee. Once a decision is reached, the Office of Admissions will communicate it via postal mail. Decisions will not be conveyed through any other method, including telephone or e-mail.

Advance Tuition Deposit

Dates by which applicants must submit an advance tuition deposit, if required, will be stipulated in the letter of acceptance and vary depending on the time of year the offer of acceptance is granted. The amount of the advance tuition deposit will vary by program and will also be stipulated in the letter of acceptance. For those students who wish to reside in university-provided housing, an additional \$100 housing deposit is required. Upon receipt of the advance tuition deposit by the Accounts Receivable Office, signifying acceptance of Shenandoah's offer of admission, the appropriate office will send orientation and registration information. Residential students will be confirmed for university-provided housing on a space-available basis in order of receipt of the tuition deposit. Cancellation and refund requests must be made in writing to the Office of Admissions. For programs that do not require an advance tuition deposit, accepted applicants must submit written verification of their intent to enroll. The verification letter should be sent to the dean of admissions.

Admission of Transfer Students

Applicants who have attended other accredited institutions of post-secondary education may be admitted as transfer students upon presentation, to the Office of Admissions, of the listed items below. An applicant who intends to enter as a transfer student must request the necessary forms from the Office of Admissions.

1. All transfer applicants must submit a Graduate Application for Admission and a \$30 application fee, in addition to completing all the additional program requirements. For all requirements, please refer to the individual academic departments in this catalog. The application fee is not credited to tuition and fees.
2. Transfer applicants must submit evidence of good social and academic standing at the college last attended. It is the responsibility of the transfer applicant to have official transcripts of all academic work and evidence of honorable dismissal forwarded directly to the Office of Admissions. Credentials submitted by the applicant are not considered official. For admission as a transfer student without qualification, the applicant must be in good standing and eligible to return to his/her former institution. Any other special admissions shall be considered probationary and shall be governed by all restrictions associated with that classification.
3. Course work completed at another institution will be evaluated by the appropriate academic department to determine transfer credit. For more detailed information see Transfer Credit under the Academic Policies section of this catalog.

Candidates for admission as transfer students who have been suspended from other institutions shall not be considered for admission until they have been out of college for a period of one regular academic semester.

Shenandoah University grants transfer credit based on the policy headed Transfer Credit in the Academic Policies section of this catalog.

Readmission of Former Students

Former students seeking readmission must submit the Graduate Application for Admission to the Office of Admissions. A non-refundable application fee of \$30 must be submitted by a check or money order payable to Shenandoah University. The application fee is not credited to tuition and fees. Additionally, students may be required to submit new supplemental application materials. Please consult the Office of Admissions for specific requirements.

Former students who were in good academic and good social standing may be readmitted upon completion of the appropriate forms. Former students, however, may be denied readmission on the basis of an outstanding and/or unresolved debt to Shenandoah University.

Former students who were not in good academic or good social standing may be readmitted only upon completion of the appropriate forms in the Office of Admissions, and approval by the appropriate academic office, the Student Programs Office and the Admissions Evaluation Committee.

Admission of International Students

International student applicants must meet the following requirements:

1. Send completed “Graduate Application for Admission” and “Supplemental Application for International Students” forms and a \$30 non-refundable application fee to the Shenandoah University Office of Admissions. The application form must be signed by the applicant (and a parent or guardian if the applicant is under 18 years of age). The application fee must be paid in U.S. currency by check, money order, or wire transfer made payable to Shenandoah University.
2. Applicants must ask their former post-secondary institution(s) to send an official transcript directly to Shenandoah University’s Office of Admissions. If an institution is unable to send original documents, the applicant must have an appropriate school official certify that the copy is an official copy with a stamp and signature. All transcripts must be received in unopened envelopes that have been stamped or signed by an authority at the sending institution across the envelope seal. If records are not in English, the applicant must include a certified translation.
3. All transcripts from countries outside the United States must also be evaluated by an academic credential evaluation company to obtain equivalency information on courses, grades and degrees earned. An English translation will not be accepted in place of an academic credential evaluation. Applicants may make arrangements to have an evaluation completed with any of the providers listed at www.naces.org. All associated fees are the responsibility of the applicant.
4. Conservatory applicants in selected programs of study may complete specific audition requirements by submitting an audio or video tape, if travel to the Winchester campus or a regional audition site is not feasible.
5. English Language Proficiency Requirements for:

Regular (Unconditional) Admission of Non-Native English Speakers (NNES) Graduate Students

Graduate students may be granted unconditional admission to Shenandoah University by satisfying the English language proficiency requirements in any one of the following ways. The date of taking standardized tests should not be more than 12 months prior to the date of enrollment.

- a. Test of English as a Foreign Language (TOEFL). Paper-based test score of 550 or higher; Internet-based test score of 79 or higher; computer-based test score of 213 or higher. Admission to the TESOL program requires a paper-based TOEFL score of 600, Internet-based test score of 100 or a computer-based score of 250.
- b. The Sakae Institute of Study Abroad (SISA) test score of 550 or higher.
- c. International English Language Testing System (IELTS) minimum overall band score of 6.5.
- d. Successful completion of at least two years of full-time study at a post-secondary educational institution in a country where English is the language of instruction.

Entering students who meet the Shenandoah University's English language proficiency requirement as outlined above are not required to enroll in ESL courses. Such students may elect ESL study to improve their English language skills.

Provisional Admission of Non-Native English Speakers Graduate Students

Graduate students with scores in the following ranges may be granted provisional admission and begin their graduate programs.

- a. TOEFL or SISA paper-based test score of 525 to 547; TOEFL Internet-based test score of 70 to 78; computer-based test score of 195 to 210.
- b. IELTS overall band scores between 6.0 and 6.5.

Applicants admitted provisionally must enroll for at least six hours of ESL each semester until they achieve the level of English proficiency required by their program of study or until they have obtained a grade of "B" or higher in ESL course work at the 106 level or above.

The following ranges indicate how many ESL credits, along with graduate credits within their program, admitted students may expect to take:

TOEFL Paper/TOEFL IBT/IELTS	ESL Credits	Course Work Credits
397 to 499/30 to 60/3 to 5	12	none
500 to 525/61 to 70/5.5 to 6	6	3
526 to 549/71 to 78/6	6	3 to 6

Entering graduate students who do not meet the minimum requirements specified above may be admitted only to the English as a Second Language Certificate until reaching the levels specified for provisional admission to a graduate program.

Graduate students must meet all ESL requirements within one calendar year of initial enrollment at Shenandoah University or prior to graduation, whichever comes first. Failure to meet this requirement may result in suspension from the university. Specific guidelines for completing ESL requirements may be obtained from the ESL department.

6. Applicants must submit all other supporting documentation specified for admission to the particular program of study.
7. To be eligible to receive a SEVIS I-20 form from Shenandoah, applicants must send financial documentation explaining how they plan to cover their educational and living expenses while a student at Shenandoah. To document financial resources, applicants may complete the Supplemental Application for International Students and include support materials as indicated. Once an application is accepted and finances documented, applicants will be issued a SEVIS I-20 form which is needed to apply for an F-1 student visa.

It is extremely important that international students receive their F-1 visa from the U.S. Consulate Office in their native country prior to their arrival in the United States. Inquiries regarding financial aid should be directed to the university's Financial Aid Office. Financial aid for international students is extremely limited since federal and state

sources are unavailable. International students should seek to obtain educational funds from their native country and should not rely on aid being available from Shenandoah University.

Admission of Certificate Students

Applicants for admission as a certificate student are those interested in obtaining training in a specific area that is recognized by the awarding of a certificate rather than a degree. Certificate programs are academic programs. Generally, a certificate student is enrolled on a part-time basis.

Certificate applicants must complete and submit the Graduate Application for Admission directly to the Office of Admissions. A non-refundable application fee of \$30 must be submitted by a check or money order payable to Shenandoah University. The application fee is not credited to tuition and fees.

Certificate applicants must submit official transcripts from all colleges and/or universities attended and must have a bachelor's degree from an accredited college and/or university. Certificate students are held to the same academic standards and viewed in the same way as students enrolled in degree programs.

Certificate students are eligible for limited types of financial aid.

Admission of Visiting Students

Applicants for admission as visiting students are most often individuals who are interested not in a degree but in a specific course, or students at other institutions who will earn credits to transfer back to their own institutions. Generally, a visiting student is enrolled on a part-time basis.

Visiting students, though not enrolled in a certificate or degree program at Shenandoah University, are held to the same academic standards and viewed in the same way as students who are enrolled in a certificate or degree program.

Occasionally, a visiting student will later apply for admission as a degree-seeking student. In that case, the regular admission procedure is followed. Once enrolled as a visiting student, a student cannot change their status in that semester. Not more than 15 graduate credit hours earned as a visiting student may be applied toward a graduate certificate or graduate degree program.

Visiting students are not eligible for financial aid. Applicants seeking admission as visiting students fill out the Visiting Student Application. The application must be submitted directly to the Office of the Registrar. A non-refundable application fee of \$20 must be submitted by a check or money order payable to Shenandoah University. The application fee is not credited to tuition and fees.

Admission of Undergraduate Students

Students within 30 hours of completing their baccalaureate degree and with at least a 3.0 grade point average, with the consent of the school dean and instructor(s) involved, may register for up to six graduate credits. These credits are acceptable to fulfill the requirements of the undergraduate or graduate degree, but may not be counted for both graduate and undergraduate degrees.

Summer Session Admission

Application to a summer session is the same as that required for regular admission. Individual programs may have additional application requirements.

Types of Acceptance Decisions

At the discretion of the dean of admissions, applicants who meet all admissions criteria may receive a standard acceptance or a provisional acceptance as students to Shenandoah, and will be classified as 1) degree or non-degree seeking students, and 2) as full-time or part-time students.

Standard Acceptance

A standard acceptance is issued to an acceptable applicant who has submitted all required documentation for admission.

Provisional Acceptance

At the discretion of the dean of admissions, an acceptable applicant who has submitted a majority of the required documentation may be provisionally accepted. An applicant who has been provisionally accepted may have up to one regular semester to submit the documentation or to complete the provisions as stipulated in the applicant's acceptance letter. Specific deadline dates are stipulated in the letter of acceptance. Any provisionally accepted student who fails to submit the documentation or to complete the stipulated provisions will not be permitted to register for the next semester.

Accepted and provisionally accepted students are admitted in one of the following categories:

1. Admission in good standing
2. Admission in conditional standing

Admission in Good Standing

An applicant who presents an acceptable academic record, acceptable test scores and a satisfactory audition or interview (when applicable) is admitted in good standing. Such students may enroll in a full program of study as outlined in the catalog.

Admission in Conditional Standing

If the previous collegiate record of an applicant is slightly below the standards for regular admission, but personal recommendations, test scores, audition or interview (when applicable) seem to indicate a probability of success at the graduate level, a student may be admitted in conditional standing. Students admitted conditionally have specific conditions, identified by the Graduate Admissions Committee, which must be satisfied prior to enrolling for subsequent semesters. Students admitted conditionally may take longer to complete their academic program because of this restriction. The student's academic achievement will be governed by the university's policy on academic standing. See Academic Standing in the Academic Policies section of this catalog.

Admission Requirements for All Candidates for Teacher Licensure

State Requirements for Teacher Licensure

Students preparing to be teachers are expected to meet the requirements for teacher licensure currently in effect in the Commonwealth of Virginia. Most states grant teaching licensure on a reciprocal basis when the educating institution is approved by its own state department of education or when graduates of an institution are eligible for teaching licensure in the state in which they were educated. Teacher education programs at Shenandoah University are approved programs of the Virginia State Board of Education, and graduates will have met all educational requirements for Virginia licensure.

Statement Regarding Professional Assessments

The university's Academic Enrichment Center assists students with preparation for PRAXIS exams by providing study materials, help sessions and access to a computer tutorial software program. This assistance is also extended to alumni.

ACADEMIC POLICIES

Matriculation

The Office of the Registrar directs and coordinates matriculation of all students, but the courses selected by the student are conditioned by academic programs and regulations.

Criminal Background Check Policy

Students who will have an experiential learning component required as part of their degree programs must authorize, submit to and pay for a criminal background check prior to entering the program, and in some circumstances, on an annual schedule after admission. Some programs also require a urine drug screen in order to participate in field work, clinical experiences or internships. Details are available from each school/division and dean/director.

Registration

General dates and times for registration are published online in advance by the Registrar. Shenandoah University reserves the right to void the registration of any student who fails to comply with registration instructions or fails to pay the prescribed tuition and fees.

Course Prerequisites

Before beginning a course, a student is expected to have fulfilled the appropriate prerequisites. A student who has not met the prerequisites may be denied registration or be un-enrolled.

Change in Registration

Students wishing to drop or add a course may do so either online or by completing a Schedule Adjustment Form available from the Office of the Registrar. The effective date for any change in registration is the date completed on-line or noted on the Schedule Adjustment Form received in the Office of the Registrar.

Adding a Course

For courses scheduled for an entire term of 14 or more weeks: Students may add individual courses for the first six calendar days after the beginning of the term.

For courses scheduled for less than 14 weeks: Students may add individual courses up to the point at which ten percent of the total class meeting time has occurred.

Dropping a Course

For courses scheduled for an entire term of 14 or more weeks: Students may drop individual courses without record for the first six calendar days after the beginning of the term.

For courses scheduled for less than 14 weeks: Students may drop individual courses without record up to the point at which ten percent of the total class meeting time has occurred.

Repeating Courses

A student may repeat a course a maximum of two times. A student who does not satisfactorily complete a required course after three attempts may be subject to academic dismissal. Students are advised to check the policies applicable to each specific program. Individual programs can further limit the number of attempts a student may make. An attempt is defined as any continued enrollment of a student in a course beyond the add-drop period. Attempts include achieving any final grade in a course or withdrawal from a course.

All course grades will be recorded on the student's permanent record. The credits and quality points resulting from the student's most recent attempt will be used to compute the student's cumulative grade point average.

Students may not repeat a course after the applicable degree has been awarded.

Continuous Enrollment in Graduate Curricula

Objectives

1. To maintain contact with graduate students during periods of non-enrollment.
2. To keep graduate student enrollment figures included in the fall and spring semester enrollment records.
3. To recognize that graduate students often receive guidance from faculty and staff during periods of non-enrollment.

I. Course Work Phase

Once accepted into a graduate curriculum at Shenandoah University, students who are not already registered for classes each fall and spring semester are enrolled in a non-credit "Graduate Registration Continuation." The registration is automatically entered in the Office of the Registrar by the dean (or designee) of each program.

There will be no charge for this graduate registration continuation, or if a fee is charged, it will be supported by a "scholarship."

There will be a separate "Graduate Registration Continuation" course for each school. Each school may establish separate sections for various curricula.

The content of the "Graduate Registration Continuation" will consist of a single mailing, sent to each student who is not registered for that term by their school, which includes:

1. Notification that the student is enrolled in "Graduate Registration Continuation."
2. A return reply card which:
 - Acknowledges the registration;
 - Offers a withdraw from school option for the student who does not plan to continue in the curriculum;
 - Informs the student that failure to return the reply card will result in an unsatisfactory grade for that term, and termination from the curriculum for subsequent semesters. Reapplication will be required to re-enter the curriculum.

3. Whatever program information/announcements that the school wishes to distribute.

When the student returns the reply card, a grade of “S” or “P” is recorded.

“Graduate Registration Continuation” does not apply to “visiting” students who are not enrolled in a curriculum.

II. Culminating Project Phase

1. Once the student reaches the final project phase of the curriculum, identified as the first registration in thesis or other culminating project (referenced hereafter as thesis), the student is subject to continuous registration with credit.
2. After the initial registration for thesis, the student must register and pay for at least one semester credit of thesis every fall and spring semester until the thesis is completed.
3. The student normally does this registration under the guidance of the advisor. If the student does not register him/herself, the registration is automatically entered in the Office of the Registrar by the dean/director (or designee) of each school/division. The student is billed.
4. The student receives a grade of “IR” indicating “incomplete research” or “research in progress.” When the thesis is completed, grades of “IR” are replaced with the final grade up to the number of credits for thesis required in the curriculum.
5. Grades for credits in addition to the curriculum maximum will be replaced with an “S” and not computed in the grade point average.
6. The student who does not plan to finish the project must officially withdraw from Shenandoah University to avoid future registrations (and subsequent billing).

Withdrawal from a Course

A student may drop a course during the drop/add period without any reference on the transcript.

Students may withdraw from individual classes with the permission of the advisor and receive a grade of “W” that will appear on the student’s transcript but will not be computed in the quality point average. The withdrawal period will end 14 calendar days prior the beginning of the final examination period.

After the withdrawal period, the student may not withdraw from a course for any reason related to academic performance. This Withdrawal from a Course policy appears in the university’s catalogs and the Faculty and Student Handbooks.

Dates of the withdrawal period will appear in the university’s Academic Calendar and Registration Schedule.

This policy should be implemented in conjunction with the progression policies of individual schools and divisions within the university.

Withdrawal from the University

Students who withdraw from Shenandoah University must complete a Withdrawal/Leave of Absence Form in the Academic Enrichment Center. Students must settle unpaid accounts in the Business Office, return materials and pay fines to the library, and, if a boarder, leave the dormitory room in acceptable condition and return the dormitory room key to the Student Affairs Office.

Students in good social and academic standing who withdraw from the university for no more than three consecutive terms (12 calendar months) are not required to reapply, but may register for courses following normal procedures.

Students who withdraw from the university for more than three consecutive terms (12 calendar months) and wish to return must re-apply for admission.

Auditing a Course

Students may enroll in courses as auditors on a space available basis during the time period between close of registration and the beginning of the class. Students may not enroll in classes at audit fee levels when the class is offered on a special fee basis.

Permission to audit a class is granted by the school/division dean/director.

The audited course will not be used in determining the student's full-time or part-time enrollment status for the semester.

A change in status from audit to credit cannot be made after the sixth calendar day of a semester.

Auditing students may attend class; engage in discussion at a reasonable level; participate in field trips, concerts, etc.; submit work for evaluation and take examinations. Auditing students must meet course prerequisites. Auditing students do not receive background instruction in prerequisite areas, outside coaching or project advising.

Students may not enroll as auditors in applied music or any other form of independent or individual instruction.

Transfer Credit

Shenandoah University grants transfer credit based on the content of the courses taken, the applicability of the courses to the student's intended degree and major program, and the quality of performance in the courses.

Only credit granted at an institution of higher education that has been fully accredited by one of the six regional accrediting agencies, such as Southern Association of Colleges and Schools, or at an institution that is a recognized candidate for accreditation will be considered for transfer credit.

Courses will be considered for transfer only if they are applicable to a student's degree program as a requirement or an elective.

Transfer credit will be considered for courses applicable to Shenandoah University programs and in which a grade of "C-" or better has been earned.

A maximum of nine semester hours may be accepted in transfer to most master level programs (exceptions: 15 semester hour transfer maximum for the Master of Fine Arts

program which is a 60 semester credit degree; six hours of transfer credit into an MBA program). A maximum of 15 may be transferred into most doctoral programs (12 hours for Conservatory doctoral programs). These semester hours are beyond the master's degree program upon which the doctorate is based.

A student who enrolls for the first time at Shenandoah receives credit for courses transferred, but grades do not transfer nor have any effect on the student's cumulative grade point average at this institution.

Both credits and grades for courses taken at other accredited institutions while a student is matriculated at Shenandoah University will transfer so long as they meet the normal criteria for transfer work ("C-" grade or better).

Credits from institutions on the quarter-hour system will be converted to semester hours using the formula of one quarter hour equals two-thirds of a semester hour. Shenandoah University grants credits for courses taken at recognized foreign tertiary-level institutions. Foreign institutions that are chartered and authorized by their respective national governments and that are recognized by the American Association of Collegiate Registrars and Admissions Officers are recognized. Credit will be awarded for courses judged to be at the "C-" grade level or above. The amount of credit granted will correspond to that given for the comparable Shenandoah University course.

Advanced Standing

Non-Collegiate-Sponsored Instruction

Students may be awarded credit for satisfactory completion of course work in the armed services, business and industry, or government agencies as recognized by the American Council on Education or the National Program on Non-collegiate Sponsored Instruction. Such credit will be regarded as transfer work and will count toward the nine-hour maximum for transfer credit at the master's degree level, 15-hour maximum at the doctoral level, except in the Conservatory where the maximum is 12 hours.

Challenge Examinations and Credit by Examination

Challenge examinations and credit by examination are not offered for graduate level courses.

Academic Advising

Academic advising is required for all degree-seeking students before registration each term. Academic advisors are provided to assist students in planning their academic programs. Academic advisors are not authorized to change established policy for the university. The student is solely responsible for assuring that his/her academic program complies with the policies and requirements of Shenandoah University. Any advice that is at variance with established policy must be confirmed in writing by the dean/director of the school/division and the senior vice president & vice president for academic affairs.

Requirements for Degrees

In addition to completing all the courses required for a certificate or degree program, all students must fulfill the following requirements:

1. Candidates for graduate degrees must fulfill the specific requirements of their curricula with a cumulative grade point average of 3.0 or higher. Professional programs vary; see specific program requirements.

2. The minimum number of semester credit hours required for a master degree is 30. Some programs, however, require more. Students must complete all required courses in addition to this minimum credit hour requirement. The minimum number of credit hours for a doctoral degree is 90 semester hours, including an approved master's degree.
3. Candidates for master's degrees must earn a minimum of 21 semester hours at Shenandoah University. Most doctoral programs require a minimum of 45 semester hours earned at SU. See program requirements for specifics.
4. A graduate student who fails two required courses may be academically dismissed from Shenandoah University.
5. No more than six credits of "C+," "C" or "C-" grades may be applied to curricular requirements at the master's level. This rule does not apply to the School of Health Professions programs.

Consult degree requirements in each school for further restrictions.

Dual Enrollment

Students who have not completed a baccalaureate degree but who are within 15 credits of completion, and who have earned a cumulative grade point average of at least 3.0, may enroll in graduate classes for which all prerequisites have been met.

Approval may be granted by the dean/director of the program school/division in which the instruction is offered when the student files a written plan that projects completion of the baccalaureate degree within 12 months and has applied for admission to a specific graduate program at Shenandoah University. All graduate credits undertaken must apply to the anticipated curriculum. Credits may be applied to either the undergraduate or graduate curriculum, but not to both.

The above policy does not apply to Shenandoah University-approved articulated seamless undergraduate-to-graduate degree programs.

Time Limit

Students should complete the master's degree requirements within six years and the doctoral degree within eight years of initial registration at Shenandoah. Some programs may require degrees to be completed in shorter amounts of time. Consult degree requirements in each school for further restrictions. Time extensions may be granted when approved by the dean/director of the student's school/division.

Non-Discrimination Policy

Shenandoah University does not discriminate on the basis of sex, race, color, religion, national or ethnic origin, age, physical or mental disability, veteran status or sexual orientation.

Student Rights

Shenandoah affirms the right of academic freedom for the university community. Freedom of assembly, freedom of the press and freedom of speech are constitutional rights. Shenandoah reserves the right to specify the time, place and manner of the exercise of these rights on university facilities. Shenandoah insists that every member of the university community abide by the laws of the United States, the Commonwealth of Virginia, and established institutional rules and regulations.

Members of the university community should be aware of the inherent responsibility of free speech and the possible consequences when free speech is used as a license to disrupt the normal academic activities of the institution. Demonstrations that disrupt normal activities of the institution will not be tolerated at Shenandoah. Any student who participates in any form of disruptive action is subject to immediate interim suspension and lawful prosecution in the courts. Shenandoah does not at any time tolerate and will not permit uninvited persons to remain on campus for the purpose of inciting students to disruptive activity. Any such person on campus will be prosecuted to the fullest extent of the law.

Students must make themselves aware of the philosophy, standards and rules of Shenandoah as contained in both the academic catalog and Student Handbook. Criticism and suggestions are always welcomed; however, threats, disturbances, force of any kind by a single student, a minority or majority will not be tolerated. The trustees, administration, faculty and student body all have the obligation to protect the rights of students to the peaceful and orderly use of its resources, personnel and facilities.

Shenandoah affirms the basic constitutional rights for all students and faculty. No student will be summarily dismissed without proof and a hearing. Each person subject to a hearing must be informed of the charges prior to that hearing. Witnesses may be called in the student's defense. Witnesses should be identified and reference should be made to the university's rule violated and the possible severity of such charges. The final authority in all hearings rests with the president as delegated to her by the board of trustees.

Shenandoah affirms the right of every person to privacy in his/her room. A student's room will only be entered for inspections or if there is reason to believe that a school regulation has been violated. Emergency inspections may be made anytime by the vice president for student affairs, the associate vice president/director of residence life and/or the director of residence life.

Shenandoah affirms the right of each student to study or practice without undue restriction or disruption. It is the responsibility of Shenandoah to provide an atmosphere within its residence halls, library and practice areas that is conducive to study.

Shenandoah believes all disruptive action should be controlled from within the Shenandoah community without involvement from outside authorities; however, if such instances should occur where outside enforcement of basic laws is necessary, local law enforcement agencies will be contacted.

Protecting Student's Privacy Rights

Annual FERPA Disclosure

Annually, Shenandoah University provides information to students concerning their rights under the Family Educational Rights and Privacy Act of 1974, as amended (FERPA). This act was designed to protect the privacy of education records and afford students certain rights with respect to their education records.

Under FERPA, students have the following rights:

1. The right to inspect and review their education records within 45 days of the day the university receives a request for access.
2. The right to request an amendment to any education records the student believes are inaccurate or misleading, and the right to request a hearing if the request to correct an alleged inaccuracy is denied.
3. The right to provide written consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent. FERPA allows schools to disclose records, without written consent, to the following parties or under the following conditions:
 - SU officials with legitimate educational interests. A school official has a legitimate interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.
 - Other schools to which a student is transferring;
 - Specified officials for audit or evaluation purposes;
 - Appropriate parties in connection with financial aid to a student;
 - Organizations conducting certain studies for or on behalf of the school;
 - Accrediting organizations;
 - To comply with a judicial order or lawfully issued subpoena;
 - Appropriate officials in cases of health and safety emergencies; and
 - State and local authorities, within a juvenile justice system, pursuant to specific state law.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by SU to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5920
Phone: 1-800-USA-LEARN (1-800-872-5327)

Education records, as defined by FERPA, include, but are not limited to:

- GPAs, transcripts, and final course grades
- admissions materials
- financial aid records
- disciplinary records
- attendance records
- academic counseling records

Shenandoah University is fully committed to protecting the privacy of student's education records.

Parental Rights Under FERPA

Parental access rights under FERPA can be summarized as follows: At the postsecondary level, parents have no inherent rights to inspect their student's educational records; the right to inspect is limited solely to the student. When a student reaches the age of 18 or begins attending a school beyond the high-school level, regardless of age, FERPA rights transfer from the parent to student. SU may release student information to parents only if:

- The student provides written consent by completing the Consent to Release Education Records form and submitting it to the Registrar's Office. This form will be kept as part of their permanent record.
- The student is claimed as a dependent for federal income tax purposes. The parent would need to provide the Registrar with a certified copy of their most recent Federal Income Tax Form verifying the student's dependency status.
- There is a health or safety emergency.
- The student is under 21 and has violated an SU rule related to alcohol or controlled substances.

Restrictions or permissions related to the sharing of educational records extend to Shenandoah alumni, as well, so any requests a student makes will remain in effect until he or she requests a change.

The information above is only a brief summary of the detailed federal law. For more information, please visit <http://www.ed.gov/legislation/FedRegister/finrule/2008-4/120908a.pdf>.

Directory Information

Under FERPA, Shenandoah may release "directory information" about students without first obtaining student's consent. Directory information is defined as information contained in an education record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. At Shenandoah, directory information includes the following:

- student name, address, telephone number and e-mail address

- date and place of birth
- participation in officially recognized activities and sports; weight and height of members of athletic teams
- major field of study, dates of attendance, degrees and awards received
- most recent previous school attended
- photograph or video clip

The university may disclose any of those items listed above without prior written consent, unless notified in writing to the contrary. Students may opt out of sharing directory information by completing the Request to Withhold Directory Information form in the Registrar's Office. However, we urge students to think carefully about such a request. If a request to withhold directory information is made, we will not be able to publish news releases about student achievements, include student information in articles about sports achievements, print student's information in the commencement program, or verify student's degree or status to potential employers, insurers or lenders, for example. The university's withholding of directory information may have unexpected or undesirable ramifications. Please contact the Registrar's Office for more information.

Please understand that restrictions on directory information and the sharing of educational records extend to Shenandoah alumni, as well, so any requests a student makes will remain in effect until he or she requests a change in writing. SU assumes no liability for honoring student requests to withhold directory information.

Sexual Harassment and Sexual Misconduct

Shenandoah University is committed to sustaining an environment in which students, faculty and staff members may pursue their academic careers and assignments without being subject to verbal or physical harassment of any kind. Individuals who are in positions of authority with respect to students or other employees may not use their status to exploit others.

Recognizing that sexual harassment and sexual assault impede the educational process, SU is committed to investigate reports of sexual misconduct, to adjudicate them according to the policies of the university and to provide support to those who are the survivors.

Sexual Misconduct Policy

Shenandoah University will not tolerate sexual misconduct where there is probable cause to believe the campus regulations prohibiting sexual misconduct have been violated. All members of the Shenandoah University community have a right to be free from sexual discrimination in the form of sexual harassment by any other member of the university community.

This policy applies to all Shenandoah University administration, faculty, staff, students, contractors and visitors. This policy is gender-neutral and applies equally to men and women.

Adjudication and Sanction

A student or employee charged with sexual misconduct can be disciplined under the university's conduct code and may be prosecuted under Virginia criminal statutes. Even if the criminal justice authorities choose not to prosecute, university officials can pursue disciplinary action, which may result in dismissal from the university.

Please refer to the *Student Handbook* for comprehensive policy and procedures including definitions, the complaint policy and the appeals process.

Accommodations of Persons with Disabilities Policy

As part of Shenandoah University's commitment to upholding the letter and spirit of the laws that ensure equal treatment of people with disabilities, the university recognizes and adheres to the mandates of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. It is the policy of Shenandoah University that no otherwise qualified individual is denied reasonable and appropriate access to or participation in any program or activity of the university because of a disability. Pursuant to this policy, the university's Disabilities Services office is a resource for students, faculty and staff. Any individual who believes he or she has a disability covered under disability laws can provide the requisite documentation and request accommodations and resources from Disability Services.

Disability Grievance Procedure

Any university student who believes that he or she has been subjected to discrimination on the basis of disability by being denied academic access or accommodations required by law shall have the right to invoke the Grievance Procedure. This Grievance Procedure is designed to address disagreements or denials regarding requested services, accommodations, or modifications to university academic practices or requirements.

Step One

In the event that specific complaints arise regarding the university's compliance with the Americans with Disabilities Act of 1990, the director of disability services will, at the request of students, faculty or staff, review the procedures implemented and seek to resolve the matter informally. To the extent that the complaint(s) cannot be resolved informally, the following procedures shall be employed in order to address the grievance formally.

Step Two

- I. A student wishing to file a complaint shall submit a written grievance to the director of disabilities services within 30 calendar days of the event(s) triggering the grievance. The written grievance must include:
 - a. a clear statement of the university rule, regulation, policy and/or action of which the student complains;
 - b. the date of any action which the student is appealing;
 - c. a summary of the action(s) which the student has taken to resolve the matter informally;

d. documentation which supports the grievance.

The director will forward this to the appropriate administrator as designated by the president.

2. The appropriate administrator shall meet with the student within five class days of the receipt of the grievance to gather data and attempt resolution.
3. If this meeting does not resolve the grievance, the appropriate administrator shall conduct an informal investigation of the grievance. In cases where the grievance is about the conduct or requirements of a course or an academic program, the appropriate administrator shall consult with the faculty member responsible for the affected course or academic program, and meet with and seek advice from the Advisory Committee on Disability Issues, consisting of at least one faculty representative from each school and one student. One of the faculty participants must be from the school responsible for the course or academic program from which the grievance originated.
4. The appropriate administrator shall furnish a written response to the grievance no later than 15 class days after the meeting with the student. The written response shall be mailed to the student by certified mail, return receipt requested.

Step Three

1. If the student is not satisfied with the written response from the appropriate administrator, he/she may present the grievance in written form to the senior vice president & vice president for academic affairs within 10 class days after the receipt of the response from the appropriate administrator.
2. The senior vice president & vice president for academic affairs or designate shall, within 15 class days after the receipt of the grievance, schedule and conduct a meeting with the student and other persons involved in the grievance.
3. After the investigation is complete, the senior vice president & vice president for academic affairs or designate shall issue a written answer to the complainant within 15 class days from completion of the meeting(s) with the student and other persons.
4. If the grievance involved conduct or requirements of a course or academic program, a copy of the written decision of the senior vice president & vice president for academic affairs or designate shall be provided to the Advisory Committee on Disability Issues, the dean and the department head in the school involved and to the professor of the course.
5. The director of disabilities services shall maintain the files and records relating to the complaints filed.
6. The right of a person to prompt and equitable resolution of a grievance shall not be impaired by the person's pursuit of other remedies such as filing a complaint with a responsible federal department or agency. Although individuals have the right to pursue appeals through external channels, they are encouraged to use internal mechanisms to resolve disagreements.

Step Four

If the senior vice president & vice president for academic affairs or designate is unable to offer a satisfactory resolution, the student may appeal to the president of the university, whose decision is final.

Student Complaint Policy

Shenandoah University affirms the right of students to bring forth complaints and is committed to resolving these matters in a fair, equitable and timely manner, so as to protect the rights of both the individual and the community.

This Complaint Policy applies to student complaints that are not addressed by the Academic Appeals Procedure, Americans with Disabilities Act, Honor Code, Student Conduct Code, Sexual Harassment Policy, student records policies, or any other existing formal procedure under which a complaint may fall.

Students are encouraged to attempt to resolve the issue directly with the member of the faculty, staff or administration involved in an informal manner.

If a satisfactory resolution cannot be reached informally, a student complaint will be heard and resolved by, to all extent possible, the senior faculty or staff member responsible for the area under which the complaint falls.

If satisfactory resolution is not reached at that level, a student may submit his/her complaint in writing to the vice president responsible for the area under which the complaint falls.

If satisfactory resolution is still not reached, a student may submit his/her complaint in writing to the president of the university, whose decision will be final.

Program Continuity

Shenandoah University is committed to continuity and stability in its degree and program offerings. However, it may be necessary, from time to time, to modify or terminate program requirements, content or sequence of course offerings for various reasons. These include, but are not limited to, educational (including accreditation and certification) or financial reasons that the institution deems necessary or other reasons or circumstances beyond the control of Shenandoah University.

Change in Curriculum

Students may change curriculum with the approval of the former and present academic advisors and the former and present school/division dean/director. Students must complete a Curriculum Change Form, which is available from the Office of the Registrar.

Approved curriculum changes will become effective at the beginning of the first academic term after the form is received by the Office of the Registrar.

Students who change curriculum will have all previously-earned graduate-level credit reevaluated for applicability to the new curriculum.

No more than 15 semester hours accumulated as a visiting student may be counted toward a degree program.

Student Load

A full-time student is one who carries a minimum of nine credit hours per semester. A part-time student is one who carries less than nine hours per semester. The maximum load is 12 hours per semester except for students in the Doctor of Physical Therapy, Master of Science in Occupational Therapy and Doctor of Pharmacy programs, whose maximum load is 18 credit hours per semester. The maximum load in Physician Assistant Studies is 15 credit hours. Approval to carry a course load beyond the maximum will be granted by the dean/director of the student's school/division only for compelling reasons.

Semester Credit Hours

A credit hour is the credit earned by work for the equivalent of one hour in a lecture class per week for a semester. A class for a three-hour lecture course at Shenandoah typically meets for three clock hours per week.

Students who transfer from an institution that is on the quarter system should note that one quarter hour is equal to two-thirds of a semester hour. For example, a student transferring 36 quarter hours of work to Shenandoah would receive $\frac{2}{3} \times 36$ or 24 semester hours of credit.

Class Attendance

Instructors will provide students with a written statement of the class attendance requirements governing that course and the consequences for violating these requirements. After the written statement has been made available, consequences of class absences may include, but are not limited to, a reduced or failing grade. Students who are absent from classes are held responsible for all materials covered and assignments regardless of the reason for absences. If a school, college or division has its own attendance policy, instructors must follow that policy. When the student is not in compliance with the course attendance policy, it is the instructor's responsibility to notify the Registrar.

Upon recommendation of the instructor to the dean or director of an academic program, a student with excessive absences (defined as five 50-minute, three 75-minute, or two 150-minute classes in succession or 30 percent of all class meetings by mid-term or after) may be administratively withdrawn from a class.

Instructors are encouraged to excuse students officially representing Shenandoah University for events including, but not limited to, participation in a sporting event, concerts and performances. However, it is the student's responsibility to inform the instructor of the absence in a timely manner and to make arrangements for the information missed in the course. The coach or instructor of the event should also notify the course instructor of the absence, but the responsibility lies with the student to inform the instructor. Every effort should be made by the student to avoid excessive absences that may compromise mastery of the course material and successful completion of the course. The instructor retains the right to deny an absence if it is felt the absence would be counterproductive to mastery of the material and successful completion of the course.

Student Conduct in Class

Classes are conducted in a manner which provides academic freedom of expression for the student. However, instructors need not tolerate physical or other disturbances that disrupt teaching sessions. For justifiable cause, the instructor may dismiss a student from class for a definite or indefinite period of time. Such action is reported to the senior vice president & vice president for academic affairs. The student dismissed from class on disciplinary grounds may appeal to the senior vice president & vice president for academic affairs for review of the incident for the purpose of possible readmission to class.

Academic Review Board

The Academic Review Board hears course grade grievances and dismissal appeals. It also monitors academic probation and assigns students to the Turning Point program. The Academic Review Board will be made up of no fewer and five members and may include the senior vice president & vice president for Academic Affairs (Chair), vice president for Student Affairs, the dean of the College of Arts & Sciences, the dean of the Harry F. Byrd, Jr. School of Business, the dean of the School of Pharmacy, the dean of the Conservatory, the director of the Division of Nursing, the chair of Health Professions Council, the director of the Academic Enrichment Center, the registrar, and two faculty members appointed by Faculty Senate.

Academic Honor Code

Shenandoah University adheres to principles and practices of the Academic Honor Code. The Honor Code is the system of conduct of the university that reflects the core of principles and values the university has established regarding individual responsibility and matters involving honorable conduct. The concept of honor may be defined in a variety of ways; however, at this university the code prohibits lying, stealing and cheating.

Students attending the university are responsible for upholding the Honor Code and being aware of the university's Honor Code procedures. Ignorance is not an acceptable defense for failure to follow the Honor Code. Shenandoah University faculty members are also responsible for upholding the Honor Code, which includes putting an Honor Code statement on all course syllabi and being aware of the university's Honor Code procedures. The Shenandoah University Academic Honor Code is published in the Student Handbook and the Faculty Handbook.

Grading Scale and Quality Point System

The chart below shows the standard SU grading system. Individual schools, divisions or professors may elect not to give “+” or “-” grades, but must clearly state their policy in their student materials.

Grade	Description	Percent	Quality Points	Credits Included in GPA (Hours Graded)	Credits Earned
A	Excellent	93-100%	4.0	Yes	Yes
A-	Excellent	90-92%	3.7	Yes	Yes
B+	Good	87-89%	3.3	Yes	Yes
B	Good	83-86%	3.0	Yes	Yes
B-	Good	80-82%	2.7	Yes	Yes
C+	Average	77-79%	2.3	Yes	Yes
C	Average	73-76%	2.0	Yes	Yes
C-	Average	70-72%	1.7	Yes	Yes
D+	Below Average	67-69%	1.3	Yes	Yes
D	Below Average	60-66%	1.0	Yes	Yes
F	Failure	<60%	0.0	Yes	No
W	Withdraw		0.0	No	No
WW	Withdraw-No Charges		0.0	No	No
WE	Withdraw-Extenuating Circumstances		0.0	No	No
RF	Withdraw-No Charges (for a single course)		0.0	No	No
S	Satisfactory Work		0.0	No	No
U	Unsatisfactory Work		0.0	No	No
I	Incomplete		0.0	No	No
IF	Administrative Failure (Failure to Complete)		0.0	Yes	No
IR	Incomplete Research		0.0	No	No
AU	Audit		0.0	No	No
NC	No Credit Course		0.0	No	No
P	Passed		0.0	No	Yes
TR	Transferred		0.0	No	Yes
X	Grade Not Submitted by Faculty		0.0	No	No
XF*	Honor Code Violation		0.0	Yes	No

*The university will endeavor to expunge an XF from the student's transcript after graduation as stated in the Honor Code. However, it is the student's responsibility to contact the Registrar's Office in writing, after graduation, to ensure that the grade has indeed been expunged.

Students must officially withdraw from a class or from school to receive a grade of “W.”

The grade of “P” is available only in approved internship, dissertation and practicum classes.

Incomplete: If, because of illness, emergency or reasonable cause, a student cannot complete the required work for a course, he/she may request the assignment of an “I” (incomplete) for the course. If the instructor in the course and the student's school dean approve the request, then the student and the instructor shall enter into a written contract for the completion of the course work. This contract is available in the Registrar's Office. The contract shall stipulate what work is required for completion of the course, the date that the work must be completed (in no case later than the drop/ladd period of the next academic semester after the incomplete is assigned), and the grade to be given if the course work is not completed. If no grade has been submitted by the drop/ladd date of the next academic semester, the registrar will change the grade from “I” to “F”.

The incomplete notation "IR" is only allowed for graduate student dissertations, thesis or research projects. An IR notation does not require the contractual arrangement necessary for students receiving an incomplete "I".

Grade Changes: The instructor of a course is the only person authorized to change a grade and may do so only with approval of the school dean. Grade change forms are available from school deans. Requests for recalculation of grades must be submitted to the school dean no later than the last day of classes in the semester following completion of the course.

Calculation of Grade Point Average

The grade point average (GPA) is determined by dividing the total number of quality points earned by the total number of credit hours graded (see above). GPAs are reported to the third decimal point and are not rounded up or down.

Grievance of a Grade

Students may grieve the misapplication of an instructor's grading policy for a course. Students cannot grieve the evaluation of student work by the instructor.

Step One

The student should make an appointment with the faculty of record to discuss the way the grade was administered and to seek resolution.

Step Two

If dissatisfied, the student should schedule an appointment with the appropriate department chair to seek a resolution.

Step Three

If dissatisfied, the student should schedule an appointment with the appropriate dean or director of the school to seek a resolution.

Step Four

If dissatisfied, the student should make a written grievance to the senior vice president & vice president for academic affairs. The written grievance must state the reason for the request, demonstration of the misapplication of the grade, and any other supporting documentation. If the senior vice president & vice president for academic affairs sees merit in the grievance, he or she will assemble the Academic Review Board for a hearing. If there is no merit, the student will be notified that this ruling is final.

Step Five

The Academic Review Board is a judicial hearing and has the ability to summon faculty, students, and staff for its hearing. The Academic Review Board's decision is final.

Step Six

An appeal to the president can be made on procedural violations only.

Academic Standing

Graduate programs at Shenandoah have varying minimum requirements for maintaining good academic standing. Students should work closely with their advisors and programs to ensure they are making satisfactory academic progress and to address any academic areas of concern.

The chart below provides minimum requirements under which a student may continue their education, by program.

Program	Credit Hours Graded	Minimum Cumulative GPA	Hours for Completion
Most Degree Programs	All	3.0	30 and above
Occupational Therapy	All	3.0	75
Pharmacy	All	2.0*	141
Physical Therapy	All	2.8	99
Physician Assistant	All	3.0	83

**The Pharmacy School has an Academic Committee that works with students who earn less than a 2.0 cumulative GPA but who are deemed eligible to continue with help.*

***Conservatory students should review the Graduate Policies and Procedures Manual for details regarding academic standing and academic probation policy.*

Students should review each program's Student Handbook for details regarding academic standing, progression and retention policies.

Academic Probation

Students are placed on academic probation when their GPA does not meet the minimum standards. Students on academic probation meet with the Academic Review Board and are placed into the Turning Point Program. The program is offered through the Academic Enrichment Center and has mandatory meetings with tutors and advisors and may require the student to carry a reduced course load.

Students remaining on probation for two consecutive terms may be subject to academic suspension.

Academic Suspension and Dismissal from the University

1. After two semesters on probation, students will be academically suspended from the university. Students suspended from the university may appeal the suspension to the Academic Review Board.
2. Students suspended from the university shall remain out of school for a period of one academic semester and shall not be permitted to enroll part-time during that period.
3. After that semester, a student can petition for reinstatement through the dean or director of the school or division and the senior vice president & vice president for Academic Affairs.
4. If reinstated, the student must achieve at least a 2.0 GPA in the returning semester and must be a full-time student. Failure to meet this condition shall result in academic dismissal.

Condition of Dismissal

Only under justifiable conditions shall a petition for reinstatement be considered, and then only after a period of one calendar year from the date of dismissal.

Social Suspension or Dismissal

Students suspended or dismissed for social reasons will receive a grade of "W."

Distribution of Grades, Grade Point Averages and Academic Standing

The Registrar shall distribute grades, grade point averages and statements of academic standing at the end of each semester to the student, his/her faculty advisor and school dean/division director. Mid-semester grades will not be recorded on the student's permanent academic record and will have no bearing on academic status.

Examinations

Examinations are required in all courses except performing ensembles. The nature of the examination is determined by the faculty member. Examinations are administered at times and places announced by the Registrar and may not be canceled or altered in time or place without the permission of the senior vice president & vice president for academic affairs.

Examinations in private music lessons are commonly termed "achievements" or "juries" and are conducted before juries of faculty members. All music students enrolled in curriculum-required applied study for graded credit must complete the jury examination. By prior arrangement in some departments, a student may be evaluated on a non-credit solo recital in lieu of an achievement examination.

Recitals for credit are evaluated by a committee which gives a composite grade.

Rescheduling Coursework in the Event of a Campus Closure

In the event of a campus closure, causing faculty to miss contact hours, faculty have several options:

1. Faculty may hold class during the scheduled time for make-up that appears with the closure notice or within another mutually defined time through consultation with the deans/directors. Faculty should follow their standard attendance policy.
2. Faculty may reorganize their syllabus to absorb content and classroom work through regularly scheduled classes.
3. Faculty may use digital means to hold class, either synchronously through teleconferencing, chatting or discussion boards; or asynchronously through Blackboard course management system, web pages or some other means. Faculty should follow their standard attendance policy and make allowances to complete work at a later date if students do not have access to the Internet.
4. Faculty may offer an assignment in replacement of the contact hours. These assignments could include quizzes, papers, podcasts, research assignments, etc.

Rescheduling Exams in the Event of a Campus Closure During Final's Week

In the event of a campus closure during the week of finals, faculty have several options:

1. Faculty may offer the students the option to take the final either on the date for make-up that appears in the closure notice or within another mutually defined time through consultation with the deans/director to be no later than the add/drop period of the following semester. The university will follow the schedule as outlined for the day it closed. Faculty will have to coordinate with their department to find exam locations for returning students who wish to take the exam at the beginning of term.

2. Faculty may offer the exam as a take-home exam or use distance-learning means to have the students submit their final work (i.e. online exams through Blackboard, podcasts of performance or presentations, web page creations, power point presentations, etc.).
3. Faculty may change the final exam assignment to something that can be done through digital means, such as a paper or a podcast.
4. Faculty may offer their classes the option of reassigning different weights to already completed course work (e.g. quizzes, exams, papers, portfolios, projects, presentations, etc.), thereby forgoing the final. However, if a student wants to take a final exam, faculty must grant that request and offer the student the option to do so within the time specified in #1.

Student Participation in Commencement Ceremony

Recognizing that there are times when certain students are unable to complete all degree requirements in time for commencement, students may participate in the commencement ceremony at any time after their degree requirements have been met or as specified below. In fulfillment of this policy, the following guidelines apply:

1. Shenandoah University's commencement ceremony is scheduled in May.
2. A student may "walk" in the May ceremony, if s/he has attempted enough credits required for completion of their degree program minus six in the semester of commencement. Exceptions may be approved only by the senior vice president & vice president for academic affairs.
3. For each degree earned, students may participate in one commencement ceremony. Accordingly, their name may be printed one time, for each degree earned, in the commencement program.
4. Shenandoah University does not distribute official degrees at the commencement ceremony. Diplomas will be mailed to the address provided by the student shortly after graduation, as long as the student has met all necessary obligations and requirements.

Transcripts and Student Records

Shenandoah University accords all the rights under the law to students. No one outside the institution shall have access to nor will the institution disclose any information from students' education records without the written consent of students, except to personnel within the institution, to persons or organizations providing student financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order; and to persons in an emergency in order to protect the health or safety of other persons. All these exceptions are permitted under the Family Educational Rights and Privacy Act of 1974. School policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the Office of the Registrar and in the Student Handbook.

Official transcripts of a student's record may be released to a third party only upon receipt of written authorization from the student. Requests for transcripts, certifications, and other similar information will not be honored unless all financial obligations due the

university are satisfied. Financial obligations include, but are not limited to, items of tuition and fees, overdue library materials and unpaid library fines, checks returned to the bookstore, and musical instruments that have been loaned and not properly returned to Shenandoah Conservatory.

STUDENT EXPENSES

Students who register at Shenandoah University obligate themselves to the terms and conditions, financial and otherwise, stated in this publication. In the event an account becomes delinquent, the student is responsible for all collection costs associated with collection including attorney fees.

Fall term charges are due in full on or before August 15, 2010, and Spring term charges are due in full on or before December 15, 2010, unless the student chooses to apply for the Shenandoah University Payment Plan. Students and/or parents must complete a Payment Plan application by July 1 to be eligible to participate. In addition, parents/ students must meet acceptable credit standards. Summer term tuition charges are due at the time of registration.

Tuition and housing charges for the 2011-12 academic year will be announced when approved by the board of trustees. The board of trustees reserves the right to alter the charge structure at any time.

Graduate Tuition and Fees 2010-11

Tuition

Master of Science	
Athletic Training	\$723/credit
Dual Degree: Physical Therapy/Athletic Training	\$723/credit
Occupational Therapy	\$723/credit
Physician Assistant Studies	\$723/credit
Doctor of Pharmacy	
Non-Traditional	\$580/credit
Traditional	
Full-time (9-18 credit hours)	\$14,166/term
Part-time (1-8 credit hours)	\$790/credit
Doctor of Physical Therapy	
Traditional	\$723/credit
Non-Traditional	\$580/credit
All Other Graduate Programs	\$723/credit
Audited Courses	\$255/credit

Curriculum Fees

Athletic Training Lab Fee	\$100/lab
Technology Fee (full-time students)	\$500/term
Applied Music Lessons	
Major (one hour) Lesson	\$375/course
Minor (one half-hour) Lesson	\$250/course
Elective Major (one hour) Lesson	\$550/course
Elective Minor (one half-hour) Lesson	\$300/course

Conservatory Fee (full-time)	\$150/semester
(part-time)	\$100/semester
Clinical Fee	\$175/course
Private Instruction in Classes (Other than Applied Music)	\$798/credit

Residence Halls

Room and Board/19-Meal Plan	\$4,435/term
Room and Board/15-Meal Plan	\$4,193/term
Room and Board/10-Meal Plan	\$3,950/term
Room and Board/5-Meal Plan*	\$3,115/term
Private Room Surcharge*	\$550/term

*Per approval of the vice president of student affairs.

The residence hall rates include housing and meals. Meals are served in the campus dining hall seven days a week except during published vacation periods. Students are responsible for their own linens. Please refer to Shenandoah University's Web site (www.su.edu) or the Student Handbook for more detailed information.

Shenandoah University Payment Plan

Students/parents must complete an application and be approved to participate in the SU Payment Plan. Applications must be completed annually and returned to the Office of Student Accounts by July 1. Applications are available online at www.su.edu/admissions by selecting Student Accounts and then Payment Information. The SU Payment Plan, offered per term, consists of four equal payments due the 15 of each month. Fall term payments are due August 15 through November 15 and spring term payments are due December 15 through March 15. A two percent set up fee is assessed per term payment plan. All payments received five days after the payment due date or later will be assessed a \$10 late payment fee. The SU Payment Plan covers tuition, applicable curriculum/mandatory fees and room and board only. Shenandoah University reserves the right to refuse any application. Participants whose accounts become delinquent will forfeit their eligibility to participate in the SU Payment Plan. In addition students/parents are responsible for all collection costs associated with collection of delinquent accounts including attorney fees.

Deposits

Advance Tuition Deposit: Pharmacy	\$1,000
Advance Tuition Deposit (All graduate programs except Pharmacy)	\$500

New students are required to remit an Advance Tuition Deposit by the date stipulated in the letter of acceptance from the Office of Admissions. This deposit is then credited to the student's account. Advance Tuition Deposits are not refundable; however, requests will be considered for refunds due to extenuating circumstances. Refund requests must be made in writing to the dean of Admissions.

Room Lottery Deposit (Returning students only)	\$100
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Returning residential students are required to remit a Room Lottery Deposit by April 15. Upon receipt of the Room Lottery Deposit, a room reservation will be made on a space-available basis in order of receipt of deposit. Room Lottery Deposits are non-refundable.

Residence Hall Damage Deposit \$100

New residential students are required to pay a Residence Hall Damage Deposit. This deposit is a one-time charge and is fully refundable once the student graduates or moves off campus provided no damages have been assessed and all financial obligations to the university have been met.

Special Purpose Fees — Charged When Applicable

Application Fee for Degree/Certificate Seeking (\$30): A non-refundable application fee is required for admission. This fee must be filed with the Admissions Office before official action can be taken on the application. In the event that the applicant does not enroll at Shenandoah University within 12 months after the date of application, and seeks admission thereafter, a new application must be filed accompanied by an additional application fee.

Late Registration Fee (\$50): A late registration fee is assessed to any student registering on or after the first day of the fall and/or spring term.

Parking Permit (\$115/year): A parking permit is required of all students who plan to park a vehicle on university-owned or leased property. Payment is due at the time the vehicle is registered with the Business Office. This fee applies to both residential and commuting students.

Refund Policy Administrative Fee (\$100): Charged to all students who withdraw from the university after the add/drop period and within the first 60 percent of the term.

Returned Check Fee (\$25): This fee is charged for any check returned to the university.

Student Account Finance Charge: A finance charge of one percent per month will be assessed to all accounts 30 days old or older.

Student Services Fee (\$150/term): Mandatory for all full-time students, this fee covers upgrading and purchasing fitness equipment, intramural and recreational activities, funding the 45 student clubs and organizations, end of year ceremonies and underwriting the cost of events and activities that build community and support learning.

A complete list of Special Purpose Fees is available online at www.su.edu.

Personal Expenses

Incidental expenses connected with membership in some of the campus organizations, travel and personal matters cannot be estimated since individual situations vary.

The university does not operate a campus bank for students. Students are urged to open a checking account with a local bank. Bank ATMs are located in the university's student center and outside the university book store.

Withdrawal from the University

To withdraw from Shenandoah University at any time during the academic year, a student is required to obtain a Withdrawal/Leave of Absence form from the Academic Enrichment Center. This form must be completed and returned to that office in order for the withdrawal to be processed in an accurate and timely manner.

Tuition Refund Policy

Students withdrawing from the university during the published add/drop period will be fully refunded tuition, fees and housing charges.

For students withdrawing after the add/drop period, tuition will be pro-rated accordingly. The amount of tuition will be calculated on a pro-rated basis through the first 60 percent of the term. After 60 percent of the term has been completed, the student will be responsible for all tuition charges assessed and will not be eligible for a refund. The Office of Student Accounts will prorate tuition based on the withdrawal date provided by the student on the withdrawal/leave of absence form or the last date of attendance as recorded in the Registrar's Office.

The determination of the payment period attended by the student will be calculated as follows:

$$\frac{\text{Number of days completed}}{\text{Number of days in semester}} = \text{the percent of semester completed}$$

This percentage will determine the amount of tuition charges that the student is responsible for paying. If the percentage is 60 percent or higher, the student is responsible for 100 percent of tuition charges assessed.

Curriculum/Mandatory Fee Refund Policy

Curriculum/mandatory fees are refunded only to students who withdraw during the add/drop period. After the add/drop period, curriculum fees are non-refundable.

Medical Withdrawals

Students withdrawing from the university for medical reasons will be dealt with on an individual basis. The student must first contact the Wilkins Wellness Center. A physician must provide confidential written documentation in support of a medical withdrawal. The Wilkins Wellness Center will approve or disapprove a medical withdrawal based on the information provided, with final approval by the senior vice president & vice president for academic affairs.

Distribution Order for Refunds

Credits applied to a student's account will first be returned to financial aid programs in accordance with mandatory federal and state guidelines, private organizations, and Shenandoah University requirements. Any remaining amount of credit will first be applied to unpaid charges on the student's account with any remainder being refunded to the student.

Housing Refund Policy

Room and board charges are refunded on a prorated basis of 15 weeks per term. Residence hall damage deposits will be fully refunded provided no damages have been assessed.

Shenandoah University reserves the right to hold transcripts, diplomas and other pertinent information until all financial obligations to the university have been satisfied.

FINANCIAL AID

A limited number of scholarships and assistantships may be available for full-time students. Loans through commercial and governmental sources are available. Information regarding financial aid may be obtained from the Office of Financial Aid. The following types of financial aid are available for graduate students:

Virginia Tuition Assistance Grants

Most Virginia residents who are enrolled for at least nine credit hours each semester in a graduate health program are eligible for the Virginia Tuition Assistance Grant. A separate grant application is required, but the grant is automatically renewed if enrollment is maintained and the student is still in the same program of study. Once a student graduates or changes residency they need to contact the Financial Aid Office for a new application. The amount of the grant is based on annual state funding.

Graduate Assistantships

Graduate assistantships are awarded to superior graduate students who are qualified to fulfill specific responsibilities. Assistantships are awarded on the basis of merit by the dean/director of the school/division after receipt of a letter of application and a resume. Assistantships may include a scholarship, a salary for services rendered or a combination of both.

Student Employment Program

In order to encourage study at the graduate level, graduate students are employed in a variety of positions. Reimbursement is in the form of direct salary.

Scholarships

A limited number of scholarships are available to graduate students who show exceptional ability in specific areas or meet specific qualifications. Scholarships are awarded on the basis of merit and availability in the form of credit towards tuition.

Federal Ford Direct Stafford and Graduate PLUS Loans

To be certified eligible for student loans, a student must apply using the FAFSA.

Alternative Education Loans

These are bank loans available for students to use for educational costs including living expenses and books. A list of lenders is available through the Financial Aid Office.

Conditions for Receiving Financial Aid

1. Recipients of financial aid in graduate school must maintain a cumulative grade point average equivalent to the minimum grade point average of the academic standing requirements. This varies by program and standards are listed in this catalog. Students may re-establish eligibility for financial aid by enrolling for classes at their own expense until once again in good academic standing. A student who has been denied financial aid because of unsatisfactory progress may appeal the decision by written notification to the director of Financial Aid.
2. Recipients of assistantships and student employment program positions may be limited in the number of classes they can take each semester.

3. The Virginia Tuition Assistance Grant is routinely used to replace other institutional scholarships and fellowships that cover tuition costs.
4. The work of graduate assistants and students receiving student employment program positions is reviewed each semester to verify acceptable performance. Unsatisfactory performance of assigned responsibilities will result in loss of the assistantship or grant.

RETENTION OF STUDENT RECORDS

Official student academic records at Shenandoah University are defined as those records maintained and secured by the Registrar:

Official Student Academic Transcript

Student transcripts are kept permanently. The official student academic transcript is now stored electronically. In the past, Shenandoah University maintained academic transcripts in hard copy for a period of 10 years after graduation or date of last attendance, after which time it was stored electronically. Files containing a hard copy may be retained for a period of up to 10 additional years, depending upon space availability, after which time it is destroyed by shredding or incineration.

Since 1986, permanent student records have been maintained in electronic or machine-readable format. Backups are done automatically on a daily basis by Institutional Computing. Permanent backup tapes are made at the end of each fall and spring semester. Copies retained on magnetic media are destroyed by magnetic erasure or incineration.

All hard copies of permanent student records are stored in a locked, fireproof vault in the Office of the Registrar or in fireproof filing cabinets in that office. Computer tapes and a duplicate copy of the micrographic forms are also stored in the vault.

Other documents germane to the official student academic record that are retained for a period of 10 years after graduation or the date of last attendance include:

- Academic Actions Authorizations (Suspension, Dismissal, Course Substitution/Waiver Approvals, Dean's List letters, etc.)

- Acceptance letters

- Address change authorizations

- Advanced placement records (AP, CLEP, IB, etc.)

- Application for Graduation and Graduation Clearance Forms

- Application for Admission or Readmission

- Correspondence

- Credit by Examination forms

- Curriculum Change forms

- Degree Audit/Completion forms

- Entrance Examination Reports (SAT, ACT, CEEB, PRAXIS, TOEFL, etc.)

- International student forms (I-20, etc.)

- Name change authorizations

- Registration forms

- Schedule Adjustment forms (Drop/Add, Withdrawal, etc.)

Student Enrollment Certifications/Verifications

Transcripts from high schools, other colleges and universities

Transfer credit evaluations

Withdrawal forms

Electronic Evaluations by PharmCAS, PTCAS, and CASPA will be maintained in the Official Record minus the student essay and letters of recommendation, which will be shredded once the student is admitted

The following documents are maintained for a period of one year after receipt:

Student transcript requests

The following documents are maintained until a student is admitted:

Audition reports (top portion retained by Conservatory as required by accreditation agency with comment portion detached and shredded)

Letters of recommendation

In addition to the student records defined as permanent and maintained in the Office of the Registrar, the university offices listed below maintain and keep records specific to those offices from one year to infinity. The retention and disposal records of each of the offices are available and can be viewed in the Academic Enrichment Center.

Academic Enrichment Center

Bernard J. Dunn School of Pharmacy

Career Services

College of Arts & Sciences

Financial Aid

Global & Community Education

Harry F. Byrd, Jr. School of Business

School of Education & Human Development

School of Health Professions

Shenandoah Conservatory

Student Accounts

Student Affairs

Wilkins Wellness Center

SCHOOL OF EDUCATION & HUMAN DEVELOPMENT

Steven E. Humphries, Director
Bowman Building
(540) 665-4643

Students in programs in the School of Education & Human Development will engage in a student-centered, inquiry-driven, problem-oriented examination of public education's foundations, current situations and future possibilities through course requirements, internships and field research. Reliable access to the Internet is required for all students.

Graduates in most education programs will meet Virginia Department of Education requirements for licensure in at least one endorsement area in which the university offers programs and will add the advanced degree in education to qualify for salary enhancements on the educational career ladder. The certificate requirements listed in this catalog are subject to any changes made by the Virginia Department of Education regarding teacher licensure requirements.

Programs of Study

Professional Certificates

Public Management

TESOL

Reading Specialist

Initial Teacher Education (Elementary, Middle, Secondary)

K-12 Education:

Dance

Health and Physical Education

Music – Choral and/or Instrumental

Reading Specialist

Elementary Education:

PK-6

Middle School Education (Grades 6 – 8)

Secondary Education:

Biology

Business Administration

Chemistry

English

History/Social Studies

Mathematics

Spanish

School Reform

Special Education

Administration and Supervision

Master's Degree Programs

Master of Science in Education: Individualized Focus

Master of Science in Education: Teaching

Master of Science in Education: Reading Specialist

Master of Science in Education: Education Administration

Master of Science in Education: TESOL

Master of Science in Organizational Leadership

Doctoral Programs

Doctor of Education: Administrative Leadership

Doctor of Professional Studies: Organizational Leadership

Application Deadline

Completed applications for all programs (except doctoral programs) are as follows:

Fall Term July 1

Spring Term October 15

Summer Term February 15

Doctoral program deadline: June 1 (admissions accepted for fall term only).

Please contact the Shenandoah University Office of Admissions for assistance in the application process.

Professional Certificate Programs

Public Management Certificate

William Shendow, Associate Professor of Political Science
Smith Library, Second Floor; (540) 665-4697; wshendow@su.edu

The Public Management Certificate Program is a graduate-level program designed for government, health care and non-profit managers who want to develop their management skills and enhance their professional credentials while accumulating credits that may be applied toward an advanced degree. The program consists of four 12-week graduate-level courses offered over a period of a year. Classes typically meet one night a week on the campus of Shenandoah University. Successful completion of the Public Management Certificate Program results in the student receiving a certificate of completion and 12 credits that can be used toward a master's degree in Public Administration at other institutions. Courses offered as part of the program are:

Course	Title	Credit Hours
PAD 501	Public Administration and Management	3
PAD 502	Organizational Theory	3
PAD 503	Public Personnel Administration	3
PAD 504	Public Administration Ethics	3
	Total	12

Professional Certificate in TESOL

Lizabeth England, Professor of TESOL
Bowman Building, Office 216B; (540) 678-4301; lenglan2@su.edu

The Professional Certificate in TESOL (Teaching English to Speakers of Other Languages) provides an entry-level credential for persons who want academic training in the essential elements of the TESOL profession. The three courses in this nine-credit program provide an overview of the field, a basic grasp of English linguistics and a survey of language teaching methods.

All courses in the Professional Certificate program can be applied toward the requirements for the Advanced Professional Certificate in TESOL and the Master of Science in Education (TESOL Concentration). *This is not a licensure program.*

Requirements for the Professional Certificate in TESOL

Admission to the Professional Certificate in TESOL program requires a bachelor's degree from a recognized university or college. Applicants must have at least one of the following: 3.0 undergraduate grade point average (4.0 scale), 3.0 grade point average for prior graduate courses or satisfactory GRE scores (general test) earned no more than five years prior to enrollment. Applicants whose native language is not English must submit either satisfactory TOEFL scores earned no more than 12 months prior to the date of enrollment or satisfactory GRE scores as described above. All applicants must also submit an essay. (Go to www.su.edu/sas/tesol for details.) The three required courses are listed below.

Course	Title	Credit Hours
TSL 501	The Profession of TESOL	3
TSL 502	Linguistics for TESOL	3
TSL 523	Methods and Materials for Language Teachers	3
	Total	9

Advanced Professional Certificate in TESOL

Admission Requirements for Advanced Professional Certificate in TESOL

Admission to the Advanced Professional Certificate in TESOL program requires a bachelor's degree from a recognized university or college. Applicants must have at least one of the following: 3.0 undergraduate grade point average (4.0 scale), 3.0 grade point average for prior graduate courses or satisfactory GRE scores (general test) earned no more than five years prior to enrollment. Applicants whose native language is not English must submit a satisfactory TOEFL score earned no more than 12 months prior to the date of enrollment. All applicants must also submit an essay. Go to www.su.edu/sas/tesol for details.

Requirements for the Advanced Professional Certificate in TESOL

The Advanced Professional Certificate in TESOL is designed to prepare its graduates to teach English to speakers of other languages in any environment. This 18-credit program includes the courses in the Professional Certificate in TESOL (see description), adding course work on language and culture, second language acquisition and language teaching methods and materials and assessment. This program contains most of the substantive courses required for the Master of Science in Education (TESOL Concentration) and all of the Advanced Professional Certificate in TESOL courses can be applied toward that degree. This is not a licensure program. The six required courses are listed below.

Course	Title	Credit Hours
TSL 501	The Profession of TESOL	3
TSL 502	Linguistics for TESOL	3
TSL 523	Methods and Materials for Language Teachers	3
TSL 524	Assessment for Language Teachers	3
TSL 541	Language and Culture	3
TSL 561	Second Language Acquisition	3
	Total	18

Professional Studies Certificate in ESL

The Professional Studies Certificate Program in ESL (English as a Second Language) Teacher Education serves students who want to obtain Virginia licensure as an ESL teacher. Students completing this program will meet the Virginia Department of Education (VDOE) requirements for licensure and be eligible for endorsement in ESL (preK-12).

Admission to the Professional Studies Certificate in ESL program requires satisfactory Praxis I, SAT or ACT scores, completion of an undergraduate degree at an accredited college or university; and the completion of six credit hours of a foreign language at an accredited college or university.

Professional Studies Certificate in ESL requires completion of 33 credit hours of coursework as outlined below:

Course	Title	Credit Hours
PSYP 510	Advanced Human Growth and Development	3
EDU 510	Foundations of Education	3
EDU 584	Classroom Management and Climate	3
RDG 523	Foundations of Reading Instruction	3
TSL 502	Linguistics for TESOL	3
TSL 523	Methods and Materials for Language Teachers	3
TSL 524	Assessment for Language Teachers	3
TSL 541	Language and Culture	3
TSL 561	Second Language Acquisition	3
EDU 661	Internship in Elementary/Middle/Secondary Endorsement Field*	6
	Total	33**

* Students must complete the Virginia Communication and Literacy Assessment (VCLA) prior to student teaching.

** Students must pass the Praxis II in order to receive the certificate.

Transfer of Credits for TESOL Certificate Programs

Transfer credit will be granted on the basis of review by the TESOL program. Up to three credits may be transferred into TESOL certificate programs when earned at an accredited institution and when the credits fulfill required courses.

Professional Studies Certificate Program for Reading Specialist

Peter Edwards, Professor of Education

Bowman Building, Office 118; (540) 665-4588; pedwards@su.edu

The Professional Studies Certificate (PSC) Program for Reading Specialist serves students who already hold a master's degree from an accredited institution of higher education and who want to obtain Virginia licensure as a reading specialist without seeking Shenandoah's MSEd: Reading Specialist Concentration. Students completing the requirements for the PSC Program in Reading Specialist Concentration will meet the Virginia Department of Education (VDOE) approved program requirements for licensure.

For program entry, students are required to meet all the requirements for entry into the MSEd: Reading Specialist Concentration program, plus hold a master's degree from an accredited institution of higher education.

Course	Title	Credit Hours
RDG 523	Foundations of Reading Instruction	3
RDG 524	Analysis and Remedial Techniques in Reading	3
RDG 530	Clinical Diagnosis & Treatment of Reading Difficulties	3
RDG 533	Reading in the Content Areas	3
RDG 535	Language Development	3
EDU 585	Educational Technology Applications	3
RDG 602	Organization & Supervision of the Reading Program	3
	Total	21

Professional Studies Certificate Programs for Initial Teacher Education

Pam Stockinger, Associate Professor of Education
Bowman Building, Office 121; (540) 665-4592; pstockin@su.edu

The Professional Studies Certificate Programs (PSC) for Elementary, Middle and/or Secondary School Teacher Education serves students who want to obtain Virginia Teacher Licensure. These PSC Programs are intended to meet the Virginia Department of Education (VDOE) requirements for licensure in at least one endorsement area in which the university offers programs. Each endorsement area has requisite courses listed in the Licensure Regulations for School Personnel book published by the Office of Professional Licensure, Division of Compliance Coordination, Virginia Department of Education, Richmond, VA. Recent changes made by the VDOE may not be reflected in this catalog.

Program entry requires minimum Praxis I or SAT/ACT scores. Applicants must possess an undergraduate degree from an accredited college. Additional content course requirements may be added depending on area of licensure sought and transcript review. Content course work in endorsement areas is determined by transcript review based on VDOE requirements. An applicant may have no more than five outstanding content courses, with none of the five needed content area courses being solely in one area.

PSC Program Completion

Prior to student teaching and as a condition of licensure, the following tests are currently required:

ELEMENTARY – Praxis II, VCLA and VRA

MIDDLE – Praxis II and VCLA

SECONDARY – Praxis II and VCLA

PREK-12 – Praxis II and VCLA

Practica Experiences: Each professional course requires the completion of specified experiences within a state approved school under the supervision of a teacher licensed in the area where licensure is sought.

Professional Studies Program for Elementary School Teacher Education (PK-6)

Course	Title	Credit Hours
PSYP 510	Advanced Human Growth and Development	3
EDU 510	Foundations of Education	3
EDU 584	Classroom Management/School Climate	3
EDU 525	Language Arts Methods	6
or		
RDG 523	Foundations of Reading	3
and		
EDU 633	Integrated Language Arts	3
EDU 643	Curriculum and Instruction in Elementary and Middle Schools	3
EDU 690	Internship in Elementary and Middle Education	6

or	One year full-time teaching in endorsement field	
	Total	18-24

Professional Studies Program for Middle School Teacher Education (6-8)

Course		Title	Credit Hours
PSYP	510	Advanced Human Growth and Development	3
EDU	510	Foundations of Education	3
EDU	633	Integrated Language Arts	6
EDU	635	Reading and Writing in the Content Area	3
EDU	643	Curriculum and Instruction in Elementary and Middle Schools	3
EDU	690	Internship in Elementary and Middle Education	6
	or		
EDU	692	Internship in Middle and Secondary Education	6
	or	One year full-time teaching in endorsement field	
		Total	18-24

Professional Studies Program for Secondary School Teacher Education (6-12)

Course		Title	Credit Hours
PSYP	510	Advanced Human Growth and Development	3
EDU	510	Foundations of Education	3
EDU	584	Classroom Management/School Climate	3
EDU	635	Reading and Writing in the Content Area	3
EDU	645	Curriculum and Instruction in Middle and Secondary Schools	3
EDU	692	Internship in Middle and Secondary Education	6
	or	One year full-time teaching in endorsement field	
		Total Credits	15-21

School Reform Certificate Program

H. Jurgen Combs, Associate Professor of Education
 Bowman Building, Office 119; (540) 665-4589; jcombs@su.edu

This post-baccalaureate certificate program enables teachers and administrators to become familiar with the current school reform research. The No Child Left Behind Act has created a significant push for increased student performance, requiring schools to better meet the needs of their students. These online courses use a case study approach to provide today's educational leaders with the background and experiences needed to begin the process of reform, based on current research, in their own schools or divisions. Administrators in particular are in need of information that can help them improve the effectiveness of their schools or divisions; due to their schedules, online courses are a viable option for them. In addition, since these leaders and teacher leaders are required to earn credits for license renewal, a certificate program is an effective way to gain those needed credits.

Teacher Certificate:

Course		Title	Credit Hours
SRC	535	A Framework for School Reform	3
SRC	536	Planning, Executing and Sustaining a Reform Initiative	3
SRC	537	Creating Effective Learning Environments for Technology Integration	3
SRC	538	Designing, Teaching and Assessing Technology Enhanced Lessons	3

Administrator Certificate:

SRC	535	A Framework for School Reform	3
SRC	536	Planning, Executing and Sustaining a Reform Initiative	3
SRC	537	Creating Effective Learning Environments for Technology Integration	3
SRC	539	Technology, Schools, Challenge, and Change	3

Professional Studies Certificate Program for Special Education Teacher Education

Diane D. Painter, Assistant Professor of Education (Special Education)
Bowman Building, Office 119; (540) 678-4304; dpainter@su.edu

The Professional Studies Certificate for Special Education Teacher Education serves students who desire Virginia Special Education Teacher Licensure. Students completing this program will meet the Virginia Department of Education requirements for licensure and be eligible for endorsement in special education — general curriculum instruction. This endorsement area has requisite courses listed in the Licensure Regulations for School Personnel book published by the Office of Professional Licensure, Division of Compliance Coordination, Virginia Department of Education, Richmond, VA.

Program entry requires that the applicant 1) possess an undergraduate degree from an accredited college; and 2) submit passing Praxis I test scores (Consult admissions about SAT/ ACT substitute tests). Program completers must successfully pass the Virginia Communication & Literacy Assessment (VCLA) and the Virginia Reading Assessment (VRA). As part of the individual course work, field experiences are embedded and required in each course.

Course		Title	Credit Hours
PSYP	510	Advanced Human Growth and Development	3
EDU	510	Foundations of Education	3
RDG	523	Foundations for Reading	3
SED	565	Foundations/Legal/Medical Aspects of Special Education	3
SED	571	Characteristics of Students with Disabilities	3
SED	533	Language Acquisition and Reading Methods	3
SED	569	Collaborative and Consultative Strategies	3
SED	575	Transitions for Students with Disabilities	3
SED	567	Special Ed. Instruction, Behavior Management and Assessment	3
SED	573	Curriculum, Instruction and Service Delivery	3
EDU	661	Internship in Elementary/Middle/Secondary Education in Endorsement Field	6
or if provisionally licensed in special education, complete:			
EDU	613	Management and Mentorship I	3
	and		
EDU	614	Management and Mentorship II	3
		Total Credits	36

Professional Studies Program in Administration and Supervision

Larry W. Brooks, Assistant Professor of Education

Bowman Building, Office 117; (540) 545-7324; lbrooks@su.edu

Graduates may qualify for a provisional PK-12 Administration and Supervision license endorsement. To qualify for a permanent (five-year) endorsement, graduates must successfully complete a beginning administration and supervision assessment as prescribed by the Virginia Board of Education.

Course	Title	Credit Hours
ADM 621	Introductions to Education Administration	3
ADM 622	Schools and Communities	3
ADM 623	School Law	3
ADM 624	School Finance Theory and Practice	3
ADM 640	Curriculum Development and Evaluation	3
ADM 641	Supervision and Evaluation of Instruction	3
RST 672	Outcomes Assessment and Statistical Applications in Organizations	3
ADM 627	Internship in Educational Leadership	6
	Total	27

Master's Programs

General Degree Program Requirements

The MEd degrees require completion of a 30-33 semester-hour program with a grade point average of 3.0 or better. Programs of study are detailed below. The Shenandoah University computer competency requirement is met within the courses required for these degrees.

Master of Science in Education: Individualized Focus

Mary Bowser, Professor of Education

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Entrance Requirements

Applicants must possess an undergraduate degree. Applicants for graduate degrees in education are required to submit satisfactory grades in prior undergraduate course work and may be required to submit scores on standardized tests. For more information, contact the School of Education & Human Development.

Specific Degree Program Requirements: Individualized Focus

The Master of Science in Education, Individualized Focus is designed to meet the needs of student with interests inside or outside the traditional public school arena, and may include concentrations in general education theory and practice, higher education administration and community-based learning programs. It is flexible enough to adapt to individual school or teacher needs, and yet it maintains a consistency with other Master of Science in Education programs through its core offerings. Completion of the individualized option does not lead to initial state licensure. Graduates of this program could be qualified to serve as resource teachers, middle-level administrators, or generalists in the field. Degree candidates may use electives to develop a broad view of education or may concentrate electives in a specific area of interest or to meet endorsement needs.

Degree Requirements: Individualized Focus

The degree requirement is the completion of a 30 semester hour program (see below) with a grade point average of 3.0 or better. Requirements include the 12-credit inquiry core, plus a concentration of appropriate course work as outlined below. The Shenandoah University computer competency requirement is met within the courses required for this degree.

Concentration – 18 credits

A coherent set of EDU courses at the 500-level and above, in addition to select graduate-level courses in related fields, selected in consultation with the advisor, will meet the requirements for the individual concentration.

The following Inquiry Core is required of all students in the Teaching and Individualized Focus Programs:

Inquiry Core

Course	Title	Credit Hours
RST 671	Using Educational Measurement and Statistics	3
RST 678	Action Research I	3
RST 679	Action Research II	3
RST 681	Locating and Interpreting Literature	1
RST 682	Evaluating Research Literature	1
RST 683	Writing a Review of the Literature	1
	Total	12

Master of Science in Education: Emphasis in Teaching

Pam Stockinger, Associate Professor of Curriculum and Instruction
Bowman Building, Office 121; (540) 665-4592

The Master of Science in Education, Emphasis in Teaching Concentration is designed to meet the current and changing needs of regional teachers and school systems as they strive to upgrade their skills and teaching effectiveness. It is flexible enough to adapt to individual school or teacher needs, and yet it maintains a consistency with other Master of Science in Education programs through its core offerings. It is also designed to meet state re-licensure requirements in individual endorsement areas.

Admissions Requirements

Applicants must possess an undergraduate degree and a current teaching license prior to admission to the program. Applicants for graduate degrees in education are required to submit satisfactory grades in prior undergraduate course work, and may be required to submit scores on standardized tests. For further information, contact the School of Education & Human Development.

Degree Requirements

The degree requirement is the completion of a 30 semester hour program (see below) with a grade point average of 3.0 or better. Requirements include the 12 credit inquiry core, plus appropriate course work as outlined below. The Shenandoah University computer competency requirement is met within the courses required for this degree. This MEd program is a student-oriented and problem-centered program that addresses the inquiry drive aspect of the School of Education and Human Development mission statement by offering a series of courses designed to explore individual topics in an educational setting. These courses help inform the students' decisions, provide guidance in addressing problems they will encounter in an educational role, and present opportunities to effect change in the environment in which they work.

Concentration

Course	Title	Credit Hours
EDU 635	Reading and Writing in Content Area	3
ADM 640	Curriculum Development and Evaluation	3
	One course in subject area	3
	Total	9

Electives (pick 3 courses from the following)

Course	Title	Credit Hours
EDU 503	Topics in Education	3
EDU 584	Classroom Management/School Climate	3
EDU 585	Educational Technology Applications	3
ADM 641	Supervision and Evaluation of Instruction	3
ADM 621	Introduction to Administration	3
EDU 650	Major Issues in Education	3
EDU 651	Methods of Instruction	3
	One course in subject area	3
	Total	9

Selected with and approved by the student's advisor. No more than 6 hours of workshop credits may be applied.

A student who has not had an educational foundations class at the baccalaureate level and who intends to work in or do work related to K-12 schools in the U.S. is required to take the EDU 510 class.

The following Inquiry Core is required of all students in the Teaching Program.

Inquiry Core

Course		Title	Credit Hours
RST	671	Using Educational Measurement and Statistics	3
RST	678	Action Research I	3
RST	679	Action Research II	3
RST	681	Locating and Interpreting Literature*	1
RST	682	Evaluating Research Literature*	1
RST	683	Writing a Review of the Literature*	1
		Total	12

*Other courses may be substituted with permission of program director.

Students who take a leave from the program and return after more than one year may be required to retake certain courses to update their knowledge, or take additional courses to comply with new program requirements.

Master of Science in Education: Reading Specialist

Peter Edwards, Professor of Education

Bowman Building, Office 118; (540) 665-4588; pedwards@su.edu

The Master of Science in Education, Reading Specialist degree is designed to meet the current and changing literacy needs of school systems in the region. The program core includes courses whose content satisfies the competencies required by the Virginia Department of Education for K-12 Reading Specialist licensure.

Admissions Requirements

Applicants must possess an undergraduate degree and a teaching license prior to admission to the program. Applicants for graduate degrees in education may be required to submit satisfactory scores on standardized tests. For further information, contact the program director.

Degree Requirements

The degree requires completion of 33 semester hours (see below) with a grade point average of 3.0 or better. The Shenandoah University computer competency requirement and research emphasis is met within the courses required for this degree.

Program Core

Course	Title	Credit Hours
RDG 523	Foundations of Reading Instruction	3
RDG 524	Analysis and Remedial Techniques in Reading	3
RDG 530	Clinical Diagnosis and Treatment of Reading Difficulties	3
RDG 533	Reading in the Content Areas	3
RDG 535	Language Development	3
EDU 585	Educational Technology Applications	3
RDG 602	Organization and Supervision of the Reading Program	3
RST 678	Action Research I	3
RDG 680	Graduate Reading Seminar	3
	Two elective courses of three credits each*	6
	Total	33

*Electives chosen from courses such as Special Education, TESOL, Measurement, Diversity, Reading or Administration, with permission of advisor.

Endorsement Requirements

The candidate must have completed an approved graduate-level reading specialist preparation program (master's degree required) that includes course experiences of at least 30 semester hours of graduate course work in the competencies listed, as well as practicum experience in the diagnosis and remediation of reading difficulties. The applicant must also have at least three years of successful classroom teaching experience in which the teaching of reading was an important responsibility.

Master of Science in Education: Education Administration

Larry W. Brooks, Director; Assistant Professor of Education
Bowman Building, Office 117; (540) 545-7324; lbrooks@su.edu

This degree is designed to meet the current and changing administrative needs of school systems in the region. The program core includes courses whose content satisfies the competencies required by the Virginia Department of Education for the PK-12 Administration and Supervision license.

Admissions Requirements

Applicants must possess an undergraduate degree and a current and valid teaching license in any state. Applicants must submit three letters of recommendation (one from an immediate supervisor), official copies of their transcripts for previous course work in higher education, and a writing sample. Applicants must be able to acquire at least four years of teaching experience by the completion of the program and either be currently employed in schools or have access to schools.

Degree Requirements

The degree requires the completion of 33 hours (minimum) in the program (see below) with a grade point average of 3.5 or better. If the thesis option is selected, an additional 3-6 credits will be required; the number of credits will be determined based on the nature of the thesis. Final thesis copies must be submitted to the dean of the School of Education & Human Development before degree completion. The Shenandoah University computer competency requirement is met within the courses required for this degree.

Program Core

Course	Title	Credit Hours
ADM 621	Introduction to Education Administration	3
ADM 622	Schools and Communities	3
ADM 641	Supervision and Evaluation of Instruction	3
ADM 640	Curriculum Development and Evaluation	3
ADM 627	Internship in Educational Leadership	6
ADM 625	Seminar in Education Leadership	3
ADM 623	School Law	3
ADM 624	School Finance Theory and Practice	3
	Total	27

Research Core

Course	Title	Credit Hours
RST 672	Outcomes Assessment and Statistical Applications in Organizations	3
RST 681	Locating and Examining the Research Literature	1
RST 682	Evaluating the Research Literature	1
RST 683	Writing a Review of the Literature	1
	Total	6

Graduates may qualify for a PK-12 Administration and Supervision license endorsement for central office only. To qualify for a building level endorsement, graduates must successfully complete a beginning administration and supervision assessment as prescribed by the Virginia Board of Education.

Master of Science in Education: TESOL

Lizabeth England, Professor of TESOL

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The Master of Science in Education: TESOL (Teaching English to Speakers of Other Languages) degree is designed to prepare graduates to teach English to speakers of other languages in any environment. This degree program incorporates the course work included in the Professional Certificate and Advanced Professional Certificate programs (see previous descriptions) while adding other courses designed to develop leadership and research skills. Completion of this 33-credit hour degree program results in the highest academic credential that is normally held by professionals in this field. This is not a licensure program.

Admissions Requirements

Admission to the Master of Science in Education: TESOL Concentration program requires a bachelor's degree from a recognized university or college. Applicants must have at least one of the following: 3.0 undergraduate grade point average (4.0 scale), 3.0 grade point average for prior graduate courses, or satisfactory GRE scores (general test) earned no more than five years prior to enrollment. Applicants whose native language is not English must submit either a satisfactory TOEFL score earned no more than 12 months prior to the date of enrollment or satisfactory GRE scores as described above. Applicants must also submit an essay. Go to www.su.edu/sas/tesol for details.

Degree Requirements

The degree requires 33 credits with a grade point average of 3.0 or better. The 11 required courses are listed below. The Shenandoah University computer competency requirement is met within the courses required for this degree.

Course	Title	Credit Hours
TSL 501	The Profession of TESOL	3
TSL 502	Linguistics for TESOL	3
TSL 523	Methods and Materials for Language Teachers	3
TSL 524	Assessment for Language Teachers	3
TSL 541	Language and Culture	3
TSL 551	TESOL Classroom Observation Skills	1
TSL 552	TESOL Observation	1
TSL 553	TESOL Practicum	1
TSL 561	Second Language Acquisition	3
TSL 595	Topics in TESOL	3
TSL 671	Language Program and Curriculum Design	3
TSL 681	Research and Statistics for TESOL	3
	Subtotal	30
Plus one of the following:		
TSL 691	TESOL Internship	3
TSL 693	Independent Second Language Research	3
	Total	33

Master of Science in Organizational Leadership

John R. Goss, Professor of Research Studies

Bowman Building, Office 215B; (540) 678-4447; jgoss@su.edu

Shenandoah University's Master of Science in Organizational Leadership (MSOL) is a graduate degree program for those interested in advanced leadership and management positions in the public sector or nonprofit organizations. Students in this program will examine how people and groups interact within organizations. They will acquire knowledge and skills in leadership to inform strategies that support improved results from employees and enhance the organization. The content core of the degree is designed for the current or future leader in a nonprofit or public sector organization and focuses on an understanding of human behavior both in general and within organizations, principles of effective leadership, organizational structure and communication, ethical behavior and decision-making principles, communication processes and principles of effective management and leadership.

Admissions Requirements

- Applicants must have a minimum 3.0 GPA in undergraduate program.
- Applicants must submit all college transcripts.
- Applicants must schedule an interview with a member of the program faculty.
- Applicants must submit three recommendations: two from someone who can address the applicant's critical thinking abilities, and one from a professional who knows the candidate's ability in the chosen field of concentration.

Degree Requirements

Program Core

Course	Title	Credit Hours
LST 625	Foundations of Organizational Leadership	3
LST 621	Strategic Planning and Evaluation of Effectiveness	3
LST 623	Policy and Ethics in Organizations	3
LST 624	Financial Planning and Management in Organizational Settings	3
	Total	12

Research Core

Course	Title	Credit Hours
RST 672	Outcomes Assessment and Statistical Applications in Organizations	3
RST 678	Action Research I	3
RST 679	Action Research II	3
or		
ADM 626	Practicum/Capstone	3
	Total	9

Concentration

Public Administration

PAD 501	Public Administration and Management	3
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PAD	502	Organizational Theory	3
PAD	503	Public Personnel Administration	3
PAD	504	Public Administration Ethics	3
		Total	12

Higher Education

LST	591	Introduction to American Higher Education	3
LST	695	Topics in Leadership Studies	3
EDU	642	Philosophy of Education	3
ADM	626	Practicum in Leadership	3
		Total	12

Individualized Studies

12 coherent credits related to the topic of organizational leadership jointly planned as a concentration of study by the student and the academic advisor.

Doctoral Programs

Doctor of Education (EdD) in Administrative Leadership

Catherine Dunn Shiffman, Assistant Professor of Leadership Studies
Bowman Building, Office 216A; (540) 535-3542; cshiffma@su.edu

Advanced study in the Doctor of Education in Administrative Leadership program is designed to serve learners with career goals related to PK-12 educational administration. The program is student-centered, inquiry-driven and problem-oriented with an emphasis on the application of theory to real world problems. Learners think deeply, examine critically and understand theoretically the challenges facing schools and related organizations.

The EdD program offers two tracks: Initial Administrative Licensure or PK-12 Leadership (non-licensure). Completion of the appropriate degree track will qualify learners for initial administrative licensure or the superintendent's license (providing applicants hold the initial administrative license upon application to the program) in Virginia. Curriculum specialization is also possible as an alternative concentration.

A minimum of 60 credits is required in this program of study. The program is organized around an interdisciplinary leadership and research core that is complemented by the learner's chosen concentration.

Admissions Requirements

- Completed graduate application for admission.
- A minimum 3.5 GPA in their master's degree.
- Submission of all college transcripts.
- An essay addressing their motivation and goals while in the EdD program. (Please limit this essay to no more than three double-spaced pages.)
- A one-page resume.
- Three letters of recommendation: one from an immediate supervisor; at least one from someone able to address the candidate's academic abilities, and at least one from a professional who knows the candidate's ability in the chosen concentration.
- Applicants seeking Virginia Department of Education endorsement(s) must possess a current teacher's license, a bachelor's degree and a master's degree.

Transfer Credits

The Doctor Education in Administrative Leadership is a 60-credit degree. With approval from the dean of the College of Arts & Sciences and the faculty of the School of Education & Human Development, students may substitute master's degree courses for courses in the doctoral program if these courses were not counted toward a previously earned degree. However, additional courses may be required to create a viable degree program. Applicants needing foundational course work will be advised of the necessity before they will be permitted to take advanced level course work. Up to 15 transfer credits are permitted into SU doctoral programs; transfer credits are approved in consultation with the program director and/or advisor.

Degree Requirements

Program Core

Course	Title	Credit Hours
LST 710	Leadership	3
LST 720	Societal Factors	3
LST 735	Organizational Theory & Behavior	3
LST 740	Governance and Public Policy	3
LST 750	Contemporary Issues in Leadership	3
	Total	15

Research Core

Course	Title	Credit Hours
RST 761	Research Methods I	1.5
RST 762	Research Methods II	1.5
RST 777	Advanced Quantitative Methods Lab	1
	or	
RST 778	Advanced Qualitative Research Methods	1
RST 775	Statistics for Social Research	3
RST 776	Advanced Multivariate Statistical Analysis	3
RST 782	Advanced Social Science Methods for Doctoral Research	2
	Total	12

Applied Research

Course	Title	Credit Hours
RST 771	Quantitative Research – Proposal	1.5
RST 772	Quantitative Research – Pilot	1.5
RST 773	Qualitative Research – Proposal	1.5
RST 774	Qualitative Research – Pilot	1.5
	Total	6

Dissertation*

Course	Title	Credit Hours
RST 799	Dissertation (minimum)	15

*Students who do not complete the dissertation after earning 15 credits of RST 799 will be required to remain continuously enrolled in RST 799 (one credit hour each term) until the dissertation is completed.

Concentrations

PK-12 Administration (Superintendent Licensure)

EDU 642	Philosophy of Education	3
EDU 646	International Education	3
LST 695	Topics in Organizational Leadership (must take two 3-credit topics courses)	6
	Total	12

Initial Administrative Licensure

Consult program advisor as requirements may vary based on prior academic preparation.

Doctor of Professional Studies (DProf) in Organizational Leadership

John R. Goss, III, Professor of Research Studies
Bowman Building, Office 215A; (540) 678-4447; jgoss@su.edu

Advanced study in Organizational Leadership at Shenandoah University offers learners the opportunity to think deeply, examine thoughtfully, and understand theoretically challenges and problems facing educational and other public organizations. The Doctor of Professional Studies (DProf) degree is appropriate to professionals with substantive experience in their respective professional field, experience which will inform and leverage learning designed to position learners for significant leadership roles in their professions.

A minimum of 66 credits is required in this program of study. The program is organized around a core of leadership and research courses (both theoretical and applied), complemented by courses in the learner's concentration. This program is unique among doctoral programs in its emphasis on the application of theory to real world problems and lived experiences. The dissertation requirement is more theoretically driven than that which is expected in the EdD in Administrative Leadership program.

The DProf is student-centered, inquiry-driven and problem-oriented. It is built around an interdisciplinary leadership and research core, with distinct program emphasis on a servant-leadership model appealing to professionals in institutions of public trust such as nonprofit service-oriented or community-based, public and private sector organizations, organizations and higher education professionals. The flexibility in design of a learner's concentration courses allows for optimal learning in one's specific area of interest.

Admissions Requirements

Applicants must have a minimum of 3.5 GPA in their master's degree.

Applicants must complete a writing prompt demonstrating their ability in scholarly writing.

Applicants must submit all college transcripts.

Applicants must schedule an interview with a member of the DProf program faculty.

Applicants must submit three recommendations: two from someone who can address the applicant's critical thinking abilities and one from a professional who knows the candidate's ability in the chosen field of concentration.

Transfer Credits

The DProf in Organizational Leadership is a 66-credit degree. With the dean of the College of Arts & Sciences and program faculty approval, students may substitute master's degree courses for courses in the doctoral program. However, additional courses may be required to create a viable degree program. Applicants needing foundational course work will be advised of the necessity before they will be permitted to take advanced level course work. Up to 15 transfer credits are permitted into SU doctoral programs; transfer credits are approved in consultation with the program director and/or advisor.

Program Requirements

Program Core

Course	Title	Credit Hours
LST 710	Leadership	3
LST 720	Societal Factors	3
LST 735	Organizational Theory and Behavior	3
LST 740	Governance and Public Policy	3
LST 750	Contemporary Issues in Leadership	3
	Total	15

Concentration

Course	Title	Credit Hours
LST 695	Approved graduate level (500-700) course work Topics in Leadership Studies (must take two 3-credit topics courses)	6
	Approved graduate level course work	12
	Total	18

Research Core

Course	Title	Credit Hours
RST 761	Research Methods I	1.5
RST 762	Research Methods II	1.5
RST 777	Advanced Quantitative Methods Lab	1
or		
RST 778	Advanced Qualitative Research Methods	1
RST 775	Advanced Statistics	3
RST 776	Advanced Multivariate Statistical Analysis	3
RST 782	Advanced Social Science Methods for Doctoral Research	2
	Total	12

Applied Research

Course	Title	Credit Hours
RST 771	Quantitative Research – Proposal	1.5
RST 772	Quantitative Research – Pilot	1.5
RST 773	Qualitative Research – Proposal	1.5
RST 774	Qualitative Research – Pilot	1.5
	Total	6

Dissertation*

Course	Title	Credit Hours
RST 799	Dissertation (minimum)	15

*Students who do not complete the dissertation after earning 15 credits of RST 799 will be required to remain continuously enrolled in RST 799 (one credit hour each term) until the dissertation is completed.

HARRY F. BYRD, JR. SCHOOL OF BUSINESS

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Mission

The mission of the Harry F. Byrd, Jr. School of Business is to educate its students to become successful, principled leaders with a global perspective.

Students will graduate with confidence in their ability to solve problems, be an effective communicator and work successfully as individuals and team members. The graduate curriculum prepares students to operate in a dynamic, ever-changing global economic environment.

Vision

The Harry F. Byrd, Jr. School of Business will become recognized as a provider of individualized business education driven by entrepreneurial thinking, global understanding and ethical practice.

Guiding Principles

The Harry F. Byrd, Jr. School of Business carries out its mission through its commitment to four guiding principles — learning, integrity, recognizing the contributions of others and continuous improvement.

MBA Program Learning Goals

The learning goals for the Master of Business Administration (MBA) program are driven by the business school's mission statement, which is to “educate its students to become successful, principled leaders with a global perspective.” It includes the following concepts:

1. Successful: to be able to make and communicate effective decisions.
 - a. To gather, validate, structure and communicate information, leveraging technology, in support of decision making. [Application]
 - b. To apply widely accepted, known decision models that are appropriate to the situation. [Analysis/Synthesis]
 - c. To integrate knowledge across business functions to identify the best decision. [Evaluation]
2. Principled: to be able to act ethically.
 - a. To apply ethical foundations to the role of business professionals in corporate, partnership and/or small business settings. [Application, Analysis, Synthesis]

- b. To recognize potential ethical dilemmas, evaluate their consequences and select the best course of action to follow. [Synthesis]
3. Leaders: to be able to demonstrate leadership qualities.
- a. To develop an action plan for developing leadership skills in oneself and others through a process of self-examination, classification of strengths and weaknesses and concluding with an appropriate leadership style. [Application, Analysis, Synthesis]
- b. To select the best style of leadership after assessing the situation, people involved and the organization. [Synthesis]
4. Global Perspective: to be able to function effectively in a global business environment.
- a. To demonstrate the ability to adjust business goals to global changes. [Application]
- b. To analyze how this adjustment affects each of the major business functions when moving from a domestic operation to a global operation. [Analysis]
- c. To develop an enterprise strategic plan to respond to the global marketplace. [Synthesis]
- d. To assess the achievements of a strategic plan and compare it to best practices in the field. [Evaluation]

MBA Program Description

The Harry F. Byrd, Jr. School of Business is committed to providing high-quality educational programs that assist individuals in their preparation to become principled leaders within the global business environment. The program is “value-added” for both the individuals who are pursuing the degree as well as for organizations that support them in their quest for higher education. Students bring knowledge and experience of their own work environments to bear on the educational process, enriching the learning experience for everyone. Graduates of the program attain increased confidence in their ability to identify problems and implement solutions, either individually or as creative members of business teams. Today’s managers need broad organizational understanding to successfully plan and discharge their areas of authority and responsibility. They need to know how to motivate, lead and work with people to accomplish organizational and personal objectives. The program is applicable for managers and leaders working in entrepreneurial enterprises, corporations and governmental agencies regardless of their undergraduate studies. Classroom discussions, seminars and integrated case studies prove especially valuable to managers whose formal undergraduate education was highly specialized.

The advantages of the Shenandoah University MBA program include:

- Accredited by AACSB International
- Small classes with high level of student-faculty interaction
- Experienced, caring faculty
- Evening and weekend classes for varying work schedules
- No need to relocate job, family or home

- New state-of-the-art building
- Provides additional hours to fulfill the CPA licensure requirement

Master of Business Administration Program

The entire MBA program with foundational courses consists of 16 courses. For students with the appropriate undergraduate preparation, the four foundational courses may be waived. The remaining 12 courses are required. The waiving of courses is determined by the Graduate Admissions Committee of the Harry F. Byrd, Jr. School of Business. All MBA students are required to have laptop computers with repair warranties.

Foundation Requirements – Four Courses

Course	Title	Credit Hours
ACCT 501	Financial and Managerial Accounting (May be waived if the student has completed the equivalent of Principles of Accounting I and II)	3
BUS 501	Introduction to Management and Marketing (May be waived if the student has completed the equivalent of Principles of Management and Principles of Marketing)	3
ECN 501	Economic Concepts and Policies (May be waived if the student has completed the equivalent of Principles of Macroeconomics and Principles of Microeconomics)	3
MIS 511	Statistical Analysis and Forecasting (May be waived if the student has completed the equivalent of Statistics and Data Analysis, and Quantitative Methods)	3
	Total	12

Core Curriculum – 12 Courses

Course	Title	Credit Hours
ACCT 511	Accounting for Decision Making and Control	3
BAFI 517	Financial Management	3
ECN 517	Business in the Global Economy I	3
ECN 519	Business in the Global Economy II	3
MGT 513	Organizational Structure and Behavior	3
MGT 535	Human Resource Management, Employment Law and Ethics	3
MIS 514	Decision Sciences and MIS	3
MKT 511	Marketing Theory and Practice	3
SCM 530	Operations and Supply Chain Management	3
MGT 611	Management, Policy Formulation and Systems Analysis	3
	Electives (2)	6
	Total	36

Electives may be taken in all functional areas of graduate study offered by the Harry F. Byrd, Jr. School of Business. Students may request to take other graduate courses offered within the university; however, permission of the director of the MBA program is required to take elective course work outside of the business school.

MBA Essentials Certificate

Mesut Yavuz, MBA Program Director

Halpin-Harrison Hall, Room 210, (540) 545-7343, myavuz@su.edu

The MBA Essentials Certificate consists of the four MBA Foundation courses (ACCT 501, BUS 501, EC 501 and MIS 511) and BUS 509 Business Applications in which the principles introduced in the MBA foundation courses are further developed, applied and integrated using the case study method. This program is well-suited for persons with an undergraduate degree seeking a coherent educational program in business but not able at the current time to commit to the completion of an MBA degree. The program is designed so that all of the coursework taken as part of this program will be useful to completing the MBA degree. Admission to this program involves the same process and requirements as admission to the MBA program. Completion of the certificate requires completion of the five aforementioned courses, including the Business Applications course and at least two others at the Byrd School as part of this program, no more than one course having a grade of "C" or lower; and an average grade point average of 3.0 in the courses taken at the Byrd School.

Admission Process

The minimum requirement for admission to the MBA program at Shenandoah University is a bachelor's degree in any field of study from a regionally or, in the case of international students, nationally accredited institution. Students applying from non-accredited institutions will be required to demonstrate that their academic preparation is equivalent to that obtained from an accredited institution. Other factors involved in the admission decision include one's professional attainment, potential for growth and cumulative grade point average in undergraduate and graduate studies.

Admission Requirements

Applicants are required to submit a completed Graduate Application for Admission with the required \$30 fee.

International students are required to submit the International Application for Admission with the required \$30 fee.

Applicants are required to provide official transcripts from all institutions of higher education previously attended.

Applicants are required to provide two letters of recommendation from former professors or business colleagues who can attest to the applicant's ability to successfully pursue graduate study in business administration.

Applicants are required to provide a brief narrative (2 or 3 pages) of one's career, professional development and professional goals as they relate to the completion of the Master of Business Administration degree. In addition, the applicant must submit a detailed resume.

As soon as the graduate application and all required documents have been received, an interview with the director of the MBA program is arranged, after which the Graduate Admissions Committee of the Harry F. Byrd, Jr. School of Business makes the definitive recommendation on admission. The committee indicates which foundational courses are

required, as well as which graduate courses, if any, may be accepted in transfer. The decision of the committee is communicated to the applicant by the Office of Admissions.

Transfer Credit

A maximum of six credit hours may be transferred for credit from another institution. Transfer credit will be awarded only when all of the following conditions are met:

1. The requested credit is an equivalent graduate level course.
2. The student was enrolled in a graduate course at an AACSB International accredited institution.
3. The student received an "A" or "B" in the course.
4. The course content is compatible with the MBA program at Shenandoah University. The student shall be responsible for providing a detailed description of the course (i.e., syllabus or catalog entry). Final determination of credit will be made by the Graduate Admissions Committee of the Harry F. Byrd, Jr. School of Business.
5. The course was taken within the last three years.

Degree Requirements

The following requirements must be met for the Master of Business Administration degree:

1. Successfully complete the outlined program (36 credit hours excluding any required foundation courses) as identified by the student's advisor. Not more than six credit hours of course work graded "C" may be included in the outlined program.
2. Attain at least a 3.0 grade point average in total work attempted in the MBA program. A student who receives a grade of "F" may be asked to withdraw from the program.
3. Complete all degree requirements within five calendar years of initial registration of the outlined program. Students who take more than two years to complete the program and have had graduate credit transferred from another institution may have that transfer credit removed if it falls outside of the five-year time frame for the completion of the degree.

Graduation

The graduation application can be obtained from, and must be returned to, the Registrar's Office by the application deadline.

Course Load

Upon enrolling in the MBA program, the student meets with the director of the MBA program to develop a plan of study for the completion of the degree program. Part-time students normally take two courses per academic term, while full-time students take three or four courses. Other course options will be considered; however, any variation from the stated program will require permission of the director of the MBA program.

Schedule of Classes

Evening classes are held four nights a week on Monday, Tuesday, Wednesday and Thursday from 6 to 8:30 p.m. or 6:30 to 9 p.m. The academic year consists of two semesters and a summer session. A part-time student generally attends classes two nights per week, while full-time students attend three or four nights per week.

In addition, the MBA program is offered in a weekend format. This is a 16-month program consisting of three courses per academic term, not including any required foundational courses. Classes meet on alternating weekends from 6 to 10 p.m. on Fridays and from 8:30 a.m. to 12:30 p.m. and 1:30 to 5:30 p.m. on Saturdays.

SHENANDOAH CONSERVATORY

Michael J. Stepniak, Dean
Ruebush Hall, Room 108, (540) 665-4600
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Mission Statement

Shenandoah Conservatory offers undergraduate and graduate curricula that provide professional education for the development of artistic, intellectual and creative excellence in music, theatre and dance. Degree, diploma and certificate programs are structured to meet individualized professional/artistic goals and provide preparation for post-graduate study. Moreover, programs at Shenandoah Conservatory are designed to cultivate leadership skills and active participation in the advancement of the arts in a global society.

Audition Information

For students seeking to enter a degree program for which an audition is required, a live audition on campus is encouraged. Advance approval from the Conservatory Admissions Office is required for submission of all pre-recorded auditions. Use of a video format is required (DVD preferred).

Doctoral students must audition in person with the exception of international applicants residing outside the United States.

Audition requirements are detailed with curriculum descriptions in the following pages.

Entrance Examinations

International students applying to master's and doctoral degrees must take the TOEFL examination and earn a minimum score as published by the Office of Admissions. Complete information regarding the requirements for non-native speakers of English is available from the Office of Admissions.

International students applying to artist diploma programs are not required to demonstrate language proficiency, but are encouraged to submit TOEFL scores to assist the faculty in academic advising.

The Graduate Record Examination (GRE) is not required for admission.

Diagnostic Examinations

All new Conservatory graduate students are required to take diagnostic examinations. Entering master's students are required to take a diagnostic examination in music theory. Entering doctoral students must take diagnostic examinations in music literature and music theory. Both master's and doctoral students in Conducting are required to take a diagnostic examination in diction. Arts Administration, Artist Diploma and certificate students are exempt from taking diagnostic examinations. Diagnostic examinations are administered at the beginning of the summer and fall terms. These examinations are designed to assess appropriate knowledge required for all graduate

students completing degree programs at Shenandoah University.

Examinations are graded pass/fail. Students who are not successful in achieving a passing grade in any part of the examination have two options to demonstrate competency:

- Enroll in courses designed to remediate the lack of knowledge in an area. A grade of "C" is required; or
- Study independently and retake the examination. Examinations may be taken a total of two times. Thereafter completion of an appropriate course with a minimum grade of "C" is required.

Comprehensive and Qualifying Examinations

Oral, qualifying, or comprehensive examinations occur at or near the completion of all graduate degree programs. Comprehensive examinations include demonstration of knowledge in music literature, music theory and the area of specialization. Qualifying examinations demonstrate knowledge in the area of specialization.

Master's degree examinations for students in all curricula are comprehensive in content and are administered orally for students in church music, collaborative piano, composition, conducting, pedagogy and performance. Examinations for students in music education, music therapy, and arts administration are administered in a written format.

At the doctoral level, comprehensive examinations are administered in a written format for students in instrumental performance and conducting curricula. Qualifying examinations are administered in a written format for students in music education, pedagogy and keyboard and voice performance curricula.

Successful completion of doctoral comprehensive and qualifying examinations is prerequisite to registration for dissertation credit (CONR 899) or the doctoral lecture recital (CONR 698) and lecture recital document (CONR 693).

Detailed information related to comprehensive and qualifying examinations may be found online in the Graduate Study Policies and Procedures Manual.

Candidacy Status

Students in doctoral programs achieve candidacy upon successful completion of all comprehensive or qualifying examinations. Candidacy is not required in master's degree programs.

Participation in Commencement – Shenandoah Conservatory Procedures

The policy on student participation in commencement ceremonies, colloquially termed "walking," appears in the Academic Policies section of this catalog.

Specific implementation for Conservatory students:

Permission to "walk" must be requested in writing and submitted to the associate dean for graduate studies. When time permits, decisions to approve requests are made in conjunction with the Conservatory division chairs. Official "Permission to Walk" forms are available in the Conservatory Office. See "Student Participation in Commencement Ceremony" in the Academic Policies section of this catalog.

Certificate in Church Music

Steven L. Cooksey, Professor of Music
 Goodson Chapel, (540) 665-4633; scooksey@su.edu

The graduate Certificate in Church Music contains basic skill development for church musicians and is offered in three summer sessions, each one week in length, during three consecutive summers.

Program Objectives

Students completing the Certificate in Church Music will be able to:

- demonstrate knowledge of repertoire for liturgical settings;
- demonstrate the ability to lead a rehearsal or music component of a church service; and
- demonstrate a variety of conducting techniques for use with children and adults.

Course and Credit Requirements for the Graduate Certificate in Church Music

Course	Title	Credit Hours
MUCH 531	Church Music 1 Children's Choir Methods and Materials Conducting for Church Musicians Music and Worship 1	3
MUCH 532	Church Music 2 Adult Choir Methods and Materials Church Music Seminar 1 Conducting for Church Musicians	3
MUCH 533	Church Music 3 Organ Repertoire for the Church 1 Choral Conducting for Church Musicians Music and Worship 2	3
MUCH 534	Church Music 4 Church Music Seminar 2 Organ Repertoire for the Church 2 Service Playing and Console Conducting	3
MUCH 535	Church Music 5 Hymnology 1 Music and Worship 3 Instruments and Worship	3
MUCH 536	Church Music 6 Church Music Seminar 3 Advanced Choral Conducting for Church Musicians Hymnology 2	3
	Total	18

Admission Guidelines and Requirements

Students submit transcripts from all post-secondary school study. There is no audition for admission to the Graduate Certificate in Church Music. Students in the graduate Certificate in Church Music program conduct research resulting in a major term paper, or the equivalent, in every graduate course, in addition to all other course requirements.

Certificate in Music Therapy

Michael Rohrbacher, Associate Professor of Music
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The Certificate in Music Therapy at Shenandoah University is designed for individuals who currently hold bachelor's degrees in music or a related field and wish to be gainfully employed as a music therapist with the credential, Music Therapist-Board Certified (MT-BC). Based on review of the applicant's undergraduate degree transcripts, prior work-related experience and skill-related needs, and in addition to the completion of core music therapy courses, other courses may be required for eligibility to sit for the national examination in music therapy and to demonstrate professional competencies established by the American Music Therapy Association.

Program Objectives

Students completing the Certificate in Music Therapy will be able to:

- demonstrate knowledge of clinical foundations across distinct population groups;
- demonstrate a variety of methods for clinical settings;
- demonstrate the ability to document music therapy services according to assessment, implementation and evaluation;
- demonstrate the ability to implement music therapy services across distinct population groups;
- demonstrate knowledge of music theory, music history, world music and music technology; and
- demonstrate the ability to analyze, critically evaluate and synthesize music therapy literature.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program. Transcripts from all post-secondary school study must be submitted. Applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

An audition is required if the applicant's undergraduate transcript does not show four semesters of applied major study equivalent to AP** 202.

An interview with the director of the Music Therapy program is required and includes a transcript review.

When the content of the baccalaureate degree that forms the basis for acceptance into the Certificate in Music Therapy program does not include courses in the categories of Musical Foundations, Clinical Foundations and General Education, as described below, students may take such courses in university or college settings other than Shenandoah University upon approval by the associate dean for graduate studies. Except with permission of the director of the Music Therapy program, all academic and field placement

course requirements and/or competencies must be fulfilled before enrollment in core music therapy internship courses and before the Certificate in Music Therapy is awarded.

Musical Foundations Requirements

Studies in music should comprise at least 54 undergraduate semester hours, or the equivalent, in which competencies established by the American Music Therapy Association for the following skill areas are demonstrated: music theory and history, composition and arranging, major performance medium, keyboard, guitar, voice non-symphonic instruments, improvisation, conducting and movement. Typical courses include: four semesters of music theory with competency equivalent to MUTC 201, MUTC 203 and MUTC 205; two semesters of music history with competency equivalent to the course content presented in MULT 203, MULT 204, and MULT 205; applied major study in an instrument or voice with competency equivalent to AP** 202; and four semesters of traditional ensemble experience.

Clinical Foundations Requirements

Studies in clinical foundations should comprise at least 18 undergraduate semester hours, or the equivalent, in which competencies established by the American Music Therapy Association for the following areas are demonstrated: exceptionality and psychopathology, normal human development, principles of therapy and the therapeutic relationship. Typical courses are in the areas of abnormal psychology, anatomy and physiology and exceptional children.

General Education Requirements

A minimum of 33 undergraduate semester hours or the equivalent are required.

Transfer of Credits

Undergraduate courses in the categories of musical foundations and clinical foundations may be transferred to Shenandoah University from a previously earned degree, or may be taken at university or college settings other than Shenandoah University upon approval by the associate dean for graduate studies.

Up to nine graduate credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives.

Requirements

The requirement is 30 credit hours and an overall grade point average of 3.0.

Course and Credit Requirements for the Certificate in Music Therapy

Course	Title	Credit Hours
MUTH 511	Applications of Music Therapy	2
MUTH 512	Music in Therapy	2
MUTH 521	Standards of Clinical Practice	2
MUTH 522	Music Therapy Methods	2
MUTH 531	Psychology of Music	2
MUTH 532	Influence of Music on Behavior	2
MUTH 550	Music Therapy Clinical Experience 1	3
MUTH 551	Music Therapy Clinical Experience 2	3
MUTH 583	Music Therapy Internship I	3

MUTH	584	Music Therapy Internship 2	3
MUTH	585	Music Therapy Internship 3	3
MUTH	586	Music Therapy Internship 4	3
		Total	30

Master of Music Education

David Zerull, Professor of Music

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The Master of Music Education (MME) degree is designed to provide students with opportunities to enhance and develop skills and knowledge. The curriculum includes three general areas of study: 1) music education; 2) applied music, accompanying, conducting and pedagogy; and 3) music literature and theory. Graduate study culminates with either a thesis or a research/teaching project. The Master of Music Education degree is designed for the practicing music educator with instruction offered during summer-intensive terms of study.

Program Objectives

Students completing the Master of Music Education degree will be able to:

- demonstrate knowledge of historical and philosophical foundations of music education;
- demonstrate knowledge of current educational techniques, policies and trends;
- demonstrate an ability to lead a class or ensemble;
- demonstrate knowledge of music theory and music history; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, or equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program. Most applicants present a baccalaureate degree in music education or are licensed teachers. Applicants must document a minimum of one year of teaching experience at elementary or secondary school levels in a private or public school. Specific teacher licensure requirements at Shenandoah Conservatory are met through the completion of the undergraduate degree in music education.

As part of the Shenandoah University graduate application process, applicants submit: (a) a letter of intent that addresses their interest in the program and lists their professional goals, (b) a resume, (c) official transcripts from all post-secondary school study, and (d) a 300-word writing sample. Within the writing sample, the applicant presents a current issue or trend in music education and discusses implications for music teaching and music learning. Include citations in the American Psychological Association (APA) Manual of Style format. A performance audition is not required.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives.

Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours with grades of "B" or better in specified courses and an overall grade point average of 3.0.

Course and Credit Requirements for the Master of Music Education Degree

Course	Title	Credit Hours
CONR 601	Bibliography and Research	3
MUED 603	History and Philosophy of Music Education	3
MUED 604	Educational Measurement	3
MUED 605	Curriculum and Assessment in Music Education	3
CONR 698	Research/Teaching Project	4+
or		
CONR 699	Thesis	
	Conducting Elective	1
	Applied Music, Accompanying, Conducting or Pedagogy Electives	3
MUTC 501	Form and Analysis	2
or		
MUTC 520	Graduate Theory Seminar I	
	Music Literature and Theory Electives (Both areas must be represented)	4
	Music, Music Education or Education electives (workshop and ensemble electives limited to four credits)	4
	Comprehensive Examination	Pass/Fail
	Total	30

+After initial registration in CONR 698 or CONR 699, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. Extra CONR culminating research credits may not be used as elective credits.

Master of Music in Church Music

Steven L. Cooksey, Professor of Music
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The Master of Music in Church Music curriculum is designed for the professional church musician who wishes to extend his or her knowledge and skills in the field.

Program Objectives

Students completing the Master of Music in Church Music degree will be able to:

- demonstrate musicianship in solo performance;
- demonstrate knowledge of repertoire for liturgical settings;
- demonstrate the ability to lead a rehearsal or music component of a church service;
- demonstrate knowledge of music theory and music history; and
- demonstrate the ability to research and write.

Entrance Requirements

Church Music applicants must hold a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) and have completed six credits in Shenandoah University's Summer Church Music Institute or the equivalent. Transcripts from all post-secondary school study must be submitted and must parallel content required in the Bachelor of Music in Church Music curriculum at Shenandoah Conservatory. Identified deficiencies based on transcript analysis by the associate dean for graduate studies, including a solo half recital and all course requirements, must be made up and may apply toward the Master of Music in Church Music curriculum as electives only when a parallel class is available at the graduate level.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives. Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Course and Credit Requirements for the Master of Music in Church Music Degree (Organ Applied Emphasis)

Course	Title	Credit Hours
APVO 501	Applied Voice (2 successful completions)	2
APCN 501	Applied Conducting (2 successful completions)	2
APOG 501	Applied Organ (2 successful completions)	2
APOG 601	Applied Organ (2 successful completions)	2
MUCH 504	Organ Repertoire for the Church I	1
MUCH 505	Organ Repertoire for the Church 2	1
MUCH 506	Service Playing and Console Conducting	1

MUCH	511	Hymnology 1	1
MUCH	512	Hymnology 2	1
MUCO	567	Choral Conducting for Church Musicians 1	1
MUCO	568	Choral Conducting for Church Musicians 2	1
CONR	601	Bibliography and Research	3
MUPP	531	Graduate Half Recital (in organ)	1
MUPP	531	Graduate Half Recital (in conducting)	1
MUTC	501	Form and Analysis	2
		Electives	8
		Maximum of three credits from Graduate Church	
		Music Institute (select from the following):	
		APMC 501 Applied Composition	
		MULT 502 Oratorio/Choral Literature	
		MUPP 533 Anatomy and Function of the Singing Voice	
		MUEN Ensemble	
		Other electives as individually approved by advisor	
		(maximum of four credit hours of ensemble may	
		be applied toward degree requirements)	
		Comprehensive Examination	Pass/Fail
		Total	30

Course and Credit Requirements for the Master of Music in Church Music Degree (Voice Applied Emphasis)

Course		Title	Credit Hours
APOG	501	Applied Organ (2 successful completions)	2
APCN	501	Applied Conducting (2 successful completions)	2
APVO	501	Applied Voice (2 successful completions)	2
APVO	601	Applied Voice (2 successful completions)	2
MUCH	511	Hymnology 1	1
MUCH	512	Hymnology 2	1
MUCO	567	Choral Conducting for Church Musicians 1	1
MUCO	568	Choral Conducting for Church Musicians 2	1
CONR	601	Bibliography and Research	3
MULT	502	Oratorio/Choral Literature	3
MUPP	531	Graduate Half Recital (in voice)	1
MUPP	531	Graduate Half Recital (in conducting)	1
MUTC	501	Form and Analysis	2
		Electives	8
		Maximum of three credits from Graduate Church	
		Music Institute (select from the following):	
		APMC 501 Applied Composition	
		MUPP 533 Anatomy and Function of the Singing Voice	
		MUEN Ensemble	
		Other electives individually approved by advisor	
		(maximum of four credit hours of ensemble may be	
		applied toward degree requirements)	
		Comprehensive Examination	Pass/Fail
		Total	30

Course and Credit Requirements for the Master of Music in Church Music Degree (Conducting Applied Emphasis)

Course	Title	Credit Hours
APVO 501	Applied Voice (2 successful completions)	2
APOG 501	Applied Organ (2 successful completions)	2
APCN 501	Applied Conducting (2 successful completions)	2
APCN 601	Applied Conducting (2 successful completions)	2
MUCH 511	Hymnology 1	1
MUCH 512	Hymnology 2	1
MUCO 567	Choral Conducting for Church Musicians 1	1
MUCO 568	Choral Conducting for Church Musicians 2	1
CONR 601	Bibliography and Research	3
MULT 502	Oratorio/Choral Literature	3
MUPP 531	Graduate Half Recital (in voice or organ)	1
MUPP 531	Graduate Half Recital (in conducting)	1
MUTC 501	Form and Analysis	2
	Electives	8
	Maximum of three credits from Graduate Church Music Institute (select from the following):	
	APMC 501 Applied Composition	
	MUPP 533 Anatomy and Function of the Singing Voice	
	MUEN Ensemble	
	Other electives individually approved by advisor (maximum of four credit hours of ensemble may be applied toward degree requirements)	
	Comprehensive Examination	Pass/Fail
	Total	30

Master of Music in Composition

William E. Averitt, Professor of Music

Ruebush Hall, Room 139; (540) 665-4630; waveritt@su.edu

The Master of Music in Composition curriculum is designed to enhance the skills of the composer of serious art music.

Program Objectives

Students completing the Master of Music in Composition degree will be able to:

- demonstrate a variety of techniques in the composition of original music;
- demonstrate knowledge of music theory and music history;
- employ technology and demonstrate knowledge of technological resources; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale), prior to admission into the program. Transcripts from all post-secondary school study must be submitted.

As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

Composition applicants audition through submission of at least two manuscripts in different genres, including one work for large ensemble. When possible, recordings of performances should accompany the manuscripts.

The credits presented from baccalaureate level study must parallel those required in the Bachelor of Music in Composition curriculum at Shenandoah Conservatory. Identified deficiencies based on transcript analysis by the associate dean for graduate studies must be made up and may apply toward the Master of Music in Composition curriculum as electives only when a parallel class is available at the graduate level.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives.

Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Students must complete a minimum of four credits of CONR 694, Composition Project, as the culminating project. The culminating project is to take the form of a large-scale original work of at least 10 minutes duration and is to be scored for a large ensemble such as orchestra, chamber orchestra, wind ensemble, soloist(s) and/or chorus with orchestra, etc. Any exceptions must be approved by the composition faculty. The score must be copied using Finale® or a similar quality computer music copy program.

For presentation at the final jury, each copy of the score is to be accompanied by a concise, but thorough, descriptive analysis of the materials and formal structures utilized by the composer in the thesis piece.

Course and Credit Requirements for the Master of Music in Composition Degree

Course	Title	Credit Hours
APMC 502	Applied Composition (2 successful completions)	4
APMC 602	Applied Composition (2 successful completions)	4
CONR 601	Bibliography and Research	3
MUTC 520	Graduate Theory Seminar 1	2
MUTC 530	Graduate Theory Seminar 2	2
CONR 694	Culminating Project	4+
	Music Literature electives	6
	Recommended Electives	5
	Conducting	
	Applied music	
	Music Theory courses	
	Ensemble	
	(maximum of four credit hours of ensemble may be applied toward degree requirements)	
	Comprehensive Examination	Pass/Fail
	Total	30

+After initial registration in CONR 694, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of four credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Master of Music in Conducting

Elizabeth Caluda, Professor of Music

Ruebush Hall, Room 240; (540) 665-4629, ecaluda@su.edu

The Master of Music in Conducting curriculum is designed to develop conducting, analysis and interpretive skills. Students normally focus in either instrumental, choral or musical theatre conducting.

Program Objectives

Students completing the Master of Music in Conducting degree will be able to:

- demonstrate conducting techniques in a variety of settings;
- demonstrate the ability to lead a rehearsal;
- demonstrate knowledge of music theory and music history;
- demonstrate knowledge of the history of conducting;
- demonstrate knowledge of score study and analysis;
- employ technology and demonstrate knowledge of technological resources;
- demonstrate the ability to express ideas orally; and
- demonstrate the ability to research and write.

Entrance Requirements

Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

Deficiencies in basic musicianship studies based on transcript analysis by the associate dean for graduate studies must be made up, and may apply toward the Master of Music in Conducting curriculum as electives only when a parallel class is available at the graduate level. Students preparing for choral conducting must present competencies in vocal pedagogy, diction and language skills gained in baccalaureate study, or complete such studies with master's degree electives.

Conducting degrees are offered in Band/Wind Ensemble, Orchestra, Choral and Musical Theatre conducting. Audition requirements are as follows: a face-to-the-camera video recorded audition (DVD preferred) conducting a rehearsal and/or a performance, an audio tape of a representative performance, and a resume with a repertoire list of actual works conducted. It is acceptable to use a smaller ensemble (e.g., string quartet and piano) performing a reduced version of a composition. The video recording or DVD must be at least 10 minutes in length; the applicant should identify him/herself, speak about his/her musical background and describe his/her goals in pursuing graduate studies in conducting. The applicant's name and address, the names of the works and movements, and the degree program to which the applicant is applying should be clearly indicated on the videotape or DVD so that it can be identified. Musical Theatre conducting applicants must also complete a piano audition that includes two contrasting overtures from standard musical theatre repertoire and sightreading from musical theatre scores.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives. Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Students must complete MUPP 640 Masters Performance Recital (2 credits).

Students in the Band/Wind Ensemble, Orchestra or Choral tracks will conduct 45 minutes of works representing the Baroque, Classical, Romantic and Contemporary periods. The concert, or performances on a series of concerts, may include a large chamber ensemble and/or full orchestra. Musical theatre students will conduct a minimum of one act of a musical or revue. The performance may be a fully-staged production or in concert.

Course and Credit Requirements for the Master of Music in Conducting Degree

Course	Title	Credit Hours
APCN 502	Applied Conducting (2 successful completions) (includes performance requirements)	4
APCN 602	Applied Conducting (2 successful completions) (includes performance requirements)	4
MUCO 566 or MUCO 563 or MUCO 564	Advanced Conducting Advanced Choral Conducting Advanced Instrumental Conducting	2
CONR 601	Bibliography and Research	3
MUPP 640	Graduate Performance Recital	2
MUTC 520	Graduate Theory Seminar 1	2
MUTC 530	Graduate Theory Seminar 2	2
	Music Literature electives	6
	Recommended Electives	5
	APMC 501 Applied Composition	
	Applied music	
	MUTC 521 Arranging	
	Ensemble	
	(maximum of 4 credit hours of ensemble may be applied toward degree requirements)	
	Comprehensive Examination	Pass/Fail
	Total	30

Applied Conducting Policies

For graduate students accepted into the Master of Music in Conducting curriculum:

Opportunities for laboratory conducting experiences with Conservatory ensembles and productions are available at the discretion of the applied conducting teacher and the conductor of the ensemble or music director of the production.

All ensembles must be existing groups. New groups offered for credit are not organized to provide a laboratory conducting setting.

The number of students accepted into the Master of Music in Conducting curriculum will be governed by the number of available laboratory settings.

Any public performance will be screened in advance by a faculty committee.

Applied choral conducting instruction is registered through the chair of the Vocal/Choral Division.

Applied instrumental conducting instruction is registered through the chair of the Instrumental Division.

Applied musical theatre conducting instruction is registered through the chair of the Theatre Division.

Master of Music in Pedagogy

Janette Ogg, Professor of Music

Ruebush Hall, Room 236; (540) 665-4544; jogg@su.edu

The Master of Music in Pedagogy curriculum is designed for students who seek careers as teachers of applied music. The curriculum addresses teaching strategies for repertoire and technique, as well as management and technological issues.

Program Objectives

Students completing the Master of Music in Pedagogy degree will be able to:

- demonstrate musicianship in solo and collaborative performance;
- demonstrate knowledge of applied teaching repertoire within area of specialization;
- demonstrate knowledge of arts management/business as related to studio teaching;
- demonstrate knowledge of music theory and music history;
- employ technology and demonstrate knowledge of technological resources;
- demonstrate the ability to express ideas orally; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale), prior to admission into the program. Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

The music performance area at the master's level must have been the applied major area at the baccalaureate level. The credits presented from baccalaureate level study must parallel those required in the Bachelor of Music in Performance curriculum at Shenandoah Conservatory. Identified deficiencies based on transcript analysis by the associate dean for graduate studies, including a solo recital and all course requirements, must be made up and may apply toward the Master of Music in Pedagogy curriculum as electives only when a parallel class is available at the graduate level.

For Voice applicants, a 30-minute (minimum) recital, with formal program to include stylistically and historically balanced content is required. The auditioning committee will make a selection from the materials presented. A minimum of three languages must be represented. Both operatic and art song repertoire should be presented at the audition. Memorization is required. The applicant may bring his or her own accompanist, or one will be provided at the applicant's expense.

Voice applicants must demonstrate competence in language skills by including at least one selection in each of the Italian, French and German languages. A minimum of four semesters language study at the undergraduate level is required for all entering graduate students in Pedagogy with a vocal emphasis: one semester each of French, German and Italian with an additional semester in French or German. Deficiencies in

this area will be identified in the initial transcript analysis by the associate dean for graduate studies.

The repertoire at voice and piano auditions must be performed from memory.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives.

Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Course and Credit Requirements for the Master of Music in Pedagogy Degree Voice Applied Majors

Course	Title	Credit Hours
APRP 501	Applied Teaching Repertoire (2 successful completions)	2
APTT 501	Applied Teaching Technique (2 successful completions)	2
MUPP 536	Supervised Private Teaching	3
MUPP 538	Business of Studio Teaching	1
MUPP 539	Technology and Music Training	2
AP** 502	Applied Major	2
or		
AP** 501	(2 successful completions)	
AP** 602	Applied Major	2
or		
AP** 601	(2 successful completions)	
MUTC 520	Graduate Theory Seminar I	2
MULT	Music Literature Electives	2
CONR 601	Bibliography and Research	3
MUPP 533	Anatomy and Function of the Singing Voice	3
MUPP 555	Contemporary Commercial Music Vocal Pedagogy I	1
MUPP 556	Contemporary Commercial Music Vocal Pedagogy 2	1
Performance focus voice applied majors:		
MUPP 640	Graduate Performance Recital	2
MUPP 642	Graduate Lecture Recital	1
plus		
CONR 693	Lecture Recital Document	1+
or		
MUPP 693	Graduate Performance Recital (a second completion)	2+
Research focus voice applied majors:		
CONR 698	Research/Teaching Project	4+
or		
CONR 699	Thesis	
	Comprehensive Examination	Pass/Fail
	Total	30

Keyboard Applied Majors

APRP	501	Applied Teaching Repertoire (2 successful completions)	2
APTT	501	Applied Teaching Technique (2 successful completions)	2
MUPP	536	Supervised Private Teaching	3
MUPP	538	Business of Studio Teaching	1
MUPP	539	Technology and Music Training	2
AP**	502	Applied Major (2 successful completions)	4
MUTC	520	Graduate Theory Seminar I	2
MULT		Music Literature Electives	2
CONR	601	Bibliography and Research	3
AP**	602	Applied Major (2 successful completions)	4
MUPP	640	Graduate Performance Recital	2
MUPP	642	Graduate Lecture Recital	1
	plus		
CONR	693	Lecture Recital Document	1+
		Elective	1
		Comprehensive Examination	Pass/Fail
		Total	30

Instrumental Applied Majors

APRP	501	Applied Teaching Repertoire (2 successful completions)	2
APTT	501	Applied Teaching Technique (2 successful completions)	2
MUPP	536	Supervised Private Teaching	3
MUPP	538	Business of Studio Teaching	1
MUPP	539	Technology and Music Training	2
AP**	502	Applied Major (2 successful completions)	4
MUTC	520	Graduate Theory Seminar I	2
MULT		Music Literature Electives	2
CONR	601	Bibliography and Research	3
AP**	602	Applied Major (2 successful completions)	4
MUPP	640	Graduate Performance Recital	2
	or		
MUPP	642	Graduate Lecture Recital	1
	plus		
CONR	693	Lecture Recital Document	1+
		Electives (select from):	3
		MUTC 530 Graduate Theory Seminar 2	
		Music literature electives	
		Ensemble	
		Comprehensive Examination	Pass/Fail
		Total	30

+After initial registration in CONR 698, CONR 699 or CONR 693, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of four (research teaching project or thesis) credits or two (lecture recital) credits may be used to fulfill degree requirements. Extra CONR credits may not be used as elective credit.

Master of Music in Performance

Instrumental/Keyboard: Elizabeth Caluda, Professor of Music
Ruebush Hall, Room 240; (540) 665-4629, ecaluda@su.edu
Voice: Charlotte Aiosa, Professor of Music
Ruebush Hall, Room 210; (540) 665-4580, caiosa@su.edu

The Master of Music in Performance curriculum is designed to develop skills in performance and interpretation, supported by a knowledge base in historical and analytical areas.

Program Objectives

Students completing the Master of Music in Performance degree will be able to:

- demonstrate musicianship in solo performance;
- perform a variety of repertoire;
- perform in a variety of settings;
- demonstrate knowledge of music theory and music history; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program. The music performance area at the master's level must have been the applied major area at the baccalaureate level.

Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit writing samples that address their intent for joining the program and list their professional goals.

The credits presented from baccalaureate-level study must parallel those required in the Bachelor of Music in Performance curriculum at Shenandoah Conservatory. For Voice majors, a minimum of four semesters language study at the undergraduate level is required for all entering graduate students in Performance: one semester each of French, German and Italian with an additional semester in French or German. Deficiencies in this area will be identified in the initial transcript analysis by the associate dean for graduate studies. All identified deficiencies based on transcript analysis by the associate dean for graduate studies must be made up and may apply toward the Master of Music in Performance curriculum as electives only when a parallel class is available at the graduate level. Requirements from undergraduate study include a solo recital and course work in form and analysis. Additional requirements for Voice applicants include languages, diction and a survey course in vocal literature.

Audition Requirements by Performance Area

Voice: A 30-minute (minimum) recital, with formal program to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A minimum of three languages must be represented. Both operatic and art song repertoire should be presented at the audition. Memorization is required.

The applicant may bring his or her own accompanist, or one will be provided at the applicant's expense.

Organ: A minimum of three works, to include one chorale prelude or prelude and fugue of J. S. Bach and two additional works of contrasting styles.

Piano: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee. Memorization is required.

String, Woodwind, Brass: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee.

Percussion: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. Applicants must perform on timpani, snare drum and mallets; multiple percussion is optional. Music written specifically for the instruments is preferred although some transcriptions may be included. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives. Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 to 31 credit hours and a grade point average of 3.0.

Recital Requirements

Voice Majors

MUPP 640 – Graduate Performance Recital
 Plus choice of one of the following:
 MUPP 640 – Graduate Performance Recital
 (a second completion) or
 CONR 699 – Thesis

Instrumental Majors

MUPP 640 – Graduate Performance Recital
 Plus choice of one of the following:
 MUPP 640 – Graduate Performance Recital (a second completion) or
 MUPP 642 – Graduate Lecture Recital plus
 CONR 693 – Lecture Recital Document

Keyboard Majors

MUPP 640 – Graduate Performance Recital

MUPP 640 – Graduate Performance Recital (a second completion)

Details regarding recital requirements may be found in the Graduate Study Policies and Procedures Manual and in the Recital Performance Guide.

Course and Credit Requirements for the Master of Music in Performance Degree

All Applied Majors

Course	Title	Credit Hours
AP** 502	Applied Music (2 successful completions)	4
AP** 602	Applied Music (2 successful completions)	4
CONR 601	Bibliography and Research	3
MUPP 640	Graduate Performance Recital (see options above)	2
MUPP 640	Graduate Performance Recital (see options above)	2+
MUTC 520	Graduate Theory Seminar 1	2
MUTC 530	Graduate Theory Seminar 2	2
	Music Literature electives	6
	Recommendations for voice majors include:	
	MULT 621 German Vocal Literature	
	MULT 622 Italian/Spanish Vocal Literature	
	MULT 623 French Vocal Literature	
	MULT 624 British/American Vocal Literature	
	Electives Vocal and Keyboard Majors	5
	or	
	Electives Instrumental Majors	6
	Keyboard majors may include up to four credits of ensemble. Instrumental majors with majors in band or orchestral instruments must register for three semesters of performance in large ensembles.	
	Voice majors may include up to four credits of ensemble.	
	Recommended electives for voice majors include:	
	MUPP 533 Anatomy and Function of the Singing Voice	
	APCH 501 Vocal Coaching	
	MUPP 625 Opera Workshop	
	MUPP 594 Opera Production	
	MUPP 551 Opera Characterization	
	MUCO 563 or 564 Conducting	
	APAC 501 Applied accompanying	
	Comprehensive Examination (all majors)	Pass/Fail
	Total Vocal and Keyboard Majors	30
	Instrumental Majors	31

+ When a lecture recital is presented, continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of lecture and supporting document. Summer registration is optional. The course may be repeated for credit, but a maximum of two credits may be used to fulfill degree requirements. Extra lecture recital credits may not be used as elective credits.

Master of Music in Collaborative Piano

Elizabeth Caluda, Professor of Music

Ruebush Hall, Room 240; (540) 665-4629; ecaluda@su.edu

The Master of Music in Collaborative Piano curriculum is designed for pianists who wish to refine their ensemble performance skills. The curriculum provides a foundation of studies in performance and interpretation supported by a knowledge base in historical and analytical areas.

Program Objectives

Students completing the Master of Music in Collaborative Piano degree will be able to:

- demonstrate musicianship in rehearsal and performance settings;
- perform in a variety of instrumental and vocal chamber music settings;
- demonstrate a knowledge of music theory and music history;
- demonstrate knowledge of solo and chamber music literature; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants to the Master of Music in Collaborative Piano curriculum must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program.

Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

The credits presented from baccalaureate level study must parallel those required in the Bachelor of Music in Collaborative Piano curriculum at Shenandoah Conservatory. Identified deficiencies based on transcript analysis by the associate dean for graduate studies must be made up and may apply toward the Master of Music in Collaborative program only when a parallel class is available at the graduate level. Requirements from undergraduate study include a solo recital and course work in form and analysis, languages, diction, opera literature and a survey course in vocal literature.

Applicants must present an audition recital, with a formal program, of not less than 30 minutes in length and including a solo performance of 10 to 15 minutes with memorization preferred. The remainder of the recital includes both chamber and art song repertoire. Complete chamber works (all movements) are required. The applicant is responsible for obtaining support performers and is responsible for the overall quality of the performance. A demonstration of sight reading is required at all collaborative piano auditions.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives.

Students who enroll in a second master's degree at Shenandoah Conservatory may

transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Students must have two successful completions of MUPP 640, Graduate Performance Recital (two credits each).

Students must present balanced recital programs of chamber and art song repertoire totaling 55 minutes of music. The student has the option of including a portion of memorized solo repertoire on one of the two required graduate recitals.

Course and Credit Requirements for the Master of Music in Collaborative Piano Degree

Course		Title	Credit Hours
AP**	502	Applied Music (2 successful completions)	4
AP**	602	Applied Music (2 successful completions)	4
CONR	601	Bibliography and Research	3
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital (a second completion)	2
MUTC	520	Graduate Theory Seminar I	2
MUTC	530	Graduate Theory Seminar 2	2
		Music Literature electives	6
		Electives	5
		A maximum of four credit hours of ensemble may be applied toward degree requirements – Accompanying Ensemble recommended	
		Comprehensive Examination	Pass/Fail
		Total	30

Master of Music Therapy

Michael J. Rohrbacher, Associate Professor of Music
Ruebush Hall, Room 226-A; (540) 665-4560; mrohrbac@su.edu

The Master of Music Therapy Degree prepares music therapy practitioners to conduct advanced clinical work with specific populations, to establish and implement new music therapy programs, and to complete academic requirements necessary for directing undergraduate and graduate music therapy programs.

Program Objectives

Students completing the Master of Music Therapy degree will be able to:

- apply research methods to clinical settings;
- demonstrate areas of clinical specialization;
- demonstrate knowledge of interdisciplinary studies as related to music therapy;
- demonstrate supervisory and administrative skills as related to music therapy;
- demonstrate knowledge of contemporary foundations as related to music therapy; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program. Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

Applicants for acceptance into the Master of Music Therapy program must have completed all specific requirements of an undergraduate music therapy degree program, or the equivalent, accredited by the National Association of Schools of Music and approved by the American Music Therapy Association, including an internship. An interview with the director of Music Therapy is required. Applicants must file a music therapy professional growth plan and submit an audio/video recording in which musical skills utilized in music therapy practice are demonstrated. Specific requirements for the growth plan and audio/video recording are available from the director of the Music Therapy program. A performance audition is not required.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives. Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is 30 credit hours and a grade point average of 3.0.

Course and Credit Requirements for the Master of Music Therapy Degree

Course	Title	Credit Hours
CONR 601	Bibliography and Research	3
MUTH 604	Assessment and Evaluation in Music Therapy Practice	3
or		
MUED 604	Educational Measurement	
MUTH 591	Music Therapy and Competency Education	1
MUTH 611	Contemporary Foundations of Music Therapy Practice	2
MUTH 612	Dynamics of Music Therapy Intervention	2
MUTH 613	Interdisciplinary Approaches to Music Therapy Practice	2
MUTH 614	Implementation and Administration of Music Therapy Practice	2
MUTH 621	Clinical Applications 1	1
MUTH 622	Clinical Applications 2	1
MUTH 623	Clinical Applications 3	1
MUTH 624	Clinical Applications 4	1
CONR 699	Thesis	4+
or		
CONR 691	Demonstration Project	
or		
CONR 692	Clinical Project	
	Electives in Music	4
	(to include at least two credits in theory or literature, maximum of two ensemble credits may be applied to degree.)	
	Electives (select from):	3
	Clinical foundations	
	Music education	
	General education	
	Business	
	Comprehensive Examination	Pass/Fail
	Total	30

+After initial registration in CONR 691, CONR 692 or CONR 699, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of four credits may be used to fulfill degree requirements. Extra CONR credits may not be used as elective credits.

Master of Science in Arts Administration

David Edelman, Assistant Professor of Arts Management
Ruebush Hall, Room 127-I; (540) 542-6527; dedelman@su.edu

The Master of Science in Arts Administration curriculum is designed to train administrators and organizers in the arts who come to the curriculum from a variety of backgrounds in the arts, entertainment and media fields. The student who already holds a baccalaureate degree in arts management should pursue the Master of Business Administration degree.

Program Objectives

Students completing the Master of Science in Arts Administration degree will be able to:

- demonstrate knowledge of current policies and practices in arts management;
- demonstrate knowledge of fiscal responsibilities within an arts setting;
- demonstrate the ability to lead and/or contribute to an arts organization;
- employ technology and demonstrate knowledge of technological resources; and
- demonstrate the ability to research and write.

Entrance Requirements

Applicants must possess a baccalaureate degree in music, theatre, dance, arts or the equivalent with a minimum grade point average of 2.5 (on a 4.0 scale) prior to admission into the program. Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

Persons with baccalaureate degrees in other disciplines may be considered on an individual basis if they have had extensive non-curricular experiences in the arts.

Transfer of Credits

Up to nine credits may be transferred into this curriculum when earned at an accredited institution and when the credits fulfill required courses or appropriate electives. Students who enroll in a second master's degree at Shenandoah Conservatory may transfer up to nine credits from the first degree completed into the second degree when those credits fulfill curricular requirements.

Degree Requirements

The degree requirement is a minimum of 34 credit hours with a culminating arts administration research document and a grade point average of 3.0.

Course and Credit Requirements for the Master of Science in Arts Administration Degree

Course	Title	Credit Hours
AMGT 512	Marketing for the Arts	3
AMGT 513	Production/Project Management in the Arts 1	3
AMGT 514	Production/Project Management in the Arts 2	3

AMGT	515	Arts Management Policy and Practice	3
AMGT	516	Financial Management for the Creative Enterprise	3
CONR	601	Bibliography and Research	3
ACCT	501	Financial and Management Accounting	3
ECN	501	Economic Concepts and Policies	3
		Decision Making Tools Elective	3
		Arts Administration Elective (select from):	3
		AMGT 595 Special Topics in Arts Administration	
		AMGT 599 Independent Directed Research	
		AMGT 698 Internship in Arts Administration	
CONR	696	Arts Administration Research	4+
		Comprehensive Examination	Pass/Fail
		Total	34

+After initial registration in CONR 696, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of four credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Doctor of Musical Arts in Music Education

Jeffrey Marlatt, Associate Professor of Music
Ruebush Hall, Room 216; (540)545-7349; jmarlatt@su.edu

The Doctor of Musical Arts in Music Education curriculum offers a practice-based degree in music education with instruction offered in a time frame accessible to the practicing music educator. The program is offered to professionals who have demonstrated musical and academic competence through completion of a master's degree in music and effectiveness in music education through completion of successful teaching experience. The degree is designed to extend the knowledge base of music educators who aspire to positions of leadership in teaching, supervision and/or administration in music education.

Program Objectives

Students completing the Doctor of Musical Arts in Music Education degree will be able to:

- demonstrate knowledge of advanced historical and philosophical foundations, curriculum development, and current trends in music education;
- demonstrate knowledge of educational measurement and statistics;
- demonstrate advanced knowledge of music theory and music history; and
- demonstrate advanced research and writing skills.

Entrance Requirements

Applicants to the Doctor of Musical Arts in Music Education program must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale). In addition, completion of a master's degree in music, or the equivalent, with a grade point average of 3.25 from a regionally accredited institution, or the equivalent, is required. At least one pre-doctoral degree must be in music education. Applicants to the Doctor of Musical Arts in Music Education program must document three years of teaching experience at elementary or secondary school levels in a private school, public school or studio setting.

As part of the Shenandoah University graduate application process, applicants submit: (a) a letter of intent that addresses their interest in the program and lists their professional goals, (b) a resume, (c) official transcripts from all post-secondary school study, (d) a scholarly writing sample, and (e) a video-recorded interview. Within the writing sample, the applicant presents a current issue or trend in music education and discusses implications for music teaching and music learning. Include citations in the American Psychological Association (APA) Manual of Style format. Responses to the following specific items are required as a part of the video recorded interview:

1. State your name, the date and your current teaching position (level and location).
2. Comment on your interest in earning a DMA in music education at Shenandoah University.
3. Discuss area(s) of music education that are of particular interest to you? Why?

4. Present a current issue or trend in music education and discuss implications for music teaching and music learning.

Send video recording to Graduate Admissions Office, Shenandoah University, Attn: Conservatory, 1460 University Drive, Winchester, VA 22601.

There is no performance audition for entrance into the Doctor of Musical Arts in Music Education degree program.

Entrance Examinations

International students must take the TOEFL examination and earn a minimum score as published by the Office of Admissions. Complete information regarding the requirements for non-native speakers of English is available from the Office of Admissions.

The Graduate Record Examination (GRE) is not required for admission to the Doctor of Musical Arts in Music Education curriculum.

Diagnostic and placement examinations are administered after acceptance into the curriculum. See details under Degree Requirements below.

Degree Requirements

The degree requirement is 90 credit hours beyond the baccalaureate degree, 30 of which may be presented in the form of a completed master's degree from an accredited college or university when the work relates to the degree.

All specific requirements, in terms of courses and credits in each of the degree categories, must be fulfilled regardless of the credits presented in the master's degree. A minimum grade point average of 3.0 ("B") is required for graduation.

Diagnostic and placement examinations in theory, analysis, and music history are administered after acceptance into the curriculum. These examinations are designed to assess the appropriate knowledge required for students completing the Doctor of Musical Arts program at Shenandoah University. The examinations are graded Pass/Fail. Students not passing any part of the examinations have two options to fulfill the competency: 1) enroll in courses designed to remediate the lack of knowledge in an area, passing with a grade of "C" or better; or 2) study independently and retake the examination. A diagnostic examination may be taken a maximum of two times, after which the student must enroll in appropriate courses.

The credits presented from master's level study must parallel those required in the Master of Music Education curriculum at Shenandoah Conservatory, and include a culminating research/teaching project or thesis. Identified deficiencies, based on transcript analysis by the associate dean for graduate studies, must be made up and may apply toward the Doctor of Musical Arts in Music Education curriculum as electives only when a parallel class is available at the graduate level. When an applicant presents a master's degree transcript that includes credits beyond those specifically included in the Shenandoah Conservatory Master of Music Education curriculum, the credits will be applied, as appropriate, to doctoral level requirements. The associate dean for graduate studies makes final decisions regarding transcript analysis.

Transfer of Credits

Up to 30 credits may be transferred as a completed master's degree. An additional 12 credits may be transferred when earned at an accredited institution and when such credits fulfill required courses or appropriate electives.

Residency

Residency is required. This can be achieved by either enrollment as a full-time student during two consecutive terms (fall and spring) or enrollment at Shenandoah over three consecutive terms (for example, spring/summer/fall) with a registration of a minimum of 18 credits completed within those terms. It is anticipated that these registrations include enrollment during summer sessions and individual work on independent research during the fall and spring terms. It is strongly recommended that students plan their approaches to residency with their academic advisors.

Time Limits

Students have a period of eight years from their initial enrollment date to complete their doctoral degree requirements.

Course and Credit Requirements for the Doctor of Musical Arts in Music Education Degree

Course	Title	Credit Hours
CONR 701	Advanced Research and Writing	3
MUED 702	Educational Statistics	3
MUED 704	Contemporary Trends in Music Education	3
MUED 706	Curriculum Organization in Music Education	3
CONR 899	Doctoral Dissertation	9+
	Electives (from MUED 700 and MUED 800 level courses)	3
	Other studies in music (music support courses)	24
	Select from:	
	Music Theory	
	Music Literature	
	Applied music	
	Conducting	
	Ensemble.	
	(Maximum of eight credits of ensemble may be applied to degree in addition to maximum of four credits of ensemble completed at master's degree level.)	
	Electives/Cognate areas	12
	(Single concentration or divided among complementary related areas, including additional course work in music, music education or education.)	
	(Workshop credits beyond those applied to the master's degree may not be included.)	
	Credits from approved master's degree	30
	Qualifying Examination	Pass/Fail
	Total	90

+After initial registration in CONR 899, the student must remain continuously registered for that course for at least one credit each fall and spring semester until the requirement is fulfilled. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum.

Additional thesis, research/teaching project or dissertation credits (beyond those required) do not fulfill elective credits and do not apply to degree requirements.

Doctor of Musical Arts in Performance

Charlotte Aiosa, Professor of Music
Ruebush Hall, Room 210, (540) 665-4580, caiosa@su.edu

Available for majors in flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, tuba, percussion, violin, viola, cello, double bass, harp, guitar; organ, piano, voice, collaborative piano and conducting.

The Doctor of Musical Arts in Performance curriculum emphasizes artistic development in a specific performing medium at the highest professional level. Historical and theoretical knowledge support the artistic development of each student. Competencies also include broad knowledge of repertoire, music literature and pedagogical studies. Career objectives for students in this curriculum include performance and teaching at the collegiate level or in studio settings.

Program Objectives

Students completing the Doctor of Musical Arts in Performance degree will be able to:

- demonstrate advanced musicianship in solo performance or conducting settings;
- perform or conduct a variety of advanced level repertoire;
- perform or conduct in a variety of settings; and
- demonstrate advanced knowledge of music theory and music history.

Entrance Requirements

Applicants to the Doctor of Musical Arts in Performance program must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale). In addition, completion of a master's degree in music, or the equivalent, with a grade point average of 3.25 from a regionally accredited institution, or the equivalent, is required.

Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program and lists their professional goals.

Applicants must provide a second writing sample that addresses what he or she considers the most significant era of development in the repertoire for his or her performing medium, to defend that choice and to comment on what role, if any, teaching will have as part of his or her career.

A resume documenting professional experience in performance, research and teaching is required.

Two letters of recommendation from individuals familiar with the applicant's performance capabilities must be submitted.

Doctoral students must audition in person with the exception of international applicants residing outside the United States.

Audition Requirements by Performance area:

Voice: A 30-minute (minimum) recital, with formal program to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A minimum of three languages must be represented. Both operatic and art song repertoire should be presented at the audition. Memorization is required. The applicant may bring his or her own accompanist, or one will be provided at the applicant's expense.

Organ: A minimum of three works, to include one chorale prelude or prelude and fugue of J. S. Bach and two additional works of contrasting styles.

Piano: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee. Memorization is required.

Collaborative Piano: Auditions are 30 minutes in length and include a solo performance of 10 to 15 minutes with memorization preferred. The remainder of the recital includes both chamber and art song repertoire. Complete chamber works (all movements) are required. The applicant is responsible for obtaining support performers and is responsible for the overall quality of the performance. Sightreading is included.

String, Woodwind, Brass: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee. Full concertos and sonatas (all movements) are required rather than single movements.

Percussion: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. Applicants must perform on timpani, snare drum and mallets; multiple percussion is optional. Music written specifically for the instruments is preferred although some transcriptions may be included. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sightreading may be required at the option of the committee. Full concertos and sonatas (all movements) are required rather than single movements.

Conducting: A two-stage audition. The first stage is submission of a video recording (DVD preferred) of at least 20 minutes of a performance and 10 minutes of rehearsal with an ensemble. The applicant may choose the repertoire. This video should represent the applicant's abilities before a full orchestra, wind ensemble or chorus (opera or oratorio is also acceptable). Conducting and rehearsing of a mixed chamber ensemble may be acceptable as determined by the screening committee. Based upon successful completion of the video audition, applicants are invited to proceed to the second stage of the audition.

The second stage of the conducting audition consists of a live interview and audition. The applicant will conduct the Shenandoah University Symphony Orchestra, Wind Ensemble or Conservatory Choir for 30 minutes (which includes at least 10 minutes of rehearsal). Repertoire will be determined and chosen from a work that was performed by the audition ensemble during the current academic year.

Special considerations for doctoral conducting students: the number of conducting applicants accepted annually is limited by the number of podium opportunities available with Conservatory ensembles. Students may work with off-campus ensembles which they regularly conduct when approved in advance. These ensembles must be capable of performing at least Grade 6 music as defined by the Virginia Band and Orchestra Directors Association (VBODA) or the Virginia Choral Directors Association (VCDA).

To provide sufficient time for screening, all application materials for doctoral conducting students, including videotapes of the first stage preliminary audition as well as the videotapes of potential off-campus ensembles, must be received by January 30 for entry the following fall semester. On-campus auditions will be scheduled thereafter.

Entrance Examinations

International students must take the TOEFL examination and earn a minimum score as published by the Office of Admissions. Complete information regarding the requirements for non-native speakers of English is available from the Office of Admissions.

The Graduate Record Examination (GRE) is not required for admission to the Doctor of Musical Arts in Performance curriculum.

Degree Requirements

The degree requirement is 90 credit hours beyond the baccalaureate degree, 30 of which may be presented in the form of a completed master's degree from an accredited college or university when the work relates to the degree.

All specific requirements, in terms of courses and credits in each of the degree categories, must be fulfilled regardless of the credits presented in the master's degree. A minimum grade point average of 3.0 ("B") is required for graduation.

Diagnostic and placement examinations in theory, analysis and music history are administered after acceptance into the curriculum. A diagnostic examination in diction is required for all Conducting students. These examinations are designed to assess the appropriate knowledge required for students completing the Doctor of Musical Arts program at Shenandoah University. The examinations are graded Pass/Fail. Students not passing any part of the examinations have two options to fulfill the competency: 1) enroll in courses designed to remediate the lack of knowledge in an area, passing with a grade of "C" or better; or 2) study independently and retake the examination. A diagnostic examination may be taken a maximum of two times, after which the student must enroll in appropriate courses.

The credits presented from master's level study must parallel those required in the Master of Music in Performance curriculum at Shenandoah Conservatory. A minimum of four semesters language study at the undergraduate or graduate level is required for all entering doctoral students in Vocal Performance: one semester each of French, German and Italian with an additional semester in French or German. Deficiencies in this area will be identified in the initial transcript analysis by the associate dean for graduate studies. All identified deficiencies based on transcript analysis by the associate dean for graduate studies must be made up and may apply toward the Doctor of Musical Arts in Performance curriculum as electives only when a parallel class is available at the graduate level.

When an applicant presents a master's degree transcript that includes credits beyond those specifically included in the Shenandoah Conservatory Master of Music in Performance curriculum, the credits will be applied as appropriate to doctoral level requirements. The associate dean for graduate studies makes final decisions regarding transcript analysis.

Transfer of Credits

Up to 30 credits may be transferred as a completed master's degree. An additional 12 credits may be transferred when earned at an accredited institution and when such credits fulfill required courses or appropriate electives. AP** 704 through AP** 804 must be completed at Shenandoah University.

Residency

Residency is required. This can be achieved by either enrollment as a full-time student during two consecutive terms (fall and spring) or enrollment at Shenandoah over three consecutive terms (for example, spring/summer/fall) with a registration of a minimum of 18 credits completed within those terms. It is anticipated that these registrations include a summer session and individual work on the research document during the fall and spring terms. It is strongly recommended that students plan their approaches to residency with their academic advisors.

Time Limits

Students have a period of eight years from their initial enrollment date to complete their doctoral degree requirements.

Course and Credit Requirements for the Doctor of Musical Arts in Performance Degree (Voice Applied Emphasis)

Course	Title	Credit Hours
AP** 704	Applied Music (2 successful completions)	8
AP** 804	Applied Music (2 successful completions)	8
MUPP 697	Doctoral Performance Recital	4
MUPP 697	Doctoral Performance Recital (Voice majors, with appropriate approvals, may fulfill the requirements for one performance recital with a major opera role.)	4
MUPP 698	Doctoral Lecture Recital with document	2
CONR 693	Lecture Recital document	2+
APRP 501	Applied Teaching Repertoire (2 successful completions)	2
MUPP 601	Pedagogy of Music Theory	2
MUPP 602	Pedagogy of Music Literature	2
	Theory Elective	2
	Advanced Analysis (post tonal)	2
	Counterpoint or Advanced Analysis (tonal) elective	2
MULT	Period Music Literature Courses	6
CONR 701	Advanced Research and Writing	3
	Electives	7
	Vocal Literature Electives (select from):	4
	MULT 621 German Vocal Literature	
	MULT 622 Italian/Spanish Vocal Literature	
	MULT 623 French Vocal Literature	

MULT 624 British/American Vocal Literature	
Credits from approved master's degree	30
Qualifying Examination	Pass/Fail
Total	90

+Continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of the lecture and supporting document. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of two credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Course and Credit Requirements for the Doctor of Musical Arts in Performance Degree (Instrument or Keyboard Applied Emphasis)

Course	Title	Credit Hours
AP** 704	Applied Music (2 successful completions)	8
AP** 804	Applied Music (2 successful completions)	8
MUPP 697	Doctoral Performance Recital	4
MUPP 697	Doctoral Performance Recital	4
MUPP 698	Doctoral Lecture Recital with document	2
CONR 693	Lecture Recital document	2+
APRP 501	Applied Teaching Repertoire (2 successful completions)	2
MUPP 601	Pedagogy of Music Theory	2
MUPP 602	Pedagogy of Music Literature	2
	Theory elective	2
	Advanced Analysis (post tonal)	2
	Counterpoint or Advanced Analysis (tonal) elective	2
MULT 528	Chamber Music Literature	2
or		
MULT 501	Symphonic Literature Seminar	
MULT	Period Music Literature Courses	8
CONR 701	Advanced Research and Writing	3
	Electives	7
	Credits from approved master's degree	30
	Comprehensive Examination (Instrumental)	Pass/Fail
	Qualifying Examination (Keyboard)	Pass/Fail
	Total	90

+Continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of the lecture and supporting document. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of two credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Course and Credit Requirements for the Doctor of Musical Arts in Performance Degree (Conducting Applied Emphasis)

Course	Title	Credit Hours
APCN 704	Applied Conducting (2 successful completions)	8
APCN 804	Applied Conducting (2 successful completions)	8
MUPP 697	Doctoral Performance Recital	4
MUPP 697	Doctoral Performance Recital	4
MUPP 698	Doctoral Lecture Recital with document	2
CONR 693	Lecture Recital document	2+
APRP 501	Applied Teaching Repertoire (2 successful completions)	2
APSR 501	Applied Score Reading (2 successful completions)	2

MUPP	601	Pedagogy of Music Theory	2
MUPP	602	Pedagogy of Music Literature	2
		Theory elective	2
		Advanced Analysis (post tonal)	2
MUTC	522	Instrumentation	2
MULT	501	Symphonic Literature Seminar	3
MULT	502	Oratorio/Choral Literature	3
MULT	554	Music of the Twentieth Century	2
		Period Music Literature Courses	4
CONR	701	Advanced Research and Writing	3
		Electives	3
		Credits from approved master's degree	30
		Comprehensive Examination	Pass/Fail
		Total	90

*Minimum grade of "B" required.

+Continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of the lecture and supporting document. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of two credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Doctor of Musical Arts in Pedagogy (Vocal)

Janette Ogg, Professor of Music

Ruebush Hall, Room 236, (540) 665-4544, jogg@su.edu

Kathryn Green, Professor of Music

Ruebush Hall, Room 238, (540) 665-4556, kgreen@su.edu

The Doctor of Musical Arts in Pedagogy (Vocal) curriculum concentrates on preparing students for careers in higher education, as teachers and researchers. Students will gain knowledge through an interdisciplinary approach in the areas of anatomy, physiology, kinesiology, pathology, technology, psychology and applied voice. Both classical and non-classical approaches are addressed. Competencies include a broad knowledge of vocal literature, music theory and music history.

Program Objectives

Students completing the Doctor of Musical Arts in Pedagogy (Vocal) degree will be able to:

- apply vocal teaching techniques appropriate for higher education;
- exhibit advanced knowledge of the structure and function of the vocal mechanism as it is used for singing;
- recognize vocal problems and disorders and determine the proper course of action with a medical professional;
- conduct pedagogical research in relation to voice science;
- integrate knowledge of kinesiology, psychology and voice therapy within applied vocal teaching;
- demonstrate professional skills and knowledge gained through voice research internships in professional clinical settings;
- utilize knowledge of technological programs and related resources; and
- implement advanced knowledge of music theory, applied repertoire, vocal literature and music history.

Entrance Requirements

Applicants to the Doctor of Musical Arts in Pedagogy (Voice) must possess a baccalaureate degree in music, or the equivalent, with a minimum grade point average of 2.5 (on a 4.0 scale). In addition, completion of a master's degree in music, or the equivalent, with a grade point average of 3.25 from a regionally accredited institution, or the equivalent, is required.

Transcripts from all post-secondary school study must be submitted. As part of the Shenandoah University graduate application, applicants submit a writing sample that addresses their intent for joining the program, and lists their professional goals.

Applicants must also possess a completed master's degree in music from a regionally accredited institution. The master's degree must parallel the Master of Music in Pedagogy or the Master of Music in Performance degree offered at Shenandoah University.

At a minimum, the study at the master's level must include the following:

- at least three semesters of study in the major applied area;
- presentation of two full formal, credited recitals or a thesis or culminating project in pedagogy;
- a course in bibliography and research techniques;
- at least one course in advanced music analysis;
- at least one course in music literature;
- at least one course in music pedagogy including supervised teaching experience;
- at least one course in the anatomy and physiology of the singing voice; and
- electives in music to bring master's degree credit total to 30 semester hours.

The associate dean for graduate studies makes determinations regarding equivalency based upon transcript analysis.

When an applicant presents a master's degree transcript that includes credits beyond those specifically included in the Shenandoah Conservatory Master of Music in Pedagogy or Master of Music in Performance curricula, the credits will be applied as appropriate to doctoral level requirements.

A writing sample in which the applicant addresses a topic in music with citations and bibliography in a standard style format is requested. This is in addition to the writing sample indicated above.

A resume documenting professional experience in performance, research and teaching is required.

For Voice applicants, a 30-minute (minimum) recital, with formal program to include stylistically and historically balanced content is required. The auditioning committee will make a selection from the materials presented. A minimum of three languages must be represented. Both operatic and art song repertoire should be presented at the audition. Memorization is required. The applicant may bring his or her own accompanist, or one will be provided at the applicant's expense.

International students must take the TOEFL examination and earn a minimum score as published by the Office of Admissions. Complete information regarding the requirements for non-native speakers of English is available from the Office of Admissions.

The Graduate Record Examination (GRE) is not required for admission to the Doctor of Musical Arts in Pedagogy (Vocal) curriculum.

Diagnostic and placement examinations are administered after acceptance into the curriculum. See details under Diagnostic Exams below.

Degree Requirements

The degree requirement is 90 credit hours beyond the baccalaureate degree, 30 of which may be presented in the form of a completed master's degree from an accredited college or university when the work relates to the degree.

All specific requirements, in terms of courses and credits in each of the degree categories, at the doctoral level must be fulfilled regardless of the credits presented in the master's degree. A minimum grade point average of 3.0 ("B") is required for graduation.

A minimum of four semesters of language study at the undergraduate or graduate level is required for all entering doctoral students in Vocal Performance: one semester each of French, German and Italian with an additional semester in French or German. Deficiencies in this area will be identified in the initial transcript analysis by the associate dean for graduate studies. All identified deficiencies based on transcript analysis by the associate dean for graduate studies must be made up and may apply toward the Doctor of Musical Arts in Pedagogy curriculum as electives only when a parallel class is available at the graduate level.

Diagnostic Exams

All new Conservatory doctoral students are required to take a series of diagnostic examinations in the areas of music history and music theory. Diagnostic examinations are administered at the beginning of the summer and fall terms. These examinations are designed to assess appropriate knowledge required for all graduate students completing the Doctor of Musical Arts program at Shenandoah University.

Examinations are graded pass/fail. Students who are not successful in achieving a passing grade in any part of the examination have two options to demonstrate competency.

- Enroll in courses designed to remediate the lack of knowledge in an area. A grade of "C" is required; or
- Study independently and retake the examination. Examinations may be taken a total of two times. Thereafter completion of an appropriate course with a minimum grade of "C" is required.

The credits from the master's degree, based on the Master of Music in Pedagogy or the Master of Music in Performance (vocal) degrees currently offered at Shenandoah University, that apply to the Doctor of Musical Arts in Pedagogy (Vocal) will be specifically identified and applied. When a student presents a master's degree transcript that does not include all of the essential course work listed above, he/she must complete the missing areas as part of the study for the Doctor of Musical Arts in Pedagogy (Vocal) degree. When a student presents a master's degree transcript that includes credits beyond those specifically included in the Shenandoah Conservatory Master of Music in Pedagogy curriculum, the credits will be applied, as appropriate, to the Doctor of Musical Arts in Pedagogy (Vocal) requirements. The associate dean for graduate studies makes final decisions regarding transcript analysis.

Transfer of Credits

Up to 30 credits may be transferred as a completed master's degree. An additional 12 credits may be transferred when earned at an accredited institution and when such credits fulfill required courses or appropriate electives.

Residency

Residency is required. This can be achieved by either enrollment as a full-time student during two consecutive terms (fall and spring) or enrollment at Shenandoah over three consecutive terms (for example, spring/summer/fall) with a registration of a minimum of 18 credits completed within those terms. It is anticipated that these registrations include a summer session and individual work on the research document during the fall and spring terms. It is strongly recommended that students plan their approaches to residency with their academic advisors.

Time Limits

Students have a period of eight years from their initial enrollment date to complete their doctoral degree requirements.

Course and Credit Requirements for the Doctor of Musical Arts in Pedagogy (Voice) Degree

Course	Title	Credit Hours
APTT 501	Applied Teaching Techniques (2 successful completions)	2
APVO 702	Applied Voice	2
or		
APVO 701	Applied Voice (2 successful completions)	2
and		
APVO 802	Applied Voice	2
or		
APVO 801	Applied Voice (2 successful completions)	2
CONR 701	Advanced Research and Writing	3
CONR 899	Dissertation	9+
MUED 702	Educational Statistics	3
MULT	Period Music Literature courses	6
MULT	Vocal Literature electives (select from):	4
	MULT 621 German Vocal Literature	
	MULT 622 Italian/Spanish Vocal Literature	
	MULT 623 French Vocal Literature	
	MULT 624 British/American Vocal Literature	
	MULT 520 Opera Literature	
MUPP 506	Contemporary Commercial Music Styles	1
MUPP 557	Contemporary Commercial Music Vocal Pedagogy Level 3	1
MUPP 595	Special Topics Seminar	1
MUPP 598	Internship	1
MUPP 633	Voice Disorders	3
MUPP 634	Voice and Body Awareness	2
MUPP 635	Technology for the Teaching Studio	1
MUPP 636	Technology for the Teaching Studio-Lab	1
MUTC 530	Graduate Theory Seminar 2	2
MUTC 601	20th Century Analysis	2
MUTH 531	Psychology of Music	2
	Electives (select from):	12
	MUTH 532 Influence of Music on Behavior	
	MUPP 601 Pedagogy of Music Theory	
	MUPP 602 Pedagogy of Music Literature	
	Applied Voice Elective	

Other electives as individually approved (Workshop credit limited to 4) (Ensemble and Applied music credit limited to 4)	
Credit from approved master's degree	30
Qualifying Examination	Pass/Fail
Total	90

+Continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of the lecture and supporting document. Summer registration is optional. Registration and billing are automatic until the requirement is fulfilled or the student submits a written statement of withdrawal from the curriculum. The course may be repeated for credit, but a maximum of two credits may be used to fulfill degree requirements. Extra CONR culminating research credits may not be used as elective credits.

Artist Diploma (Post-Baccalaureate and Post-Master's)

Instrumental: Akemi Takayama, Associate Professor of Music
Armstrong Hall, Room 29, (540) 665-4524, atakayam@su.edu
Vocal or Keyboard: Charlotte Aiosa, Professor of Music
Ruebush Hall, Room 210, (540) 665-4580, caiosa@su.edu

The Artist Diploma (post-baccalaureate) is intended for exceptional performers or ensembles who hold a baccalaureate degree, conservatory equivalent or professional credentials with appropriate credits in music history and theory.

The Artist Diploma (post-master's) is intended for exceptional performers or ensembles who already hold a master's degree, conservatory equivalent or professional credentials with appropriate credits in music history and theory.

Career goals of applicants to both diploma programs include entering major competitions, auditioning for major orchestras or pursuing a professional performing career.

The diploma programs are available in the applied areas of voice, organ, piano (including collaborative piano), violin, viola, cello, double bass, flute, oboe, clarinet, bassoon, saxophone, horn, trumpet, trombone, tuba, percussion, harp, guitar, string quartet (or other chamber ensembles) and conducting.

Objectives

Students completing the Artist Diploma (post-baccalaureate) and the Artist Diploma (post-master's) will be able to:

- demonstrate advanced musicianship in solo and ensemble performances;
- perform a variety of advanced level repertoire commensurate with their professional goals; and
- perform in a variety of settings.

The Artist Diploma requires full-time study and a two-year residency period. Students receive faculty guidance in completing a program of study designed to enable the development of individual artistic and intellectual interest. All students participate in a range of performance opportunities appropriate to their discipline. Upon acceptance, a graduate committee is appointed to guide students through the program.

Entrance Requirements

For applicants to the Artist Diploma (post-baccalaureate), completion of a baccalaureate degree in performance or the equivalent is required.

For applicants to the Artist Diploma (post-master's), a master's degree in performance or the equivalent is required.

Applicants wishing to demonstrate equivalency must submit programs and tapes of previous performances. Equivalency must be established prior to the audition for entrance.

Audition Requirements by Performance Area

Voice: A 30-minute (minimum) recital, with formal program to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A minimum of three languages must be represented. Both operatic and art song repertoire should be presented at the audition. Memorization is required. The applicant may bring his or her own accompanist, or one will be provided at the applicant's expense.

Organ: A minimum of three works, to include one chorale prelude or prelude and fugue of J. S. Bach and two additional works of contrasting styles, are required.

Piano: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sight reading may be required at the option of the committee. Memorization is required.

Collaborative Piano: Auditions are 30 minutes in length and include a solo performance of 10 to 15 minutes with memorization preferred. The remainder of the recital includes both chamber and art song repertoire. Complete chamber works (all movements) are required. The applicant is responsible for obtaining support performers and is responsible for the overall quality of the performance. Sight reading is included.

String, Woodwind, Brass: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sight reading may be required at the option of the committee. Full concertos and sonatas (all movements) are required rather than single movements.

Percussion: A 30-minute (minimum) recital, with formal program, to include stylistically and historically balanced content. Applicants must perform on timpani, snare drum and mallets; multiple percussion is optional. Music written specifically for the instruments is preferred, although some transcriptions may be included. The auditioning committee will make a selection from the materials presented. A demonstration of technique or sight-reading may be required at the option of the committee. Full concertos and sonatas (all movements) are required rather than single movements.

Chamber Ensembles: Applicants auditioning as an ensemble present an audition that includes two contrasting works, including all movements, from different time periods.

Conducting: Applicants to the program in conducting complete a two-stage audition. The first stage is submission of a video recording (DVD preferred) of at least 20 minutes of a performance and 10 minutes of a rehearsal with an ensemble. The applicant may choose the repertoire. This video should represent the applicant's abilities before a full orchestra, wind ensemble, or chorus (opera or oratorio is also acceptable). Conducting and rehearsal of a mixed chamber ensemble may be acceptable as determined by the screening committee. Based upon successful completion of the video audition, applicants are invited to proceed to the second stage of the audition.

The second stage of the conducting audition process consists of a live interview and audition. The applicant will conduct the Shenandoah Conservatory Symphony Orchestra, Wind Ensemble or Conservatory Choir for 30 minutes (which includes at

least 10 minutes of rehearsal). Repertoire will be determined and chosen from a work that was performed by the audition ensemble during the current academic year.

Special considerations for conducting students: the number of conducting applicants accepted annually is limited by the number of podium opportunities available with Conservatory ensembles. Students may work with off-campus ensembles which they regularly conduct when approved in advance. These ensembles must be capable of performing at least Grade 6 music as defined by the Virginia Band and Orchestra Directors Association (VBODA) or the Virginia Choral Directors Association (VCDA).

To provide sufficient time for screening, all application materials for conducting students, including videotapes of the first stage preliminary audition as well as the videotapes of potential off-campus ensembles, must be received by January 30 for entry the following fall semester. On campus auditions will be scheduled thereafter.

Applicants will be considered on an individual basis. In cases when an ensemble is applying to the program, all members of the ensemble must complete the application process individually, audition as an ensemble and be of evenly high quality and caliber.

Students are not admitted on a probationary audition basis except as noted for international students below.

All Artist Diploma candidates must audition for a committee in Winchester, VA. A live audition is required. Exceptions are made only for international applicants who reside outside of the United States. International applicants should send a videotape with a corresponding CD or DVD of the same program. International students may be accepted provisionally with the first recital serving as an audition for full acceptance into the program. Shenandoah University does not assume responsibility for loss of tapes, CDs and DVDs; copies should be sent. Video audition materials are not returned.

Letters of recommendation: Three letters of recommendation must be submitted directly to the Graduate Admissions Office by the writer. The letters must be received before an audition can be scheduled. These letters should be from individuals familiar with the applicant's performance capabilities.

Submission of transcripts: Transcripts from all post-secondary school study must be submitted.

Submission of other documents: As part of the admissions process, applicants should submit reviews and programs from a minimum of four recitals, a comprehensive list of all repertoire performed in public and a curriculum vita delineating educational, employment and performance history.

Entrance Examinations

Students applying to the Artist Diploma program are not required to take the Graduate Record Examination (GRE).

Although the Artist Diploma program does not require the academic breadth of the DMA or MM Program, Artist Diploma candidates must hold a bachelor's degree (post-baccalaureate applicants) or a master's degree (post-masters' applicants). A fundamental knowledge of musicianship and the history of Western music is presumed. Applicants seeking admission on the basis of equivalency are required to demonstrate knowledge in these areas.

Language Proficiency

Students for whom English is not a native language are not required to demonstrate language proficiency, but are encouraged to submit TOEFL scores to assist the faculty in academic advising.

Transfer of Credits

Transfer credit for applied study is not accepted. All studio instruction for the Artist Diploma program must be taken for credit with Shenandoah University faculty. Students who wish to transfer from the Doctor of Musical Arts in Performance curriculum into the Artist Diploma program must re-audition and submit all application materials required for the Artist Diploma program. Applied music credits from the DMA in Performance curriculum are accepted as equivalent to study in the Artist Diploma program.

Private applied study from professional artists and musicians not employed by Shenandoah University should be scheduled as a supplement to regularly scheduled studio instruction, must be in consultation with the student's primary teacher, and is at the student's expense.

Degree Requirements

The course of study is flexible and designed for the individual needs of advanced students. Students work in close collaboration with studio faculty and advisors to deepen their artistry. The following requirements are minimums in each category.

The Artist Diploma includes a minimum of 32 credits. Sixteen credits are completed in four semesters of private applied study in the principal instrument, eight credits are completed in four semesters of participation in performance ensembles and eight credits are completed in presentation of four recitals.

When students enter the Artist Diploma program as an ensemble, the applied study consists of group coaching of the ensemble. Students desiring to undertake individual applied study in addition to group coaching must register for such study separately.

When students are accepted to an Artist Diploma program as an ensemble and during the course of study one or more members withdraw from the ensemble, the remaining members of the ensemble are expected to find replacements. The Conservatory will assist as possible, but assumes no responsibility for finding suitable replacements. The replacement members must complete the normal application and audition process.

When an Artist Diploma ensemble is at less than full strength and suitable replacements cannot be found, the remaining individual members of the ensemble may apply to continue pursuing an Artist Diploma as a soloist, after completing an appropriate individual audition.

The minimum grade for each registration for the minimum requirements above is "B." An overall grade point average for all courses undertaken is 3.0.

Artist Diploma students studying orchestral instruments must participate in the ensemble program every semester in residence as assigned. Opera students are assigned to appropriate productions. Students are assigned by the major teacher to various performing groups in consultation with the conductors or coaches of these groups.

The four recitals of students completing the Artist Diploma as individual performers must include a minimum of two required solo recitals. The other two recitals may include accompanying of graduate recitals and other public performances as a soloist. The variety and/or type of recitals to be performed are determined by the student's committee after review of the repertoire list and in consultation with the major teacher.

All four recitals presented by students completing the Artist Diploma as ensembles must consist of chamber ensemble repertoire and exclude solo performances.

Recitals are evaluated each semester by members of the graduate committee to arrive at a course grade.

Artist Diploma candidates are given the option of presenting recitals in public venues within a 75-mile radius of the university campus. The recitals must be convenient to the faculty committee members, scheduled in consultation with the faculty committee and at the expense of the student. Requests for off-campus recitals are considered on a case-by-case basis.

Residency

The minimum residency is two years.

Course and Credit Requirements for the Artist Diploma (Post-Baccalaureate)

Course		Title	Credit Hours
AP**	504	Applied Music (2 successful completions)	8
AP**	604	Applied Music (2 successful completions)	8
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
		Total	32

Course and Credit Requirements for the Artist Diploma (Post-Master's)

Course		Title	Credit Hours
AP**	704	Applied Music (2 successful completions)	8
AP**	804	Applied Music (2 successful completions)	8
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUEN		Ensemble/Production	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
MUPP	640	Graduate Performance Recital	2
		Total	32

SCHOOL OF HEALTH PROFESSIONS

Division of Athletic Training

Division of Nursing

Division of Occupational Therapy

Division of Physical Therapy

Division of Physician Assistant Studies

Division of Respiratory Care

Statement of Purpose

The purpose of the School of Health Professions is to prepare students to be efficient and effective health care practitioners.

Mission Statement

The mission of the School of Health Professions is to educate undergraduate and graduate health professionals in the disciplines of Athletic Training, Nursing, Occupational Therapy, Physical Therapy, Physician Assistant Studies and Respiratory Care who embrace and deliver compassionate, ethical and evidence-based health care to meet the needs of individuals and communities, locally and globally. Students and faculty of the School of Health Professions use the latest technologies, support collaboration between the health disciplines and are committed to lifelong learning.

Entrance Requirements

Applicants must meet all general university admission requirements and specific requirements for the School of Health Professions program for which they intend to enroll. Students are selected by a variety of methods including an evaluation of high school and college transcripts, college board scores and other indicators of ability to complete the program. A thorough background in the sciences, humanities and mathematics is strongly recommended.

Where applicable, transfer students must have a grade of "C" or better in all professional courses. In addition, transfer students are required to demonstrate skill and theory competence equal to that expected of Shenandoah University students at that level of education. Each health profession program has unique transfer requirements. Transfer candidates should consult the director or staff directly to determine requirements specific to that program.

All students admitted to programs in the school are required to submit evidence of specific immunizations, and generally good physical and mental health. In most cases, students will be required to complete a urine drug screen and criminal background check as a requirement for clinical placement.

Division of Athletic Training

Rose A. Schmieg, Director
Shingleton Hall, Room 5B, (540) 545-7385

Master of Science in Athletic Training

Educational programming within the Division of Athletic Training is based upon the belief that athletics and physical fitness play an integral role in the overall health and well-being of an individual and have value for society as a whole. Athletes of all ages and abilities may at some time be predisposed to or actually encounter an injury that will need to be tended to by a health care professional. Certified athletic trainers are the experts in preventing, recognizing, managing and rehabilitating injuries that result from physical activity. As a part of a complete sports medicine team, the certified athletic trainer works under the direction of a licensed physician and in cooperation with other health care professionals, athletics administrators, coaches and parents. The Division of Athletic Training is committed to educating students who possess a strong background in human anatomy, physiology and kinesiology, and are able to apply this knowledge in the actual sports/clinical setting. Shenandoah University athletic training students embrace the process of learning as a lifelong process.

The select group of graduate students who complete study in this program are prepared to sit for the Board of Certification (BOC) Examination. This program has been uniquely designed to offer clinical field experiences in the fall and spring semesters under the direct supervision of certified athletic trainers in a variety of settings including Shenandoah University, other affiliated colleges and universities, affiliated high schools, affiliated professional athletic training room settings and affiliated sports medicine clinics. The program's clinical education philosophy embraces the utilization of evidence-based practice for clinical reasoning and decision-making. It is also believed that diversity in clinical field experience settings enriches the overall clinical education experience for students. As a graduate program, the Division of Athletic Training is committed to incorporating clinical research as part of the entry-level educational experience. Students propose, perform, defend and present a scientific study as a culminating project in the curriculum.

Goals and Objectives

Upon completion of the classroom and clinical requirements of the Master of Science in Athletic Training program, students will be able to:

- Demonstrate an understanding of the importance of prevention of athletic injuries to athletes of all ages and abilities.
- Demonstrate competency in the various methods and practices that can be used to help bring about a reduction in athletic injuries.
- Integrate scientific knowledge and clinical psychomotor skills along with critical thinking/problem solving abilities to assess and rehabilitate athletic injuries.
- Provide appropriate levels of emergency care for athletic injuries and differentiate between cases that require referral to emergency medical services or to physicians.

- Create, manage and modify a comprehensive rehabilitation program for athletes recovering from illness and injury, facilitating their return to full athletic participation.
- Initiate, organize and administer an athletic training service project to a high school or college athletic training program, sports medicine clinic, corporate fitness setting or the local community.
- Provide information, counsel and guidance regarding the importance, nature and extent of sports health care intervention necessary to maintain the overall health and well being of an athlete to the individual athlete, coach, parents and other vested parties.
- Recognize the need for understanding, utilizing, and contributing to evidence-based practice in the field of athletic training. Included in this are demonstrating the ability to critically analyze peer-reviewed literature, practicing skills that have been scientifically proven to be effective, and performing a clinical research project.
- Develop a sense of professionalism and incorporate the NATA Code of Ethics into daily practice.

Entrance Requirements

Admission into the Master of Science in Athletic Training program is determined by the Division of Athletic Training Admissions Committee. The committee reviews all completed applications to ensure all prerequisites and admission criteria have been met. As an entry-level Master of Science in Athletic Training curriculum, Shenandoah utilizes a 3+2 model in that a student may apply as an undergraduate student who has completed the prerequisite courses without having earned an undergraduate degree. Applicants may also have earned a bachelor's degree with the prerequisite courses included in it. Courses will only be accepted as prerequisites with a grade of "C" or better.

Regarding the 3+2 model, the applicant must have a minimum total of 90 college credits completed with a grade of "C" or higher for the 52 required prerequisite courses.

Admissions Criteria

1. Expected overall GPA 2.8 (3.0 or higher recommended in science/math courses) for undergraduate prerequisite courses.
2. GRE scores will be viewed on a competitive basis with a minimum recommended combined score of 1000.
3. An interview on campus with the Division of Athletic Training faculty.
4. Athletic experience documentation listing all sports that you have participated in as an athlete, coach, referee, manager or athletic training student.
5. Three letters of reference (preferably from a certified athletic trainer, coach, employer or professor).
6. Essay expressing your interest in becoming a certified athletic trainer (3-5 pages double spaced).
7. Completed "Guidelines for Technical Standards for Entry-Level Athletic Training Education" form included in the admission packet. This form may also be found on the SU Division of Athletic Training Web page.

All application materials will be viewed and scored on a competitive basis by the Division of Athletic Training Admissions committee. Applications received that demonstrate completion of all materials including completed prerequisite courses verified with official transcripts will be considered with highest priority for full acceptance. Rare exceptions will be granted for “provisional acceptance” in instances when an applicant has an overall strong application packet but is missing a few prerequisite courses. These cases will be reviewed individually by the program admissions committee. An applicant that is granted “provisional acceptance” may matriculate into the curriculum but will be given a formal contract of agreement stating where and when the applicant will complete the outstanding prerequisite course(s) with a grade of “C” or higher. Failure to meet the provisional acceptance contract requirements will result in dismissal from the program.

Additional Student Information

Accepted students must submit the following before attending formal classes:

1. Proof of current health insurance coverage on Wilkins Wellness Center Insurance Coverage Form.
2. SU Physical Examination form which includes immunization record including Tetanus/Diphtheria, MMR, proof of chicken pox or receiving the vaccine, PPd, meningitis, Hepatitis B and polio.
3. Technical Standards Evaluation form to be completed by a physician along with the SU Physical Examination form.
4. Criminal Background check form.

Prerequisite Courses

Credits required (34 total):

English Composition and Literature	6 credits
Math Algebra/Pre-Calculus and Statistics*	6 credits
Anatomy and Physiology	8 credits
General Biology	4 credits
Chemistry I	4 credits
Introduction to Psychology	3 credits
Humanity Elective	3 credits

Plus a minimum of six credits from the following (must have a minimum of two of these classes):

Biomechanics or Kinesiology	3 credits
Physics I	4 credits
Physics II	4 credits
Chemistry II	4 credits
Biochemistry	4 credits
Exercise Physiology	3 credits

Plus 12 credits from the following:

Public Speaking	3 credits
Developmental or Abnormal Psychology	3 credits
Sociology	3 credits
Computer Science*	3 credits
Nutrition	3 credits

Human Growth and Development	3 credits
Community Health	3 credits
Introduction to Athletic Training	3 credits
Ethics	3 credits
Measurement and Evaluation in Health	
Physical education	3 credits
Total	52-54

**A research design course may be used in place of statistics if the courses syllabus demonstrates use of statistics in planning quantitative research. Other prerequisites may have slightly differing names. Course substitutions must be approved by the program director.*

**Demonstration of skill in microcomputing, such as passage of a Microsoft Office test, may be used in place of a three-credit course. This substitution must be approved by the program director.*

Guidelines for Technical Standards For Entry-Level Athletic Training Education

The Division of Athletic Training at Shenandoah University, in compliance with the 1990 Americans with Disabilities Act (ADA), does not discriminate against qualified individuals with disabilities. Given the intent of Section 504 of the Rehabilitation Act of 1973 and the ADA, the development of standards of practice for a profession, and the establishment of essential requirements to the student's program of study, or directly related to licensing requirements, is allowable under these laws.

The Athletic Training Education Program at Shenandoah University is a rigorous and intense program that places specific requirements and demands on the student enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Education Program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills and competencies of an entry-level athletic trainer; as well as meet the expectations of the program's accrediting agency, the Commission on Accreditation of Athletic Training Education (CAATE). All students admitted to the Athletic Training Education Program must meet the following abilities and expectations. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program.

Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC exam. The student must successfully complete the Shenandoah University Athletic Training Education Program to meet this goal.

Candidates for selection to the Shenandoah University Athletic Training Education Program must demonstrate:

1. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
2. Sufficient postural and neuromuscular control, sensory function and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.

3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds. This includes, but is not limited to the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
4. The ability to record the physical examination results and a treatment plan clearly and accurately.
5. The capacity to maintain composure and continue to function well during periods of high stress.
6. The perseverance, diligence and commitment to complete the Athletic Training Education Program as outlined and sequenced.
7. Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations.
8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Shenandoah University Athletic Training Education Program are required to verify that they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards.

The Shenandoah University Academic Enrichment Center will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. Contact the coordinator of disability services at (540) 665-4928.

If a student states he/she can meet the technical standards with accommodation, then Shenandoah University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review as to whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all course work, clinical experiences and internships deemed essential to graduation.

SU Undergraduate Master of Science in Athletic Training Pre-Admissions Program

The purpose of the SU undergraduate pre-admission program is to allow highly qualified high school students to be pre-admitted into the Master of Science in Athletic Training Program. These students are guaranteed acceptance into the MSAT program provided that they meet specific criteria. In order to be admitted into this program as a freshman at Shenandoah University (out of high school) the student must achieve:

1. A high school cumulative GPA of 3.2 or better.
2. Score a minimum of 1000 on SATs.
3. Submit an application for admission to SU as an undergraduate Kinesiology Pre-Athletic Training Major.

4. Submit the forms for the MSAT Pre-Admit program.

This part of the admissions process is handled by the Office of Graduate Admissions for Shenandoah University. In order to remain in the program and matriculate into the MSAT program at the end of three years of undergraduate study the student must:

1. Successfully complete a minimum of 90 hours of course work (grade “C” or higher).
2. Maintain a minimum cumulative GPA of 3.2.

Although this program provides the students with guaranteed admission, the student must still complete all of the materials requested as part of the admission process to actually receive formal acceptance into the program.

Degree Requirements

The professional degree requirement is successful completion of the 70 credit hours of professional curricular content (not including prerequisite courses) with a grade point average of 2.8 or better.

Requirements for the Master of Science in Athletic Training Degree

Summer, Year I

Course	Title	Credit Hours
AT 501	Risk Management and Emergency Care for Athletes	3
AT 511	Advanced Athletic Training Techniques	2
AT 521	Functional Human Anatomy I	2
AT 523	Therapeutic Exercise I	1
AT 531	Pathology/Evaluation of Athletic Injury I	3
AT 552	Therapeutic Modalities	3
	Subtotal	14

Fall, Year I

Course	Title	Credit Hours
AT 561	Organization and Administration in Athletic Training	1
AT 562	Imaging in Athletic Training	1
AT 571	Sports Nutrition	3
AT 581	Clinical Field Experience I	4
	Subtotal	9

Spring, Year I

Course	Title	Credit Hours
AT 504	Psychological Intervention/Referral in Athletic Training	3
AT 514	Pharmacology in Athletic Training	2
AT 653	Ethics/Professionalism in Athletic Training	2
AT 582	Clinical Field Experience II	4
	Subtotal	11

Summer, Year 2

Course	Title	Credit Hours
AT 621	Functional Human Anatomy II	2
AT 624	Therapeutic Exercise II	2
AT 631	Pathology/Evaluation of Athletic Injury II	3
AT 663	Clinical Research I	3

AT	643	Advanced Rehabilitation of Athletic Injury	3
		Subtotal	13

Fall, Year 2

Course		Title	Credit Hours
AT	633	Clinical Medicine	3
AT	664	Clinical Research II	3
AT	745	Industrial Rehabilitation/Ergonomics	2
AT	681	Clinical Field Experience III	4
		Subtotal	12

Spring, Year 2

Course		Title	Credit Hours
AT	670	Health Care Administration	2
AT	711	Theories and Practice of Conditioning Athletes	3
AT	682	Clinical Field Experience IV	4
AT	763	Research Seminar	1
AT	774	Senior Seminar	1
		Subtotal	11
		Total	70

Dual Degree: Doctor of Physical Therapy/ Master of Science in Athletic Training

Physical therapy is a challenging and satisfying profession — one with many career pathways from which to choose. One particular pathway is developing a career that specializes in sports medicine. Certified athletic trainers have expertise in preventing, recognizing, managing and rehabilitating injuries that result from athletics and other physical activity. The Dual Degree program DPT/MSAT has been established at Shenandoah University for those students who wish to become members in both professions sharing a common link to become a sports medicine expert clinician. The Dual Degree program offers the student all the courses required to meet the standards to take the physical therapy licensure examination and the athletic training BOC certification examination. Courses are shared between programs where there is didactic course work that overlaps between the two professions.

Admission Requirements

This Dual Degree program involves formal admittance into the DPT and MSAT programs as established on the respective pages of this catalog. Additional admission requirements beyond the formal acceptance into each program are listed below:

1. No more than five Dual Degree DPT/MSAT students are admitted annually due to availability of clinical affiliation sites for this program.
2. Applicants must submit a typed letter with the application to the DPT and MSAT programs stating a request for being admitted into the Dual Degree program.
3. Applicants who wish to pursue the Dual Degree program and who have been formally admitted into the DPT and MSAT programs are ranked on a competitive basis using the admissions criteria established for the DPT and MSAT programs. Admission into the Dual Degree DPT/MSAT program is granted to the top five applicants.

Application Deadline

Dual major DPT/MSAT applications must be postmarked by November 1.

Degree Requirements

The dual DPT/MSAT degree requirement is successful completion of the credit hours of the combined programs with a grade point average of 2.8 or better.

Requirements for the Dual DPT/MSAT Degree

Summer, Year I

Course	Title	Credit Hours
AT 501	Risk Management and Emergency Care for Athletes	3
AT 511	Advanced AT Techniques	2
AT 521	Functional Human Anatomy I	2
AT 523	Therapeutic Exercise I	1
AT 531	Pathology/Evaluation of Athletic Injury I	3
AT 552	Therapeutic Modalities	3
	Subtotal Hours	14

Fall, Year I

Course	Title	Credit Hours
PT 603	Gross Human Anatomy I	4
PT 608	Examination and Intervention	3
PT 623	Histophysiological Aspects of Movement I	3
PT 643	Evidence-Based Practice: Introduction to Research Design	3
PT 653	Professional Issues I	3
PT 681	Medical Foundations I	1
PT 761	Clinical Conference I	1
AT 591	Clinical Field Experience I for Dual Degree MSAT/DPT	2
	Subtotal Hours	20

Spring, Year I

Course	Title	Credit Hours
PT 604	Gross Human Anatomy II	4
PT 610	Musculoskeletal System I	3
PT 624	Histophysiological Aspects of Movement II	3
PT 656	Clinical Practicum I	1
PT 672	Functional Neuroanatomy	3
PT 684	Medical Foundations II	1
PT 685	Psychosocial Aspects of PT	2
AT 592	Clinical Field Experience II for Dual Degree MSAT/DPT	2
	Subtotal Hours	19

Summer, Year 2

Course	Title	Credit Hours
AT 624	Therapeutic Exercise II	2
AT 631	Pathology Evaluation AT 2	3
AT 643	Advance Rehabilitation in Athletic Training	3
	Subtotal Hours	8

Fall, Year 2

Course	Title	Credit Hours
PT 709	Musculoskeletal System II	3
PT 721	Pathology	3
PT 751	Clinical Practicum II	1
PT 762	Clinical Conference II	1
PT 771	Adult Neurotherapeutics	4
PT 781	Gait Analysis and Biomechanics	3
AT 571	Sports Nutrition	3
AT 593	Clinical Field Experience 3 for Dual Degree MSAT/DPT	2
	Subtotal Hours	20

Spring, Year 2

Course	Title	Credit Hours
PT 703	Pediatric Physical Therapy	4
PT 710	Musculoskeletal System III	4
PT 732	Professional Issues II	2
PT 744	Prosthetics and Orthotics	2
PT 752	Clinical Practicum III	1
PT 892	Medical Foundations III	2
AT 504	Psych Intervention/Referral in AT	3
AT 514	Pharmacology in AT	2
AT 594	Clinical Field Experience 4 for Dual Degree MSAT/DPT	2
	Subtotal Hours	22

Summer, Year 3

Course	Title	Credit Hours
PT 753	Clinical Internship I	3
	Subtotal Hours	3

Fall, Year 3

Course	Title	Credit Hours
PT 805	Gross Human Anatomy and Kinesiology III	1
PT 821	Cardiovascular and Pulmonary Physical Therapy	3
PT 831	Professional Issues III	2
PT 861	Clinical Conference III	1
PT 881	Advanced Topics	1
PT 897	Comprehensive Examination	1
PT 898	Evidence Based Practice: Advanced Critical Analysis of the Literature and Implementing Research	3
AT 633	Clinical Medicine	3
AT 745	Industrial Rehabilitation/Ergonomics	2
	Subtotal Hours	17

Spring, Year 3

Course	Title	Credit Hours
PT 832	Establishing a Physical Therapy Practice/Direct Access	3
AT/PT 691	AT Clinical Field Experience V for Dual Degrees/ PT Clinical Internship II	6
AT 670	Health Care Administration	2
AT 711	Theories and Practice of Conditioning Athletes	3
	Subtotal Hours	14

Summer, Year 4

Course		Title	Credit Hours
PT	855	Clinical Affiliation III	6
		Subtotal Hours	6

Fall, Year 4

Course		Title	Credit Hours
AT	692	Clinical Field Experience VI for Dual Degrees	4
AT	774	Senior Seminar	1
		Subtotal Hours	5
		Total Semester Hours	148

MSAT Program Expenses (beyond tuition and lab fees)

Application Fee	\$30
Advance Tuition Deposit	\$500
Campus Parking Fee	\$115
Text Books Year 1	\$1,200
Text Books Year 2	\$540
Athletic Training Clinical Field Experience Uniform	\$80
Criminal Background Check	\$50
Technology Fee (per semester)	\$500

All fees are approximate and are subject to change.

All SU students must be covered by health insurance. To purchase health insurance through SU, please visit the Wilkins Wellness Center at the following link: www.su.edu under Student Life and then Health & Wellness Health Services.

Students must participate in the SU iMLearning Program. Refer to technology fee above.

A unique feature of the SU MSAT program is that clinical field experience sites are either on campus at Shenandoah University, at surrounding high school settings and in NCAA programs in various locations throughout the United States. Shenandoah University Division of Athletic Training is not responsible for, nor will it be able to determine, rental and other associated living costs involved with clinical education at distant sites. Such costs incurred by the students will be determined by current market conditions in the town/city and/or country in which the clinical site is located.

Prospective students are encouraged to research market conditions of distant clinical sites to determine what additional costs may be involved during those clinical experiences. This will allow students to make informed decisions on costs associated with clinical field experiences outside of the Winchester area. Listings of the SU MSAT clinical field experience sites may be found at www.su.edu/at.

Division of Nursing

Kathryn M. Ganske, Director

Health Professions Building – Nursing, (540) 678-4374, kganske@su.edu

Mission

The mission of the Division of Nursing is to prepare graduates who deliver, manage and lead nursing care in a variety of health care settings and who participate in personal and professional development.

All graduate programs in nursing are accredited by The Commission of Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington, DC 20036; (202) 887-6791; www.aacn.nche.edu.

Master of Science in Nursing (MSN) Objectives

Graduates of the Master's track will be able to:

1. Synthesize knowledge associated with the advanced nursing practice and advancement of nursing.
2. Demonstrate skill in the delivery, management and leadership of advanced nursing practice.
3. Demonstrate values consistent with the ethical delivery of advanced nursing practice.
4. Exemplify unique meanings associated with advanced nursing practice and the profession.
5. Actively and intellectually engage in advanced nursing and health care delivery for specialized populations.

Doctor of Nursing Practice (DNP) Objectives

Graduates of the Doctor of Nursing Practice track will be able to:

1. Synthesize knowledge associated with expert advanced nursing practice and the advancement of the profession.
2. Demonstrate expert skill in the delivery, management and leadership of primary health care.
3. Demonstrate values consistent with the ethical delivery of expert advanced nursing practice.
4. Exemplify unique meanings associated with expert advanced nursing practice and the profession.
5. Actively and intellectually engage in advanced nursing and health care delivery designed to enhance expertise in caring for diverse populations.

Since the 1960s, Shenandoah University has played an integral part in the education of nurses in the region. This rich tradition continues at the graduate level in nursing. To become educated, learners become involved in intellectual work and critical thinking in order to transform information into knowledge, skills, values, meanings and experiences necessary for the provision, management and coordination of general nursing care for individuals, families, groups and communities at the graduate level. The scholarly habits of

learning, established early, increase the graduate's lifetime ability to contribute to the discipline/profession of nursing and to society.

The Division of Nursing at Shenandoah University has developed an innovative framework for graduate study. Based on knowledge, skills, values, meanings and experiences, it centers around the lived experiences of individuals. Alternative teaching-learning experiences that go "beyond the walls" of the classroom enrich the lived experience of students, faculty, clients and communities.

Students selected for the Graduate Program in Nursing are educated in an innovative, clinically based curriculum that facilitates their professional development as expert advanced practitioners capable of providing safe and innovative care for specialized populations. In addition, MSN and DNP graduates participate in leading the profession during periods of unprecedented demand for nurses capable of advanced practice and clinical management.

Master of Science in Nursing (MSN)

The Graduate Program in Nursing offers several options to obtain an MSN or Post-MSN Certificate in the following specialty tracks: Nurse-Midwifery (NM), Family Nurse Practitioner (FNP), Health Systems Management (HSM) and Psychiatric Mental-Health Nurse Practitioner (PMHNP). The MSN option is offered to qualified applicants with a Bachelor of Science in Nursing degree and an RN license in the United States. An RN-MSN degree option is available for qualified applicants with an Associate of Science degree in Nursing (ASN) or a Diploma in Nursing and a RN license.* In addition, an endorsement in Nurse-Midwifery is available to qualified applicants who are current MSN students in a university participating in the SU Midwifery Endorsement program.

**For graduates wishing to practice in states requiring a bachelor's degree in addition to the MSN, a BSN option is available.*

Doctor of Nursing Practice

The Graduate Program in Nursing offers a Doctor of Nursing Practice (DNP) degree for FNP and PMHNP specialties. A Doctor of Nursing Practice degree (BSN-DNP or Post-Master's DNP) prepares the nurse with the necessary skills and knowledge to assume the role of a primary health care provider in a variety of settings. Doctor of Nursing Practice graduates are educated to become leaders in the health care arena and prepared to deliver quality primary health care.

General Information

Application Process

The following are requirements for admission:

1. Applicant must be a licensed registered nurse in the United States. Applicants not licensed in Virginia must apply and receive licensure by endorsement. Applicants must have a minimum undergraduate cumulative grade point average (GPA) of 3.0 on a 4.0 scale. Applicants with a 2.8 or 2.9 GPA will be considered for provisional acceptance. Applicants to the Doctor of Nursing Practice and the Post-Master's Certificate tracks must have a minimum graduate cumulative GPA of 3.0 on a 4.0 scale.

2. Submit three recommendations (Post-Master's Certificate applicants submit only two recommendations). One recommendation is to be from a nursing service supervisor; one from a nursing faculty member; and one may be another graduate prepared nurse who can address the applicant's ability for graduate school performance. If the applicant cannot submit a nursing faculty member recommendation, one may be submitted from an additional nursing service supervisor.
3. DNP applicants must submit a written essay.
4. DNP and MSN applicants must have earned a BS in Nursing degree from an NLNAC or CCNE-accredited program. RN-MSN applicants must have earned an ASN or diploma in nursing degree from an NLNAC-accredited program. Post-Master's Certificate applicants must have earned a MSN degree from an NLNAC or CCNE-accredited program. If the degree is not from a NLNAC- or a CCNE-accredited program, the applicant is evaluated on an individual basis.
5. FNP, PMHNP AND NMW students must have a minimum of one year (2,080 hours) clinical nursing experience (or equivalent) before entering the specialty tracks. These are generally offered in the second year; therefore, the first year courses may be taken while the student is accumulating clinical nursing experience. Equivalency of clinical nursing experience is determined by the Division of Nursing. Students requesting consideration of equivalency should do so in writing and provide rationale for this request. HSM students are not required to complete 2,080 hours of clinical nursing prior to entering specialty courses.
6. Applicants to the Psychiatric Mental-Health Nurse Practitioner Post-Master's Certificate Track must document a minimum of 320 clinical hours in Psychiatric Mental Health graduate level course work.
7. DNP and MSN applicants must demonstrate successful completion of baccalaureate-level nursing courses in physical assessment, introductory statistics, and community nursing with a grade of "C" or better within the past five years. Applicants missing one or more of these courses may be admitted provisionally and are allowed to complete any missing prerequisites within the first year of study, or challenge the Community Nursing and Physical Assessment requirements via NLN exams.
8. Post-Master's Certificate applicants must demonstrate successful completion of a MSN degree and graduate level health assessment, pharmacology and pathophysiology courses with a grade of "B" or better.
9. RN-MSN applicants must demonstrate successful completion of prerequisite courses. Applicants missing one or more of these courses may be admitted provisionally and allowed to complete any missing prerequisites within the first year of study while taking the bridge courses.
10. Applicants for the DNP Post Master's must hold appropriate certification as a nurse practitioner. Applicants for the BSN-DNP will be prepared to practice as FNP or PMHNP and be eligible to sit for the FNP or PMHNP certification exams. Applicants for the DNP will complete the GRE or the Miller Analogies Test.
11. Post Master's DNP applicants must have successful completion of MSN courses in health assessment, pharmacology, pathophysiology, applied interactive genetics and

emergency preparedness disaster nursing. Applied interactive genetics and emergency preparedness disaster nursing may be taken concurrently with other post master's DNP courses.

12. Before completion of prerequisites, MSN and DNP students may be accepted provisionally. Provisional students are eligible for financial aid. Upon completion of all prerequisites, students will gain complete acceptance status.
13. Eligible applicants are offered full acceptance to the program when all outstanding prerequisite requirements are successfully completed. Before completion of prerequisites, students may be accepted provisionally. Provisional students are eligible for financial aid. Applicants not accepted may enroll as non-degree seeking visiting students for a maximum of 12 credit hours while completing outstanding prerequisite requirements. After completing the prerequisite requirements, the student may then reapply to the program. Visiting students are not eligible for financial aid. Graduate applicants may transfer up to 12 semester hours of equivalent courses into the graduate program. Post-Master's Certificate and Post-Master's Doctor of Nursing Practice applicants may transfer up to six credit hours into the graduate program. Qualified applicants are invited for a personal interview with the Division of Nursing graduate faculty.
14. Students who have been dismissed from another graduate program of nursing are not eligible for admission to the Shenandoah University Division of Nursing.

Academic Evaluation

There are three requirements for successful completion of all graduate nursing programs:

1. Achieve a "B" or better in all nursing specialty courses and maintain a minimum 3.0 cumulative GPA.
2. Demonstrate professional behavior at all times as identified in the Division of Nursing Student Handbook.
3. Demonstrate safety considerations for self and others at all times as identified in the Division of Nursing Student Handbook.

Graduate Progression Policy

Graduate students must achieve a "B" or better in all nursing specialty courses and maintain a minimum of 3.0 cumulative GPA. If a student falls below a 3.0 cumulative GPA, they will be given one academic year to bring the GPA up to 3.0 or be dismissed from the program.

Graduate students must demonstrate professional behavior at all times.

Graduate students must demonstrate safety considerations for self and others at all times as identified in the Division of Nursing Student Handbook.

A minimum passing grade for MSN/DNP core courses is a "C." MSN/DNP students may receive no more than two "C's" or grades less than a "C" in the core courses.

Graduate students who receive more than two "C's" or grades less than a "C" in the

core courses may be allowed to repeat the course once. Students may obtain no less than a “B” in all specialty track courses. Students who receive less than a “B” in a specialty track course may be allowed to repeat the course once, up to two courses. Students failing to meet the above requirements are terminated from the program.

Students anticipating dropping or withdrawing from a course must do so in consultation with their faculty advisor and during times specified by the university.

Repeating a Graduate Course

Students may repeat a nursing course only once and must complete the course within one academic year of the semester in which they dropped, failed or withdrew from the nursing course.

Students may repeat a maximum of two nursing courses.

Students re-entering the nursing curriculum following an absence of greater than one calendar year or two academic semesters may have to repeat previous core courses.

Graduate Student Computer Requirements

All graduate nursing students are required have laptop computers beginning Fall 2010. The laptop may be a PC or Mac.

The following minimum configuration requirements are recommended in order to successfully interface with the wireless technology available to all SU students. It is recommended that the student has an extended warranty and an up to date antivirus program.

- 1.7 GHz Core 2 Duo or Centrino processors
- 80 GB hard disk drive
- CD/DVD drive RW
- Wireless capability (built in)
- 2 Gb RAM
- MS Windows XP, Vista, or Windows 7
- MS Office Professional (may be student and teachers version)*

**May be purchased through the SU bookstore.*

It is recommended that graduate nursing students have access to a reliable, stable and efficient high-speed Internet connection at a place where they study and prepare assignments. Learning assignments often include materials and learning content that must be accessed on SU Web-based platforms and Internet sites. The student must have the capability to transfer large files of data and learning materials. This is not easily possible with a dial-up Internet connection.

For more information on use of technology, please see the Division of Nursing Student Handbook.

Licensure Considerations

Students and graduates are subject to the current Commonwealth of Virginia Health Regulatory Board's Board of Nursing Statutes regarding legal limitations of licensure and professional advanced practice.

Students who have been convicted of a felony, or who may have had previous experiences that would interfere with their ability to practice advanced nursing, are responsible for informing the Nursing Program Administrator and for contacting the Board of Nursing regarding their ability to practice. The Nursing program strongly encourages students with these circumstances to contact the Board of Nursing prior to enrolling in nursing courses.

Fees

The Nursing program tries to limit student expenses. However, there are fees and expenses associated with texts, lab coats/uniforms, campus learning laboratory equipment, travel, required clinical and classroom experiences, standardized tests, copying, clinical fees, criminal background check, urine drug screening and malpractice insurance that are the students' responsibility.

Students accepted into the graduate program must:

- Carry and maintain professional liability insurance (Midwifery students) to the maximum litigation potential allowed by the state in which clinicals are being held. Insurance must be held for the entire duration of all clinical courses. The Division of Nursing provides students with information on how to obtain this insurance. The cost of liability coverage is the responsibility of the student and the student is informed of this during the interview process. All other graduate students will be provided malpractice insurance by Shenandoah University and will be billed annually for the coverage upon enrollment in the graduate program.
- Complete and maintain a Shenandoah University Health Form, which includes evidence of basic immunizations, including Rubella, Hepatitis B and TDAP.
- Complete and maintain a criminal background check. See Academic Policies section for details.
- Complete and maintain a urine drug screening according to current requirements of the university and the clinical partner institution.

Program/course offerings are dependent upon having a minimum of 10 qualified students enrolled.

Core Courses Required in the Graduate Program in Nursing

Course	Title	Credits	HSM	NM	FNP	PMH NP
N 506	Applied Data Analysis		3	3	3	3
N 512	Theory, Research and Reasoning I		3	3	3	3
N 521	Theory, Research and Reasoning II		3	3	3	3
N 532	Roles and Issues in Advanced Practice		3	3	3	3
N 550	Advanced Pharmacology and Therapeutics		--*	3	3	3

N 560	Advanced Concepts in Physiology and Pathophysiology	--	3	3	3
N 580	Advanced Health Promotion and Assessment Across the Lifespan	--	4	4	4
	Total Core Credits	12	22	22	22

*Not required in this specialty track.

RN to MSN Degree Option

The RN to MSN degree option in the Division of Nursing enables students who are registered nurses without a BSN to obtain an MSN degree within one of four specialty areas: Nurse-Midwifery, Family Nurse Practitioner, Health Systems Management and Psychiatric Mental-Health Nurse Practitioner. Students in the RN to MSN program take 13-17 credits of undergraduate nursing bridge courses and between 36-48 credits of graduate courses depending on their specialty area. Students admitted to the RN-MSN track must successfully complete the NLN Health Assessment exam prior to taking N 401 Health Across the Lifespan: Communities. If unsuccessful, N 201 Health Assessment must be completed prior to taking N 401. Graduates have the competencies taught in their chosen specialty areas and, for the Nurse-Midwifery and Family Nurse Practitioner specialties, are eligible to take the appropriate national certification exams. For graduates wishing to practice in states requiring a bachelor's degree in addition to the MSN, a BSN option is available.

Prerequisite Courses and General Education Requirements

Course	Title	Credits
	Human Anatomy and Physiology, I and II	8
	Microbiology	4
	Chemistry	4
	Statistics	3
	English Composition	3
	English Literature	3
	Psychology	3
	Sociology	3
	Public Speaking	3
	Religion, Ethics or Philosophy	3
	Subtotal	37
	RN Nursing Transfer Credits	36-40
	Total	73-77

Interested students are strongly encouraged to meet with a nursing faculty member/ advisor to review transcripts from previous institutions attended.

Bridge Courses

Course	Title	Credits
N 319	Ethics and Genomics in Nursing Practice	3
N 414	Leadership and Ethics in Professional Nursing Practice	3
N 306	Theory, Reasoning and Research in Nursing	3
N 401	Human Health Across the Lifespan: Communities	5*
	Total	14**

*Three class hours/week and six clinical hours/week.

**Total bridge course credits will be 18 if health assessment course must be taken.

After completing the bridge courses, all RN to MSN students complete their track in the MSN program.

Specialty Tracks

Nurse-Midwifery*

The Nurse-Midwifery Track is designed to provide the student with the necessary knowledge, skills, values, meanings and experiences to assume the role of a certified nurse-midwife in a variety of clinical settings. Didactic and clinical course content focuses on role development, assessment and management of women's health — antepartal, intrapartal, postpartal and neonatal periods, as well as primary women's health — throughout the lifespan. Clinical experiences are in a wide variety of ambulatory and community rural and medically underserved health care settings appropriate to the Nurse-Midwifery track. Approximately 720 clinical hours are inherent in this program; however, the curriculum has two unique features: it is competency-based and is dependent on the birth of babies. Both features may require more clinical hours than are allotted in the formal clinical clock hour ratio outlined in the graduate program. These two unique features are explained to students upon entry into the program. Graduates of the Nurse-Midwifery Certificate program are eligible to sit for the national certification exam given by the American Midwifery Certification Board (AMCB). Upon successful completion of this national examination, the graduate will be recognized as a Certified Nurse-Midwife.

**The Nurse-Midwifery Track is accredited by the Accreditation Commission for Midwifery Education, 8403 Colesville Rd, Suite 1550, Silver Spring, MD 20910, (240) 485-1800, www.acnm.org.*

Nurse-Midwifery Objectives

By the completion of this track, the graduate will:

1. Synthesize theories from nursing and related arts and sciences in providing nurse-midwifery care for diverse women and their families.
2. Synthesize nursing knowledge, skills, values, meanings and experiences in the provision of comprehensive nurse-midwifery care and management for diverse women and their families.
3. Using the nurse-midwifery management process, coordinate and deliver care for diverse women and their families across the lifespan.
4. Assume individual responsibility for the choice of therapeutic nurse-midwifery interventions and accountability for their outcomes for clients and families.
5. Synthesize the impact of practice standards, as well as legal, ethical, political, economic, accrediting and controlling factors on the delivery of nurse-midwifery care.
6. Positively influence practice standards, as well as legal, ethical, political, economic, accrediting and controlling factors impacting the delivery of nurse-midwifery care.
7. Contribute to the discipline of nurse-midwifery and the profession of nursing through scientific inquiry.
8. Provide collegial and collaborative leadership among professional nurse-midwives and other health care providers.

9. Demonstrate the desire for and value of continued professional growth by identifying individual learning needs, as well as the needs of the discipline of nurse-midwifery and the nursing profession.
10. Design a career development plan based on self-evaluation, the desire for continued professional growth, the needs of the discipline/profession and those factors influencing the discipline/profession within the region where you intend to practice.

Nurse-Midwifery Specialty Courses

Course	Title	Credits	Explanation
NM 610	Primary Care of Women	2(1)*	Clinical clock hrs: 1:4
NM 620	Comprehensive Antepartal Care	2(1)*	Clinical clock hrs: 1:4
NMLB 630	Midwifery Practicum	(3)*	Clinical clock hrs: 1:4
NM 640	Comprehensive Perinatal Care	2(1)*	Clinical becomes competency-based due to intrapartum
NMLB 650	Integrated Midwifery Practicum	(6)*	Clinical becomes competency-based due to intrapartum
NM 660	Advanced Nurse-Midwifery Role Development	1	
	Graduate Elective	3	
	Total	22	

*Credits in parentheses are clinical credits.

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours and is also competency-based.

Health Systems Management

The Health Systems Management Track is designed to prepare graduates with advanced knowledge and skills to manage health care of populations in the evolving health care delivery system. Graduates have competency in population and epidemiological assessment, cost-benefit analysis, and the ability to apply evidence-based interventions and interdisciplinary care models to design, implement, and evaluate health care programs for the population. Practica are designed to develop expertise in evaluation of outcomes data for the selected population. A unique feature of this track is the ability of the student to focus on such areas as: Education, Management, Advanced Clinician or an individualized course of study. This track can be completed in four semesters of full-time study (36 credits). Students completing this program receive a Master of Science in Nursing degree.

Health Systems Management Specialty Courses

Course	Title	Credits
HSM 640	Health Systems Management I	3
HSML 650	Health Systems Management Practicum I	3*
HSM 660	Health Systems Management II	3
HSML 670	Health Systems Management Practicum II	3*
	Total	12

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

Students in the HSM Track may select from the following focus areas to complete requirements for the MSN:

Education: N 502, N 503, N 604 and N 605. Students may opt to take an elective in place of N 605.

Management: In consultation with your advisor, choose 3 or 4 Business or Management courses and/or one nursing elective course (12 credits total).

Advanced Clinician: N 550, N 560, N 580 and a graduate nursing elective.

Informatics: In consultation with your advisor, choose 3 or 4 Nursing or Health Care informatics courses and/or one nursing elective course (12 credits total), courses from accredited schools can be transferred in.

Individualized Design: 12 specialized credits in focus of choice, approved by academic advisor.

Family Nurse Practitioner

The FNP Track is designed to provide the nurse with the necessary knowledge, skills, values, meanings and experiences to assume the role of a primary health care provider in a variety of clinical settings. Didactic and clinical course content focuses on assessment and management of health promotion and health maintenance strategies, risk reduction, common acute and chronic alterations in health status for individuals and families across the lifespan and role development. Clinical experiences are provided in a wide variety of ambulatory and community rural and medically underserved health care settings appropriate for the Family Nurse Practitioner Track. There are approximately 750 clinical hours in the program.

Family Nurse Practitioner Specialty Courses

Course	Title	Credits
NP 570	Applied Pharmacology and Therapeutics	2*
NPLB 580	Advanced Assessment Lab	1*
NP 610	Primary Care of Families I	3
NP 620	Primary Care of Families II	3*
NP 630	Primary Care of Women and Children	3
NPLB 650	Primary Care of Families Practicum I	3*
NPLB 670	Primary Care of Families Practicum II	3*
NPLB 680	Primary Care Advanced Practicum	4*
NP 690	Advanced FNP Role Development	1
	Graduate Elective	3
	Total	26

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

Psychiatric Mental-Health Nurse Practitioner Track

The Psychiatric Mental Health Nurse Practitioner (PMHNP) Track is designed to provide the nurse with the necessary knowledge, skills, values, meanings and experiences to assume the role of a PMHNP in a variety of clinical settings. The track consists of didactic and clinical course content essential to provide psychotherapy to individuals, families and groups within hospitals and the community settings. Differential diagnosis, health promotion and psychotropic medication management (prescriptive

authority) for the psychiatric mental-health patient is addressed in this curriculum. Graduates of this track who have earned their MSN degree are eligible to sit for the American Nurses Credentialing Certification PMHCNS or PMHNP exams. The PMHNP student will complete at least 500 clinical hours during this program of study.

PMHNP Track

MSN Core Courses

Course	Title	Credit Hours
N 506	Data Analysis and Interpretation I	3
N 512	Theory, Research and Reasoning I	3
N 521	Theory, Research and Reasoning II	3
N 532	Roles and Issues in Advanced Practice	3
	Total	12

Specialty NP Courses

Course	Title	Credit Hours
N 550	Advanced Pharmacology and Therapeutics	3
N 560	Advanced Concepts in Physiology and Pathophysiology	3
N 580	Advanced Health Promotion and Assessment Across the Lifespan	4
NP 690	Advanced FNP Role Development	1
NP 570	Applied Pharmacology and Therapeutics	2
NPLB 580	Advanced Health Assessment Lab	1
	Total	14

Specialty PMH Courses

Course	Title	Credit Hours
PMH 640	Individual Therapy Theories	3
PMHL 650	Individual Therapy Practicum	3
PMH 660	Group, Family Community Theory	3
PMHL 670	Group, Family and Community Practicum	3
PMH 685	Geriatric Psychiatric Mental-Health Nursing	3
PMH 686	Child and Adolescent Psychiatric Mental-Health Nursing Theory	3
PMH 695	Advanced Nurse Practitioner Practicum in Psychiatric Mental-Health Nursing	4
HP 576	Substance and Relationship Abuse	3
	Total	22-25
	Program Total Hours	
	Core	12
	PMH Courses	22-25
	NP Courses	18
	Total	52-55

Post-Master's Nursing Certificates

Family Nurse Practitioner Certificate

The Division of Nursing offers an FNP Certificate for RNs who already hold a Master of Science in Nursing degree. The FNP Certificate is designed to provide the nurse with the necessary knowledge, skills, values, meanings and experiences to assume the role of a primary health care provider in a variety of clinical settings. Didactic and clinical course content focuses on assessment and management of health promotion and maintenance strategies, risk reduction, common acute and chronic alterations in health status for individuals and families across the lifespan and role development. Clinical experiences are in a wide variety of ambulatory and community rural and medically underserved health care settings appropriate to the family nurse practitioner track.

The FNP Certificate is designed to meet the needs and be sensitive to the MSN-prepared RN, with the philosophy that post-master's students are highly motivated adult learners who learn independently as well as in structured settings. Course work can be completed in 12 months of full-time study. Didactic courses are offered one day a week. Clinical experiences are arranged with individual preceptors in surrounding communities. 720 clock hours are spent in faculty or preceptor-supervised settings. Graduates of the FNP Certificate program are eligible to sit for the national certification exam given by either the American Nurses Association or the American Academy of Nurse Practitioners.

Prerequisites (may have completed in graduate program)

Prerequisites, in addition to the MSN, include three credits of advanced pathophysiology, three credits of advanced pharmacology, three credits of a general health assessment course. All courses must be at the 500 level or above.

Course of Study

Course	Title	Credit Hours
NP 570	Applied Pharmacology and Therapeutics	2
NPLB 580	Advanced Health Assessment Lab	1
NP 610	Primary Care of Families I	3
NP 620	Primary Care of Families II	3*
NP 630	Primary Care of Women and Children	3
NPLB 650	Primary Care of Families Practicum I	3*
NPLB 670	Primary Care of Families Practicum II	3*
NPLB 680	Primary Care Advanced Practicum	4*
NP 690	Advanced FNP Role Development	1
	Total	23

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

Nurse-Midwifery Certificate

The Division of Nursing offers a Nurse-Midwifery Certificate for RNs who already hold a Master of Science in Nursing degree. The Nurse-Midwifery Certificate is designed to provide the student with the necessary skills and knowledge to assume the role of a certified nurse-midwife in a variety of clinical settings pertinent to nurse-midwifery care. Didactic and clinical course content focuses on role development, assessment and management of women's health, antepartal, intrapartal, postpartal, and neonatal periods as well as primary women's health throughout the lifespan. Clinical experiences are in a

wide variety of ambulatory and community rural and medically underserved health care settings appropriate to the nurse-midwifery track.

The certificate is designed to meet the needs and be sensitive to the MSN-prepared RN with the philosophy that post-master's students are highly motivated adult learners who learn independently as well as in structured settings. Course work can be completed in 12 months of full-time study or 24 months of part-time study. Didactic courses are offered one day a week. Clinical experiences are arranged with individual preceptors in surrounding communities. A minimum of 720 clinical hours are inherent in this program however, the curriculum has two unique features: it is competency-based, and is dependent on the birth of babies. Both features may require more clinical hours than are allotted for in the formal clinical clock hour ratio outlined in the program. These two unique features are explained to students upon entry into the program. Graduates of the Graduate Program of the Division of Nursing within the Nursing-Midwifery Track are eligible to sit for the national certification examination given by the American Midwifery Certification Board (AMCB). Upon successful completion of this national examination the graduate will be recognized as a Certified Nurse-Midwife.

Prerequisites in addition to the MSN include three credits of advanced pathophysiology, three credits of advanced pharmacology and three credits of a general health assessment course. All courses must be at the 500 level or above.

Nurse-Midwifery Certificate Specialty Courses

Course	Title	Credit Hours
NM 610	Primary Care of Women	3*
NM 620	Comprehensive Antepartal Care	3*
NMLB 630	Midwifery Practicum	3*
NM 640	Comprehensive Perinatal Care	3*
NMLB 650	Integrated Midwifery Practicum	6*
NM 660	Advanced Nurse-Midwifery Role Development	1
	Total	19

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

The Midwifery Endorsement

The Midwifery Endorsement is a collaborative arrangement between the Nurse-Midwifery Track and other schools of nursing. Through this arrangement, the graduate nursing student attending those schools will receive an endorsement in nurse-midwifery after completing the 19 credit hours of graduate nurse-midwifery courses from Shenandoah University as they are completing their graduate degree from their home school of nursing. Upon successful completion of this program, the student will receive a graduate degree from their home nursing school and an Endorsement in Nurse-Midwifery from Shenandoah University. The graduate will then be eligible to take the national certification examination given by the American Midwifery Certification Board, and upon successful completion of the national examination will be recognized as a Certified Nurse-Midwife. See www.su.edu/nursing for details.

Requirements for Endorsement in Nurse-Midwifery

Admission to this option requires successful admission to the school of nursing at the home university. At the present time Shenandoah University has collaborative agreements with the following schools of nursing:

James Madison University

Johns Hopkins School of Nursing

Marshall University School of Nursing

Old Dominion University School of Nursing

Radford University School of Nursing

The core requirements for the graduate degree from the home university will be completed before entering the Nurse-Midwifery Specialty Track. Upon completion of these requirements, the student will be required to enroll and successfully complete the following nurse-midwifery courses.

Course	Title	Credit Hours
NM 610	Primary Care of Women	2 (1)*
NM 620	Comprehensive Antepartal Care	2 (1)*
NMLB 630	Midwifery Practicum	(3)*
NM 640	Comprehensive Perinatal Care (Clinical becomes competency-based due to intrapartum)	2 (1)*
NMLB 650	Integrated Midwifery Practicum (Clinical becomes competency-based due to intrapartum)	(6)*
NM 660	Advanced Nurse-Midwifery Role Development	1
	Total	19

Psychiatric Mental-Health Nurse Practitioner Certificate

The Division of Nursing offers a Psychiatric Mental-Health Nurse Practitioner (PMHNP) Certificate for RNs who hold a Master of Science Degree in psychiatric and mental-health nursing. The certificate is designed to provide the psychiatric clinical nurse specialist with the necessary knowledge and skills regarding differential diagnosis, health promotion, and psychotropic medication management (prescriptive authority) fundamental to the role of PMHNP. Didactic and clinical course content assist the psychiatric clinical specialist transition beyond psychotherapist, consultant and educator by adding knowledge and skills related to the PMHNP role. Ongoing assessment, health promotion, differential diagnosis, planning and medication management of psychiatric mental-health clients across the lifespan are focus areas. A variety of clinical inpatient and ambulatory settings to include primary care sites are utilized and result in 210 clinical hours. Post Master's certificate students are required to bring at least 320 clinical hours into the certificate track for a total of at least 500 hours overall completed. Graduates of the PMHNP certificate track have the required courses and clinical hours for eligibility to sit for the American Nurses Credentialing Certification PMHNP Examination.

Course of Study

Course	Title	Credit Hours
N 550	Advanced Pharmacology and Therapeutics	3*
N 560	Advanced Concepts in Physiology and Pathophysiology	3*
N 580	Advanced Health Promotion and Assessment across the Lifespan	4*
NP 570	Applied Pharmacology and Therapeutics	2
NPLB 580	Advanced Health Assessment Lab	1

NP	690	Advanced Family Nurse Practitioner Role Development	1
PMHL	692	Elective Practicum in Psychiatric Mental-Health Nursing	2**
PMH	695	Advanced Nurse Practitioner Practicum in Psychiatric Mental-Health Nursing	4
		Total	18

*This course includes clinical experiences. The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

**If additional clinical hours are needed.

Post-Master's Certificate in Nursing Education

The Certificate in Nursing Education is designed to prepare a student already holding a master's degree in nursing, or enrolled in a graduate nursing program at Shenandoah University, for teaching positions in educational and service settings. Students enrolled in such a program must complete the requirements for their degree to apply for the certificate. The courses in this program will provide students with essential knowledge of the foundations in curriculum and program development; theoretical foundations of the instructional process; application of assessment, measurement, and evaluation theories in nursing education. Students enrolled in the Health Systems Management graduate track with a focus in nursing education may also apply for the certificate. The certificate will provide the student with the necessary knowledge, skills, values, meanings and experiences to assume the role of a nurse educator. Graduates of the Certificate in Nursing Education program have the required courses for eligibility to sit for the National League for Nursing Certified Nurse Educator (CNE) examination.

Course of Study

Course		Title	Credit Hours
N	502	Principles of Teaching and Learning in Health Care Education	3
N	503	Curriculum Design in Nursing Education	3
N	604	Evaluation of Teaching and Learning in Nursing Education	3
N		Graduate Nursing electives	3*

*Student can select one from the Shenandoah University Graduate catalog with approval of the advisor.

Examples of courses:

N	505	Epidemiology and Biostatistics
N	511	Informatics and Technology in Health Care
N	515	Emergency Preparedness and Disaster Nursing
N	551	International Health Care
N	583	Applied and Interactive Genetics
N	710	Grant Writing
HP	576	Substance and Relationship Abuse
HSM	640	Health System Management Practicum I

The three education courses (N502, 503 and 604) in this program are offered as online courses. In order to be successful in the courses, the student must have a minimal level of computer competency. Courses may be taken on a full or part-time basis.

Doctor of Nursing Practice

The Division of Nursing offers the Doctor of Nursing Practice preparing the nurse with the necessary skills and knowledge to assume the role of a primary health care provider in a variety of settings. The program can be completed in 20 months part-time with summer courses. Cohorts are established and begin in the fall only. Classroom courses are on Wednesday. Clinical placement is arranged by faculty and will be scheduled at the convenience of the facility hosting the student.

Specialty Courses: Doctor of Nursing Practice

Course	Title	Credit Hours
N 505	Epidemiology and Biostatistics	3
N 511	Informatics and Technology in Health Care	2*
N 515	Emergency Preparedness and Disaster Nursing	3**
N 525	Advanced Data Analysis and Interpretation	3
N 583	Applied and Interactive Genetics	3**
N 632	Roles and Issues in Advanced Practice Management	3
N 670	Complex Pharmacology	1*
N 671	Clinical Research Proposal	3
N 710	Grant Writing	1
N 760	Complex Diagnostics in Primary Care	3*
N 780	Advanced Practice Synthesis	3*
N 799	Clinical Research Implementation	2*
	Total DNP Specialty Credits	30
	Total FNP or PMHNP Specialty Credits	26
	Total Core Credits	22
	Grand Total Credits	78

*The ratio of clinical to clock hours is 1 clinical hour = 4 clock hours.

**May be completed at anytime during program of study.

DNP Post Master's for NP and for PMHNP: 1,000 clock hours of clinical experiences are required. These hours may include hours earned in MSN and/or MSN post master's certificate study.

Division of Occupational Therapy

Deborah A. Marr, Director

333 West Cork Street, Fifth Floor; (540) 665-5540

Master of Science in Occupational Therapy

The mission of Shenandoah University's Division of Occupational Therapy is to prepare students for a future in the field of occupational therapy in three primary ways. We prepare students to passionately discover new knowledge which requires them to be self-reflective and lifelong learners. We prepare them to be critically thinking practitioners, serving clients who live in diverse local and global communities. We transform them into professionals who understand the importance of ethics, leadership and service.

Occupational Therapy Program

The Occupational Therapy Program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA. Graduates are eligible to apply for the NBCOT Certification Examination for Occupational Therapist Registered OTR®. Graduates must answer each of the following questions on the examination application:

- Have you ever been charged with or convicted of a felony?
- Have you ever had any professional license, registration or certification revoked, suspended or subject to probationary conditions by a regulatory authority or certification board?
- Have you ever been found by any court, administrative or disciplinary proceeding to have committed negligence, malpractice, recklessness or willful or intentional misconduct, which resulted in harm to another?

If the answer to any of these questions is "yes," the candidate must submit documentation to NBCOT's Regulatory Affairs Department, 12 South Summit Avenue, Suite 100, Gaithersburg, MD 20877-4150; (301) 990-7979, which will determine eligibility. Upon passing the examination, occupational therapists are able to use the trademark OTR.

Graduation from an accredited professional program, passing the NBCOT Certification Examination and freedom from felonies and other legal infractions are the qualifications for licensure or registration to practice in most states. Students must check with specific states for laws regarding the right to practice.

Admission Requirements

The Master of Science in Occupational Therapy offers both a full-time and part-time graduate program. Both are delivered in a hybrid format, meaning much of the content is delivered online. Students come to campus one day per week for the face-to-face portion of their courses and all fieldwork experiences are completed on non-campus days and during normal working hours. Additionally, students are expected to engage in hands-on experiences in their home communities as directed by faculty. The learning

model requires students to think critically and act professionally in independent, interpersonal and community-based problem-solving experiences.

Admission requirements include: a 3.0 grade point average, a minimum of 75 credit hours of undergraduate courses, completion of prerequisite courses with minimum grade of "C;" a writing sample; two references from two of these three people: a licensed occupational therapist OTR (not an assistant), a professor or an employer; and a minimum score of 480 on the quantitative section of the Graduate Record Examination. In addition, applicants must supply documented evidence of 24 hours of observation under qualified occupational therapists in practice. For additional information, check the Web site at www.su.edu/ot.

Criminal Background Checks

Prior to beginning health professional courses, a student is required to authorize and submit to a criminal background check, including sex offenses and crimes against minors and fingerprinting. Some students may also be expected to submit to random drug testing required by clinical practice sites. Non-compliance with the criminal background checks and/or drug testing policies may be cause for dismissal from the program. See Academic Policies section for details.

Degree Requirements

The Master of Science degree in Occupational Therapy (MSOT) requires a minimum of 75 credit hours of occupational therapy courses for graduation. Students must begin course work in the fall semester of the year they gained acceptance into the program. Full-time students must progress through the program within four years including fieldwork. Part-time students must progress through the program within five years including fieldwork. Progression is based on the following: satisfactory completion of all course prerequisites before beginning course work each semester; completion of all course work with grades of "C" or better; maintenance of a 3.0 cumulative grade-point average (GPA); satisfactory evaluation on Professional Development Plans in each semester of the curriculum; payment of all university tuition and fees; maintenance of health, clinical safety and security requirements, including CPR, physical examinations and criminal background checks.

Students who receive grades of "D" or "F" in a course are not permitted to take any new courses in the program and are placed on academic probation until all required work has been successfully completed. Courses may be repeated only once. Failure to successfully complete the designated requirements within two semesters results in termination from the program. Students who receive grades of "D" or "F" in more than two courses are dismissed from the program.

OT 628 and OT 638, Level One Fieldwork experiences, are completed on non-campus days and during normal working hours. OT 640 and OT 641, Level Two Fieldwork, is a full-time experience completed during normal working days and hours. Either OT 640 or OT 641, Level Two Fieldwork, may be repeated once. Students who fail Level Two Fieldwork more than one time are dismissed from the program. All admitted students are required to review the SUDOT Fieldwork Handbook regarding specific policies.

In addition to policies and procedures of the university as identified in this catalog and the Student Handbook, occupational therapy students are responsible for reading,

understanding, and implementing the policies and procedures found in the Division of Occupational Therapy Student Handbook.

Full-time Course Sequence

Semester One (Fall)

Course	Title	Credit Hours
OT 522	Foundations of Occupational Therapy	4
OT 523	Therapeutic Occupation	2
OT 524	Occupation and Movement	4
OT 525*	Fundamentals of Scholarly Inquiry	3
OT 526	Case Groups	1
OT 527	Community Application with Individuals	2
	Subtotal	16

Semester Two (Spring)

Course	Title	Credit Hours
OT 620*	Scholarly Inquiry: Design and Analysis	3
OT 532	Neuro-Occupation	5
OT 534	Analysis of Health and Occupation	2
OT 535	Management and Systems in Occupational Therapy Settings	3
OT 536	Case Groups	1
OT 537	Community Application in Systems	2
	Subtotal	16

Semester Three (Fall)

Course	Title	Credit Hours
OT 530*	Scholarly Inquiry: Program Development and Evaluation	2
OT 623	Occupational Therapy in Biomechanical and Neurological Practice	4
OT 624	Occupational Therapy in Mental Health Practice	3
OT 625	Occupational Performance and Participation: Children	4
OT 626	Case Groups	1
OT 628**	Level One Fieldwork	1
	Subtotal	15

Semester Four (Spring)

Course	Title	Credit Hours
OT 630*	Scholarly Inquiry: Application	3
OT 631	Specialization: Occupational Therapy with Children	3
OT 632	Specialization: Occupational Therapy with the Elderly	3
OT 633	Environmental Interventions	3
OT 634	Policy and Advocacy	3
OT 638**	Level One Fieldwork	1
	Subtotal	16

Semester Five (Summer)

Course	Title	Credit Hours
June Through November (continues right after Semester Four):		
OT 640	Level Two Fieldwork 3 months	6
OT 641	Level Two Fieldwork 3 months	6
	Subtotal	12

December: Students participate in two weeks of reflection and integration of learning before graduation in mid-December. A portion of that time will be on-campus.

Total

75

**Each scholarly inquiry course leads to the completion of a capstone project (formerly known as a thesis). A capstone project is a research proposal designed to test the effectiveness of an occupational therapy intervention. The SU faculty is committed to advancing the profession by teaching students to develop and test their therapeutic programs. It is believed that the important task of validating practice requires greater attention to program development, evaluation and testing.*

***All Level One Fieldwork experiences are completed on non-campus days and during normal working hours.*

For part-time program course sequence, contact the Division of Occupational Therapy.

Division of Physical Therapy

Karen Abraham, Director

333 West Cork Street, Suite 40, (540) 665-5520

Doctor of Physical Therapy (DPT)

Physical Therapy (PT) is a challenging and satisfying profession — one with many career pathways from which to choose. The wide range of clinical settings, the diversity of the patient populations, and the variety of specialty areas provide a vast array of employment and professional growth opportunities for the new graduate. Shenandoah University's entry-level Doctor of Physical Therapy professional degree program prepares students for the challenges of the profession and provides an excellent foundation for further graduate study.

The Physical Therapy Program at Shenandoah University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) and is fully accredited until December 2018.

Applicants to the Doctor of Physical Therapy program must have demonstrated success in academics and have a strong background in the sciences. Completion of the bachelor's degree is required. A demonstration of well-developed problem-solving skills, interpersonal skills and commitment to service is necessary. Those applying to the Doctor of Physical Therapy program should be prepared to work closely with other students in the program, make contributions to the learning process of others and contribute to the enrichment of the curriculum and the profession.

The Physical Therapy program is closely affiliated with Valley Health System. This relationship provides extensive clinical opportunities, equipment, space and human resources.

Admission Requirements

The Division of Physical Therapy offers three avenues for admission into the Doctor of Physical Therapy degree program: 1) traditional admissions, 2) articulation agreements, and 3) SU undergraduate Physical Therapy pre-admissions program. Regardless of the route of application, processing for the DPT program is through the Physical Therapy Central Application Service (PTCAS) at www.PTCAS.org. Although these applications are processed through PTCAS, they are held to the same standards as Shenandoah University's other graduate programs. All offers of admission into the DPT program are determined by the Division of Physical Therapy Admissions Committee.

Although these admission programs are distinct from one another, there are some common admission requirements. All applicants must:

1. Have a minimum cumulative grade point average (GPA) of a 2.8 on a 4.0 scale in all completed course work.
2. Take the Graduate Record Examination (GRE). For non-native speakers of English, a Test of English as a Foreign Language (TOEFL) must be completed.
3. Submit two letters of reference; one from a licensed practicing physical therapist and one from a college professor.

4. Demonstrate knowledge of the profession by completing a minimum of 100 documented hours (volunteer or paid) of exposure to physical therapy practice under the supervision of a licensed physical therapist.

The primary method for admission into the DPT program is through the traditional admissions program. In addition to the global requirements as listed above, consideration for admission through this process requires applicants to complete a bachelor's degree from an accredited institution prior to matriculation. The bachelor's degree must include the 34 credit hours of prerequisite course work and applicants must achieve a minimum cumulative GPA of 2.8 on a 4.0 scale for these courses.

A second means of admission into the DPT program is through articulation agreements established by the Division of Physical Therapy with other universities and colleges. Four to five seats in each incoming class are reserved for students from each participating institution. The participating institutions and copies of their agreements can be found at www.su.edu/pt. This program follows the same admission criteria as noted for the traditional admissions program except for the prerequisite course work GPA. This group of applicants must achieve a minimum cumulative GPA of 3.2 on a 4.0 scale for the 34 credit hours of prerequisite course work to qualify for one of the reserved seats

In addition to the articulation agreements, the Division of Physical Therapy has established a unique admissions process with the undergraduate Office of Admissions for Shenandoah University (SU Undergraduate Physical Therapy Pre-Admissions Program). The purpose of this program is to allow highly qualified high school students to be pre-admitted into the Doctorate of Physical Therapy program. These students are guaranteed acceptance into the DPT program provided they meet the criteria as outlined below. In order to be admitted to this program as a freshman at Shenandoah University (out of high school) the student must achieve the following:

1. High School Grade Point Average (GPA) of 3.5 or better.
2. Minimum SAT score of 1100.
3. Submission of an undergraduate application for admissions to the Shenandoah University Office of Admissions.

In order to remain in the program and matriculate into the DPT Program at the end of three years of undergraduate study at Shenandoah University, the student must:

1. Successfully complete a minimum of 90 hours of undergraduate course work with a grade of "C" or above which includes the 34 credit hours of required prerequisite courses. All prerequisite course work must be completed at Shenandoah University. Exceptions are made at the discretion of the PT Admissions Committee.
2. Maintain a minimum cumulative GPA of 3.4 on a 4.0 scale for the 34 credit hours of prerequisite course work.

Regardless of the admissions process, all science courses must be less than 10 years old at the time of application. Exceptions are made at the discretion of the PT Admissions Committee, if the applicant is able to provide documentation of functional use of the information. Detailed instructions for the admissions process are at www.su.edu/pt.

Requirements for the Doctor of Physical Therapy Degree

Year 1, Fall

Course	Title	Credit Hours
PT 603	Gross Human Anatomy I	4
PT 608	Examination and Intervention	3
PT 623	Histophysiological Aspects of Movement I	3
PT 643	Evidence-Based Practice: Introduction to Research Design	3
PT 653	Professional Issues I	3
PT 681	Medical Foundations I	1
PT 761	Clinical Conference I	1
	Subtotal	18

Year 1, Spring

Course	Title	Credit Hours
PT 604	Gross Human Anatomy II	4
PT 610	Musculoskeletal System I	3
PT 624	Histophysiological Aspects of Movement II	3
PT 656	Clinical Practicum I	1
PT 672	Functional Neuroanatomy	3
PT 684	Medical Foundations II	1
PT 685	Psychosocial Aspects of Physical Therapy	2
	Subtotal	17

Year 2, Fall

Course	Title	Credit Hours
PT 709	Musculoskeletal System II	3
PT 721	Pathology	3
PT 751	Clinical Practicum II	1
PT 762	Clinical Conference II	1
PT 771	Adult Neurotherapeutics	4
PT 781	Gait Analysis and Biomechanics	3
PT 790	Therapeutic Exercise	1
	Subtotal	16

Year 2, Spring

Course	Title	Credit Hours
PT 703	Pediatric Physical Therapy	4
PT 710	Musculoskeletal System III	4
PT 732	Professional Issues II	2
PT 744	Prosthetics and Orthotics	2
PT 752	Clinical Practicum III	1
PT 792	Physical Agents	3
PT 892	Medical Foundations III	2
	Subtotal	18

Year 2, Summer

Course	Title	Credit Hours
PT 753	Clinical Internship I	3
	Subtotal	3

Year 3, Fall

Course	Title	Credit Hours
PT 805	Gross Human Anatomy III	1
PT 821	Cardiovascular and Pulmonary Physical Therapy	3
PT 831	Professional Issues III	2
PT 861	Clinical Conference III	1
PT 881	Advanced Topics	1
PT 897	Comprehensive Examinations	1
PT 898	Evidence Based Practice: Advanced Critical Analysis of the Literature and Implementing Research	3
	Subtotal	12

Year 3, Spring

Course	Title	Credit Hours
PT 832	Establishing a Physical Therapy Practice/Direct Access	3
PT 854	Clinical Internship II	6
	Subtotal	9

Year 3, Summer

Course	Title	Credit Hours
PT 855	Clinical Internship III	6
	Subtotal	6
	Total	99

Transitional Doctorate of Physical Therapy Program

Shenandoah University is committed to meeting the needs of practicing clinicians who wish to be a part of the vision of the American Physical Therapy Association (APTA) to become a doctoring profession by obtaining the Doctorate of Physical Therapy degree (DPT). Shenandoah's distance education based Transitional DPT program (TDPT) bridges the gap between Bachelor of Science in Physical Therapy (BSPT) and Master of Physical Therapy (MPT) degree programs and entry-level DPT education. The Shenandoah University TDPT program offers an opportunity to complement current knowledge and skills with advanced content designed to prepare clinicians for autonomous practice in a direct access environment. Graduates of the TDPT program will be versed in the importance and implementation of evidence-based practice in physical therapy and will be instructed in the latest in physical therapy diagnostics across a variety of content areas.

Mission of the SU TDPT Program

Shenandoah University prepares individuals to be critical, reflective thinkers; lifelong learners; and ethical, compassionate citizens who are committed to making responsible contributions within a community, a nation and the world. Shenandoah distinguishes itself by providing opportunities to gain knowledge and develop skills in a collaborative, personalized environment that intertwines professional and liberal learning. A Shenandoah education incorporates scholarship, experiential learning and sophisticated technologies, as well as practical wisdom.

Therefore, it is the mission of the SU TDPT program to enhance the ability of the practicing physical therapist to think critically, to value evidence-based practice and to demonstrate compassionate and ethical clinical practice as a doctoring professional. The

program is designed to integrate sophisticated technologies by offering courses in a distance education format along with requiring one (for master's educated) or two (for bachelor's educated) on-campus residency weekend seminars. These on-site courses will be held on a Saturday and Sunday in early June. All travel, lodging and expenses associated with the on-site seminars are at the expense of the student.

Degree Requirements

The curriculum may be taken in one of three tracks. Track I (fast) and Track II (slow) are for individuals who have completed an MPT degree or for those BSPT-trained individuals who have completed an advanced master's degree in a health-related field. Track I and II students will transfer 14 graduate level credit hours from their previous degree; doctoral level graduation requires a total of 30 credits. Track III is for BSPT trained individuals who do not have an advanced health-related graduate degree. Track III students will transfer 10 graduate level credit hours from their previous degree; doctoral level graduation requires a total of 30 credits.

For all tracks, in order to be retained in the curriculum and receive the TDPT degree, all courses must be passed with a grade of "B" or higher and a minimum GPA of 3.0 must be maintained at the time of program completion. All course work must be successfully completed within three years of the start date of the program. Remediation of a grade of less than 80 percent may be considered at the discretion of the program's associate director. If a student earns a failing grade, the student will have one additional year to retake the course (at the current credit rate as set forth by the university at that time) during the next regularly scheduled course offering. In the event the student is not successful upon the second course attempt, the student will be dismissed from the TDPT Program. All students are eligible to reapply for admission to the program at the next enrollment period. No exceptions to this policy will be considered.

Admission Requirements for All Tracks

Application materials are reviewed as they are received. Applicants must meet and submit the following:

Completed Shenandoah University graduate school application including the \$30 application fee.

All official higher education transcripts.

Copy of current U.S. licensure as a physical therapist.

Completed Program Information Form indicating desired track to follow.

Foreign-educated students must submit above information as well as the following:

Verification of full-time employment for at least six months in the U.S. as a physical therapist.

In order to have received U.S. PT licensure, all transcripts from non-U.S. institutions must have been submitted for an academic credential evaluation to obtain equivalency information regarding courses, credits, grades and degrees earned. SU requires a copy of the full evaluation to be submitted.

Track I – One Year Plan

(Must have MPT or related health care master's degree completed for this track)

Fall Term

Course		Course Title	Credit
PT	835	Incorporating Evidence into your Daily Practice	2
PT	836	Medical Imaging in Rehabilitation	1
PT	838	Physical Therapy Practice in a Direct Access Setting	2
PT	839	Utilizing the <i>Guide to PT Practice</i> in Your Daily Practice	1

Spring Term

Course		Course Title	Credit
PT	842	Medical Screening/Differential Diagnosis	2
PT	847	Emerging Clinical Practice	3
PT	899	Pharmacology in Physical Medicine	2

Summer Term

Course		Course Title	Credit
PT	849	The Doctoring Profession	2
PT	885, 886 or 887	TDPT Elective	1
		Total	16

Track II – Two-Year Plan

(Must have MPT or related health care master's degree completed for this track)

Fall Term, Year One

Course		Course Title	Credit
PT	835	Incorporating Evidence into your Daily Practice	2
PT	839	Utilizing the <i>Guide to PT Practice</i> in Your Daily Practice	1

Spring Term, Year One

Course		Course Title	Credit
PT	842	Medical Screening/Differential Diagnosis	2
PT	899	Pharmacology in Physical Medicine	2

Fall Term, Year Two

Course		Course Title	Credit
PT	836	Medical Imaging in Rehabilitation	1
PT	838	Physical Therapy Practice in a Direct Access Setting	2

Spring Term, Year Two

Course		Course Title	Credit
PT	847	Emerging Clinical Practice	3

Summer Term, Year Two

Course		Course Title	Credit
PT	849	The Doctoring Profession	2
PT	885, 886 or 887	TDPT Elective	1
		Total	16

Track III – Bachelor's in PT to TDPT**Summer Term, Year One**

Course	Course Title	Credit
PT 860	Advanced Human Anatomy (on campus)	2

Fall Term, Year One

Course	Course Title	Credit
PT 835	Incorporating Evidence into your Daily Practice	2
PT 839	Utilizing the <i>Guide to PT Practice</i> in Your Daily Practice	1

Spring Term, Year One

Course	Course Title	Credit
PT 842	Medical Screening/Differential Diagnosis	2
PT 899	Pharmacology in Physical Medicine	2

Summer Term, Year Two

Course	Course Title	Credit
PT 885	Vestibular Rehabilitation	1
PT 887	Women's Health Issues in Physical Therapy	1

Fall Term, Year Two

Course	Course Title	Credit
PT 836	Medical Imaging in Rehabilitation	1
PT 838	Physical Therapy Practice in a Direct Access Setting	2
PT 886	Advanced Manual Therapy	1

Spring Term, Year Two

Course	Course Title	Credit
PT 847	Emerging Clinical Practice	3

Summer Term, Year Three

Course	Course Title	Credit
PT 849	The Doctoring Profession (on campus)	2
	Total	20

Division of Physician Assistant Studies

Anthony A. Miller, Professor & Director

Medical Office Building II, Suite 430, (540) 542-6208, pa@su.edu

Master of Science in Physician Assistant Studies

Physician Assistants (PAs) are health care professionals, prepared to practice medicine with physician supervision. Within the physician/PA relationship, physician assistants exercise autonomy in decision-making and provide a wide range of diagnostic and therapeutic services. Physician assistant practice is patient-care centered, but may include national and international opportunities to serve in clinical, educational, research and administrative roles. The role of the physician assistant includes provision of primary and specialty care in medical and surgical practices located in rural, urban and suburban areas.

The Shenandoah University Physician Assistant Program is a comprehensive graduate entry-level professional course of study enabling individuals who hold baccalaureate degrees to become physician assistants. The program is designed to prepare graduates for primary care practice with emphasis on service to medically underserved populations and the team approach to the delivery of health care. The program integrates graduate-level critical thinking and analysis, problem solving, scientific inquiry, self-directed learning and the effective use of modern technology for professional practice that includes elements of research, leadership, education and continued enhancement of the physician assistant profession.

The purpose of the Physician Assistant Program is to graduate competent professionals who are well prepared for the demands of modern professional practice in a rapidly changing health care environment. The curriculum goals are based upon the national "Competencies for the Physician Assistant" document and standards for educational programs contained in the "Accreditation Standards for Physician Assistant Education," the Program's Mission Statement and the needs of the PA profession. In the PA program curriculum, knowledge, skills and attitudes are considered to be critical elements of professional practice and are addressed in the curricular goals delineated below.

The graduate of the SU Physician Assistant program will demonstrate the following:

1. Entry-level proficiencies necessary for high-quality, cost-effective practice as a primary care physician assistant in a dynamic health care delivery system.
2. An understanding of the principles of scientific inquiry and research design as well as the ability to apply these principles to read critically and interpret the literature and enhance the delivery of health care.
3. An ability to incorporate the basic principles of education and teaching-learning into programs that benefit the patient, the patient's family and the community.
4. Attitudes and skills that exemplify a commitment to personal growth and development and to the growth and development of the profession.
5. Attitudes and skills that demonstrate sensitivity to cultural and individual differences.
6. An ability to assume a leadership role in professional activities and organizations that advance the physician assistant profession.

7. A health care team and community-oriented approach to the delivery of health care utilizing appropriate modern technology for the benefit of the patient, the patient's family and the community.

Mission

The mission of the Shenandoah University Division of Physician Assistant Studies is to provide a comprehensive educational program in a collaborative and supportive environment to develop highly skilled, well-educated, compassionate primary care-oriented physician assistants who are capable of providing high-quality, patient-centered health care in a variety of settings.

Core Values

We believe physician assistants should:

1. Practice competently, ethically and cost-effectively.
2. Serve where needed, both domestically and globally.
3. Demonstrate sensitivity to cultural and individual differences.
4. Commit to continued personal and professional growth through lifelong learning.
5. Contribute to the profession and humankind through leadership, teaching and active scholarship.
6. Promote wellness and personal responsibility for maintaining health.
7. Advocate for a team approach to health care delivery.
8. Promote and uphold the physician assistant profession and its ideals.
9. Enrich their patients and communities through service and a broad-based humanistic approach to the practice of their profession.

Entrance Requirements

The Physician Assistant Program Admissions Committee determines admission to the Physician Assistant Program. Entrance requirements include: a bachelor's degree, a 3.0 grade point average, submission of academic transcripts, submission of GRE scores, three references and completion of certain prerequisite courses, which are listed in detail on the program's Web site (www.su.edu/pa). Health care experience is not required but encouraged. Qualified candidates are invited for an interview with the Admissions Committee. Due to the competitive nature of admission to the program and the limited number of seats available in each class, just meeting minimal requirements is usually insufficient to qualify for an interview or admission to the program.

The Physician Assistant Program admits students for the fall semester only. Early application is encouraged and applications are reviewed as they are deemed complete. Visit www.su.edu/pa for the application deadline. Physician Assistant Program application materials are updated annually. Candidates are urged to ensure that they are using the current application materials for the year in which they are applying. Specific information regarding admission and other requirements, acceptance, transfer credits, technical standards, and credit for experiential learning can be obtained by contacting the

Shenandoah University Office of Admissions and requesting the Admission Guidelines Booklet or via the program's Web site. Please note: Shenandoah University's Physician Assistant Program participates in the Central Application Service for Physician Assistants (CASPA). All applications must be submitted through this service at www.caspaonline.org.

Degree Requirements

Physician Assistant program courses listed below may not be taken out of sequence. A passing grade of "C" or better in each course and maintenance of a 3.0 grade point average is required for satisfactory progression and graduation. Policies regarding academic standing and graduation are contained in the graduate catalog and the Physician Assistant Program Student Handbook available at www.su.edu/pa.

Requirements for the Master of Science in Physician Assistant Studies Degree

Year One

Course	Title	Credit Hours
Fall I		
PA 503	Anatomy for Physician Assistants I	3
PA 504	Medical Physiology and Genetics	3
PA 510	Physician Assistant and Health Care Dynamics	2
PA 512	Principles of Epidemiology, Research and Statistics	3
PA 514	Principles of Interviewing and Patient Interactions	2
	Subtotal	13
Spring I		
PA 505	Anatomy for Physician Assistants II	3
PA 516	History Taking and Patient Evaluation	4
PT 672	Functional Neuroanatomy	3
PA 522	Clinical Medicine I	5
	Subtotal	15
Summer I		
PA 540	Clinical Pharmacology	4
PA 518	Diagnostic and Therapeutic Skills	5
PA 524	Emergency Medicine and Surgery	3
	Subtotal	12

Year Two

Course	Title	Credits Hours
Fall II		
PA 640	Clinical Therapeutics	2
PA 642	Clinical Medicine II	3
PA 580	Obstetrics, Gynecology and Pediatrics	3
PA 582	Behavioral Medicine	2
PA 610	Humanities for the PA Profession	3
	Subtotal	13
Spring II		
PA 612	Health Promotion and Disease Prevention Strategies	2
PA 660	Scholarly Project I	1
PA *	Clinical Practicum I-III	9*
	Subtotal	12

Summer II

PA	*	Clinical Practicum IV-VI	9*
		Subtotal	9

Year Three

Course		Title	Credit Hours
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Fall III

PA	650	Community Preceptorship	6
PA	662	Scholarly Project II and Capstone	3
		Subtotal	9
		Total	83

*Six clinical practica are 2-6 weeks in duration each with different course number.

BERNARD J. DUNN SCHOOL OF PHARMACY

Alan McKay, Dean
Health Professions Building – Pharmacy
(540) 665-1282

Scott Stolte, Associate Dean, Academic Affairs
Health Professions Building – Pharmacy
(540) 678-4395

Doctor of Pharmacy

The purpose of the Doctor of Pharmacy (PharmD) Program is to prepare entry-level pharmacy practitioners to meet the health care needs of an increasingly diverse patient population, and to constantly strive to add to the knowledge base of the profession of pharmacy. This includes use of the newest instructional techniques, experiential learning and exposure to the latest information concerning pharmacy care as taught by a creative and innovative faculty.

In fulfilling its educational mission, the school provides the environment, opportunities and stimuli for faculty, students and practitioners of the profession to learn, maintain and expand upon the knowledge and skills necessary to meet the health care needs of the patients they serve. Through a combination of traditional instruction, the innovative use of computer technology and the latest concepts of distance education, the school seeks to provide the highest quality instruction to both traditional and nontraditional learners. The School of Pharmacy supports the concept that the mission of pharmacy is to serve society as the profession responsible for the appropriate use of medications, devices and services to achieve optimal therapeutic outcomes.

Entrance Requirements

Admission into the Doctor of Pharmacy Degree Program is determined by the School of Pharmacy Admissions Committee. Consideration for admission requires a minimum cumulative grade point average (GPA) of 2.8 on a 4.0 scale for the 65 semester hours of prerequisite course work and a minimum cumulative GPA of 2.8 on a 4.0 scale in all course work. All students are required to take the Pharmacy College Admission Test (PCAT). A minimum PCAT composite score of the 60th percentile is required. All application processing for the traditional PharmD program is through the PharmCAS Central Application Service at www.PharmCAS.org. Although these applications are processed differently, they are held to the same standards as Shenandoah University's other graduate programs. Instructions for the admissions process can be found at <http://pharmacy.su.edu>. After review of completed applications, qualified applicants will be invited for an interview.

Degree Requirements

Conferral of the Doctor of Pharmacy Degree requires the successful completion of 142 credit hours in the didactic and experiential curriculum (not including prerequisite courses) with a minimum cumulative 2.0 grade point average.

Accreditation

The professional pharmacy program is fully accredited by the Accreditation Council for Pharmacy Education (ACPE), 20 North Clark Street, Suite 2500, Chicago, IL 60602-5109. Graduates are eligible to sit for the North American Pharmacist Licensure Examination (NAPLEX) administered by the National Association of Boards of Pharmacy.

Requirements for the Doctor of Pharmacy Degree

First Professional Year, Fall

Course	Title	Credit Hours
PHAR 501	Introduction to Pharmacy Practice	3
PHAR 508	Pharmaceutics I (Calculations)	2
PHAR 516	Introductory Pharmacy Practice Experience I	1
PHAR 518	Patient Counseling and Communications	2
PHAR 523	Integrated Basic Health Sciences I (Biocompounds and Biochemistry)	2
PHAR 524	Integrated Basic Health Sciences II (Endo, Skin, Bone and Muscle)	2
PHAR 525	Integrated Basic Health Sciences III (Nervous System)	2
PHAR 526	Integrated Basic Health Sciences Lab I	1
PHAR 531	Psychosocial Aspects of Disease	2
PHAR 535	Service Learning I	1
	Subtotal	18

First Professional Year, Spring

Course	Title	Credit Hours
PHAR 512	Pharmaceutics II	4
PHAR 513	Pharmaceutics II Laboratory	1
PHAR 517	Introductory Pharmacy Practice Experience II	2
PHAR 527	Integrated Basic Health Sciences IV (Cardiovascular)	2
PHAR 528	Integrated Basic Health Sciences V (Immunology, Respiration and Digestion)	2
PHAR 529	Integrated Basic Health Sciences VI (Renal, Reproduction and Development)	2
PHAR 530	Integrated Basic Health Sciences Lab II	1
PHAR 534	Essentials of Pharmacogenomics	3
PHAR 536	Service Learning II	1
	Subtotal	18

Second Professional Year, Fall

Course	Title	Credit Hours
PHAR 600	Pharmacokinetic Principles	3
PHAR 603	Basic Principles of Pharmacology	3
PHAR 604	Nonprescription Products	2
PHAR 605	Outpatient Pharmacy Practice Lab	1
PHAR 617	Pharmacotherapy Outcomes	1
PHAR 627	Clinical Research Methods/Biostatistics	3
PHAR 628	Clinical Research Methods/Biostatistics Lab	1
	General Elective	3
	Subtotal	17

Second Professional Year, Spring

Course	Title	Credit Hours
PHAR 601	Drug Literature Evaluation	2
PHAR 602	Drug Literature Evaluation Laboratory	1
PHAR 607	Integrated Pharmaceutical Care and Science (Respiratory)	2
PHAR 608	Integrated Pharmaceutical Care and Science (Renal)	2
PHAR 619	Integrated Pharmaceutical Care and Science (Cardiovascular)	4
PHAR 632	Applied Pharmacokinetics and Pharmacogenomics I	1
PHAR 655	Introductory Pharmacy Practice Experience III	2
	Professional Elective(s)	3
	Subtotal	17

Third Professional Year, Fall

Course	Title	Credit Hours
PHAR 701	Integrated Pharmaceutical Care and Science (Endo/Repro)	2
PHAR 704	Professional Practice Management I	3
PHAR 709	Integrated Pharmaceutical Care and Science (Hem/Onc)	3
PHAR 718	Integrated Pharmaceutical Care and Science (Infectious Diseases)	3
PHAR 723	Patient Assessment I	2
PHAR 725	Introductory Pharmacy Practice Experience IV	1
PHAR 733	Applied Pharmacokinetics and Pharmacogenomics II	1
	Professional Elective(s)	3
	Subtotal	18

Third Professional Year, Spring

Course	Title	Credit Hours
PHAR 700	Integrated Pharmaceutical Care and Science (GI/Nutrition)	2
PHAR 708	Integrated Pharmaceutical Care and Science (Musculoskeletal)	2
PHAR 712	Professional Practice Management II	3
PHAR 713	Sterile Compounding Laboratory	1
PHAR 717	Pharmacy Law	3
PHAR 720	Integrated Pharmaceutical Care and Science (Neuro/Psychiatry)	3
PHAR 724	Patient Assessment II	2
PHAR 734	Applied Pharmacokinetics and Pharmacogenomics III	1
PHAR 735	Introductory Pharmacy Practice Experience V	1
	Subtotal	18

Fourth Professional Year

Course	Title	Credit Hours
PHAR 800	Ambulatory Care Clerkship	5
PHAR 801	Community Clinical Clerkship	5
PHAR 802	Medication Information Clerkship	5
PHAR 803	In-Patient Acute Care Clerkship	5
PHAR 804	Institutional Clerkship	5
PHAR 806	Selective Clerkship II	5
PHAR 807A	Selective Clerkship I:A	2

PHAR	807B	Selective Clerkship I: B	3
PHAR	825	Pharmacy Practicum	1
		Subtotal	36
		Total	142

Non-Entry Level Doctor of Pharmacy Program

The non-entry level Doctor of Pharmacy Program is designed to provide practicing, U.S.-licensed pharmacists who already hold a Bachelor of Science degree (in pharmacy) from an accredited School of Pharmacy the opportunity to upgrade their education so they may obtain the Doctor of Pharmacy (PharmD) degree.

Pharmacists entering this program must have, prior to application into this program, successfully passed the national licensure examination offered by the National Association of Boards of Pharmacy and must be current U.S.-licensed, registered and practicing pharmacists.

The courses required to complete this program are repurposed from the traditional program. The only courses required for the non-traditional program that differ are the experiential courses of PHAR 821, PHAR 822 and PHAR 823.

Entrance Requirements

Admission into the non-entry level Doctor of Pharmacy Program is determined by the School of Pharmacy Admissions Committee. Consideration for admission requires prior graduation from an accredited school of pharmacy, successful passing of the national licensing examination, and current practice as a U.S.-licensed and registered pharmacist. All applicants are required to submit official copies of all college transcripts and a notarized copy of their current pharmacy license to the Office of Admissions prior to the application deadline. Applicants are encouraged, but not required, to submit three applicant recommendation letters (one from a co-worker, one from a professor and one personal reference). After review of completed applications, qualified applicants will be invited for an interview.

GLOBAL & COMMUNITY EDUCATION

Purpose and Vision Statement

Global & Community Education (GCE) at Shenandoah University facilitates successful connections for learning between the university community and the world. GCE is recognized as a key resource for learners and educators to advance intercultural competency development and for local to global learning opportunities. Global & Community Education at Shenandoah University consists of three offices: the Office of International Student Services, the Office of Study Abroad and the Center for Lifelong Learning.

Office of International Student Services

Shenandoah University welcomes over 150 international students to its campuses each year from over 50 different countries. The Office of International Student Services provides an array of programs and services in support of international students including handling immigration requirements, advising on transition issues, supporting orientation and learning needs, facilitating social programming and supporting employment immigration requirements to advance learning.

Office of Study Abroad

Shenandoah University encourages all students to seek opportunities to become globally engaged citizens. In facilitating this effort, the Office of Study Abroad provides a range of programs and resources to assist students in meeting their international learning objectives. These include SU's notable programs such as the Global Citizenship Project (GCP) and the Global Experiential Learning (GEL) programs. Moreover, the Office of Study Abroad works collaboratively with academic advisors to assist students with study abroad learning options for a semester or academic year. Additionally, many other international learning programs are also supported with coordination and information services for students, faculty and staff while traveling abroad.

Center for Lifelong Learning

Shenandoah University responds to community interests in non-credit learning opportunities by providing classes through the Center for Lifelong Learning (CLL). These courses may be in the form of special subject offerings, options for community members to sit in regular academic classes at a reduced rate, professional courses as well as travel learning programs. Additionally, the CLL also handles special learning programs upon request by visiting delegations from abroad.

All offices for Global & Community Education along with the dean's office are located in the International & Cross-Cultural Center of Cooley Hall on Main Campus. Information and resources related to the three offices can be found on the University Blackboard site under the SU Community Tab by searching for the related organization for each.

COURSE DESCRIPTIONS

ACCOUNTING (ACCT)

ACCT 501 Financial and Managerial Accounting

The objective of the course is to develop a working knowledge of basic accounting concepts and principles. The primary focus is on financial accounting and reporting by the business entity to external users. Students learn to read and understand the four standard financial reports: the balance sheet, income statement, statement of cash flows and statement of retained earnings with emphasis on developing interpretative skills in future managers. Managerial accounting topics such as cost-volume-profit relationships and budgeting are considered for developing decision-making skills. This course is waived if the student has completed the equivalent of Principles of Accounting I and II. Three credits.

ACCT 511 Accounting for Decision Making and Control

A study of the utility of accounting data and other financial information available to management in the functions of planning, organizing and decision-making, with focus on techniques used in analyzing and interpreting of such data and information. Managerial accounting concepts and issues are considered primarily from the viewpoint of the user of such information. Prerequisite: ACCT 501. Three credits.

ACCT 513 Income Tax I

An analysis of tax laws as applied to individuals. Topics include individual tax determination, gross income, deductions, business expenses, employee expenses and depreciation. Prerequisite: ACCT 511. Three credits.

ACCT 515 Income Tax II

An analysis of income tax accounting problems relating to individuals and corporations. Topics include passive losses, tax credits, the AMT and property transactions including depreciation recapture. Prerequisite: ACCT 513. Three credits.

ACCT 517 Advanced Managerial Accounting

Advanced coverage of methods in providing information to management for planning, decision making and control. This course serves as the basis for understanding and using accounting information in the management process. Prerequisite: ACCT 511. Three credits.

ACCT 518 Auditing

A study of the purposes, ethical and legal environment, necessary steps in performing an accounting audit reviewing acceptable practices and the standard accounting techniques and procedures for an audit using working papers, statements and reports. Internal controls and external auditing activities are examined, with particular focus upon the professional responsibility of the auditor to his clients. Prerequisite: ACCT 511. Three credits.

ACCT 519 Advanced Accounting Theory

A critical study of financial measurement and reporting for business combinations, consolidated financial statements, business components, foreign currency translation and an introduction to fund accounting. Prerequisite: ACCT 511. Three credits.

ACCT 521 Governmental and Non-Profit Accounting

A study of the accounting principles, procedures and financial reporting used by governmental and non-profit entities as well as an analysis of the environment and characteristics of these entities. Prerequisite: ACCT 511. Three credits.

APPLIED MUSIC (AP** or AE**)

In these course descriptions, AP** = curricular study and AE** = elective study; ** stands for a two-letter code used for registration and **** stands for the name of the applied area, as follows:

Woodwinds

FL = Flute
 OB = Oboe
 CL = Clarinet
 BN = Bassoon
 SX = Saxophone
 RC = Recorder*

Voice

VO = Voice

Brass

HN = Horn
 TP = Trumpet
 TN = Trombone
 BT = Euphonium/Baritone
 TB = Tuba

Strings

VN = Violin
 VA = Viola
 VC = Cello
 DB = Double Bass
 HP = Harp
 GT = Guitar
 LT = Lute
 BJ = Banjo*

Specialized Applied Areas

ES = Elective Study
 PD = Performance Development
 RS = Recital Study
 SR = Score Reading
 TT = Teaching Techniques

Available as elective applied study only (AP 501, 502)*

Keyboard

PN = Piano
 HC = Harpsichord
 OG = Organ
 OI = Organ Improvisation*

Percussion

PR = Percussion

Jazz

JS = Jazz Saxophone
 JT = Jazz Trumpet
 JB = Jazz Trombone
 JG = Jazz Guitar
 JK = Jazz Piano
 JP = Jazz Percussion
 EB = Jazz Electric Bass
 JD = Jazz Double Bass

Other Applied Areas

AC = Accompanying
 CH = Coaching
 MC = Composition
 CN = Conducting
 D = Dance

APPLIED MAJOR STUDY

Individual lessons for students majoring in music to fulfill degree requirements as described in specific curriculum outlines. Detailed course descriptions are obtained from the instructor at the first lesson or found in the handbook of the division offering the instruction.

AP 502 Applied ******

First-year master's applied major study; one-hour lesson per week. Two credits.

AP 602 Applied ******

Second-year master's applied major study; one-hour lesson per week. Prerequisite: two semesters of study in this applied area. Two credits.

AP 702 Applied ******

Applied major instruction is offered at the doctoral level pending approval and availability of qualified graduate faculty in the desired field of study. One-hour lesson per week. Prerequisites: Permission of the instructor and associate dean for graduate studies. Two credits.

AP 802 Applied ******

Applied major instruction is offered at the doctoral level pending approval and availability of qualified graduate faculty in the desired field of study. One-hour lesson per week. Prerequisites: Permission of the instructor and associate dean for graduate studies. Two credits.

AP 704 Applied ******

First-year doctoral applied major study; one-hour lesson per week. Prerequisite: Successful audition in area of study. Four credits.

AP 804 Applied ******

Second-year doctoral applied major study; one-hour lesson per week. Prerequisite: Two semesters of study in the applied area. Four credits.

APPLIED MAJOR STUDY (APVO)

Individual lessons for students majoring in music to fulfill degree requirements as described in the Doctor of Musical Arts in Pedagogy (Voice) curriculum. Detailed course descriptions are obtained from the instructor at the first lesson or found in the handbook of the division offering the instruction. Open only to students in the Doctor of Musical Arts in Pedagogy (Voice) curriculum.

APVO 702 Applied Voice

Applied voice study; one-hour lesson per week. Prerequisite: Permission of principal advisor in the Doctor of Musical Arts in Pedagogy (Voice) curriculum. Two credits.

APVO 802 Applied Voice

Applied voice study; one-hour lesson per week. Prerequisite: Permission of principal advisor in the Doctor of Musical Arts in Pedagogy (Voice) curriculum. Two credits.

APPLIED MINOR STUDY (AP**)

Individual lessons for students majoring in music or students minoring in music to fulfill degree requirements as described in specific curriculum outlines. Detailed course descriptions are obtained from the instructor at the first lesson or found in the handbook of the division offering the instruction.

AP 501 Applied ******

Applied minor instruction is offered at the graduate level pending approval and availability of qualified graduate faculty in the desired field of study. One-half hour lesson per week. Prerequisite: Permission of the instructor and associate dean for graduate studies. One credit.

AP 601 Applied *****

Applied minor instruction is offered at the graduate level pending approval and availability of qualified graduate faculty in the desired field of study. One-half hour lesson per week. Prerequisite: Permission of the instructor and associate dean for graduate studies. One credit.

AP 701 Applied *****

Applied minor instruction is offered at the graduate level pending approval and availability of qualified graduate faculty in the desired field of study. One-half hour lesson per week. Prerequisite: Permission of the instructor and associate dean for graduate studies. One credit.

AP 801 Applied *****

Applied minor instruction is offered at the graduate level pending approval and availability of qualified graduate faculty in the desired field of study. One-half hour lesson per week. Prerequisite: Permission of the instructor and associate dean for graduate studies. One credit.

APPLIED ELECTIVE STUDY (AE)**

Individual lessons for students to fulfill duration requirements as described in specific curriculum outlines. Open to students for non-curricular study as instructor time and studio space allow. Detailed course descriptions are obtained from the instructor at the first lesson or found in the handbook of the division offering the instruction.

AE 501 Applied *****

Elective applied study; one-half-hour lesson per week. One credit.

AE 502 Applied *****

Elective applied study; one-hour lesson per week. Two credits.

APPLIED PERFORMANCE DEVELOPMENT (APPD)

Applied study in a specific instrument designed to expand knowledge of repertoire and performance practice in idioms as determined by the applied instructor. Applied performance development is normally limited to students enrolled in guitar and applied jazz majors.

APPD 501 Applied Performance Development

Applied performance study; one half-hour lesson per week. One credit.

APPLIED TEACHING REPERTOIRE (APRP)

Review of repertoire, ranging from early to advanced levels, appropriate for students of all ages. Instruction designed to provide knowledge and bibliographic information of repertoire for teaching in a studio where knowledge of all levels of difficulty is required. The course includes preparation of an annotated bibliography of specific materials, design of specific courses of study and compilations of recitals for students of varying ages.

APRP 501 Applied Teaching Repertoire

Applied repertoire study; one half-hour lesson per week. One credit.

APPLIED RECITAL STUDY (APRS)

Study designed to allow students to register for applied study if a recital is scheduled and curricular applied requirements have been met. Applied Recital Study carries an additional fee and may not be used to fulfill curricular requirements. Corequisite: Registration for applied recital.

APRS 501 Applied Recital Study

Applied recital study; one half-hour lesson per week. One credit.

APPLIED SCORE READING (APSR)

Development of skills related to reading open scores at the keyboard, including score reduction as appropriate. Choral and instrumental open scores are included along with study of transposition as related to instrumental scores.

APSR 501 Applied Score Reading

Applied performance study; one half-hour lesson per week. One credit.

APPLIED TEACHING TECHNIQUES (APTT)

Study of the pedagogical approaches related to a specific instrument, voice or area of applied study. Review of the sequential development of technique related to the performance medium. Instruction includes review of etude and technical materials or physical exercises related to individual pedagogical approaches appropriate to specific stages, ages, or grade levels. Observation of students at various levels of technical development, and observed introductory teaching experiences are included. The course includes preparation of an annotated bibliography of specific materials and an in-depth outline of specific courses of study with appropriate approaches and related etudes, solos, and supplementary material for each stage of development.

APTT 501 Applied Teaching Techniques

Applied teaching technique study; one half-hour lesson per week. One credit.

APPLIED STRING QUARTET (APSQ)

Ensemble coaching of an existing string quartet, auditioned and admitted as a group, with members of the Audubon String Quartet. Intensive study of professional string quartet rehearsal and performance techniques and covering a wide range of repertoire from Haydn to the 21st century. All instruction is in a group setting. Individual applied study, when desired, requires a separate and additional registration.

APSQ 504 Applied String Quartet

One clock hour per week of string quartet coaching per member of the group to a maximum of four. Prerequisite: Admission to the Post-Baccalaureate Artist Diploma program. Four credits.

APSQ 604 Applied String Quartet

Continuation of SPSQ 504. Four credits.

APSQ 704 Applied String Quartet

One clock hour per week of string quartet coaching per member of the group to a maximum of four. Prerequisite: Admission to the Post-Master's Artist Diploma program. Four credits.

APSQ 804 Applied String Quartet

Continuation of SPSQ 704. Four credits.

APPLIED INSTRUMENTAL CHAMBER ENSEMBLE (APCE)

Ensemble coaching of an existing instrumental chamber ensemble, auditioned and admitted as a group. Intensive study of professional chamber ensemble rehearsal and performance techniques and covering a wide range of repertoire. All instruction is in a group setting. Individual applied study, when desired, requires a separate and additional registration.

APCE 504 Applied Instrumental Chamber Ensemble

One clock hour per week of coaching per member of the group to a maximum of four. Prerequisite: Admission to the Post-Baccalaureate Artist Diploma program. Four credits.

APCE 604 Applied Instrumental Chamber Ensemble

Continuation of APCE 504. Four credits.

APCE 704 Applied Instrumental Chamber Ensemble

One clock hour per week of coaching per member of the group to a maximum of four. Prerequisite: Admission to the Post-Master's Artist Diploma program. Four credits.

APCE 804 Applied Instrumental Chamber Ensemble

Continuation of APCE 704. Four credits.

ARTS ADMINISTRATION (AMGT)**AMGT 511 Managing Arts, Entertainment and Media Enterprises**

Course is designed to give students an overview of the cultural and entertainment industries from a management perspective. Specific topics covered include arts management career paths, history, environments, organizations, strategic planning, organizational design, functions, economics and law. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

AMGT 512 Marketing for the Arts

Course is designed to provide students with the tools necessary to understand market potential and design systems to most effectively develop exchange relationships between those in the cultural and entertainment industries and the public. Specific topics covered include arts markets (audiences, segments, target markets, research and competition/collaboration), strategy development (positioning product, pricing, distribution systems and audience/customer loyalty), message delivery (communications, advertising/sales, direct/database marketing and public relations), marketing management (plans, budgets, controls and effectiveness evaluation). Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

AMGT 513 Production/Project Management in the Arts I

Course is designed to provide students with the tools necessary to act as producers or project managers to effectively manage arts productions and/or projects. Specific topics covered include project/production initiation (selection, leadership, organization, planning and conflict/negotiation), implementation (budgeting/cost estimation, scheduling, resource allocation, monitoring/information systems and controls), and termination (auditing, termination and evaluation). Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

AMGT 514 Production/Project Management in the Arts 2

Course is designed to build upon the concepts introduced in Production/Project Management in the Arts I. Students explore methods of multi-production/project management as well as integrating goals with the organization strategic plan. Students also examine how specialized topics related to the arts are handled within a systems approach to production/project management. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: AMGT 513 or permission of the instructor. Three credits.

AMGT 515 Arts Management Policy and Practice

Course is designed to provide students with the skills necessary to advance their professional development in the field of arts management. Specific topics covered include problem based research in applied cultural and entertainment settings, as well as primary and secondary research techniques as they are related to specific career goals of the student. This writing intensive course assists the student in the development of proposal writing skills. Further, the student develops materials to advance their professional study in an applied setting. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

AMGT 516 Financial Management for the Creative Enterprise

Course is designed to provide a foundation of the financial aspects of working within the arts and in directing the activities of creative organizations. The content of this course includes bookkeeping and accounting fundamentals (including special considerations for non-profit organizations), budgeting basics, revenue sheets, fund-raising management, grant writing and personal financial management. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

AMGT 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites vary with topic. Prerequisite: Permission of the instructor. One, two or three credits.

AMGT 599 Individual Directed Research

An individual instruction setting for individual projects in arts management. May be used to fulfill art management electives only. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

AMGT 698 Internship in Arts Administration

Practical managerial experiences in an arts setting. Prerequisite: Permission of the instructor. Three credits.

ATHLETIC TRAINING (AT)**AT 501 Risk Management and Emergency Care for Athletes**

This course contains areas concerning the knowledge, skills and values that an entry-level certified athletic trainer must possess to recognize, assess and treat the acute injuries and illnesses of athletes and other involved in physical activity and to provide appropriate medical referral. Also covered is the historical foundation of athletic training leading up to the current definitions of the fields of sports medicine and athletic training. The global roles and responsibilities of the athletic trainer are discussed. Following this, the course emphasizes the role and responsibilities of the athletic trainer regarding risk management and injury prevention. Legal concerns and insurance issues are discussed. Risk factors are identified for participants in athletic activities regarding environmental conditions, conditioning issues and protective equipment. Three credits.

AT 504 Psychological Intervention/Referral in Athletic Training

This course is a collection of the knowledge, skills and values that the entry-level certified athletic trainer must possess to recognize, intervene and refer to the appropriate health care provider when appropriate, the sociocultural, mental, emotional and physical behaviors of athletes and others involved in physical activity. Three credits.

AT 511 Advanced Athletic Training Techniques

This course covers the principles and concepts related to prophylactic taping, wrapping, bracing and protective pad fabrication. The student will develop an understanding of the basic concepts of material composition (tensile strength, maximum tolerances, and heat dissipation) of protective splints. The student will demonstrate an understanding of the uses of static and dynamic splints and the basic concepts of orthotic fabrication. In the laboratory setting, the student will learn how to apply the various taping, wrapping and bracing techniques for the trunk and extremities. The student will also learn how to fabricate protective splints for specific athletic injuries as well as fit an athlete with protective equipment designed for a specific sport (football, hockey, lacrosse gear). Two credits.

AT 514 Pharmacology in Athletic Training

This course covers the knowledge, skills and values that the entry-level certified athletic trainer must possess in pharmacological applications, including awareness of the indications, contraindications, precautions and interactions of medications and of the governing regulations relevant to the treatment of injuries to and illnesses of athletes and others involved in physical activity. Two credits.

AT 521 Functional Human Anatomy I

This course covers the functional musculoskeletal anatomy of the lower extremity up to the midthoracic spine. The course covers osteology, joint osteokinematics and arthrokinematics and muscle function including origin and insertion and innervation. Students will understand muscle function of the lower extremity in open and closed chain. During laboratory experiences students will have access to a cadaver laboratory for observation of human dissections. Clinical laboratories will include surface palpation of bony landmarks, muscles and ligaments of the spine and lower extremities on a laboratory partner and measurement of joint range of motion. Two credits.

AT 523 Therapeutic Exercise I

This course covers the principles of therapeutic exercise prescription for the injured athlete or physically active person. Types of exercises covered include passive range of motion exercises, active range of motion exercises, active-assisted range of motion exercises, joint mobilization during exercise, stretching exercises, resisted exercises, endurance exercises and balance and proprioceptive training. The means of selecting and creating safe and effective exercise programs for athletes who present with injuries to the lumbar spine and lower extremities will be covered. One credit.

AT 531 Pathology/Evaluation of Athletic Injury I

This course covers the pathologies and injuries of the lower extremity and thoraco-lumbar spine and pelvic girdle that an athletic trainer is most likely to encounter on the field or in a clinical setting. Normal cellular function is reviewed followed by instruction on the cellular response to injury leading to healing and tissue repair. Pathologies and injuries will be presented from the foot up to the midthoracic spine. Epidemiology, etiology, signs and symptoms, medical management, athletic training management and prognosis will be discussed. Three credits.

AT 552 Therapeutic Modalities

This course covers the principles for the use of superficial and deep thermal agents including moist heat packs, ultrasound, whirlpool, paraffin, cold packs, ice massage and cold compression units. Biophysical effects of temperature, elevation, depression and compression are discussed. The principles of the electrical modalities for use in decreasing pain, decreasing inflammation, facilitating muscle contraction and use for biofeedback training are covered. The uses of traction, compression and basic Western massage are covered. Prerequisite: Formal admittance into the Athletic Training Program. Three credits.

AT 561 Organization and Administration of Athletic Training I

This course covers the organization and administration of record keeping during the practice of athletic training including the pre-participation examination, daily progress notes, medical intake forms, pain questionnaires, outcome assessment forms, letters to physicians and other health care providers, and collection of injury data. One credit.

AT 562 Imaging in Athletic Training

This course covers common imaging techniques used to diagnose athletic injuries resulting from musculoskeletal, neurological and visceral trauma. The student will learn the science and diagnostic capabilities of radiographic imaging, CT Scanning, Magnetic Resonance Imaging, Diagnostic Ultrasound and Bone Scanning. Prerequisites: AT 501, AT 521 and AT 531. One credit.

AT 571 Sports Nutrition

This course covers the role nutrition plays in enhancing one's health, fitness and sports performance. Principles of human energy systems for performance, nutrients in food, body composition and weight control, utilization of vitamins and minerals, and water; electrolyte and temperature regulation are introduced. Eating disorders and effects of poor nutrition are presented. Three credits.

AT 581 Clinical Field Experience I

This course is the first clinical internship for a student in the Master of Science in Athletic Training major. The internship will be in a "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer session. Prerequisites: AT 501, AT 511, AT 521, AT 531 and AT 552. Four credits.

AT 582 Clinical Field Experience II

This course is the second clinical internship for a student in the Master of Science in Athletic Training major. The internship will be in an "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer and fall sessions. Prerequisite: AT 581. Four credits.

AT 591 Clinical Field Experience I for dual major MSAT/DPT

This course is the first clinical internship for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in a "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer session. Prerequisites: AT 501, AT 511, AT 521, AT 531 and AT 552. Two credits.

AT 592 Clinical Field Experience II for dual major MSAT/DPT

This course is the second clinical internship for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in a "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer session. Prerequisite: AT 591. Two credits.

AT 593 Clinical Field Experience III for dual major MSAT/DPT

This course is the third clinical internship for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in a "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer and fall sessions. Prerequisites: AT 591 and AT 592. Two credits.

AT 594 Clinical Field Experience IV for dual major MSAT/DPT

This course is the fourth clinical internship for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in a "athletic training room setting" which includes either a college or high school sports team assignment. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed during the first summer and fall sessions. Prerequisite: AT 593. Two credits.

AT 621 Functional Anatomy II

This course covers the functional musculoskeletal anatomy of the cervical spine, head, face and upper extremities. The course covers osteology, joint osteokinematics and arthrokinematics and muscle function including origin and insertion and innervation. Students will understand function of the facial, neck and upper extremity muscles. During laboratory experiences students will have access to a cadaver laboratory for observation of human dissections. Clinical laboratories will include surface palpation of bony landmarks, muscles and ligaments of the head, neck and upper extremities on a laboratory partner. Two credits.

AT 624 Therapeutic Exercise II

This course covers the principles of therapeutic exercise prescription for the injured athlete or physically active person. Types of exercises covered include passive range of motion exercises, active range of motion exercises, joint mobilization during exercise, stretching exercises, resisted exercises, endurance exercises and balance and proprioceptive training. The means of selecting and creating safe and effective exercise programs for athletes who present with injuries to the cervical spine and upper extremities will be covered. Analysis of throwing mechanics and walking and running mechanics will be covered. Prerequisites: AT 523 and AT 531. Two credits.

AT 631 Pathology/Evaluation of Athletic Injury II

This course covers the pathologies and injuries of the upper extremity, cervical spine, head and face that an athletic trainer is most likely to encounter on the field or in a clinical setting. Pathologies and injuries will be presented from the head, face and cervical spine to upper extremity. Epidemiology, etiology, signs and symptoms, medical management, athletic training management and prognosis will be discussed. Three credits.

AT 633 Clinical Medicine

This course covers the understanding, recognition, treatment and referral process for general medical conditions and disabilities that an entry-level certified athletic trainer may encounter in athletes and other physically active persons. Conditions are presented for the integumentary, cardiovascular, respiratory, endocrine, digestive, urinary, musculoskeletal, reproductive, nervous and lymphatic/immunity systems. Medical tests are also discussed such as blood work and radiological studies. Three credits.

AT 643 Advanced Rehabilitation of Athletic Injury

This course is an in-depth study of the rehabilitation of athletic injuries to the spine and upper and lower extremities. Principles including managing soft tissue issues from the acute stage through the chronic stage of healing are followed. Surgical procedures for the spine and extremities and their respective rehabilitation protocols are discussed. Laboratory sessions involve learning advanced hands-on and exercise approaches for spinal conditions such as McKenzie approach and "Core Exercises" for spinal stabilization. Advanced upper extremity exercises include means of restoring normal scapular humeral rhythm and return to throwing activities. Three credits.

AT 653 Ethics/Professionalism in Athletic Training

This course is a collection of the knowledge, skills and values that the entry-level, certified athletic trainer must possess to understand professional responsibilities, avenues of professional development, and national and state regulatory agencies and standards in order to promote athletic training as a professional discipline. It also covers the role of the certified athletic trainer in educating athletes, students of athletic training, the general public, the physically active and associated individuals of the scope of this discipline. Two credits.

AT 663 Clinical Research I

This course is intended to be an introduction to research design. The student will be provided with an overview of research designs commonly used in clinical studies. Statistical procedures relevant to the topics presented will be briefly reviewed. Critical reading of current journal articles in the health sciences will be emphasized. Special attention will be given to single-subject design to prepare the student for the required program research project. Three credits.

AT 664 Clinical Research II

This course is designed to provide the student with the opportunity to write a proposal and then collect data for a single-subject experimental design study. The student will develop a research question for a clinical study that will be conducted on a patient-athlete the student is following in the Clinical Field Experience IV internship. After data collection is completed, the student will attend a weekend seminar on campus to perform data analysis. Three credits.

AT 670 Health Care Administration

This course is a collection of knowledge, skills and values that the entry-level, certified athletic trainer must possess to develop, administer and manage a health care facility and associated venues that provide health care to athletes and others involved in physical activity. Two credits.

AT 681 Clinical Field Experience III

This course is the third clinical internship for a student in the Master of Science in Athletic Training major. The internship will be in an "athletic training room setting" which includes either a college or high school sports team assignment or a "non-athletic training room setting" including professional sports teams, sports medicine clinics or work-hardening centers. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance with what was instructed from the first summer through the fall of the second year. Prerequisites: AT 581 and AT 582. Four credits.

AT 682 Clinical Field Experience IV

This course is the fourth clinical internship for a student in the Master of Science in Athletic Training major. The internship will be in an "athletic training room setting" which includes either a college or high school sports team assignment or a "non-athletic training room setting" including professional sports teams, sports medicine clinics or work hardening centers. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance with what was instructed from the first summer through the fall of the second year. Prerequisites: AT 581, AT 582 and AT 681. Four credits.

AT 691 Clinical Field Experience V for dual major MSAT/DPT

This course is the fifth athletic training field experience and second full-time physical therapy clinical affiliation for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in an "athletic training room setting" which includes a college, high school or professional sports team assignment. The student will work under the direct supervision of the assigned certified athletic trainer/licensed physical therapist on the premises and will perform clinical skills in accordance with what was instructed in the DPT/MSAT programs from the first term up to this current term. Prerequisites: AT 581, AT 582, AT 594 and PT 753. Six credits.

AT 692 Clinical Field Experience VI for dual major MSAT/DPT

This course is the sixth and final clinical internship for a student in the Master of Science in Athletic Training/Doctorate of Physical Therapy dual major. The internship will be in an "athletic training room setting" which includes either a college or high school sports team assignment or a "non-athletic training room setting" including professional sports teams, sports medicine clinics or work hardening centers. The student will work under the direct supervision of the certified athletic trainer on the premises and will perform clinical skills in accordance to what was instructed from the first summer through the fall in the second year. Prerequisite: AT 691. Four credits.

AT 711 Theories and Practice of Conditioning Athletes

This course covers the theories and practice of providing strength and conditioning programs for athletes, body builders and active or sedentary persons who want to initiate a fitness program. The course prepares the student to take the National Strength and Conditioning Association's (NSCA) examination to receive the Certified Strength and Conditioning Specialist certification (CSCS). Prerequisites: AT 624 and current CPR certification. Three credits.

AT 745 Industrial Rehabilitation/Ergonomics

The Role Delineation Study 4th Edition, published by the National Athletic Trainers' Association Board of Certification, Inc., indicates that certified athletic trainers are working in industrial rehabilitation settings. This course is an introduction to industrial rehabilitation and ergonomics including understanding work hardening and work conditioning criteria, Baseline functional Evaluation (BFE), and Functional Capacity Evaluations (FCE). Prerequisites: AT 581, AT 582, AT 681 and AT 682. Two credits.

AT 763 Research Seminar

The focus of this course is completion of a previously proposed original research project using descriptive or experimental design under the guidance of a faculty advisor. Emphasis is on preparation of a publishable manuscript and preparation of audiovisual materials for presentation at a professional meeting. The completed manuscript must be reviewed and signed off for approval by a faculty committee. A 20-minute PowerPoint presentation is presented to the class and the faculty committee. One credit.

AT 774 Senior Seminar

This purpose of this course is to provide laboratory interaction between the students and the program's Approved Clinical Instructors (ACIs) to observe and check off advanced clinical proficiencies demonstrated by the student for the examiner. The proficiencies will be embedded into written and simulated patient cases. This course is the final demonstration of the student's ability to perform the required clinical proficiencies at the mastery level. Prerequisites: completion of summer 1, summer 2, AT 581, AT 582, AT 681 and AT 682. One credit.

BANKING AND FINANCE (BAFI)**BAFI 511 Commercial Bank Management**

A detailed study of the operations and management of a commercial bank together with an analysis of the loan and investment functions. Emphasis is placed on case studies having to do with operations, loan origination, investments and liabilities. Topics include asset/liability management, capital and liquidity management, portfolio risk management and the regulatory environment. Prerequisite: Second-year standing. Three credits.

BAFI 513 Investment and Portfolio Management

Course reviews the valuation of stocks, bonds, futures, options, real estate and other real and financial assets; risk, return and liquidity and diversification in modern portfolio theory; the efficient markets hypothesis; direct versus indirect investing through mutual funds, banks, insurance companies and pensions; the securities industry; institutional considerations facing trust managers and others. Prerequisite: Second-year standing. Three credits.

BAFI 515 International Financial Management

An analysis of problems involving international business finance including a description of international payments systems and financial institutions, application of analytical techniques and procedures for financing international investments and business activities. Students will explore the environmental challenges facing the financial manager of an international corporation and the tools and techniques available to meet these challenges. Extensive use of the case method. Prerequisite: Second-year standing. Three credits.

BAFI 517 Financial Management

Analysis of issues surrounding business financial management, working capital policy, capital budgeting, financing with debt and equity, dividend policy valuation, project finance and mergers and acquisitions. Extensive use of the case method. Prerequisite: Second-year standing. Three credits.

BAFI 519 Management of Financial Institutions

Financial institutions serve as intermediaries between suppliers of capital and users of capital. Over the past several decades, globalization of capital markets and deregulation of financial institutions have combined both to increase competition among intermediaries that were formally viewed not to be in the same industry and to accentuate risks that these institutions had not previously faced. This course describes the special nature of financial institutions, identifies the risks they face and offers techniques for managing risk-return tradeoffs. Prerequisite: Second-year standing. Three credits.

BUSINESS ADMINISTRATION (BUS)**BUS 501 Introduction to Management and Marketing**

Provides the student with a comprehensive introduction to management principles, activities and functions common to all managers. The student is also exposed to the kinds of demands and constraints faced by different managers and their choices in dealing with them through planning, organizing, leading and controlling. The course then builds on this knowledge base by applying it to the marketing task of a business enterprise. This course is waived if the student has completed the equivalent of Principles of Management and Principles of Marketing. Three credits.

BUS 509 Business Applications

This course applies the principles introduced in the MBA foundation courses to cases, including cases involving financial management, human resource management, information management, supply chain management, business ethics, the global economy, business strategy and leadership. Prerequisites: ACCT 501, BUS 501, ECN 501 and MIS 511. Three credits.

BUS 511 International Business

The role of the multinational corporation in international trade and affairs is studied with attention to the influence its operations have upon the economies and environments of the nations in which it operates. Stress is placed upon the challenge of planning, organizing, leading and controlling the far-flung operations of the multinational corporation and the concomitant development and utilization of an international management decision-making strategy. Prerequisite: ECN 511 or permission of the dean. Three credits.

BUS 515 Business Law

A study of law as it applies to ordinary business situations with a focus upon the Uniform Commercial Code dealing with obligations, contracts, agency and negotiable instruments, stressing the legal ramifications of business operations having to do with aspects such as creditor's rights, product guarantees and their limitations, and the legal relationship created under various forms of business organizations. Prerequisite: Second-year standing or permission of instructor. Three credits.

BUS 517 Travel Seminar in International Business

This summer seminar is intended to provide an opportunity for students to experience firsthand business operations in varying international settings. This seminar includes preparatory classes and lectures, meetings with senior managers of enterprises in the countries visited, and concluding with classes and lectures and a major term paper. Prerequisite: Second-year standing or permission of instructor. Three credits.

BUS 599 Independent Research

Utilized for courses in business administration which are not offered elsewhere and for individuals desiring to pursue a given issue, topic or concentration further than obtainable in regularly scheduled courses. May be repeated once. Prerequisites: Second-year standing and permission of the director of the MBA program. Three credits.

BUS 601 Business Internship

A link between the classroom and work experience, this course provides qualified students a three-way arrangement among the professor/advisor, the employer/supervisor and the student/employee. Students may obtain appropriate employment on their own or in conjunction with the internship advisor of the school of business. A minimum of two full 40-hour work periods is required for each credit hour for which the course is taken. Performance reports are required from employers at the conclusion of the work experience. Obtaining these reports is the responsibility of the student. Blank forms are provided to the employer by the internship advisor. The internship is highly recommended for international students who will benefit significantly from exposure to U.S. business practices. Prerequisites: Open only to full-time students with second-year standing in the MBA program and with permission of the director of the MBA program. Three credits.

CHURCH MUSIC (MUCH)**MUCH 504 Organ Repertoire for the Church I**

A historical survey of organ literature designed to provide the church organist with a working knowledge of available and suitable organ music for use in the worship service. Organ music of the Renaissance up through the music of J.S. Bach is covered. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCH 505 Organ Repertoire for the Church 2

A historical survey of organ literature designed to provide the church organist with a working knowledge of available and suitable organ music for use in worship services. Organ music of the Romantic and Contemporary eras is covered. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCH 506 Service Playing and Console Conducting

Techniques for playing services of various denominations. Study of beginning improvisational techniques for organists. Fundamental techniques of conducting from the console. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCH 511 Hymnology I

A survey of the rise and development of hymnology up to and including the Wesleys. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCH 512 Hymnology 2

A survey of the development of hymnology in the 19th and 20th centuries. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCH 531 Church Music I

An inclusive week of "hands on" study in the field of church music with special emphasis on children's choir methods and materials, basic conducting and the role of music in the church. Individual research resulting in a term paper, or the equivalent, is required. Replaces MUCH 521, Children's Choir Methods and Materials; MUCH 507, Conducting for Church Musicians I; and MUCH 513, Music and Worship I. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 532 Church Music 2

An inclusive week of "hands on" study in the field of church music in which students plan, prepare and participate in a wide variety of church services. The adult choir (methods and materials, conducting the adult volunteer choir), plus the role of music in the church, is the central focus of the week. Individual research resulting in a term paper, or the equivalent, is required. (Replaces MUCH 522, Adult Choir Methods and Materials; MUCH 501, Church Music Seminar I; and MUCH 508, Conducting for Church Musicians 2.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 533 Church Music 3

An inclusive week of "hands on" study in the field of church music in which the participants plan, prepare and participate in a wide variety of church services. Special emphasis of this week is the role of the organ in worship, organ repertoire, hymn playing and organ accompaniment. Individual research resulting in a term paper, or the equivalent, is required. (Replaces MUCH 504, Organ Repertoire for the Church I; MUCH 509, Choral Conducting for Church Musicians, and MUCH 514, Music and Worship 2.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 534 Church Music 4

An inclusive week of "hands on" study in the field of church music in which the participants plan, prepare and participate in a wide variety of church services. Emphasis is placed on service playing, organ repertoire and console conducting. Individual research resulting in a term paper, or the equivalent, is required. (Replaces MUCH 502, Church Music Seminar 2; MUCH 505, Organ Repertoire for the Church 2; and MUCH 506, Service Playing and Console Conducting.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 535 Church Music 5

An inclusive week of "hands on" study in the field of church music in which the participants plan, prepare and participate in a wide variety of church services. Emphasis is placed on the study of hymns, their utilization in worship and their history and theological interpretation. Individual research resulting in a term paper, or the equivalent, is required. (Replaces MUCH 511, Hymnology I; MUCH 515, Music and Worship 3; and MUCH 516, Instruments and Worship.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 536 Church Music 6

An inclusive week of "hands on" study in the field of church music in which the participants plan, prepare and participate in a wide variety of church services. Hymns as theological statements and advanced choral conducting are the special emphases. Individual research resulting in a term paper, or the equivalent, is required. (Replaces MUCH 503, Church Music Seminar 3; MUCH 510, Advanced Choral Conducting for Church Musicians; and MUCH 512, Hymnology 2.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MUCH 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites: Vary with topic but must have permission of instructor. One, two or three credits.

MUCH 599 Individual Directed Research

A private instruction setting for individual projects in Church Music. May be used to fulfill electives only. Project must be approved by the dean of the Conservatory and the chairman of the Conservatory Academics Division prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

CONDUCTING (MUCO)

MUCO 563 Advanced Choral Conducting

Study and interpretation of the standard choral repertoire. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUCO 564 Advanced Instrumental Conducting

Baton technique and critical examination of large form works; rehearsal and interpretive problems. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUCO 567 Choral Conducting for Church Musicians I

Advanced baton technique, rehearsal techniques and examination of repertoire in the church setting. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUCO 568 Choral Conducting for Church Musicians 2

Continuation of MUCO 567. Advanced baton technique, rehearsal techniques and examination of repertoire in the church setting. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUCO 567 or permission of the instructor. One credit.

MUCO 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites: Vary with topic but must have permission of the instructor. One, two or three credits.

MUCO 599 Individual Directed Research

A private instruction setting for individual setting for individual projects in conducting. May be used to fulfill electives only. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

CONSERVATORY RESEARCH (CONR)

CONR 601 Bibliography and Research

Methods and sources for research in music, theatre and dance. The purpose of this course is to develop a foundation for continued professional growth through the study of research. Students interpret, report and conduct research in assigned topics and in individual areas of interest. Prerequisite: Permission of the instructor. Formerly MUED 601. Three credits.

CONR 691 Demonstration Project

Individual design and implementation of pre-service education, in-service training, or continuing education for targeted groups on the practical application of a music therapy method or combination of methods. Outcomes include a formal presentation totaling five clock hours, audio-video recording of the presentation, handout materials in support of learning, and a narrative outline of the actual content sufficient for replication. Processes include proposal approval, external agency support, HSRB approval, needs assessment, implementation, evaluation, oral defense and final report. Continuous enrollment for at least one credit required in fall and spring semesters after initial registration. May be repeated for credit, but a maximum of four credits fulfill degree requirements. Prerequisites: CONR 601 or permission of the instructor. One, two or three credits.

CONR 692 Clinical Project

Individual design and application of innovative approaches to music therapy practice for a particular population group. Specific methods, strategies, techniques and/or materials are designed, implemented and evaluated in comparison to current practice. Outcomes sufficient for replication include an in-depth narrative description of each stage of the project and may include accompanying audio/visual recordings and supplemental materials. Processes include proposal approval, external agency support, HSRB approval, oral defense and final report. Continuous enrollment for at least one credit required in the fall and spring semesters after initial registration. May be repeated for credit, but a maximum of four credits fulfill degree requirements. Prerequisites: CONR 601 or permission of the instructor. One, two or three credits.

CONR 693 Lecture Recital Document

Preparation and presentation of a document supporting a recital of related music. Continuous enrollment for at least one credit required in fall and spring semesters after initial registration. May be repeated for credit but a maximum of two credits fulfill degree requirements. Prerequisite: Successful completion of all comprehensive examinations, CONR 601 or permission of the instructor. Formerly listed as part of MUPP 698. One, two or three credits.

CONR 694 Culminating Project

A private instruction setting for the preparation of a culminating project or creative work. Open to graduate students in composition only. Continuous enrollment for at least one credit required in fall and spring semesters after initial registration. May be repeated for credit but a maximum of four credits fulfill degree requirements. Prerequisite: CONR 601 or permission of the instructor. Formerly listed as MUTC 698. One, two or three credits.

CONR 696 Arts Administration Research

Course is designed to develop the problem-based, applied research skills of the student. In this course, the student develops the knowledge skills necessary to effectively write a research proposal suitable for execution with an existing arts organization. Additionally, the student develops the knowledge and skills necessary to effectively conduct research and write a research report as it is related to an approved proposal for problem-based research within an applied arts management organization. Continuous enrollment for at least one credit required in fall and spring semesters after initial registration. May be repeated for credit but a maximum of four credits fulfill degree requirements. Prerequisite: CONR 601 or permission of the instructor. Formerly listed as AMGT 699. One, two or three credits.

CONR 698 Research/Teaching Project

Individual research with practical application is conducted under the direction of members of the music education faculty. A written proposal, formal lesson plans and a formal research paper that outlines theoretical foundation, similar research studies and the outcomes, teaching presentation and oral defense is required. Continuous registration is required in the fall and spring semesters after initial registration. May be repeated for credit, but a maximum of four credits fulfill degree requirements. Prerequisite: CONR 601 or permission of the instructor. Formerly listed as MUED 698. One, two or three credits.

CONR 699 Thesis

Individual research under the direction of members of the graduate faculty includes a written proposal, research document that outlines literature review, current research and outcomes. An oral defense is required. Continuous registration is required in fall and spring semesters after initial registration. The course may be repeated for credit, but a maximum of four credits fulfill degree requirements. Prerequisite: CONR 601 or permission of the instructor. Formerly listed as MUED 699 or MUTH 699. One, two or three credits.

CONR 701 Advanced Research and Writing

Course is designed to further develop research and scholarly writing skills as a means of communicating information. Students interpret, report and conduct research. Prerequisite: CONR 601 or permission of the instructor. Formerly listed as MUED 701. Three credits.

CONR 799 Independent Research

A scholarly, written research document, or equivalent project, designed in conjunction with the professor offering this instruction. Topic or project proposal must be approved by the associate dean for graduate studies and the chair of the division in which the project will take place. Prerequisite: Permission of the instructor. One, two or three credits.

CONR 899 Dissertation

The culminating research document of the Doctor of Musical Arts program is designed to allow the demonstration of advanced scholarly research and writing skills. The study, formulation and application of education issues and theory is detailed in a formal written document. Beyond the research document, students are asked to demonstrate their ideas in a practical teaching setting. An oral defense is required. Continuous registration is required in the fall and spring semesters after initial registration. This course may be repeated for credit, but a maximum of nine credits fulfill degree requirements. Prerequisites: CONR 701 or permission of the instructor. Formerly listed as MUED 899. One, two or three credits.

DANCE: LIFETIME FITNESS (DAPE)

DAPE 593 Social Dance Styles

A course in the fundamentals of contemporary dance styles such as ballroom, folk dance, contra dance and country line dancing. Through these processes, students develop an understanding of the technical and artistic foundations necessary for performance, choreography and teaching. One credit.

ECONOMICS (ECN)

ECN 501 Economic Concepts and Policies

An introduction to economic principles starting with a survey of market structures and consumer theory, and leading to the study of macroeconomic models. The course is designed to review economic relationships, problems and institutions in preparation for a systematic study of the organization (the business firm and social enterprise) within its economic environment. This course is waived if the student has completed the equivalent of Principles of Macro and Microeconomics. Three credits.

ECN 511 Macroeconomics for Management

This course is designed to develop skills in 1) understanding the structure and operations of the macroeconomic system; 2) forecasting the impacts of governmental policies and other influences on the economy; and 3) understanding the influence of the economy on individual firms. The business executive has a special interest in business fluctuations: the level of economic activity affects the volume of business and the ability to operate profitably. This course provides the background which is needed by business executives to understand the factors which contribute to economic growth and stability, and to the level of national income. Since management decisions are made within the macroeconomic environment, the interrelationship of managerial and macroeconomic concepts is stressed. Prerequisite: MIS 511. Three credits.

ECN 513 Managerial Economics

An investigation and analysis of the theoretical and analytical tools of economics, with emphasis upon their application to business decision-making. Case studies of managerial situations are examined with reference to consumer behavior; market structure, price determination, income, employment, economic growth and economic forecasting. Prerequisite: MIS 511. Three credits.

ECN 515 International Economic Theory and Practice

This course deals with international trade theory, international trade policy, exchange rates, open-market macroeconomics, international macroeconomics policy and the unique features of developing countries. Prerequisite: Second year standing. Three credits.

ECN 517 Business in the Global Economy I

A study of the economic and institutional environment of the emerging global economy; a two-semester course. This, the first part of the course, covers the equilibrium and dynamic forces of the modern economy, to include economic growth and instability, forecasting and policy-making. Prerequisites: MBA foundational courses. Three credits.

ECN 519 Business in the Global Economy II

A study of the economic and institutional environment of the emerging global economy; a two-semester course. This, the second part of the course, covers the geographic, cultural, technological and institutional factors involved in the modern economy, to include the nature of the firm and its relationships with its owners, partners, creditors, employees, suppliers, customers and communities. Prerequisite: ECN 517. Three credits.

EDUCATION (EDU)

EDU 503 Topics in Education

Selected topics related to teaching, English, reading, mathematics, computer, the sciences, history or topical education issues. Three credits.

EDU 510 Foundations of Education

This course is intended as an introductory course for candidates wishing to seek licensure in VA at the elementary, middle or secondary level. In a seminar/lecture/discussion format, candidates explore the historical, social and philosophical foundations of current educational practices. Candidates pursuing licensure through graduate level courses and without provisional licensure, must also complete a field experience. This course is one of the courses required for licensure in the state of Virginia. Three credits.

EDU 525 Language Arts Methods

An overview of curriculum and instruction in elementary school reading programs, techniques and materials used in reading instruction and individual differences in the needs of pupils. A study of theory and practice in the whole language movement or integrated reading and writing instruction will be the focus. Current trends and research discussed. Individual projects and plans showing implementation of course materials are expected. Six credits.

EDU 560 Field Placement

This course provides the required field experiences for students enrolled in the elementary/middle or secondary teacher licensure program and helps meet the Virginia Department of Education requirement for field experiences in a variety of settings, at different grade levels in the area of licensure sought. The course consists of six modules for elementary/middle school candidates and five modules for secondary licensure candidates. The course is required for all candidates who enroll in the Professional Studies Certificate Program with Initial Teacher Licensure. Three credits.

EDU 584 Classroom Management/School Climate

A comprehensive review of classroom management theories, designs, and strategies that produce positive learning environments, coupled with the study of ways to engineer effective school climates. Individual research resulting in a term paper or the equivalent is required. This course is one of the required courses for teacher licensure in Virginia. Three credits.

EDU 585 Educational Technology Applications

The course is for prospective or practicing educators and enables educators to assure they meet the Technology Standards for Instructional Personnel for the State of Virginia. The course reviews elementary topics of desktop publishing, graphics, spreadsheets, database, graphics integrated with word processing, HTML language, Internet Web page construction and ethics involved in the use of computers. The emphasis is on the practical use of technology in the classroom and in schools, including, but not limited to, the following examples: design of simple classroom newsletters, templates for lesson plans, development of simple Web pages by students and the use of educator record keeping software. One, two or three credits.

EDU 599 Independent Study

A private instruction setting for individual projects in pedagogy, research or discipline area study. Projects must be approved by the dean of the College of Arts & Sciences and the student's advisor prior to registration. Prerequisite: permission of the instructor. One, two or three credits.

EDU 613 Management and Mentorship I

This course, the first in a sequence of two, is designed for provisionally licensed teachers to take during their Professional Studies Program, with this course in the first semester and the sequel course in the second semester. This course sequence has two components: a seminar conducted by the university faculty supervisor several times during the semester; and nine supervisory visits (1 – set up, 6 – observations, 2 – evaluations) to the provisional teacher's classroom by the university supervisor/seminar leader. Course content for the seminar covers teaching methods, appropriate assessments, classroom management and teaching skills for initial success and continual improvement. Current issues will also be included as relevant. Supervisory classroom visits reinforce seminar lessons; seminar discussions focus on classroom applications and analyses of feedback and assessments. Individual lesson feedback will be given in timely manner via conferences and written materials. Three credits for each semester course, for a total of six credits for successful completion of both courses.

EDU 614 Management and Mentorship II

This course, the second in a sequence of two, is designed for provisionally licensed teachers to take during their Professional Studies Program, with EDU 613 in the first semester and this sequel course in the second semester. This course sequence has two components: a seminar conducted by the university faculty supervisor several times during the semester; and nine supervisory visits (1 – set up, 6 – observations, 2 – evaluations) to the provisional teacher's classroom by the university supervisor/seminar leader. Course content for the seminar covers teaching methods, appropriate assessments, classroom management and teaching skills for initial success and continual improvement.

EDU 633 Integrated Language Arts

A study of theory and practice in the whole language movement for integrated reading and writing instruction. Current trends and research discussed. Individual projects and plans showing implementation of course materials are expected. Three credits.

EDU 635 Reading and Writing in the Content Area

A study of the teaching strategies necessary for developing basic skills in reading and writing in the content areas. Focus on improving student achievement in content disciplines by the incorporation of various approaches in the teaching of reading is discussed and writing principles and practices employed to increase student achievement in the content area. Three credits.

EDU 642 Philosophy of Education

A critical study of the American educational philosophy as it compares to those of specific foreign countries. Although emphasis is given to theory, history and current trends in education, attention is also directed to the individual educator's rationale for designing curricula within a philosophy and developing ways of working with students. Three credits.

EDU 643 Curriculum and Instruction in Elementary/Middle Education

A review of the historical, philosophical and social foundations, practices and trends in American elementary school curricula and instruction. Candidates examine curricular design, implementation and evaluation of elementary education in Virginia, with focus on the Standards of Learning. Candidates focus on a variety of instructional delivery methods for students with varying developmental levels as well as second language learners, and Limited English Proficiency within elementary and middle schools, and practice planning, implementing and evaluating instruction using several selected models. Field Experience required for candidates without provisional license. Three credits.

EDU 645 Curriculum and Instruction in Middle/Secondary Education

A review of the historical, philosophical and social foundations practices and trends in American elementary school curricula and instruction. Candidates examine curricular design, implementation and evaluation of elementary education in Virginia, with focus on the Standards of Learning. Candidates focus on a variety of instructional delivery methods for students with varying developmental levels as well as second language learners, and Limited English Proficiency within middle and secondary schools, and practice planning, implementing and evaluating instruction using several selected models. Field Experience required for candidates without provisional license. Three credits.

EDU 646 International Education

The course is designed to contrast and compare educational programs in other countries with education in the United States. Special attention is given to administrative leadership, curriculum, faculty and student composition, legal structure and facilities. Three credits.

EDU 650 Major Issues in Education

Issues related to the current needs evident in elementary and secondary programs. This course may be taken no more than twice (under different course titles for different issues). Three credits.

EDU 651 Methods of Instruction

Research and recent developments in curriculum, instruction, methods and materials in elementary, middle or secondary schools. Emphasis is on practical application and integration of developments. Course offered at one or more levels: elementary, middle or secondary. Three credits.

EDU 654 Methods in Teaching Creative Arts

Strategies and tactics of fostering children's creative expression with emphasis on instruction in art, music and dance. Two credits.

EDU 655 Methods in Teaching Mathematics, Science and Social Studies in the Elementary School

This course is designed to familiarize perspective teachers with various instructional methods suitable for teaching science, social studies and mathematics in the elementary school. Four credits.

EDU 656 Methods in Teaching Mathematics, Science and Social Studies in the Middle School

This course is designed to familiarize perspective teachers with various instructional methods suitable for teaching science, social studies and mathematics in the middle school. Four credits.

EDU 661 Internship in Elementary/Middle/Secondary Education in Endorsement Field

Full-time practice teaching experience with observations and direct teaching activities at the PreK-12 level in the area of licensure sought. Assignments to specific schools made by Shenandoah University faculty in cooperation with the administrators of the school systems. Prerequisites: permission of the Director of Teacher Licensure. Six credits.

EDU 795 Independent Study

A private instruction setting for individual applied projects (not research) in administration, curriculum and supervision, leadership studies or related areas for EdD/students, offering opportunities to explore their particular areas of interest. Projects must be approved by the dean of the College of Arts & Sciences and the student's advisor prior to registration. Prerequisite: Permission of the instructor. Three credits.

EDUCATIONAL ADMINISTRATION (ADM)**ADM 621 Introduction to Administration**

This course is an analysis of the role of the building-level administrator with participation in self assessment activities and simulations designed to provide information about and insight into effective leadership in schools. This three credit hour course introduces the student to the Interstate School Leaders Licensure Consortium Standards for School Leaders (ISLLC Standards) and relate those standards to today's school, political and cultural environments. Three credits.

ADM 622 Schools and Communities

An examination of the role of the principal with regard to the development and practice of effective school and community relations. Emphasis is on taking a systematic approach to communicating with targeted audiences and on developing personal communication and public relations skills. It includes an examination of successful practices in the interpretation of public attitudes, identification and shaping of public policies, organizing involvement activities and dissemination of information. Particular attention given to working with the news media and elected/appointed public officials. Three credits.

ADM 623 School Law

Legal context within which the public schools operate. Rights and responsibilities of teachers and administrators and student rights and restrictions. General principles of school law are supplemented with pertinent provisions of the Virginia statutes and rulings in case law. Three credits.

ADM 624 School Finance Theory and Practice

Basic school finance theory and practice. Historical development, current trends, future expectations, involvement of various governmental agencies and major problems and constraints of local, state and federal financial support. Special attention is given to building-level financial planning and budget formulation. Three credits.

ADM 625 Seminar in School Leadership

Current topics and issues are addressed and evaluated as they relate to school settings. Trends in school leadership and implications for current practices are assessed. Three credits.

ADM 626 Practicum in Educational Leadership

This course provides clinical field experience in the student's major area of administrative specialization under the supervision of a practicing school administrator and a university professor. The practicum requires a minimum of 50 clock hours of planned administrative activity for each credit hour earned with a total of six credit hours required in the program. The initial three credits of this course are usually registered for and the grade awarded the first year of the administration program. The remaining three credits are recommended to be earned as one credit in each of three trimesters of the second year of the program. Prerequisite: Completion of 15 credits in the Education Administration Concentration. One, two or three credits. Can be repeated for up to six credit hours.

ADM 627 Internship in Educational Leadership

This course is designed for the student who already holds an administrative position. It provides a clinical field experience in the student's major area of administrative specialization under the supervision of a practicing school administrator and a university professor. The internship requires a minimum of 40 work days of planned administrative activity for each credit hour earned with a total of six credit hours required in the program. Prerequisite: Completion of 15 credits in the Education Administration Concentration. One, two or three credits. Can be repeated for up to six credit hours.

ADM 640 Curriculum Development and Evaluation

The study of American school curricular foundations and trends leads to the design and evaluation of proposed and current curricula. Discussion topics include basic determinants, valid objectives, experiential design, organizational processes, evaluation procedures and systems for changes or improvements. Three credits.

ADM 641 Supervision and Evaluation of Instruction

This course presents the study of supervision as an effective leadership mechanism to improve instruction. Topics include collaborative problem-solving, supervisory processes, cooperative supervision and methods for improving instruments and techniques of evaluation. The course deals with the challenge of assisting and assessing educational personnel in the conduct of providing effective classroom management and instruction. Students develop an action research proposal as a requirement of this course. Three credits.

ADM 730 Human Resources

This course investigates the origins, evolution and utilization of the merit concept in public employment systems. The benefits, limitations, opportunities and contradiction of the merit system will be explored, with the intention of developing an understanding of and the ability to apply useful elements of this system in specific organizational settings. Working independently, students also investigate merit applications in a current public personnel system. Three credits.

HEALTH PROFESSIONS (HP)

HP 550 International Interdisciplinary Health Care

This course provides students with the opportunity to discuss knowledge, skills, values and meanings associated with international health care and professional team building. The focus is on health care problems, health care delivery systems, and multidisciplinary teams in a selected country. Students will identify health care problems and discuss approaches to meeting health needs for various populations in that country and around the world. Students will become familiar with how governments are developing policy and providing health care within political, economic, social and cultural contexts. The role of the health care team in promoting health and providing health care in the international community will be explored. This is an experiential course utilizing discussion, inquiry and exploration of international health care and delivery systems. Students will be expected to examine a targeted country and global health care problems. Prerequisites: Admission into a health profession program and permission of instructor. Three credits.

HP 551 Bioethics for the Health Care Professionals

This course introduces the student to the history, theory, principles, and decision-making frameworks found in the field of bioethics. The course addresses current ethical issues that challenge healthcare professionals and allows the student to use learned ethical theory and principles in analyzing discipline-specific situations. It is a seminar limited to 20 students who will participate in open dialogue. Pre/corequisite: PHIL 130 or permission of professor. Three credits.

HP 576 Substance and Relationship Abuse

This course is designed as an interdisciplinary offering to assist health care profession students in recognition and beginning level interventions in populations at risk for substance dependence and/or abusive relationships. Emphasis is placed on providing interventions that are congruent with age, health status, culture, occupation and legal-ethical concerns. Three credits.

HP 581 Women's Health

This course is designed to explore women's health issues and the role of nursing in women's health care delivery. Women's development, including special problems and health concerns of women at each stage of the life cycle; images and roles of women, including women as caretakers; and alternatives to patriarchal systems of women's health care will be explored. Prerequisite: Permission of the instructor. Three credits.

HP 583 Applied and Interactive Genetics

This multidisciplinary three credit course is designed to assist the student in developing broader knowledge, skills, values and meanings associated with basic genetics, applied genetics and selected genetic disorders. Three credits.

HP 617 Spirituality in Patient Care

This course is intended to give the student an overview of spirituality as it relates to healthcare and provide applications in the patient care arena. Students will explore the ever expanding body of knowledge linking spirituality and patient care outcomes. Emphasis will be placed on the knowledge, skills, values, meanings and of the spiritual experiences of patient, family and the healthcare team. Prerequisite: Permission of instructor(s). This interdisciplinary course is offered to undergraduate (HP 317) and graduate students (HP 617) in the School of Health Professions and School of Pharmacy, with graduate students having added assignments for successful completion of the course. Three credits.

HP 632 Health Care Outcomes: Measurement and Management

The purpose of this course is to assist students in advancing knowledge, skills, values and meanings associated with health care outcomes. Prerequisite: Admission to the MSN program or permission of the faculty. Three credits.

HP 633 Caring: Theory, Science and Application

The purpose of this course is to assist students in advancing knowledge, skills, values and meanings associated with the theory, science and the practice of caring. Prerequisite: Admission to the MSN program or permission of the faculty. Three credits.

HP 634 Sexuality and Health: The Human Perspective

This course is designed to provide the health professional with a basis for understanding the sociocultural, biological, and behavioral aspects of human sexuality across the life span, with an emphasis on assessment, risk reduction counseling and prevention education. Prerequisite: Admission to the MSN program or permission of the faculty. Three credits.

HP 645 Contraception Pharmacology and Counseling

This course is designed to provide health professional students with a basis for understanding the physiology and pathophysiology of reproduction and the mechanisms and pharmacologies of contraceptives. The students will learn the many considerations important for effective contraceptive counseling; these areas include cultural aspects, lifestyle choices, mechanism of action, side effects, efficacy, protection from STDs, risks, cost and non-contraceptive benefits. Prerequisite: Admission to the Pharmacy or Graduate Nursing programs or permission of the faculty. Three credits.

LEADERSHIP STUDIES (LST)**LST 591 Introduction to American Higher Education**

This course introduces the historical, social and philosophical foundations of American higher education and the evolution of the social expectations of higher education from the 17th century to the late 20th century. Particular attention is given to key developments such as graduate study, post-World War II expansion, innovation and the universalizing of expectations. Three credits.

LST 621 Strategic Planning and Evaluation

The course focuses on the development, implementation and evaluation of a strategic plan and how organizational effectiveness is related to the strategic planning process. Three credits.

LST 623 Policy and Ethics in Public Sector and Nonprofit Organizations

This course explores the policy context in which public sector and/or nonprofit institutions operate and the ethical dimensions of that context. Students examine the roles of federal, state and local governmental and nongovernmental stakeholders in formulating and implementing policy. The course provides an historical overview of the American governance system and targeted focus on contemporary issues influencing the policy process. Students explore ethical issues associated with policymaking and implementation. Three credits.

LST 624 Financial Planning and Management in Public Sector and Nonprofit Organizational Settings

This course is designed to provide professionals and non-financial managers in public sector and/or nonprofit organizations the ability to use accounting and financial data in planning and organizational decision-making. The course covers how managers use financial theory to solve practical problems and as a way of learning how to respond to change by showing not just how but why companies and management act as they do, why financial health is important and ways financial health is measured, how to prepare operational and capital budgets and how to apply financial strategies to improve operational performance and decision making. Three credits.

LST 625 Foundations of Organizational Leadership

Current topics and issues are addressed and evaluated as they relate to organizational leadership theory and practice. Trends in leadership and implications for current practices are assessed. This course presents the learner with a solid overview of organizational leadership using actual case studies and scenarios from the public sector and nonprofit organizations as a guide for developing an understanding of the knowledge and skills of effective leadership in those settings. Three credits.

LST 695 Topics in Leadership Studies

Study of specific topics, issues or themes within the field of organizational leadership. Prerequisite: Permission of the instructor. Three credits.

LST 697 Organizational Environments in Higher Education

A review of the forms, functions and processes of institutions of higher education. Emphasis on understanding these organizations at the task, organizational and general environmental levels. Focus on working within colleges (two- and four-year) and universities in the U.S. Three credits.

LST 710 Leadership

This course focuses on developing an understanding of the foundational underpinnings and theories of leadership as well as the contemporary and practical applications of leadership. The course guides students to work from a perspective of seeking to create proactive change in their organizational settings and views this process in relationship to applied research projects. Additionally, current topics in leadership examined to further students' understanding of the leadership concept including its place in a pluralistic community and society. Finally, students are expected to complete a leadership project utilizing an established leadership model and to analyze their experience within the context of the chosen model along with other current theories of leadership. Prerequisite: Admission to the Doctor of Education degree program. Three credits.

LST 720 Societal Factors

This course examines the array of interdependent environmental and social forces that shape and are shaped by social institutions. Students develop an understanding of how varying interests shape these environmental and social forces, thereby reshaping a given organization or institution. Students examine various methods of identifying emerging trends that may impact organizational systems. Students will develop skills necessary to serve as change agents for organizational environments. Three credits.

LST 735 Organizational Theory and Behavior

This is an introduction to the structures and processes of organizations, with an emphasis on organizational theory and behavior. This course examines behavior (individual and collective) in organizations. Included among the topics are the examination of concepts such as motivation, group dynamics, culture, perception, communication, and change. Learners will develop an appreciation for, and an understanding of, the importance of the dynamic nature of individual and collective action as they impact organizational effectiveness. Three credits.

LST 740 Governance and Public Policy

This course examines the politics, legitimization and practices of the American governance and public policymaking processes, with particular attention to public sector institutions. Public sector organizations are by definition institutions of public trust, and require internal governance systems appropriate to their respective roles, as well as to the effective internal management of fiscal, human and material resources. The course examines the relationships among federal, state and local governments, NGOs and public sector institutions, and how these relationships shape governance and policy at many levels. Three credits.

LST 750 Contemporary Issues in Leadership

This course is a study of problems and issues that relate to the present and future of leadership in education. They are identified in a manner that addresses problems or issues that relate to the professional roles of the course participants, and to the state and national developments in education. Long- and short-range problem-solving strategies are directed toward increasing the student's ability to adapt to or assimilate change in education. Three credits.

MANAGEMENT (MGT)**MGT 511 Systems Management and Organizational Theory**

An intensive study of the development of management and organization theory, the functions of management, and the systems approach to management. Emphasis is placed upon modern tools and techniques of decision-making science and computer-based information systems. Case studies supplement and amplify theoretical considerations. Prerequisite: BUS 501. Three credits.

MGT 513 Organizational Structure and Behavior

This course focuses on the structuring of organizations to align with strategic choices and understanding human behavior within the context of organizations and group dynamics. Prerequisites: MBA foundational courses. Three credits.

MGT 515 Human Resources Management

Basic information on human resources issues in public and private enterprises involves topics such as employment, placement, evaluation and separation practices. Particular attention is directed to the role of human resources management in dealing with problems of morale, handling of grievances, wages, salary and fringe benefits; consideration of personal health and safety, administration of employee training and management development programs; and the role of public relations in the business firm. Concern with collective bargaining as a means of overcoming employer/employee conflict, and the history, place, purpose and structure of the union as an institution are investigated. Emphasis is given to current union activities and changing negotiation strategies. Prerequisite: MGT 513. Three credits.

MGT 517 Leadership and Cultural Change

This course is designed to develop and put into practice fundamental leadership skills in the context of an organization's overall corporate philosophy and value system. Emphasis is placed upon how the leadership process is derived from and supports the overall organizational culture. It shows how the practice of leadership in turn influences and modifies this culture. Prerequisites: MGT 513 and permission of the dean and instructor. Three credits.

MGT 519 International Human Resources Management

Investigates the challenges and problems human resources managers face in the global environment. Topics emphasized in this course include cultural and international human resources management, human resources strategy in the global context, personnel selection for international operations, cross-cultural training for overseas assignments, management development in the global context, and labor relations issues in international human resources management. Prerequisite: MGT 513. Three credits.

MGT 525 Current Issues in Health Care Management

Through the media of readings, lectures and presentations, students will be exposed to many of the challenges facing the health care delivery system in relation to its environment. These areas will include organization for delivery of health services, financing, political and social issues. Ethical considerations in delivery of health care will be addressed. The student will become a more knowledgeable user of health care services. Three credits.

MGT 527 Health Care Management

An exploration and analysis of problems, using the case method, affects health care delivery and disease-prevention systems in the United States. This higher-level, problem-solving based course explores the complex interrelationships among community, society, government, patients/clients and professional groups. Students are prepared as decision makers to act in this dynamic, challenging and stressful environment. Prerequisite: MGT 525 or permission of instructor. Three credits.

MGT 529 Strategic Management of Technology

Course reviews the history of R&D; planning, staffing, organizing, directing and controlling R&D/innovation/new product development; evaluating value structure and creativity; technology forecasting; and relating R&D to organizational goals. This course provides the executive with an understanding of management problems associated with the technical aspects of systems development in a high-technology environment. Emphasis is placed on the impact of state-of-the-art technology in systems development through study of management problems in the life cycle of complex technical systems. Today's system manager must be able to evaluate technical innovations and their potential impact on products, processes and organizational operations. Smooth technology transitions are essential in the life cycle of innovations. Prerequisite: Second year standing. Three credits.

MGT 531 Project Management

This course provides a comprehensive overview of project management. The course addresses the culture, principles and basic techniques of project management. The course reviews the general states of a project in rough chronological order and describes how the stages interrelate. Basic tools of project management, such as work breakdown structure, scheduling, earned value analysis and risk management, are introduced. The elements of project management critical to the success of a project are identified and explained. The principles and tools are integrated and clarified through case studies from a variety of organizational settings and through creation of project management plans developed by students working in a team. Prerequisite: Second year standing. Three credits.

MGT 535 Human Resource Management, Employment Law and Ethics

This course provides an integrated curriculum focused on three overlapping knowledge areas: Human Resource Management, Employment Law and Ethics. Graduating students emerge with an intellectual and skill-based package of theory, techniques and tools — all of which help them to successfully manage institutions' environmental landscapes. Prerequisites: MBA foundational courses. Three credits.

MGT 611 Integrative Management

The Integrative Management Course (IMC) is the capstone course in the MBA program. It is designed to help students develop business leadership and management skills. Students learn to think like general managers in a real-world environment and to develop an integrative view of management. Students learn how to develop and implement a strategic management process in a complex, competitive atmosphere, using the tools and skills learned in all the required courses. Students are expected to develop and use oral presentation skills suitable for business meetings. Finally, students learn the complexities and rewards of effective group management efforts, which give them an appreciation for how the different parts of a business interact to add value to the overall enterprise. Prerequisite: Last semester of program. Three credits.

MANAGEMENT INFORMATION SYSTEMS (MIS)**MIS 511 Introduction to Statistical Analysis and Forecasting**

The purpose of this course is to provide an overview of some important analytical tools; exploratory data analysis, probability, and statistics. Broadly speaking, the course deals with inferential statistics, regression analysis, and forecasting as well as their application for understanding business phenomenon. This course is waived if the student has completed the equivalent of either Statistics and Data Analysis or Quantitative Methods. Three credits.

MIS 514 Decision Sciences and MIS

A study of the nature and uses of computers as an integral function in the operation of management information systems. Fundamentals of computer and communications systems are covered, including hardware, software, databases and networks. Analysis of the techniques of collecting, recording, manipulating and displaying internal and external information relevant to the planning of the operation and control of the firm at various levels of management is stressed. Important topics for business applications are discussed, including artificial intelligence, data warehouses and data mining, business intelligence and decision support. Solution of business problems utilizing quantitative modeling and structured data analysis is emphasized. Prerequisites: MBA foundational courses. Three credits.

MIS 515 Data Communications and Networking

This course focuses upon the fundamentals, standards and trends in data communications. Data transmission devices, circuits and types of media are emphasized. Networking concepts, topology and network management are discussed. Prerequisite: MIS 514. Three credits.

MIS 519 Advanced Topics in Application Software

This course is intended to enhance the student's problem-solving capabilities through a familiarity and working knowledge of several advanced software packages. Application packages include dBase 7 for Windows, VP-Expert, Minitab and Visual Basic. Prerequisite: MIS 514. Three credits.

MIS 521 Database Systems

A study of database systems as related to business needs. Topics include entity-relationship and semantic object-oriented models, the relational model normalization, structured query language (SQL), transaction processing, database administration and security, distributed databases, client-server models, expert system databases and Internet databases. Special emphasis is placed on the systems development life cycle of databases, to include design, implementation, verification, maintenance and management. Prerequisite: MIS 514. Three credits.

MIS 523 Knowledge-Based Systems

This course focuses upon the use of expert systems, decision support systems and database management systems to solve business applications. Topics include expert systems technology, knowledge representation, the knowledge base, the inference engine and the future of expert systems. Prerequisite: MIS 514. Three credits.

MIS 525 Multimedia Systems

A study of the basic theory behind multimedia technology as a first step in effectively and efficiently obtaining desired artistic effects with current hardware and/or software in order to make and communicate decisions. Topics include effective presentation of data, input devices (scanners, cameras, microphones, etc.), audio sound (analog, digital, MIDI, etc.), visual graphics, animation, video, movies, printing technology, color models, hypertext and hypermedia, file formats, presentation graphics software and techniques, desktop publishing, brochures, storage technology (CD-ROM, etc.) and interoperability of hardware, software and/or data. Internet technology is integrated throughout the course. Prerequisite: MIS 514. Three credits.

MIS 527 Operations Management

The purpose of this course is to provide: 1) an overview of some of the issues and problems that frequently occur in the management of business processes, operations and systems, 2) an assortment of general strategies for managing such operations and 3) knowledge of a number of quantitative and qualitative tools that can be fruitfully used in conjunction with those management strategies. Course emphasis is on business applications, not on mathematics and statistics. Prerequisite: MIS 511. Three credits.

MARKETING (MKT)**MKT 511 Marketing Theory and Practice**

An opportunity to provide students with a comprehensive understanding of marketing functions, institutions and concepts, including studies of marketing functions and strategies of demand analysis, product planning, pricing, distribution, promotion and marketing forecasts from the viewpoint of the manager. Emphasis is placed on the analysis of marketing problems involving the creation, distribution and sale of goods and services within the context of coordinated market planning and marketing information systems. Prerequisite: BUS 501. Three credits

MKT 513 International Market Planning Seminar

This course is designed to assist the students in gaining experience in the use of techniques for aiding firms in identifying and developing foreign markets for their goods and services in a global economy. Second year MBA students selected for the program will work under the guidance of a faculty advisor. A team of students works with a regional business firm for the term on a project jointly identified by the team and firm. Prerequisites: MKT 511 and permission of the instructor. Three credits.

MKT 515 International Marketing

This course distinguishes between the perspective of domestic and international marketing. Emphasis is placed on the key environmental elements in evaluating marketing opportunities and threats as a basis for developing international marketing strategies. Special emphasis is placed on the social and cultural dimension as they impact on international marketing decisions. Prerequisite: MKT 511. Three credits.

MUSIC CONFERENCES (MUCC)**MUCC 597 Trends and Practices**

This course will provide students with the opportunity to attend a professional conference and experience and review a variety of performance and non-performance sessions. One, two or three credits.

MUCC 598 Readings

This course will provide students with the opportunity to complete analytical readings of current articles from professional journals, book chapters or similar materials. Concurrent enrollment in MUCC 597 required. One credit.

MUCC 599 Best Practices Document

The purpose of this course is to provide students with the opportunity to explore in depth one topic related to exemplary practices currently employed in teaching. Concurrent enrollment in MUCC 597 and MUCC 598 is required. One credit.

MUSIC EDUCATION (MUED)

MUED 595 Special Topics in Music Education

Investigation of a specialized area of knowledge in a class setting. Investigation of a specialized area of knowledge in a class setting. Project proposal must be approved by the associate dean for graduate studies and the division chair. Prerequisite: Permission of the instructor. One, two or three credits.

MUED 599 Independent Research in Music Education

A scholarly, written research document, or equivalent project, designed in conjunction with the professor offering this instruction. Topics may include current educational trends, national standards, methodologies and teaching techniques. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two, or three credits.

MUED 602 Supervision and Administration of Music Education

A study of the nature and scope of supervision, including supervisory procedures and techniques, curriculum development, fiscal responsibility, and other administrative matters. Prerequisite: Permission of the instructor. Three credits.

MUED 603 History and Philosophy of Music Education

A study of the history of music education in the United States with implications for contemporary practice. Aesthetic theories relevant to music education and application of theory to practical problems of the music educator is examined. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 604 Educational Measurement

General review of assessment techniques and various forms of tests and measurements for use in the music classroom. Administration and evaluation of music related tests. Prerequisite: Permission of the instructor. Three credits.

MUED 605 Curriculum and Assessment in Music Education

A study of curricular design models and assessment strategies in general, choral and instrumental music education. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 613 Issues in American Music Education Philosophy

Study of constructs that help define philosophy of music education and shape curricular decisions in the music education classrooms. Individual research required. Prerequisite: Permission of the instructor. Three credits.

MUED 615 Reading and Literacy and Music

A study of reading, writing, speaking and listening processes as they apply to the development of literacy in the K-12 education of music students. Topics include brain functioning, text decoding, text comprehension and musical notation processing. Knowledge of these topics is applied through descriptive or action research conducted in teaching contexts. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 616 Copyright for Musicians

This course is a study of historical backgrounds and current policies and practices regarding copyright regulations and the protection of intellectual property, particularly in the field of music. This course is offered on an alternating schedule. Check with advisor for next offering. Three credits.

MUED 702 Educational Statistics

A review of methods and techniques of research design, measurements, and statistics for music education research. This course is offered on an alternating schedule. Check with advisor for next offering. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. MUED 604 recommended. Three credits.

MUED 704 Contemporary Trends in Music Education

Review of current educational trends, reforms and practices (including experimental and innovative programs). Changing objectives, content, educational processes and evaluation of music education in the United States are studied. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 705 Methodologies in Music Education

A review of specialized methodologies in music education including, but not limited to: Suzuki, Orff, Kodaly, Dalcroze, Laban and Gordon. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 706 Curriculum Organization in Music Education

Contemporary philosophies and objectives of music in public education, including discussion of the scope and sequence of music curricula for general, choral and instrumental instruction. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MUED 795 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites: Vary with topic but must have permission of the instructor. One, two or three credits.

MUSIC ENSEMBLES (MUEN)**Large Ensembles****MUEN 501 Symphonic Wind Ensemble**

An instrumental organization of winds and percussion with a minimum of part duplication, whose major objective is the development of musical understanding through the study and preparation of original compositions and transcriptions of significant musical worth for the ensemble. Prerequisite: Audition. Two credits.

MUEN 502 Concert Band

An instrumental organization that provides students with an opportunity to develop musical understanding through the study and preparation of representative compositions and transcriptions for bands. Prerequisite: Audition. Two credits.

MUEN 503 Symphony Orchestra

A concert organization which studies and performs the standard orchestral literature and contemporary compositions. Prerequisite: Audition. Two credits.

MUEN 504 Conservatory Jazz Ensemble

Consisting of full sections of trumpets, trombones, saxophones, rhythm section instruments and other instruments needed for various arrangements, the jazz ensemble is a select group dedicated to performing music ranging from the style of the "big bands" to contemporary and experimental jazz forms. In addition to developing jazz skills, the musicians develop facility in jazz composition, arranging and improvisation. Prerequisite: Audition. Two credits.

MUEN 506 Guitar Ensemble

An ensemble performing music composed or arranged for multiple guitars. Prerequisite: Audition. Two credits.

MUEN 511 Conservatory Choir

A select group of singers who perform sacred and secular choral music ranging from Renaissance to contemporary compositions. Prerequisite: Audition. Two credits.

MUEN 512 Shenandoah Chorus

A mixed vocal ensemble which performs sacred and secular choral music. Prerequisite: Audition. Two credits.

MUEN 513 Cantus Singers*

A select choral organization which performs music written especially for treble voices. Prerequisite: Audition. Two credits.

MUEN 523 Accompanying Ensemble

Four hours of assigned accompanying responsibilities per week (two hours in studio and two in rehearsal or the equivalent as determined by the accompanying coordinator). Regular individual coaching by members of the keyboard faculty. Prerequisite: Audition. Two credits.

Small and Chamber Ensembles**MUEN 514 Shenandoah Singers**

A vocal group that performs an eclectic repertoire of a cappella jazz, pop and world music. Designed for students interested in studying repertoire drawn from the popular music tradition, this vocal chamber group consists of a select ensemble of eight to twelve singers. Prerequisite: Audition. One credit.

MUEN 531 Kammermusik Players

A large, mixed chamber ensemble comprised of wind, string and percussion instruments (mostly one instrument per part) that studies and performs music of all styles. Prerequisite: Audition. One credit.

MUEN 532 Clarinet Choir

The clarinet choir, comprising all members of the clarinet family, performs original works and transcriptions. Prerequisite: Audition. One credit.

MUEN 533 Percussion Ensemble

An ensemble that performs rhythmic and melodic music written for groups of percussion instruments alone or with wind groups of varying size. Prerequisite: Audition. One credit.

MUEN 535 Jazz Guitar Ensemble

The jazz combos are designed to expand upon the student's improvisation and interpretative skills in a jazz chamber music setting. Emphasis will be placed on standard repertoire from the swing era up to the present. Student arrangements are encouraged. Particular attention will be focused on ear training and listening skills with respect to chord/scale recognition in improvisation. The student may also be required to memorize some or all of the repertoire. Prerequisite: Audition. One credit.

MUEN 541 Chamber Choir

A highly selected mixed vocal group of limited size that performs vocal chamber music of all periods. Prerequisite: Audition. One credit.

MUEN 552 New Music Ensemble

A mixed ensemble of indeterminate personnel, open to both singers and instrumentalists, that regularly performs contemporary chamber music and features premiere performances of new works as often as possible. Prerequisite: Audition. One credit.

MUEN 553 Pit Orchestra

An orchestra that plays for the fall and spring musicals. Specific instrumentation needed is determined by the musical production offered each semester; but typically would include: five woodwinds (doubling), five to eight brasses, strings (3, 2, 2, 1), piano and percussion. Prerequisite: Audition. One credit.

MUEN 554 Pep Band

A small instrumental ensemble of no more than 20 performers who perform music suitable for home football events. May not be used to fulfill any curricular ensemble requirement in the conservatory. Offered in the fall semester. Prerequisite: Audition. One credit.

MUEN 561 Brass Ensembles

Small brass ensembles, mainly brass quintets, coached by faculty members of the Shenandoah Brass Quintet. Prerequisite: Audition. One credit.

MUEN 562 Woodwind Ensemble

Various ensembles of woodwind instruments in diverse groupings whose repertoire includes standard quartets and quintets. Prerequisite: Audition. One credit.

MUEN 563 String Chamber Ensemble

Preparation and performance of standard string ensemble literature (duo, string trio, piano trio, string quartet, piano quartet, etc.). Prerequisite: Audition. One credit.

MUEN 564 Saxophone Ensemble

One or more student saxophone quartets are formed each semester to perform standard quartet literature from the French, German, and American schools. Prerequisite: Audition. One credit.

MUEN 565 Flute Ensemble

An ensemble performing music for flute groups of varying size. Prerequisite: Audition. One credit.

MUEN 566 Guitar Consort

Performance of repertoire expressly composed or arranged for guitar duo, trio or quartet. Enrollment is limited and each student will be expected to assume total responsibility for one part. Prerequisite: Audition. One credit.

MUEN 567 Cello Ensemble

An ensemble performing original compositions and transcriptions for homogeneous cello ensemble. Prerequisite: Audition. One credit.

MUEN 571 Jazz Combo, Jazz Trombone Ensemble

The jazz combos are designed to expand upon the student's improvisation and interpretative skills in a jazz chamber music setting. Emphasis will be placed on standard repertoire from the swing era up to the present. Student arrangements are encouraged. Particular attention will be focused on ear training and listening skills with respect to chord/scale recognition in improvisation. The student may also be required to memorize some or all of the repertoire. Prerequisite: Audition. One credit.

MUEN 572 World Music Ensemble

Contextual study, rehearsal and performance of vocal and instrumental music primarily associated with indigenous, non-Western music traditions. Prerequisite: Audition. One credit.

MUEN 575 Jazz Combo: Improvisation Laboratory

A small ensemble with emphasis on development of performance and improvisational skills. Prerequisites: Audition and permission of the instructor. One credit.

MUEN 578 Harp Ensemble

Study and performance of compositions and transcriptions for harp ensemble to develop the ensemble skills of harp students. Study of orchestral excerpts is included. Prerequisite: Audition. One credit.

MUSIC LITERATURE (MULT)**MULT 501 Symphonic Literature Seminar**

Historical and analytical study of selected works from the Classical Period to the present. Individual research resulting in a term paper; or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 502 Oratorio/Choral Literature

Historical and analytical study of selected works representing major forms and styles from the late Renaissance to the present. Individual research resulting in a term paper; or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 503 Brass Literature

Historical and analytical survey of solo and ensemble literature written for brass instruments. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 505 Guitar Literature

Historical and analytical survey of solo and ensemble guitar literature from the Renaissance through the present. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 507 Organ Literature I

Historical and analytical survey of organ literature. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 508 Organ Literature 2

Continuation of MULT 507. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MULT 507 or permission of the instructor. Two credits.

MULT 509 Percussion Literature

Historical and analytical survey of percussion solo and ensemble music. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 511 Piano Literature I

Historical and analytical survey of keyboard literature from the earliest through that of the early 19th century. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 512 Piano Literature 2

Historical and analytical survey of the literature from the romantic period to the present. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 513 Woodwind Literature

Historical, analytical and pedagogical survey of solo literature written for woodwind instruments, including solos with large ensemble accompaniment. The literature of each instrument is surveyed from the Baroque period through the 20th century period. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Three credits.

MULT 517 String Literature

Historical and analytical survey of a literature for solo strings and chamber strings throughout the major historical musical periods. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 520 Opera Literature

A brief history of opera through the examination of major works in historical contexts, as well as a survey of opera repertoire literature through in class performance and in and out of class listening. Students develop individual repertoire reference materials. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 528 Chamber Literature

Important styles and categories of chamber music from the late Baroque trio sonata through the Classical and Romantic periods to the first half of the 20th century including score study, readings and analytical projects. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 532 Jazz History

A study of the origin, development, styles, and major contributors of jazz through listening, analysis and research. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. (Formerly MULT 522.) Prerequisite: Permission of the instructor. Two credits.

MULT 533 Survey of Vocal Literature

A presentation of the history and development of the art song, including in-class performances and discussions. The song compositions of Italian, German, French, Spanish, Latin American, British and American composers will be covered. If time allows, Scandinavian, Russian, and Slavic composers will also be addressed. Performance and critical listening will be the major emphasis of the class. There will be assigned readings, a term paper with oral presentation and a finished performance of two or more songs by two pre-selected composers for graduate students. This course does not fulfill graduate curricular requirements in vocal literature. Graduate students may be expected to facilitate discussions and to be presenters both by lecturing and performing at some of the sessions. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Three credits.

MULT 534 The Piano in Chamber Literature

Historical and analytical survey of repertoire for chamber ensemble with keyboard. The literature examined includes many varieties of instrumental combinations from the 17th century through present. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. (Formerly MULT 524.) Prerequisite: Permission of the instructor. Two credits.

MULT 551 Music of the Medieval and Renaissance Eras

An in-depth study of sacred and secular music of Europe from Gregorian Chant to Palestrina, including the development of polyphony, instrumental music, notation and forms including score study, readings and individual projects. Individual research resulting in a term paper is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 552 Music of the Baroque Era

The most important styles, forms and composers from Monteverdi to Bach and Handel. Analytical study of selected scores, readings in the literature of the period, and individual projects. Individual research resulting in a term paper is expected. (Formerly MULT 526.) This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 553 Music of the Classical Era

A survey of the developments in musical thought, compositional style and expression from approximately 1750 to 1827 and the death of Beethoven, that produced at its inception the innovative ideas of the style gallant and the empfindsamer Stil, culminating in the great works of Haydn, Mozart, and Beethoven. Individual research resulting in a term paper is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 554 Music of the 20th Century

Significant trends in style, form and technique from Debussy to the present. Analysis of selected scores, comparative analysis of the literature and visual art of the period, and individual projects. Individual research resulting in a term paper is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 555 American Musical Theatre I

The history and development of popular musical theatre in the United States from colonial times through 1942, including extravaganza, minstrelsy, revue, vaudeville, burlesque, operetta and early musical comedy. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Three credits.

MULT 556 Music of the Romantic Era

Survey of the development of 19th century Romantic musical style from post-Beethoven to ca. 1900 as seen in instrumental music, vocal music, and music drama. The social and cultural roots of Romantic music, the dramatic changes in the patronage and musical tastes of the political and intellectual elite, as well as the rising middle class, will be explored along with the rise of nationalism as a new and potent force in musical composition. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 561 Survey of World Music: South Asia/Middle East/Europe

Study of contemporary music indigenous to South Asia/Middle East/Europe. Analysis and comparison of tonal and rhythmic attributes. Promotion of socio-cultural awareness. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MULT 562 Survey of World Music: Sub-Saharan Africa/Caribbean

Study of contemporary music indigenous to Sub-Saharan Africa/Caribbean. Analysis and comparison of tonal and rhythmic attributes. Promotion of socio-cultural awareness. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MULT 563 Survey of World Music: The Americas

Study of contemporary music indigenous to the Americas. Analysis and comparison of tonal and rhythmic attributes. Promotion of socio-cultural awareness. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MULT 564 Survey of World Music: Central/East/Southeast Asia

Study of contemporary music indigenous to Central/East/Southeast Asia. Analysis and comparison of tonal and rhythmic attributes. Promotion of socio-cultural awareness. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MULT 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisite: Permission of the instructor. One, two or three credits.

MULT 599 Individual Directed Research

A private-instruction setting for individual projects in music literature. May be used to fulfill music electives only. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

MULT 621 German Vocal Literature

An in-depth study of German Vocal Literature that emphasizes performance practices for this genre. Study of the fusion of poetry and music is included. Classwork is performance oriented with oral/lecture presentations required of all students. Composers studied include Mozart, Beethoven, Schubert, Schumann, Liszt, Brahms, Wolf, Mahler, Strauss, and Berg. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MULT 622 Italian/Spanish Vocal Literature

A performance-oriented class for graduate students in a music curriculum. It is an in-depth study of 20th and 21st century Italian and Spanish vocal literature with reference to the Italian and Spanish Renaissance periods. Spanish diction is included. Classwork includes oral/lecture presentations by students (those students who are not voice majors may complete their class presentations by using recorded material. However, voice majors are required to sing in class). This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: Two credits.

MULT 623 French Vocal Literature

An in-depth study of French vocal literature that emphasizes performance practices for this genre. Study of the fusion of poetry and music is included. Classwork is performance oriented with oral/lecture presentations required of all students. Composers studied include Berlioz, Duparc, Faure, Debussy, Ravel and Poulenc. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: Two credits.

MULT 624 British/American Vocal Literature

An in-depth study of British and American vocal literature which emphasizes performance practices for this genre. Study of the fusion of poetry and music is included. Classwork is performance oriented with oral/lecture presentations required of all students. Composers studied include Purcell, V. Williams, Quilter, Finzi, Britten, Foster, Ives, Thomson, Duke, Copland, Barber, Rorem and Pasatieri. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: Two credits.

MULT 656 American Musical Theatre 2

The history and development of popular musical theatre in the United States from 1943 through the present, including the modern musical comedy, the musical play, the concept musical, the through-sung musical, foreign influences and modern trends. Individual research resulting in the completion of a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor: Three credits.

MUSIC PEDAGOGY AND PERFORMANCE (MUPP)**MUPP 503 Guitar Pedagogy**

Survey of teaching methods and materials for private instruction. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: Two credits.

MUPP 505 Organ Pedagogy

Methods of private instruction, analysis in teaching; problems and investigation of graded literature. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: Two credits.

MUPP 506 Contemporary Commercial Music (CCM) Styles 1: Musical Theatre

An in-depth study and application of methods for singing and teaching the musical theater style. Instruction will be one-hour weekly plus a lab hour, consisting of lecture, training, performance and discussion of relevant techniques and solutions. Course will cover treatment of vowels, consonants, song authenticity, correct style musically and vocally. Students will explore through songs various vocal qualities found in musical theatre while maintaining vocal health. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: One credit.

MUPP 507 Contemporary Commercial Music (CCM) Styles 2: Pop and Country

An in-depth study and application of methods for singing and teaching the pop and country styles. Instruction will be one-hour weekly plus a lab hour, consisting of lecture, training, performance and discussion of relevant techniques and solutions. Course will cover accent, treatment of vowels, consonants, song authenticity, correct style musically and vocally. Students will explore through songs various vocal qualities and stylisms found in pop and country styles while maintaining vocal health. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor: One credit.

**MUPP 508 Contemporary Commercial Music (CCM) Styles 3:
Jazz and Blues**

An in-depth study and application of methods for singing and teaching the jazz and blues styles. Instruction will be one-hour weekly plus a lab hour, consisting of lecture, training, performance and discussion of relevant techniques and solutions. Course will cover treatment of vowels, consonants, song authenticity, correct style musically and vocally. Students will explore through songs various vocal qualities found in jazz and blues while maintaining vocal health. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUPP 522 Functional Guitar Skills

The primary focus of this course is fundamentals of guitar playing. Students perform a basic repertoire of traditional, folk and popular songs with or without printed music. Many basic chords, strumming patterns and picking patterns are employed. Overall general care and use of the guitar is included. Individual research resulting in a term paper, or the equivalent, is expected. Open only to music therapy students. Prerequisite: Permission of the instructor. One credit.

MUPP 530 Repertoire for Piano Ensemble

A survey of the history and performance of literature for piano four-hands and two or more pianos. Individual research resulting in a term paper, or a special project involving analysis and performance of a major work of the repertoire, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Applied graduate piano and accompanying majors or by permission of the instructor. Two credits.

MUPP 531 Graduate Half Recital

Presentation of half of a solo classical recital. The length of each half of the recital is not to exceed 25 minutes of music. Prerequisite: Permission of the instructor. Concurrent enrollment in applied study is required. One credit.

MUPP 532 Piano Pedagogy

A study of materials, methods and repertoire for the successful teaching of piano students from the beginning stages through the early intermediate level. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. (Formerly MUPP 527.) Prerequisite: Permission of instructor. Two credits.

MUPP 533 Anatomy and Function of the Singing Voice

Emphasis on the analysis of teaching problems and the development of vocal technique through the study of anatomical structures and physiological mechanisms as applied to singing. A study of how the human voice physiologically emerges from the body through the combined blending of body actions that overlap and assist each other; specifically: posture and movement, respiration, phonation, resonance and articulation. Includes analysis of the voice as an acoustic chain. Practical application and laboratory experiences incorporating supervised private teaching. Individual research resulting in a term paper or project is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Completion of APVO 300-level study or permission of the instructor. Three credits.

MUPP 536 Supervised Private Teaching

Supervised teaching of beginning and intermediate applied music students with periodic seminars to discuss relevant teaching techniques and solutions. May be repeated with different instructor or in a different applied field. Prerequisites: MUPP 532 (piano majors) or permission of the instructor; (Formerly MUPP 530.) Three credits.

MUPP 538 Business of Studio Teaching

A study of the business of studio teaching and management. Individual project resulting in the development of studio policies, resume and other materials appropriate to the successful operation of an independent teaching studio is expected. In addition, individual research resulting in a term paper is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. One credit.

MUPP 539 Technology and Music Training

A survey of areas of technology relevant to the modern private studio and class teaching. Topics discussed include business software and studio record keeping; audio and video recording techniques and uses; Midi standards; notation and sequencing software; computerized music theory instruction; and applied music instruction software. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUPP 543 Jazz Repertoire

A course devoted to developing the repertoire necessary for jazz musicians to work in various environments, specifically in professional "club date" and "jam session" settings. Memorization of music in various styles is emphasized. Individual research resulting in a term paper is expected. Prerequisite: Permission of the instructor. One credit.

MUPP 544 Alternative Styles for Strings

A survey of string styles in non-Western and non-classical music idioms. Critical listening and practical performance are key components of the class. Musical styles to be introduced include, but are not limited to Bluegrass, Jazz, Rock, Texas fiddle, Celtic fiddle, Rockabilly, Hindustani and others. Individual research resulting in an advanced written or performance project is expected. Prerequisites: Successful completion of MUTC 102 or permission of the instructor. One credit.

MUPP 551 Opera Characterization

Preparation of complete operatic roles in original language. Areas of study include background material, physical development, character interrelationships and musical preparation. Open to graduate students by audition. Prerequisite: Permission of the instructor. One credit.

MUPP 555 Contemporary Commercial Music Vocal Pedagogy: Level 1

Introduction to an organized pedagogical approach to contemporary commercial music vocal pedagogy based on principles of voice science and medicine, including aural discrimination and diagnosis of vocal issues. Prerequisites: Permission of the instructor. One credit.

MUPP 556 Contemporary Commercial Music Vocal Pedagogy: Level 2

A continuation of MUPP 555 with emphasis on balancing age, vocal quality, style demands, timeframe and other factors including vocal health. Course includes practical experience working with students. Prerequisite: Completion of MUPP 555 or permission of the instructor. One credit.

MUPP 557 Contemporary Commercial Music Vocal Pedagogy: Level 3

A continuation of MUPP 556 with emphasis on resolving functional problems related to singing and presentation techniques, matching repertoire to the performer's voice, and a component on re-training injured voices. Prerequisite: Completion of MUPP 556 or permission of the instructor. One credit.

MUPP 560 Advanced Diction for Singers

Intensive study, using the International Phonetic Alphabet, of the rules governing correct diction in Latin, Italian, English, German and French. Discussion of linguistic subtleties and detailed points of pronunciation. Coachings on in-class readings of poetic texts and performances, either through singing or recitation, of assigned repertoire. Two credits.

MUPP 594 Opera Production

Musical preparation, staging and final performance of an opera production. Development of musical and stage skills as they apply to the actual production of a full-length operatic production. Entrance by audition. Prerequisite: Permission of the instructor. One credit.

MUPP 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites: Vary with topic but must have permission of the instructor. One, two or three credits.

MUPP 598 Internship

Internship or practical training in an area of performance or future employment conducted under the supervision of a member of the faculty. Offered each term. Prerequisites: Permission of the instructor and associate dean for graduate studies. One credit.

MUPP 599 Individual Directed Research

A private-instruction setting for individual projects in performance practice or pedagogy. May be used to fulfill electives only. Project proposals must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

MUPP 601 Pedagogy of Music Theory

Survey of current instructional materials and methods for classroom teaching of core courses in college music theory, including lecture topics, sight singing and dictation. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Completion of graduate diagnostic examination and all necessary Graduate Theory Review courses and permission of the instructor. Two credits.

MUPP 602 Pedagogy of Music Literature

A program of study designed for those who presently teach or plan to teach a college-level music history or music appreciation course as well as various musicological specific special topic courses. Classroom techniques, problems in course organization based on time constraints, and varied student backgrounds and the integration of social history or cultural context is explored through an in-depth survey of the current state of musicological data, research trends, available textbooks, anthologies and specialized literature. Essays written from numerous perspectives by experienced musicology professors in various stages of their careers are closely examined and discussed, providing students with the broadest possible spectrum of present day pedagogical techniques in the teaching of music history. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Two credits.

MUPP 625 Opera Workshop

In-depth study of scenes selected from the standard operatic repertoire. In addition to background research and character development exercises, the course culminates in a public performance of excerpts performed in the original language, with minimal sets and costumes. Emphasis is on the expressive use of the body and the language. Individual research resulting in an advanced written or performance project is expected. May be taken multiple times. Prerequisite: Permission of instructor. Two credits.

MUPP 633 Voice Disorders

Advanced graduate course with emphasis on the detailed comprehension of anatomy and physiology of the laryngeal mechanism. Identification of respiration, phonation, and resonance contributions to voice production in the normal, disordered, and elite (performance) voice. Analysis of causes of voice disorders and ways to prevent their occurrence. Students will be exposed to multiple laryngeal pathologies with specific attention paid to etiology of disorder; treatment options, and expected outcomes. Practical application and laboratory experiences include subjective and objective voice evaluation techniques as well as an understanding of when and how to refer for medical evaluation and management. Students will have the option of completing either a research proposal or an in-service project in the area of voice disorders in the singing population. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Completion of MUPP 533-level study or permission of the instructor. Three credits.

MUPP 634 Voice and Body Awareness

A survey of body movement techniques as they relate to singers and teachers of singing, including body mapping, the Alexander Technique, tai chi, the Feldenkrais Method and dance. Each method will be taught by a guest lecturer. Students will conduct research resulting in analytical writing and presentations that demonstrate the relevance of these methods in a studio setting. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Two credits.

MUPP 635 Technology for the Teaching Studio

An exploration of technologies useful in the applied teaching studio, with an emphasis on their pedagogical application. Topics explored will include audio and video recording and editing; room and vocal acoustics; and electroglottographic and spectrographic real-time feedback and post production analysis; use of these technologies in current research of the singing voice. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUPP 539, permission of the instructor or MUPP 539. One credit.

MUPP 636 Technology Laboratory

Practical application of the technology studied in MUPP 635 to studio teaching. Students will use audio and video recording, as well as spectrographic and EGG analysis as real time feedback in supervised, unsupervised and master class applied instruction. Audio, video and EGG samples obtained in unsupervised applied instruction will be examined and analyzed in class. Discussion of current research will continue from MUPP 635. This course is offered on an alternating schedule. Check with advisor for next offering. Pre/corequisite: MUPP 635. One credit.

MUPP 637 Voice Science Research Applications

An intensive course designed to expand knowledge of non-classical singing issues related to vocal health, acoustics and research methodology. The information gained will provide students with an understanding of voice science and its studio application for the non-classical singer; provide participants with a means to prevent, identify and remediate potential vocal injury in singers; enable participants to create and implement appropriate strategies for remediation of vocal injuries from a singing voice specialist perspective. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUPP 557-level study or permission of the instructor. One credit.

MUPP 640 Master's Performance Recital

Presentation of a full recital including solo classical and/or collaborative performances. Prerequisite: Permission of the instructor. Concurrent enrollment in applied study is required. Two credits.

MUPP 642 Master's Lecture Recital

Presentation of a public formal lecture and recital of related music, with written documentation supporting the presentation. Continuous enrollment for at least one credit is required in fall and spring semesters after initial registration to support completion of lecture and supporting document. Concurrent enrollment in applied study is required. Prerequisite: Permission of the instructor. One credit.

MUPP 697 Doctoral Performance Recital

Presentation of a full solo classical recital. Prerequisite: Permission of the instructor. Concurrent enrollment in applied study is required. Four credits.

MUPP 698 Doctoral Lecture Recital

Presentation of a public formal lecture and recital of related music, with written documentation supporting the presentation. Continuous enrollment for at least one credit required in fall and spring semesters after initial registration to support completion of lecture and supporting document. Concurrent enrollment in applied study is required. Prerequisite: Permission of the instructor. Document preparation retitled as CONR 693, Lecture Recital Document. Two credits.

MUSIC THEORY (MUTC)**MUTC 501 Form and Analysis I**

A study of the various structural elements of music-melodic, rhythmic, harmonic and textural. Emphasis on traditional structural concepts and terminology from sub-phrase units through single movement classical forms. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 502 Form and Analysis 2

A continuation of MUTC 501 including work with baroque and pre-baroque forms and procedures concrete forms, art songs, etc. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: MUTC 501 or permission of the instructor. Two credits.

MUTC 503 Theory Review: Diatonic Harmony

A review of diatonic and chromatic harmony, simple and compound form, partwriting and analysis of music of the Common Practice Period. Does not fulfill any curricular requirement at the graduate level. Prerequisite: Placement or permission of the instructor. One credit.

MUTC 504 Theory Review: Chromatic Harmony

A review of chromatic harmony, voice-leading, analysis and compound forms. Open to graduate students only. Does not fulfill any curricular requirement at the graduate level. Prerequisite: Placement or permission of the instructor. One credit.

MUTC 508 16th Century Counterpoint

A study and application of modal counterpoint in two, three, and four parts, including text-setting. Individual research resulting in a term paper, or the equivalent, is required. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUTC 509 18th Century Counterpoint

A study and application of principles of tonal counterpoint, including canons, inventions, and fugues. Individual research resulting in a term paper, or the equivalent, is required. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUTC 510 Music Notation

A practical course in computer music notation, including correct practices for instrumental, vocal and keyboard music in all combinations: edition; proofreading; layout; and extraction of parts from a score. Individual research resulting in a project or the equivalent is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 511 Jazz Theory I

A course designed to equip the student with theory skills necessary to successfully improvise in the jazz idiom. Lead sheet notation, modes, and harmonic analysis are emphasized, as well as an introduction to jazz style. Individual research resulting in a project or the equivalent is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 512 Jazz Theory 2

A continuation of Jazz Theory I, with a review of chord/scale relationships, modal interchange, voicings and voice leading, non-harmonic tone treatment, melodic elaboration, chord substitution, rhythm changes, Coltrane matrix and extensive exploration of solo analysis. Individual research resulting in a project or the equivalent is expected. Prerequisite MUTC 511 or permission of the instructor. Two credits.

MUTC 513 Jazz Arranging and Composition

A basic course in arranging techniques, focusing on the small jazz ensemble. Voicing techniques, non-harmonic tone treatment, style, instrumentation and jazz form are emphasized. Individual research resulting in a project, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUTC 514 Advanced Jazz Arranging and Composition

Practical arranging in jazz and rock idioms for dance band combos and special ensembles. Idiomatic uses of harmony, melodic figures, voicings, tonal colors, modulations and notational conventions are developed. Includes writing for larger groups including strings and woodwinds for studio and recording productions. Individual research resulting in a project, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUTC 513 or permission of the instructor. Two credits.

MUTC 515 Contemporary Styles

Analysis of the compositional techniques and basic stylistic features of contemporary music. Analysis is drawn from composers from Wagner to the present. Individual research resulting in a project or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of the instructor. Two credits.

MUTC 519 MIDI and Electronic Music

Electronic music concepts, techniques, and hardware, including MIDI and MIDI software, basic digital equipment and computers. Two clock hours of studio time per week accompany the class. Individual research resulting in a project or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 520 Graduate Theory Seminar I

An advanced study of the formal structures and compositional procedures of music of the Baroque and classic periods, with emphasis on in-class discussion of selected works by composers such as Bach, Handel, Haydn and Mozart. Prerequisite: MUTC 502 or former course work in form and analysis. Based on diagnostic testing, enrollment in MUTC 502, MUTC 503 or MUTC 504 may be recommended prior to enrollment in this course. Two credits.

MUTC 521 Arranging

Fundamentals of arranging techniques and vocal arranging, supported by practical writing assignments. Individual research resulting in a project or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 522 Instrumentation

Principles and techniques for use of orchestral instruments. Study of ranges, voicings, timbre and idiomatic characteristics is supported by practical scoring for each group and for various combinations of all instruments and voicings. Individual research resulting in a project or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTC 530 Graduate Theory Seminar 2

An advanced study of the formal structures and compositional procedures of music of the Romantic and Post-Romantic periods, with emphasis on in-class discussion of selected works by composers such as Beethoven, Schubert, Chopin, Brahms, Wagner, Richard Strauss, and Mahler. Topics include classic forms after the 18th century, chromatic harmony and the dissolution of conventional functional tonality, etc. Prerequisite: MUTC 520 or equivalent, or permission of the instructor. Two credits.

MUTC 551 Song and Jingle Writing

Analysis of the techniques of composing music in the "pop" idiom, including analysis of harmonic and melodic structures, lyrics, and instrumentation. Exploration of the industry and writing techniques of radio/television commercial jingles. Assignments include writing and research projects. Individual research resulting in a project or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUTC 522 or permission of the instructor. Two credits.

MUTC 552 Advanced Song and Jingle Writing

A continuation of MUTC 551, with an emphasis on video techniques and the use of SMPTE. Assignments include writing and research projects. Individual research resulting in a project or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: MUTC 551 or permission of the instructor. Two credits.

MUTC 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites: Vary with topic but must have permission of the instructor. One, two or three credits.

MUTC 599 Individual Directed Research

A private-instruction setting for projects in theory and musicology. May be used to fulfill music electives only. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

MUTC 601 20th Century Analysis

An examination of compositional materials and techniques of art music from ca. 1900 to the present day. This course is offered on an alternating schedule. Check with advisor for next offering. Prerequisite: Permission of instructor. Two credits.

MUTC 620 Electronic Music Synthesis

Introduction of electronic music concepts and synthesis, techniques, and hardware, including basic digital and analog equipment and computers. One hour of studio time per week accompanies the class. Individual research resulting in a project or the equivalent, is expected. Prerequisite: MUTC 519 or permission of the instructor. Formerly MUTC 518. One credit.

MUSIC THERAPY (MUTH)

MUTH 511 Applications of Music Therapy

Applications of music therapy in terms of its history, theoretical foundations, scope of current clinical practice and research and relationship to other health care professions. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTH 512 Music in Therapy

A survey of music resources used in a variety of therapeutic settings, with emphasis on student development of musicianship and leadership skills used by music therapists. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTH 521 Standards of Clinical Practice

Emphasis on application of the AMTA Standards of Clinical Practice, in preparation for music therapy internship. Topics include music therapy assessment, treatment planning, program implementation, program evaluation, documentation and termination/discharge planning. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: MUTH 511, MUTH 512 or permission of instructor. Two credits.

MUTH 522 Music Therapy Methods

A survey of methods used in music therapy practice, including performance, improvisation, song materials, physiological/psychological responses to music, music and movement, technology, recreational music, music psychotherapy and combined interdisciplinary approaches. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTH 531 Psychology of Music

The study of psychological dimensions of musical behavior; including psychoacoustics, neurological considerations, the perception of musical elements, affective responses to music, the development of musical preference, musical ability, learning strategies, and sociocultural influences. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTH 532 Influence of Music on Behavior

Emphasis on reading, evaluating and applying experimental research findings on the influence of music on behavior to music therapy clinical settings. Topics include measurement of physiological and psychological responses to music, and the use of quantitative research methods when collecting, codifying, interpreting and presenting behaviorally based data generated within a musical context. Individual research resulting in a term paper, or the equivalent, is expected. Prerequisite: Permission of the instructor. Two credits.

MUTH 550 Music Therapy Clinical Experience I

Integration of music therapy knowledge and skills in clinical settings, including foundations and functions of music therapy practice. Emphasis on use of the AMTA Professional Competencies as the basis for student learning. Concurrent classroom instruction, including lecture, demonstration and rehearsal of skills. Open to music therapy certificate students only. Corequisites: MUTH 511 and permission of the instructor. Three credits.

MUTH 551 Music Therapy Clinical Experience 2

Integration of music therapy knowledge and skills in clinical settings, including professional responsibilities and therapeutic relationships associated with music therapy practice. Emphasis on use of the AMTA Professional Competencies as the basis for student learning. Concurrent classroom instruction, including lecture, demonstration and rehearsal of skills. Open to music therapy certificate students only. Corequisites: MUTH 511, MUTH 512 and permission of instructor. Three credits.

MUTH 563 Introduction to Sign Language

Fundamentals of American Sign Language. Individual research resulting in a term paper, or the equivalent, is expected. This course is offered on an alternating schedule. Check with advisor for next offering. One credit.

MUTH 583 Music Therapy Internship I

A minimum of 225 clock hours of clinical music therapy services under the supervision of a board certified music therapist, completed at a facility approved by the American Music Therapy Association, Inc., or at Shenandoah University-affiliated sites. Prerequisites: Completion of all courses required for the Certificate in Music Therapy and proficiency in piano, voice, guitar and nonsymphonic instruments. Major term paper required. Open to music therapy certificate students only. Prerequisites: MUTH 550, MUTH 551, MUTH 511, MUTH 512, MUTH 521, MUTH 522, MUTH 531 and MUTH 532. Three credits.

MUTH 584 Music Therapy Internship 2

A minimum of 225 clock hours of clinical music therapy services under the supervision of a board certified music therapist, completed at a facility approved by the American Music Therapy Association, Inc., or at Shenandoah University-affiliated sites. Prerequisites: Completion of all courses required for the Certificate in Music Therapy and proficiency in piano, voice, guitar and nonsymphonic instruments. Major term paper required. Open to music therapy certificate students only. Prerequisites: MUTH 550, MUTH 551, MUTH 511, MUTH 512, MUTH 521, MUTH 522, MUTH 531 and MUTH 532. Three credits.

MUTH 585 Music Therapy Internship 3

A minimum of 225 clock hours of clinical music therapy services under the supervision of a board certified music therapist, completed at a facility approved by the American Music Therapy Association, Inc., or at Shenandoah University-affiliated sites. Prerequisites: Completion of all courses required for the Certificate in Music Therapy and proficiency in piano, voice, guitar and nonsymphonic instruments. Major term paper required. Open to music therapy certificate students only. Prerequisites: MUTH 550, MUTH 551, MUTH 511, MUTH 512, MUTH 521, MUTH 522, MUTH 531 and MUTH 532. Three credits.

MUTH 586 Music Therapy Internship 4

A minimum of 225 clock hours of clinical music therapy services under the supervision of a board certified music therapist, completed at a facility approved by the American Music Therapy Association, Inc., or at Shenandoah University-affiliated sites. Prerequisites: Completion of all courses required for the Certificate in Music Therapy and proficiency in piano, voice, guitar and nonsymphonic instruments. Major term paper required. Open to music therapy certificate students only. Prerequisites: MUTH 550, MUTH 551, MUTH 511, MUTH 512, MUTH 521, MUTH 522, MUTH 531 and MUTH 532. Three credits.

MUTH 591 Music Therapy and Competency Education

The identification and mastery of particular competencies beyond entry level derived from music foundations, clinical foundations and music therapy foundations. Prerequisite: Permission of the instructor. One credit.

MUTH 595 Special Topics

Investigation of a specialized area of knowledge in a class setting. Prerequisites vary with topic. A minimum grade of "B" is required to pass this class. Prerequisite: Permission of the instructor. One, two or three credits.

MUTH 599 Individual Directed Research

Student-initiated course of study having direct application to music therapy practice and mastery of music and/or psychotherapeutic skills beyond entry level. Project proposal must be approved by the associate dean for graduate studies and the division chair prior to registration. Prerequisite: Permission of the instructor. One, two or three credits.

MUTH 604 Assessment and Evaluation in Music Therapy Practice

Overview of assessment and evaluation in music therapy practice with emphasis on philosophical and psychometric foundations, current standard of practice, development of protocol and comparative study with other disciplines. Prerequisite: Permission of the instructor. Three credits.

MUTH 611 Contemporary Foundations of Music Therapy Practice

Comparative analysis and evaluation of music therapy principles and supportive research in relation to relevant, interdisciplinary study of the natural sciences, humanities, social sciences, behavioral sciences and health sciences. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 621. Prerequisite: Permission of the instructor. Two credits.

MUTH 612 Dynamics of Music Therapy Intervention

Using qualitative and quantitative research methods, moment-to-moment events occurring in the delivery of music therapy services will be identified, analyzed and evaluated in terms of therapeutic outcomes. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisites: MUTH 622.

Prerequisite: Permission of the instructor: Two credits.

MUTH 613 Interdisciplinary Approaches to Music Therapy Practice

Topics focus on consultant and direct service interdisciplinary collaboration between music therapists and other educational/health care personnel. Emphasis on outcome-based integration of systems, methods, strategies, techniques and materials in a manner that reflects continuity of service and effective communication among service providers. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 623. Prerequisite: Permission of the instructor: Two credits.

MUTH 614 Implementation and Administration of Music Therapy Practice

Articulation of music therapy career goals in view of ongoing developments in current practice, theory, research and changes in health care delivery. Emphasis on administrative enhancement of the immediate work environment, and the identification of innovative employment models. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 624. Prerequisite: Permission of the instructor: Two credits.

MUTH 621 Clinical Applications I

Practical application of music therapy skills focused on specific clinical situations. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 611. Prerequisite: Permission of instructor: One credit.

MUTH 622 Clinical Applications 2

Practical application of music therapy skills focused on specific clinical situations. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 612. Prerequisite: Permission of instructor: One credit. One credit.

MUTH 623 Clinical Applications 3

Practical application of music therapy skills focused on specific clinical situations. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 613. Prerequisite: Permission of instructor: One credit.

MUTH 624 Clinical Applications 4

Practical application of music therapy skills focused on specific clinical situations. This course is offered on an alternating schedule. Check with advisor for next offering. Corequisite: MUTH 614. Prerequisite: Permission of instructor: One credit.

MUTH 629 Music Literature in Functional Context

Study of Alan Merriam's uses and functions of music as the basis for understanding contextual factors embedded in musical expression. Prerequisite: Permission of instructor: Three credits.

NURSING (N)**N 502 Principles of Teaching and Learning in Health Care Education**

This course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with effective teaching and learning practices in health care. The course will include approaches to teaching and learning theories used to develop the scope and standards of practice in the academic educator role. Instructional technology will be introduced. Prerequisite: Admission to graduate-level program or permission of the faculty. Three credits.

N 503 Curriculum Design in Nursing Education

This course introduces the process of curriculum design, implementation and evaluation. Students will review essential components of nursing curricula and methods for ensuring internal consistency within a curriculum. Pre/corequisites: N 502. Three credits.

N 505 Epidemiology and Biostatistics

This course prepares the student to integrate principles of epidemiology and biostatistics into effective decision-making when caring for complex and vulnerable populations. Emphasis is on study design and interpretation of bio statistical and quantitative methods in epidemiology and the clinical application in evidenced-based health care and decision-making methods. Pre/corequisites: N 506, N 512. Three credits.

N 506 Data Analysis and Interpretation I

The intent of this applied statistics course is on the analysis and interpretation of health care research data and introduction to the use of SPSS. A critical introduction to the methods used to collect data: surveys, archival research, experiments and participant observation. Basic concepts of hypothesis testing, estimation, correlation, confidence intervals, t-tests, chi-square tests, simple linear regression and the one way analysis of variance will also be included. Pre/corequisite: N 512. Three credits.

N 511 Informatics and Technology in Health Care

This course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with health care information systems and associated technology. The course provides an overview of current information systems and assists students in learning how to use technology to support safe, effective and efficient decision-making. Prerequisite: Admission to the graduate program or permission of the faculty. Two credits.

N 512 Theory, Research and Reasoning I

This course is designed to assist the student in developing advanced knowledge, skills, values, meanings and experiences, associated with theory, research and reasoning and their utilization in implementing and developing advanced nursing practice. Emphasis is placed on advanced understanding of the research process, the role theoretical frameworks play and the development of research evidence. Prerequisite: Admission to the graduate program or permission of the faculty. Three credits.

N 515 Emergency Preparedness and Disaster Nursing

This course explores the health care response to a variety of disasters and naturally occurring phenomena that present public health emergencies. Types of disasters that are explored include environmental, mass casualty, naturally occurring infectious diseases, and acts of terrorism and bioterrorism. The course is designed to assist the student in developing competency in responding to disasters through emergency preparedness and disaster management. Prerequisite: Admission to the graduate program or permission of the faculty. Three credits.

N 521 Theory, Research and Reasoning II

This course is designed assist the student in preparing to implement quantitative research. Emphasis is place on identifying nursing phenomena, developing researchable questions/hypotheses and conducting a comprehensive, scholarly review of the literature. Prerequisites: N 506 and N 512. Three credits.

N 525 Advanced Data Analysis and Interpretation

This course prepares the students to analyze complex health care research data. The course includes the selection, application, and computerization of multivariate statistical procedures and analysis of associated data. Emphasis is on study design and interpretation of multivariate quantitative methods and the clinical application in evidence based health care and decision making methods. Pre/corequisite: Admission to the graduate program or permission of the faculty, N 505. Three credits.

N 532 Roles and Issues in Advanced Practice

This course provides the student with the opportunity to further develop knowledge, skills, values and meanings with regard to the advanced practice role and factors influencing advanced practice. Topics include health care policy, finance, legal and ethical issues, and advanced practice role development. Three credits.

N 533 Faith Community Nursing

This course will be the foundation for advanced practice in faith community nursing. This course is designed to assist the student in developing the knowledge, skills, values, meanings and experiences (KSVME) to begin a faith community nursing practice. It provides an in-depth exploration of the theory, research and practical issues related to faith community nursing. Management of a faith community nurse practice and spiritual care will be main foci. Students will explore their own spiritual development and practices as a foundation to caring for others. Prerequisite: Admission to graduate program. Four credits.

N 534 Health Disparities in Rural Settings

This course will aid the student to develop the KSVME to critically analyze the complexity of health disparities in rural settings rooted in multiple levels of historic, contemporary inequities. These levels include health care systems, health policies, distributions of and access to resources and health care professionals. The critical thinking process throughout the course will emphasize ethical considerations. Existing multi-level intervention strategies aimed at eliminating health disparities will be assessed, including those specific to rural settings as well as community-academic partnerships that translate research into action. Three credits.

N 535 Faith Community Nurse Coordinator

This course will prepare the Faith Community Nurse (FCN) for advance practice as a FCN Coordinator. This course will assist the student in developing knowledge, skills, values, meanings and experiences (KSVME) associated with the role identity, responsibilities and scope of the position of FCN Coordinator. The student will obtain skills necessary to successfully work with individual FCN's and their congregations in the community. The course will present the FCN Coordinator's role in the ongoing growth and self care for themselves and the individual FCNs they are supervising. Prerequisite: N 533. Two credits.

N 550 Advanced Pharmacology and Therapeutics

This course allows the student to develop advanced knowledge, skills, values, meanings and experiences associated with pharmacological and therapeutics for specialized populations. Prerequisite: Admission to the graduate program or permission of the faculty. Three credits.

N 560 Advanced Concepts in Physiology and Pathophysiology

This course is designed to assist the student in developing broader knowledge, skill, values, meanings and experiences associated with physiology and pathophysiology. Cellular, tissue, organ, and system concepts are emphasized as well as the use of scientific literature. Prerequisite: Admission to the graduate program or permission of the faculty. Three credits.

N 575 Adult and Adolescent Physical and Sexual Assault

This course is designed to provide a basis for study of the evolving status of forensic nursing by exploring issues, identifying trends that will influence the development of this specialty, and interacting and working with members of a multidisciplinary team of professionals involved in the care of victims of violent crime. The course will provide the didactic requirements necessary for performing forensic evaluations on adult/adolescent victims of sexual/physical assault. Emphasis is placed on providing interventions that are congruent with age, health status, culture, occupation and legal and ethical concerns. Three credits.

N 580 Advanced Health Promotion and Assessment Across the Lifespan

This course is designed to assist the student in developing knowledge, skill, values, meanings and experiences associated with advanced health promotion, anticipatory guidance, and health promotion across the life span of specialized and culturally diverse populations. Clinical experiences include laboratory practice and community-based experiences in a variety of primary care sites located in urban and rural, underserved areas. Pre/corequisite: Admission to the graduate program or permission of the faculty and NLAB 580 clinical must be taken concurrently. Four credits.

N 582 Perspectives in Midwifery and Primary Care

The intent of this course is to assist the student in acquiring and applying the knowledge, skills, values meanings and experiences of diversity in the perspectives of midwifery caring for women and their families. Three credits.

N 583 Applied and Interactive Genetics

This multidisciplinary three credit course is designed to assist the student in developing broader knowledge, skills, values, meanings and experiences associated with basic genetics, applied genetics, and selected genetic disorders. Prerequisite: A basic human anatomy and physiology course and/or general biology or permission of faculty. Three credits.

N 599 Independent Study – Self Study in Advanced Practice Issues

This course is designed to provide a basis for study of the evolving status of professional nursing by exploring issues and identifying trends that influence the profession. Prerequisite: Admission to the graduate program or permission of faculty. One to three credits.

N 600 Data, Information and Knowledge

Data, Information, and Knowledge is a self-paced course that focuses on the nature of data, the concepts of information and knowledge, principles of relationship database systems, operations, information systems, data sets, data standards and classification systems. Three credits.

N 604 Evaluation of Teaching and Learning in Nursing Education

This course focuses on the design and development of evaluation, measurement and testing in nursing education, both in the classroom and clinical setting. The course will also include evaluation experiences to develop and analyze tests and the use of technology. Prerequisite: N 502. Three credits.

N 605 Trends, Issues and Technology in Nursing Education

This course provides an opportunity to acquire knowledge, skills, values, meanings and experiences for using technologies to enhance the teaching-learning process including using media, multimedia and technology-rich and online learning environments. Emphasis is also on the examination of the trends and issues that relevance to present and future of nursing education. Pre/corequisite: N 502. Three credits.

N 610 Informatics and the Health Care Delivery System

This is a cohort course designed to introduce students to the field of health care informatics. It focuses on the history of health care informatics, basic informatics concepts, and the information management applications. Three credits.

N 620 Information System Life Cycle

This course focuses on a structured approach to the selection and implementation of an information system. This structured approach is called the information system development life cycle. The course incorporates five modules corresponding to the five phases of the life cycle: planning, analysis, design, implementation and evaluation. Four credits.

N 632 Roles and Issues in Advanced Practice Management

This course assists the student in developing an advanced practice role and analyzing factors influencing advanced practice. Topics include leadership in primary care; business, finance and economic aspects of primary care management; influence of health law; and quality improvement through the use of clinical practice guidelines, outcomes and evaluation. Pre/corequisites: Admission to the graduate program or permission of the faculty, N 532. Three credits.

N 634 Sexuality and Health: The Human Perspective

This course is designed to provide the health professional with a basis for understanding the sociocultural, biological, and behavioral aspects of human sexuality across the life span, with an emphasis on assessment, risk reduction counseling, and prevention education. Prerequisite: Admission to the graduate program or permission of the faculty. Three credits.

N 670 Complex Pharmacotherapy

The intent of this course is to assist students in developing advanced knowledge, skills, values, meanings and experiences in prescribing and monitoring multiple pharmacological agents safely and appropriately in vulnerable populations with complex disease states. Emphasis will be on the role of potentiation, synergy, antagonism and pharmacokinetics in complex, multi-drug therapy. In addition, pharmacogenomics theory will be explored as a basis for drug selection. Analysis of simulated and actual case studies will be used to enhance experiential learning. Pre/corequisite: Admission to the graduate program or permission of the faculty, NP 570. One credit.

N 671 Clinical Research Proposal

This course is intended to assist the DNP student in developing a clinically significant proposal to conduct a small yet clinically significant research project in primary care. Prerequisites: Admission to the graduate program or permission of the faculty, N 521. Three credits.

N 699 Independent Study – Practicum in Advanced Practice Issues

This course is designed to provide a basis for advanced study of the evolving status of advanced practice nursing by exploring issues and identifying trends that influence the profession. The course includes participation in clinical or research process. Prerequisite: Admission to the graduate program. One and one-half to three credits clinical.

N 710 Grant Writing

This course will explore funding sources for research projects designed to enhance nursing knowledge of advanced clinical practice. Students will learn skills necessary for development and construction of a research and/or project grant. Prerequisite: Admission to the graduate program or permission of the faculty. One credit.

N 760 Complex Diagnostics in Primary Care

This course is designed to assist the student in developing knowledge, skills, values, and meanings associated with complex diagnostics used in primary care. Prerequisites: Admission to the graduate program or permission of the faculty, NP 580. Three credits.

N 780 Advanced Practice Synthesis

This course is designed as an integrative clinical course that encompasses all of the student's previous education in this degree track and allows students to focus on and develop expertise in their chosen practice specialty. Prerequisites: Admission to the graduate program or permission of the faculty, NP 680 or PMH 695. Three credits.

N 799 Clinical Research Implementation

This course is intended to assist the DNP student in implementing his/her previously approved research proposal. Individual tutorial assistance is given to students in the research project stage of their program. Ongoing enrollment in N 799 until successful completion of the research project is required, for a minimum of two credits. Students may enroll in N 799 for two credits per semester until research proposal is completed. Prerequisite: Admission to the graduate program or permission of the faculty, N 671. Two credits.

NURSING – Family Nurse Practitioner (FNP)**NP 570 Applied Pharmacology and Therapeutics**

The intent of this course is to assist the students in developing knowledge, skills, values, meanings and experiences in prescribing pharmacological agents safely and appropriately for clients who experience commonly occurring illness or for those who need preventive therapy. Emphasis is on the safe and appropriate prescription of pharmacotherapy, client education and monitoring practices regarding the therapy and assessment of therapeutic outcomes. Pre/corequisites: Admission to the graduate program or permission of the faculty; N 550 and N 560. Includes a clinical/lab fee. Two credits.

NPLB 580 Advanced Assessment Lab

This course is designed to enhance the nurse practitioner student's development of knowledge, skills, values, meanings and experiences associated with advanced health assessment and promotion across the life span, focusing on skills and experiences. The course includes the practice of health assessment and promotion within the family framework of infant, child, adolescent, adult, elderly, male and female. Special attention is given to promoting health and preventing and detecting disease in communities that are culturally diverse, medically underserved, rural and urban. Prerequisite: N 580. Includes a clinical/lab fee. One credit.

NP 610 Primary Care of Families I

This course is designed to assist the student in developing advanced, specialized nursing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of adult men and women and the elderly. Students will explore the common chronic health and illness patterns presented by adults accessing care in an ambulatory care setting. Students will exercise critical thinking in the analysis of health patterns. Students will synthesize therapeutic nursing interventions including pharmacotherapeutics, appropriate diagnostic tests and health promotion strategies, to positively manage health in partnership with clients. Prerequisites: All graduate-level core courses; NP 570. Three credits.

NP 620 Primary Care of Families II

This course is designed to assist the student in developing advanced, specialized nursing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of adult men and women and the elderly. Students will explore the common acute health and illness patterns presented by adults accessing care in an ambulatory care setting. Students will exercise critical thinking in the analysis of health patterns. Students will synthesize therapeutic nursing interventions including pharmacotherapeutics, appropriate diagnostic tests and health promotion strategies, to positively manage health in partnership with clients. Prerequisites: All graduate-level core courses; NP 570. Three credits.

NP 630 Primary Care of Women and Children

This course is designed to assist the student in developing advanced, specialized nursing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of women and children. Students will explore the common health and illness patterns presented by women and children accessing care in an ambulatory care setting. Students will exercise critical thinking in the analysis of health patterns. Students will synthesize therapeutic nursing interventions including pharmacotherapeutics, appropriate diagnostic tests and health promotion strategies, to positively manage health in partnership with clients. Prerequisites: All graduate-level core courses; NP 570. Three credits.

NPLB 650 Primary Care of Families Practicum I

This course provides the opportunity for the student to apply advanced, specialized nursing knowledge, skills, values, meanings and experiences (KSVME) gained in the core courses and NP 610, NP 620, or NP 630. Practicum experiences assist in the development of the family nurse practitioner (FNP) role while under the mentorship of experienced nurse practitioner preceptors. This clinical course is designed to give the FNP student the opportunity to implement critical thinking strategies and demonstrate specialized therapeutic nursing interventions (TNI), including health promotion, in the direct care of clients across the lifespan with a focus on adults and elderly. Students will be expected to analyze and influence health patterns and to synthesize health promotion strategies and specialized TNI in partnership with clients, to positively influence health. A variety of health care settings will be available for the application of students' KSVME. Prerequisites: All graduate-level core courses and NP 610 or NP 620. Includes a clinical/lab fee. Three credits.

NPLB 670 Primary Care of Families Practicum II

This course provides the opportunity for the student to apply advanced, specialized nursing knowledge, skills, values, meanings and experiences (KSVME) gained in the core courses and Primary Care of Families II. Practicum experiences assist in the development of the family nurse practitioner (FNP) role while under the mentorship of experienced nurse practitioner preceptors. This clinical course is designed to give the FNP student the opportunity to implement critical thinking strategies and demonstrate specialized therapeutic nursing interventions (TNI), including health promotion, in the direct care of clients across the lifespan. Students will be expected to analyze, and influence health patterns and to synthesize health promotion strategies and specialized TNI, in partnership with clients, to positively influence health. A variety of health care settings will be available for the application of students' KSVME. Prerequisites: All graduate-level core courses and NP 610 or NP 620. Includes a clinical/lab fee. Three credits.

NPLB 680 Primary Care Advanced Practicum

This course provides the opportunity for the student to apply advanced, specialized nursing knowledge, skills, values, meanings and experiences (KSVME) gained in the core courses and NP 610, NP 620, and NP 630. Practicum experiences assist in the development of the family nurse practitioner (FNP) role while under the mentorship of experienced nurse practitioner preceptors. This clinical course is designed to give the FNP student the opportunity to implement critical thinking strategies and demonstrate specialized therapeutic nursing interventions (TNI), including health promotion, in the direct care of clients across the lifespan. Students will be expected to analyze and influence health patterns and to synthesize health promotion strategies and specialized TNI in partnership with clients, to positively influence health. A variety of health care settings will be available for the application of students' KSVME. Includes a clinical/lab fee. Prerequisites: All graduate-level core courses and NPLB 650 or NPLB 670. Four credits.

NP 690 Advanced Nurse Practitioner Role Development

The intent of this course is to assist the student in acquiring and applying the knowledge, skills, values, meanings and experiences of the professional behaviors associated with the practice of the advanced nurse practitioner. Prerequisite: Must be taken in the final spring semester or study. One credit.

NURSING – Health Systems Management (HSM)

HSM 640 Health Systems Management I

This course assists students with the knowledge, skills, values, meaning and experiences associated with evaluation of health care outcomes for populations. The focus is on evidence-based interventions, clinical integration, and collaboration across a continuum of care and continuous improvement in health care. Prerequisites: Completion of all graduate core courses. Three credits.

HSML 650 Health Systems Management Practicum I

This course assists the student in applying the knowledge, skills, values, meanings and experiences associated with management of care for a population of the student's choice. The clinical focus is on assessing, planning, and intervening in this population. Analyzing the infrastructure to support care and collaboration with the interdisciplinary team to provide continuity and improvement of care are integrated in the course. Pre/corequisite: HSM 640. Includes a clinical/lab fee. Three credits.

HSM 660 Health Systems Management II

This course assists students with advanced knowledge, skills, values, meanings and experiences associated with managing care for populations. The focus is on the role of care manager; legislation, ethical and legal dimensions of care management, data collection and analysis, and use of outcomes data to improve patient care. Prerequisites: HSM 640 and HSML 650. Three credits.

HSML 670 Management Practicum II

This course assists the student in applying the knowledge, skills, values, meanings and experiences associated with management of health care for a population. The clinical focus is on development of a health management plan for the population and evaluation of outcome indicators. Interdisciplinary collaboration to provide continuity and improvement of care for the population is emphasized. Pre/corequisite: HSM 660. Includes a clinical/lab fee. Three credits.

NURSING – Nurse-Midwifery (NM)

NM 610 Primary Care of Women

The intent of this course is to assist the student in developing and applying knowledge, skills, values, meanings and experiences related to the nurse-midwifery management process in the primary care of women. Prerequisites: Completion of all graduate-level core courses. NMLB 610 clinical must be taken concurrently. Includes a clinical/lab fee. Two credits.

NM 620 Comprehensive Antepartal Care

The intent of this course is to assist the student in developing and applying knowledge, skills, values, meanings and experiences of the nurse-midwifery management process in the comprehensive antepartal care of women. Prerequisites: Completion of all graduate-level core courses. NMLB 620 clinical must be taken concurrently. Includes a clinical/lab fee. Two credits.

NMLB 630 Nurse-Midwifery Practicum

The intent of this course is to assist the student in applying knowledge, skills, values, meanings and experiences of the nurse-midwifery management process in primary care and comprehensive antepartal care. Pre/corequisites: Completion of NM 610 and NM 620. Three credits for clinical. Includes a clinical/lab fee.

NM 640 Comprehensive Perinatal Care

The intent of this course is to assist the student in developing knowledge, skills, values, meanings and experiences of the nurse-midwifery management process in comprehensive perinatal care. Pre/corequisite: Completion of NM 630. NMLB 640 clinical must be taken concurrently. Includes a clinical/lab fee. Two credits.

NMLB 650 Integrated Nurse-Midwifery Practicum

The intent of this course is to assist the student to integrate and influence the knowledge, skills, values, meanings and experiences related to nurse-midwifery management process in primary care, comprehensive antepartal care and comprehensive perinatal care. Pre/corequisites: Completion of NM 630 and NM 640 and enrollment in NM 660. Includes a clinical/lab fee. Six credits.

NM 660 Advanced Nurse-Midwifery Role Development

The intent of this course is to assist the student in acquiring and applying the knowledge, skills, values, meanings and experiences of the professional behaviors associated with the practice of advanced/specialized nursing. Prerequisites: Completion of NM 650. One credit.

NURSING – Psychiatric Mental-Health (PMH)**PMH 640 Psychiatric Mental-Health Nursing: Individual Therapy Theories**

The course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of individuals with common psychiatric conditions. Select theories regarding health promotion strategies, assessment, prevention, intervention and rehabilitation through individual therapy modalities will provide a foundation for care. *The Diagnostics & Statistical Manual of Mental Disorders: 4th ed. (DSM-IV-TR)* criteria will be incorporated. Prerequisite: Admission to the graduate program. Three credits.

PMHL 650 Psychiatric Mental-Health Nursing: Individual Therapy Practicum

This course allows the student to apply knowledge, skills, values, meanings and experiences to positively influence the lived experience of individuals with common psychiatric mental health conditions through the modality of individual therapy in community based and hospital settings. Select theoretical frameworks guide therapy to include *The Diagnostics & Statistical Manual of Mental Disorders: 4th ed. (DSM-IV-TR)* criteria. Pre/corequisite: PMH 640. 180 clinical hours. Includes a clinical/lab fee. Three credits.

PMH 660 Psychiatric Mental-Health Nursing: Group, Family and Community Theory

The course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of families, groups, and community mental-health of individuals with common psychiatric conditions and disordered interpersonal skills. Select theories will provide a foundation for family and group dynamics, assessment, and intervention. Pre/corequisites: PMH 640 and PMH 650. Three credits.

PMHL 670 Psychiatric Mental-Health Nursing: Group, Family and Community Practicum

This course provides opportunity for the student to apply knowledge, skills, values, meanings and experiences to positively influence the lived experience of individuals with common psychiatric mental health conditions and disordered interpersonal skills through the modality of family, group and community mental health principles. Select theoretical frameworks will guide therapy approaches. Pre/corequisite: PMH 660. 180 clinical hours. Includes a clinical/lab fee. Three credits.

PMH 685 Geriatric Psychiatric Mental-Health Nursing Theory

The course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of a geriatric population experiencing concurrent mental illness and/or cognitive decline. Health promotion strategies, assessment measures, through individual, family and group therapy modalities with this population will be discussed. Prerequisite: Admission to the graduate program or permission of the instructor. Three credits.

PMH 686 Child and Adolescent Psychiatric Mental-Health Nursing Theory

The course is designed to assist the student in developing knowledge, skills, values, meanings and experiences associated with positively influencing the lived health experience of children and adolescents experiencing concurrent mental illness and/or cognitive decline. Health promotion strategies, assessment measures, through individual, family and group therapy modalities with this population will be discussed. *The Diagnostics & Statistical Manual of Mental Disorders, 4th ed. (DSM-IV-TR)* criteria will be incorporated. Prerequisite: Admission to the graduate program or permission of the instructor. Three credits.

PMHL 692 Elective Practicum in Psychiatric Mental-Health Nursing

This course allows the student to apply knowledge, skills, values, meanings and experiences to positively influence the lived experience of a population of their choice with common psychiatric mental health conditions. Individual, family and group psychiatric therapies will be applied across the lifespan in populations such as geriatric, adolescent and child, or persons with substance abuse problems in both inpatient and outpatient settings. Pre/corequisites: PMH 640 and PMH 660. 140 clinical hours. Includes a lab/clinical fee. Two credits.

PMH 695 Advanced Nurse Practitioner Practicum in Psychiatric Mental-Health Nursing

The didactic and clinical components of this course are designed to provide the psychiatric mental-health nurse practitioner (PMHNP) with knowledge, skills, values, meanings and experiences beyond the MSN prepared psychiatric mental-health clinical nurse specialist role in relation to differential diagnosis and psychotropic medication management (prescriptive authority). The PMHNP role includes assessment, health promotion, diagnosis, planning, medication management and ongoing evaluation of psychiatric mental-health clients across the lifespan in a variety of settings to include primary care sites. Pharmacotherapy principles and psychosocial factors that influence patients' compliance with, and response to, drug therapy is addressed. The 120-hour practicum applies differential diagnosis and medication management principles to acute and chronic psychiatric clients and fulfills the post-graduate psychiatric clinical nurse specialist clinical requirement for the American Nurses Credentialing Certification PMHNP exam. Pre/corequisites: N 550, N 560, N 580 or permission of the instructor. PMHL 695 clinical must be taken concurrently. Includes a clinical/lab fee. Four credits.

OCCUPATIONAL THERAPY (OT)**OT 522 Foundations of Occupational Therapy**

This course introduces students to the profession of occupational therapy through discussion of its history, philosophy, values, methods and broad theories of occupational performance. Students learn to describe therapists' roles with different populations in a variety of settings, use professional terminology and analyze occupational development across the life span. Prerequisite: Division permission. Four credits.

OT 523 Therapeutic Occupation

This course covers the information and methods of using occupations as therapeutic modalities. Using a hands-on approach, students learn how to use their observation and interview skills to collect information from clients. They also learn how to apply principles and methods of activity analysis and synthesis to design customized plans intended to help clients perform occupations when they cannot be performed in the familiar way. Students apply theoretical principles and research-based methods to instruct others effectively. Prerequisite: Division permission. Two credits.

OT 524 Occupation and Movement

This course addresses the basic anatomical, kinesiological and physiological structures and how they influence movement and occupational performance. Basic concepts of biomechanics are introduced as well as how environmental/contextual factors may influence activity and motion. Throughout the course, an emphasis is placed on how human structure supports human function across environmental contexts and activity. Age and culture are also explored. In addition to the foundational elements of movement and how they influence occupation, students also examine how various conditions (orthopedic, neurological and medical) may impact movement and ultimately participation in a variety of occupations. Prerequisite: Division permission. Four credits.

OT 525 Fundamentals of Scholarly Inquiry

This course introduces basic concepts of clinical reasoning, evidence-based practice and critical analysis. It gives students an introduction to interview and observation through the lens of qualitative research methods. The course is presented through in-class lecture and discussion, practical exercises and readings. Corequisites: OT 523 and division permission. Three credits.

OT 526 Case Groups**OT 536****OT 626**

Case groups are central to the problem-based and social learning methods of the curriculum. Prerequisite for OT 526: Division permission. Prerequisite for OT 536: OT 526 and division permission. Prerequisite for OT 626: OT 536 and division permission. One credit.

OT 527 Community Application with Individuals

Students with the help of regional coordinators, and faculty members will help an individual in their home community explore their occupational performance. In order to accomplish this task, students will integrate content and skills gained through courses in the first semester of the SUDOT program. Each student will utilize appropriate skills such as observation, interviewing, biomechanical evaluation (active range of motion and strength) and activity analysis. Additionally, students will demonstrate an understanding of the role of occupational therapy by designing client-centered, occupation-based activities. Prerequisite: Division permission. Two credits.

OT 530 Scholarly Inquiry: Program Development and Evaluation

This course gives students a foundation in applied research and advanced statistical concepts that are applicable to Occupational Therapy. Inquiry methods are applied to management systems and theories, and analysis of health and occupations. It is presented through in-class lecture and discussion, practical exercises and computer laboratory sessions. Prerequisites: OT 620 and division permission. Two credits.

OT 532 Neuro-Occupation

Neuro-occupation emphasizes the dynamic interactions between the central nervous system and occupation. Upon completion of this course, students have an understanding of the neuro-anatomical, neuro-chemical and neuro-physiological concepts that influence daily performance areas. Through clinical cases, review of research, lecture, and clinical application sessions students learn about neurological conditions and the interplay between neurological functions, occupational performance and meaningfulness. Prerequisites: OT 524 and division permission. Five credits.

OT 534 Analysis of Health and Occupation

This course is based on the philosophy and research about the relationship between occupations and health. Students discuss theories and models that link occupation to individual and public health and apply research about making health changes to occupational therapy and to their own lives. Prerequisites: OT 522 and division permission. Two credits.

OT 535 Management and Systems in Occupational Therapy Settings

This course is designed to introduce, examine, and develop skills necessary for health care management and administration. An emphasis is placed on concepts of systems that the occupational therapy manager may encounter on a regular basis. In addition, the role of the occupational therapy supervisor/manager emphasizes leadership, communication, budgeting, program development and evaluation, staffing, reimbursement, quality care, policy and procedure development, cost containment, current trends in health care, productivity, entrepreneurship and professional ethics. Students explore a variety of management styles and strategies used in occupational therapy settings. Students understand current regulations and policies affecting the practice of rehabilitation professionals. Prerequisites: OT 522, OT 524, OT 527 and division permission. Three credits.

OT 537 Community Application in Systems

Community application sessions integrate semester content and skills through on-site sessions in community agencies. Students and faculty evaluate systems and community-based programs that meet the diverse needs of individuals with neurological conditions. A major focus of learning and programs is the governmental, community and agency systems that impact service to individuals and groups. This course integrates content through reports and projects for the agencies that are considered capstone projects. Prerequisites: OT 527 and division permission. Corequisite: OT 536. Two credits.

OT 620 Scholarly Inquiry: Design and Analysis

This course is the opportunity to apply research techniques to the community setting. It focuses on community agencies with a particular emphasis on occupational performance and assessment. Students learn techniques for conducting a community resource assessment and health services research. Prerequisites: OT 525 and division permission. Three credits.

OT 623 Occupational Therapy in Biomechanical and Neurological Practice

This is a practice-oriented course designed to develop competencies in occupational therapy evaluation and intervention with an emphasis on adult clients with a variety of neurological, general medical and orthopedic disorders. Students explore the intervention process while utilizing a variety of models of practice. Students select and administer standardized and non-standardized assessment tools and use information for the purpose of treatment planning and determining the effectiveness of intervention strategies adopted. Students become familiar with the application of various models of practice and explore a variety of intervention strategies and activities for both the remediation of and adaptation to occupational performance deficits. In addition, the course incorporates documentation, family and caregiver support and education, environmental modifications, discharge planning and working as a member of a multidisciplinary team. Prerequisites: OT 523, OT 524 and OT 532. Corequisites: OT 624 and division permission. Four credits.

OT 624 Occupational Therapy in Mental Health Practice

This is a practice-oriented course designed to develop student competence in the occupational therapy intervention process applied to clients with mental illness. The Occupational Therapy Framework and Theories, such as the Model of Human Occupation, Functional Group and Occupational Adaptation, guide course content. Because occupational therapists work with the whole person, the content in this course can be used to help clients who have complex motor, process, communication and social interaction problems. Prerequisites: OT 523, OT 524, and OT 532. Corequisites: OT 623 and division permission. Three credits.

OT 625 Occupational Performance and Participation: Children

This practice-oriented course provides students with an overview of occupational therapy in the area of pediatrics. Emphasis is placed on the child and family in the context of environment and cultures as well as the effect of disability on occupational performance. Evaluation, intervention planning and intervention techniques from a variety of theoretical perspectives are explored. Prerequisites: OT 523, OT 524, OT 532 and division permission. Four credits.

OT 628 Level One Fieldwork

OT 638

The goal of Level One Fieldwork is to introduce students to the occupational therapy experience in the field. Students develop a basic comfort level with, and understanding of, the needs of clients. The course is designed to enrich academic course material through directed observation and participation in selected aspects of the occupational therapy practice under the supervision of qualified health care professionals. (American Occupational Therapy Association (1998) Standards for an accredited education program for the occupational therapist. *American Journal of Occupational Therapy*, p.575-582.) Prerequisites: OT 523, OT 524, OT 532 and division permission. One credit each course.

OT 630 Scholarly Inquiry: Application

This course is the program capstone course designed to give students the opportunity to expand their ability in designing methods to gather evidence for occupational therapy methods. It is presented through in-class lecture and discussion, practical exercises and computer laboratory sessions. The course focuses on the development of projects related to evidence-based practice. Prerequisite: Division permission. Three credits.

OT 631 Specialization: Occupational Therapy with Children

This is an advanced pediatric course about occupational therapy practice in specific practice areas. Advanced theories, evaluation, and intervention methods are covered. Students critique research and evidence for occupational therapy effectiveness in pediatrics. To integrate theory, evaluation, planning and implementation, students work with a child and family in the community as their final project. Prerequisites: OT 625 and division permission. Three credits.

OT 632 Specialization: Occupational Therapy with the Elderly

This course emphasizes occupational therapy intervention for elderly clients and their caregivers whose occupational performance is affected by health problems connected with aging. Since intervention is affected by the systems of service delivery, the course presents a systems approach to intervention using evidence-based strategies to maintain and improve occupational performance and participation for elders and caregivers in their communities. Prerequisites: OT 623, OT 624 and division permission. Three credits.

OT 633 Environmental Interventions

This course instructs students in the assessment and application of environmental interventions. Students learn about theories, funding and legislation, documentation and research evidence. Students learn how to collaborate with clients to select and modify environmental interventions, advocate for funding and policies supporting environmental interventions and educate clients on their use to improve their occupational performance. Prerequisites: OT 523, OT 524, OT 532, OT 623, OT 624 and division permission. Three credits.

OT 634 Policy and Advocacy

This course gives students the skills necessary to analyze federal, state, and organizational policies. Major policies that impact occupational therapy and other health professions are analyzed. Advocacy, both on behalf of clients and the profession, is explored. The course is presented in the context of the major systems with which occupational therapists interact. Prerequisites: OT 623, OT 624, OT 625 and division permission. Three credits.

OT 640 Level Two Fieldwork**OT 641**

The goal of Level II fieldwork is to develop competent, entry-level, generalist occupational therapists. It is integral to the curriculum and includes in-depth experience in delivering occupational therapy services to clients, and/or research, administration, and management of occupational therapy services. The student is exposed to a variety of clients across the lifespan and to a variety of settings. The fieldwork experience promotes clinical reasoning and reflective practice, to transmit the values and beliefs that enable ethical practice, and to develop professionalism and competence as career responsibilities. After completion of both fieldwork courses, students return to campus for workshop sessions before graduation. (American Occupational Therapy Association (1998) Standards for an accredited educational program for the occupational therapist. American Journal of Occupational Therapy, p.581-582.) Prerequisites: OT 628, OT 638 and division permission. Six credits each course.

OT 643 Elective Level Two Fieldwork

This course gives students the opportunity to experience a unique area of clinical occupational therapy. Same description and prerequisites as OT 640 and OT 641. Four to six credits.

OT 650 Independent Study in Occupational Therapy

In-depth exploration of an occupational therapy topic with a faculty advisor. Prerequisites: Permission of instructor and division permission. One to three credits.

PHARMACY (PHAR)**PHAR 501 Introduction to Pharmacy Practice**

This course orients the entering pharmacy student to the social, economic and political environments within which pharmaceutical care is currently being delivered to the patient. The role of the pharmacist in a variety of practice settings is examined. Students will participate in a three hour computer lab weekly to explore current topics in pharmacy via the Internet. Three credits.

PHAR 508 Pharmaceutics I (Calculations)

Pharmaceutics I examines the system of weights and measures and the arithmetical and mathematical expertise required for the compounding, dispensing, and utilization of drugs. Basic technical aspects of dispensing drugs and medical terminology will be discussed. Classes will consist of lecture, case presentations and drill and practice (both problem sets and computer-based). Two credits.

PHAR 512 Pharmaceutics II

Pharmaceutics II emphasizes the study of the legal, practical and scientific bases of drug products and pharmaceutical delivery systems. It presents physicochemical theories, terminology, pharmaceutical skills, and interpretation of the formulation and performance of pharmaceutical products. Prerequisite: PHAR 508. Four credits.

PHAR 513 Pharmaceutics II Laboratory

Pharmaceutics II Laboratory involves the skills and techniques required to formulate and produce pharmaceutical products. One credit.

PHAR 516 Introductory Pharmacy Practice Experience I

This is the first of five courses designed to introduce pharmacy students to the concept of pharmaceutical care for patients. In this course, students will interact with and learn from patients residing in senior housing, assisted living or skilled care facilities. One credit.

PHAR 517 Introductory Pharmacy Practice Experience II

This is the second of five courses designed to introduce pharmacy students to the concept of pharmaceutical care for patients. In this course, students will continue to interact with and learn from patients residing in senior housing, assisted living or skilled care facilities. Two credits.

PHAR 518 Patient Counseling/Communication

This course will help the pharmacy student develop effective methods for creating positive, therapeutic relationships with patients through the application of communication skills (empathy, assertiveness training, effective listening, etc.) and other behavioral interventions. The course will also focus on the organization and provision of drug information to the patient and follow-up care. This course was created to help pharmacy students develop a wide variety of communication skills and intervention strategies in order to reduce drug-related patient morbidity and mortality. Two credits.

**PHAR 523 Integrated Basic Health Sciences Module I
(Biocompounds and Biochemistry)**

Integrated Basic Health Sciences combines anatomy, physiology, biochemistry and immunology and biotechnology into one comprehensive course. Two credits.

**PHAR 524 Integrated Basic Health Sciences Module II
(Endo, Skin, Bone and Muscle)**

Integrated Basic Health Sciences combines anatomy, physiology, biochemistry and immunology and biotechnology into one comprehensive course. Two credits.

**PHAR 525 Integrated Basic Health Sciences Module III
(Nervous System)**

Integrated Basic Health Sciences combines anatomy, physiology, biochemistry and immunology and biotechnology into one comprehensive course. Two credits.

PHAR 526 Integrated Basic Health Sciences Laboratory I

Integrated Basic Health Sciences Laboratory provides laboratory experiences, which integrate anatomy, physiology, biochemistry and immunology and biotechnology. Students will conduct experiments, usually in small groups, which illustrate important concepts in the basic health sciences that are particularly relevant to pharmacists. The experiments will also show that the different basic sciences must be used at the same time to provide scientific explanations of the practice of pharmacy. One credit.

PHAR 527 Integrated Basic Health Sciences IV (Cardiovascular)

This course is the fourth in a series of six courses that integrate biochemistry, anatomy, physiology and immunology. Topics covered in PHAR 527 include the biochemistry, anatomy, physiology, and histology of the autonomic nervous system, endocrine system, blood, heart and circulatory system. Two credits.

**PHAR 528 Integrated Basic Health Sciences V
(Immunology, Respiration and Digestion)**

This course is the fifth in a series of six courses that integrate biochemistry, anatomy, physiology and immunology. Topics covered in PHAR 528 include the biochemistry, anatomy, physiology, and histology of the respiratory, digestive, urinary and reproductive systems. Two credits.

**PHAR 529 Integrated Basic Health Sciences VI
(Renal, Reproduction and Development)**

This course is the last in a series of six courses that integrate biochemistry, anatomy, physiology and immunology. In PHAR 529, students study the biochemistry, anatomy, physiology and histology of the renal and reproductive systems. Two credits.

PHAR 530 Integrated Basic Health Sciences Lab II

Integrated Basic Health Sciences Laboratory provides laboratory experiences, which integrate anatomy, physiology, biochemistry and immunology and biotechnology. Students will conduct experiments, usually in small groups, which illustrate important concepts in the basic health sciences that are particularly relevant to pharmacists. The experiments will also show that the different basic sciences must be used at the same time to provide scientific explanations of the practice of pharmacy. One credit.

PHAR 531 Psychosocial Aspects of Disease

Psychosocial Aspects of Disease presents psychological and sociological challenges and barriers induced by physical and mental illnesses and disabilities. The course emphasizes diseases and disabilities associated with psychosocial stresses and stigmas and includes skills to cope and improve emotional and spiritual well being and enhance life quality. Two credits.

PHAR 534 Essentials of Pharmacogenomics

Essentials of Pharmacogenomics focuses upon the ways in which an individual's genetic makeup influence their response to drugs, including the variable side effects that often occur in traditional courses of drug therapy. The instructors will explore the ways in which inherited factors can affect both the pharmacokinetic and pharmacodynamic properties of drugs. The course will build from the basics of genetic variability to a strong emphasis on the application of pharmacogenomics to common disease states. The course will lay the foundation for an understanding of the role pharmacogenomics will play in therapeutic decision-making based on an individual's genotype. Three credits.

PHAR 535 Service Learning I

Service learning is intended to foster a sense of community involvement by first year pharmacy students. Early exposure to service learning will make didactic instruction more relevant to civic involvement, humanistic care of patients and social awareness of unmet medical needs. Unmet medical needs include: companionship, patient care, medication-related services and screening for medical problems. One credit.

PHAR 536 Service Learning II

Service learning is intended to foster a sense of community involvement by first year pharmacy students. Early exposure to service learning will make didactic instruction more relevant to civic involvement, humanistic care of patients and social awareness of unmet medical needs. Unmet medical needs include: companionship, patient care, medication-related services and screening for medical problems. One credit.

PHAR 600 Pharmacokinetics Principles

Pharmacokinetics Principles presents the theoretical mathematical relationships and functional physiologic phenomena that comprise the quantitative basis for patient-specific and drug-specific drug dosage regimens. This course emphasizes mathematically and graphically the interpretation of the 1) rate or time course of drug absorption and elimination, and 2) extent of in vivo distribution for application to calculating the amount and frequency of drug dosage or dosage regimen. Three credits.

PHAR 601 Drug Literature Evaluation

This course addresses an area of rapid growth in all areas of pharmacy practice: assuring the intelligent and safe use of drugs through effective utilization of the clinical literature. The staggering size and varying quality of the clinical literature require that the pharmacy student develop sophisticated methods for managing the literature and critically evaluating the data that they often represent. This course will present the student with the knowledge and tools necessary to manage this area of practice. Prerequisite: PHAR 501. Two credits.

PHAR 602 Drug Literature Evaluation Laboratory

This laboratory is required for students participating in the Drug Literature Evaluation Course. It is designed to allow practical mastery of the skills introduced in the lecture portion of the course. Prerequisite: PHAR 501. One credit.

PHAR 603 Basic Principles of Pharmacology

The basic biological mechanisms of therapeutic agents used to treat diseases will be presented and discussed. Importance will be placed on basic pharmacologic principles of pharmacodynamics and cellular processes that underlie understanding a rational approach to therapeutics. Three credits.

PHAR 604 Nonprescription Products

This course addresses the rapid growth of the nonprescription market in pharmacy. Nonprescription Products is designed to assist the student in selection of nonprescription products for patients who choose to self-medicate. The course will address nonprescription drug pharmacology, adverse effects, drug-drug interaction, and drug-food interactions. Additionally, it will discuss access to products, the pharmacist's role in treatment and patient counseling and the economics of nonprescription therapy. Students must have completed the first professional year to enroll. Two credits.

PHAR 605 Outpatient Pharmacy Practice Laboratory

Outpatient Pharmacy Practice Laboratory integrates ethical and legal consideration in pharmacy practices with professional judgment and pharmaceutical and informatics knowledge and skills in simulations of the evaluation and dispensing of prescription drugs. The course will feature problem-solving and patient management cases that are focused on safe, effective prescription drug dispensing. Prerequisite: PHAR 512. One credit.

PHAR 607 Integrated Pharmaceutical Care and Science (Respiratory)

Pathophysiology and clinical presentation of common diseases of the respiratory system; chemistry, pharmacology, and kinetics of common therapeutic agents used to treat respiratory diseases; therapeutic management of patients. Prerequisites: Enrollment limited to second professional year students who have completed all core courses through the end of the fall semester. Two credits.

PHAR 608 Integrated Pharmaceutical Care and Science (Renal)

Pathophysiology and clinical presentation of common diseases of the renal system; chemistry, pharmacology, and kinetics of common therapeutic agents used to treat renal diseases; therapeutic management of patients. Prerequisites: Enrollment limited to second professional year students who have completed all core courses through the end of the fall semester. Two credits.

PHAR 614 Parenteral Therapy

Parenteral Therapy presents the pharmaceutical formulation characteristics; microbial, chemical and physical quality control; and compounding and clinical administration practices and precautions of injectable drug and nutrient therapy. This course emphasizes therapy via the intravascular, intramuscular and subcutaneous routes and briefly addresses rarer routes, such as intraarticular, intraarterial, intradermal, intraspinal, etc. Three credits.

PHAR 617 Pharmacotherapy Outcomes I

Students will participate in a one (1) credit hour overview of pharmaceutical outcomes that will serve to provide a foundational understanding of outcomes and to prepare the student for an applied discussion of how outcomes relate to patient care. One credit.

PHAR 619 Integrated Pharmaceutical Care and Science (Cardiovascular)

Pathophysiology and clinical presentation of common diseases of the cardiovascular system; chemistry, pharmacology and kinetics of common therapeutic agents used to treat cardiovascular diseases; and therapeutic management of patients. Prerequisites: Enrollment limited to second professional year students who have completed all core courses through the end of the fall semester. Four credits.

PHAR 622 Special Problems in Pharmacy

Project studies in pharmacy education, basic research or practice. Requirements for this course may include information development or review and is dependent on the instructor. Students enrolled in this course receive diverse perspectives relating to goals, training, functions, settings and opportunities in research in the pharmaceutical sciences and pharmacy practice areas. Prior instructor approval is required. Variable one, two or three credits.

PHAR 625 Medicinal Herbs

Medicinal Herbs will present students with information on plants that are or have been used as medicines or sources of medicines. We will discuss FDA regulations and the methods for preparing and using medicinal plants. Up to 40 plants will be covered in the course. The history, mechanism of action, clinical trials, in vivo and in vitro studies, known or possible drug interactions, and identification will be presented for each plant. Three credits.

PHAR 627 Clinical Research Methods/Biostatistics

Students will participate in a course integrating clinical research methods and biostatistics to foster an appreciation and understanding for conducting research, study design and development, statistical method selection, application and interpretation of research results. Three credits.

PHAR 628 Clinical Research Methods/Biostatistics Laboratory

This laboratory compliments the statistical principles discussed in PHAR 627. Students will utilize the computer laboratory and their own laptops to develop simple databases and spreadsheets for the analysis of data. In addition, they will utilize selected proprietary databases to analyze larger data sets. One credit.

PHAR 632 Applied Pharmacokinetics and Pharmacogenomics I

Applied Pharmacokinetics and Pharmacogenomics I will build on the concepts presented in PHAR 600 and complement PHAR 607, 608 and 619. It will focus on specific pharmacokinetic and pharmacogenomic issues of individual respiratory, renal and cardiovascular drugs and their clinical applications. One credit.

PHAR 634 Total Parenteral Nutrition

This elective course is offered to increase the student's knowledge of the highly complex provision of total parenteral nutrition. One and one-half credits.

PHAR 637 Medication Therapy Management

The course will focus on Medication Therapy Management (MTM) services and implementation of MTM services in community pharmacy practice. The course will review the role of pharmacy with the various healthcare insurers and the history and need for MTM services. Students will review the pros and cons for compensation for these services. Students will also develop a strategic plan for implementation of MTM services into a community pharmacy. One and one-half credits.

PHAR 638 Pharmacy Based Immunization Delivery

This elective, which is based on the American Pharmacist Association (APhA) Pharmacy-Based Immunization Delivery Certificate Program, provides comprehensive immunization education and training, including the disease states prevented, recommended child and adult immunizations and the administration of subcutaneous and intramuscular injections. Additionally, topics in pharmacy emergency preparedness such as bioterrorism agents, national strategic stockpile and opportunities for pharmacist involvement are addressed. Upon successful completion, an APhA certificate is issued which is valid for life and allows immunization administration by the pharmacist (dependent on individual state law). A fee (approximately \$150) for certification materials is required. One and one-half credits.

PHAR 640 Leadership By Design

This course is designed to permit potential pharmacy leaders the opportunity to explore leadership from three perspectives: 1) self-actualization and personal reflection, 2) critical skill development and 3) interaction with respected leaders who share a passion for greatness. One and one-half credits.

PHAR 641 Topics in Pharmaceutical Compounding

This course consists of discussions, presentations and hands-on activities related to the practice of pharmaceutical compounding. Three credits.

PHAR 647 International Healthcare

This course will cover the structure and financing of several international health care systems. A number of countries will be discussed that encompass the range of philosophies of health finance and delivery that exist in the world. Emphasis will be placed on discussion of the differences between each selected country's health care system and the U.S. system, focusing on the strengths and weaknesses of other approaches to the provision of healthcare. One and one-half credits.

PHAR 652 Introduction to Mental Health for Pharmacists

This course will examine the historical treatment of mental illness in the United States from the first state hospital in Williamsburg to reviewing the basics of pharmacology for psychiatric medications. Movie clips will be used to illustrate various mental illnesses. Students will be required to read and coordinate the class discussion of chapters in the required text. Students will also be required to do a PowerPoint presentation on a topic of their choice. Visits to the local National Alliance of the Mentally Ill chapter (NAMI) are possible. One and one-half credits.

PHAR 653 Medication Errors

The course is designed to provide health professional students with an understanding about the importance of medication error detection, reporting, evaluation and prevention. There are several causes of medication errors – there is no single cause or solution. Health care professionals need to develop and maintain an ongoing process that uncovers potential risks while promoting ways to eradicate vulnerability to error. In order to accomplish these tasks, the system needs to provide resources to monitor and evaluate errors, and to implement methods to reduce them. Human beings make errors, but a risk management system can be designed to reduce those errors. A true system of quality assurance goes beyond risk management to include the concept of continuous quality improvement. No system can eliminate errors, but using a systems approach process is one of the most effective ways to address potential problems, reduce risk and sustain improvement. One and one-half credits.

PHAR 654 Advanced Service Learning

This course will provide the opportunity for a student to be an integral participant and researcher in a community service project of their choice with guidance and approval of the instructor of record. Study and interaction with federal, state and local regulations and personnel that affect the non-profit(s) and service learning project are an integral part of this course. Meetings with board members, research and provision of service comprise the experiential component of this course. Culmination of the course will be a report, peer reviewed article and/or testimony on the level of local, state or federal committees. One and one-half credits.

PHAR 655 Introductory Pharmacy Practice Experience III

This is the third of five courses designed to introduce second year pharmacy students to the concept of pharmaceutical care for patients. In this course, students will observe pharmacists and interact with patients in a community pharmacy setting. Emphasis will be placed on over-the-counter medications. Two credits.

PHAR 695 Topics in Cardiology

This course will build upon the cardiovascular material initially presented in the Integrated Care Cardiovascular Module (PHAR 619) offered in the second year of pharmacy school. Students will be exposed to a variety of topics in cardiology that are not, or minimally, covered in the traditional pharmacy curriculum. Areas of discussion will include cardiovascular outcomes, hands on application of cardiac electrophysiology principles, cardiovascular diagnostics, surgical/non-surgical interventions for cardiovascular disease and reviews of major cardiovascular medication classes. Students will also be exposed to various services offered by a variety of health care providers at the area's regional Heart and Vascular Center at Winchester Medical Center via observation experiences and guest lectures. One and one-half credits.

PHAR 700 Integrated Pharmaceutical Care and Science (GI/Nutrition)

Pathophysiology and clinical presentation of common diseases of the GI system; chemistry, pharmacology, and kinetics of common therapeutic agents used to treat GI diseases. The nutritional management of patients is also addressed. Prerequisites: Enrollment limited to third year professional students. Two credits.

PHAR 701 Integrated Pharmaceutical Care and Science (Endo/Repro)

Pathophysiology and clinical presentation of common diseases of the endocrine and reproductive systems; chemistry, pharmacology, and kinetics of common therapeutic agents used to treat endocrine and reproductive diseases; therapeutic management of patients. Prerequisite: Enrollment limited to third year professional students. Two credits.

PHAR 703 Integrated Pharmaceutical Care and Science Laboratory I

Case studies discussion for application of high impact problems in pharmacy. The course is correlated with Integrated Pharmaceutical Care and Science. During the topics addressed within the sequenced course, students will participate in the applications laboratory for assuring application of the information in a practice context. One credit.

PHAR 704 Professional Practice Management I

This course is designed to introduce the principles of management, as applied to professional pharmacy practice. The objective is to develop managerial and marketing skills that are crucial to practicing effectively in an increasingly cost conscious health care marketplace. The course focuses on the functions of management (planning, organizing, leading, and controlling) with emphasis on the human interactions involved in operating a pharmacy practice. Three credits.

PHAR 708 Integrated Pharmaceutical Care and Science (Musculoskeletal)

Pathophysiology and clinical presentation of common diseases of the musculoskeletal system; chemistry, pharmacology and kinetics of common therapeutic agents used to treat musculoskeletal diseases; therapeutic management of patients. Prerequisite: Enrollment limited to third year professional students. Two credits.

PHAR 709 Integrated Pharmaceutical Care and Science (Hem/Onc)

Pathophysiology and clinical presentation of common neoplastic disorders and diseases of the blood and reticuloendothelial system; chemistry, pharmacology, and kinetics of common therapeutic agents used to treat blood and reticuloendothelial diseases; therapeutic management of patients. Prerequisite: Enrollment limited to third year professional students. Three credits.

PHAR 711 Integrated Pharmaceutical Care and Science Laboratory II

Case studies discussion for application of high impact problems in pharmacy. The course is correlated with Integrated Pharmaceutical Care and Science. During the topics addressed within the sequenced course, students will participate in the applications laboratory for assuring application of the information in a practice context. One credit.

PHAR 712 Professional Practice Management II

This course is designed to introduce the principles of management, as applied to professional pharmacy practice in specific practice settings. Students will be permitted to choose from one of three selectives that will provide students an opportunity to specialize in one area of pharmacy management. The three areas are: entrepreneurship, institutional pharmacy and pharmacoeconomics. Three credits.

PHAR 713 Sterile Compounding Laboratory

This course provides direct technical training in aseptic transfer, administration, and quality assurance procedures for sterile drugs and nutrients; and interpretation and explanation of the practical operation and functional mechanism of self-care diagnostic products and health assessment devices operated by licensed health care practitioners. One credit.

PHAR 717 Pharmacy Law

This course focuses on the federal and state laws governing the practice of pharmacy. The course will emphasize introductory legal concepts that encompass the rights and responsibilities of the pharmacist and a practical application of these concepts. Three credits.

PHAR 718 Integrated Pharmaceutical Care and Science (Infectious Diseases)

Pathophysiology and clinical presentation of common infectious diseases; chemistry, pharmacology and kinetics of common therapeutic agents used to treat infectious disease; therapeutic management of patients. Three credits.

PHAR 720 Integrated Pharmaceutical Care and Science (Neuro/Psychiatry)

Pathophysiology and clinical presentation of common psychiatric and neurosensory diseases; chemistry, pharmacology and kinetics of common therapeutic agents used to treat psychiatric and neurosensory diseases; therapeutic management of patients. Three credits.

PHAR 723 Patient Assessment I

Patient Assessment I is the first part of a two-part course in which students will be introduced to assessment skills pertaining to the practice of pharmacy and to provide pharmaceutical care. The course allows for the application and refinement of interpersonal verbal and written skills through case studies and in the setting of patient encounters. This course is correlated with the Integrated Pharmaceutical Care and Science (ICARE) courses. Students will participate in an applications laboratory to refine critical thinking, practice and demonstrate skills and develop written communication skills necessary for the practice of pharmacy. Two credits.

PHAR 724 Patient Assessment II

Patient Assessment II is part two of a two-part course in which students will be introduced to assessment skills pertaining to the practice of pharmacy and pharmaceutical care. The course allows for the application and refinement of interpersonal verbal and written skills through case studies in the setting of patient encounters. This course is correlated with the Integrated Pharmaceutical Care and Science (ICARE) courses. As a part of this course, students will participate in an applications laboratory to refine critical thinking, practice and demonstrate skills and develop written communication skills necessary for the practice of pharmacy. Two credits.

PHAR 725 Introductory Pharmacy Practice Experience IV

This is the fourth of five courses designed to introduce third year pharmacy students to the concept of pharmaceutical care for patients. In this course, students will observe pharmacists and fourth year pharmacy students at institutional/acute care and ambulatory/outpatient settings. One credit.

PHAR 733 Applied Pharmacokinetics and Pharmacogenomics II

Applied Pharmacokinetics and Pharmacogenomics II will build on the concepts presented in PHAR 600 and complement PHAR 701, 709 and 718. It will focus on specific pharmacokinetic and pharmacogenomic issues of individual antibiotics, hormonal and oncology drugs and their clinical applications. One credit.

PHAR 734 Applied Pharmacokinetics and Pharmacogenomics III

Applied Pharmacokinetics and Pharmacogenomics III will build on the concepts presented in PHAR 600 and complement PHAR 700, 708 and 720. It will focus on specific pharmacokinetic and pharmacogenomic issues of individual gastrointestinal and nutritional, musculoskeletal, neurosensory and psychiatric drugs and their clinical applications. One credit.

PHAR 735 Introductory Pharmacy Practice Experience V

This is the final course in the IPPE series designed to introduce pharmacy students to the concept of pharmaceutical care for patients. In this course, students will continue to observe pharmacists and fourth-year pharmacy students at institutional/acute care and ambulatory/outpatient settings. One credit.

PHAR 800 Ambulatory Care Clerkship

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. This clerkship will give the student experience in an ambulatory care practice setting. Five credits.

PHAR 801 Community Clinical Clerkship

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. This clerkship will give the student experience in a community clinical practice setting. Five credits.

PHAR 802 Medication Information Clerkship

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. This clerkship will give the student experience in a drug information practice setting. Five credits.

PHAR 803 In-Patient Acute Care Clerkship

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. This clerkship will give the student experience in an in-patient acute care practice setting. Five credits.

PHAR 804 Institutional Clerkship

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. This clerkship will give the student experience in an institutional (hospital) practice setting. Five credits.

PHAR 806 Selective Clerkship II

Students will be assigned a pharmacist preceptor for a five-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Five credits.

PHAR 807A Selective Clerkship I:A

Students will be assigned a pharmacist preceptor for a two-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Two credits.

PHAR 807B Selective Clerkship I:B

Students will be assigned a pharmacist preceptor for a three-week experience in the pharmacist's practice site. Each week of experience shall contain an average of forty hours of practice. The student will perform pharmacist functions while under the supervision of the faculty (full-time, part-time or affiliate) member. Three credits.

PHAR 821 Non-Traditional Acute Care Clerkship

This course will develop the student's skills in providing pharmaceutical care to patients in acute care practice settings. Students may complete this course via a self-directed method of education under the mentorship of an experienced health care practitioner at a practice site or a directed rotation experience in a structured learning environment. Four credits.

PHAR 822 Non-Traditional Ambulatory Care Clerkship

This course will develop the student's skills in providing pharmaceutical care to patients or customers in ambulatory care practice settings. Students may complete this course via a self-directed method of education under the mentorship of an experienced health care practitioner at a practice site or a directed rotation experience in a structured learning environment. Four credits.

PHAR 823 Non-Traditional Drug Information Clerkship

This course will develop the student's skills in providing pharmaceutical care to patients or customers by emphasizing the retrieval, evaluation and communication of health-related information in the management of medication therapy. Students may complete this course via a self-directed method of education under the mentorship of an experienced health care practitioner at a practice site or a directed rotation experience in a structured learning environment. Students may complete this course via a self-directed method of education under the mentorship of an experienced health care practitioner at a practice site or a directed rotation experience in a structured learning environment. Four credits.

PHAR 825 Pharmacy Practicum

The senior practicum project is designed to provide the entry-level, fourth-year pharmacy student with exposure to outcomes-based issues to help uncover many questions remaining in the practice of pharmacy and healthcare. The practicum project should address where the majority of these students will work, the changing face of pharmacy practice, and give them the opportunity to positively influence pharmacy practice. The project is not for the purpose of creating researchers, but instead competent practitioners capable of rendering pharmaceutical care. The practicum project is to be complementary to and separate from the existing advanced pharmacy practice experience during the fourth year of pharmacy school so students should not expect to fulfill its requirements during rotations so as to prevent them from successfully completing the objectives developed by the director of experiential education for the rotation site at which the research is conducted. One credit.

PHYSICAL THERAPY (PT)**PT 603 Gross Human Anatomy I****PT 604 Gross Human Anatomy II**

This two semester course series will provide an in-depth study of human anatomy with an emphasis on normal and pathological form and function as they relate to health care practice. Using a regional approach, emphasis will be placed on the relationship between nervous, muscle, vascular and connective tissue structures and joints. Course material is delivered through a combination of lecture, demonstration, human cadaver dissection, clinical case studies, and radiologic analysis. In addition, surface anatomy laboratory sessions will be utilized to assure that the student has the ability to transfer classroom knowledge to the clinical setting. Upon completion of this course, the student will have acquired the ability to identify, describe and discuss the morphology and function of various body regions. Four credits each.

PT 608 Examination and Intervention

This course is designed to facilitate the student's understanding of the theoretical basis for and the practical application of examination techniques and basic physical therapy intervention skills. This course will guide the student's development of physical therapy evaluation skills via performance and interpretation of specific tests and measures. In addition, the student will develop an understanding of the process by which results of the physical examination are interpreted and an intervention plan of care is developed. This course includes lecture and laboratory time in order to facilitate didactic and psychomotor learning that are essential to the development of sound clinical decision making skills. Upon completion of this course, the student will be able to accurately perform a physical therapy examination, develop a general impression and design a general plan of care. Three credits.

PT 610 Musculoskeletal System I

This course provides an in-depth study of the evaluation and physical management of musculoskeletal dysfunction of the upper extremities of the human body. Students learn to integrate concepts of various approaches to physical therapy management with specific examination and intervention techniques to address both surgical and non-surgical musculoskeletal conditions of the extremities. Various orthopedic manual physical therapy approaches are introduced. The student will also learn to design appropriate therapeutic exercise interventions and use of therapeutic modalities for various musculoskeletal conditions of the extremities. PT 609, Examination and Intervention, is a prerequisite of this course and students are expected to apply all techniques and principles from the course to the material in PT 610. Three credits.

PT 623 Histophysiological Aspects of Movement I

This course is designed to provide you with an introduction to Human Histology and Physiology with a major emphasis placed on general cellular physiology, neurophysiology, muscle physiology, epithelium and connective tissue. This provides the basic underpinnings of structure, function, and mechanisms that allow the body to move. Emphasis is on the four basic tissue types and their alterations during the aging process and following immobilization, acute activity, and chronic training. Lecture, laboratory, case study, journal articles, readings and discussion are utilized for teaching purposes. Three credits.

PT 624 Histophysiological Aspects of Movement II

This course is designed to provide the student with an introduction to general organ system human histology and physiology with a major emphasis placed on the cardiovascular, pulmonary, renal, endocrine and gastrointestinal systems. This will provide the basic underpinnings of structure, function, and mechanisms that allow the body to move. Along with the overview, discussion of the system alterations during the aging process, following prolonged immobilization, with acute activity and following chronic training will be included. Lecture, laboratory, case study, journal articles, readings, and discussion are utilized for teaching purposes. Three credits.

PT 643 Evidence-Based Practice: Introduction to Research Design

This course is designed to provide a thorough analysis of selected research that allows students to develop an understanding of adequate clinical research design, appropriate analytical procedures and the nature of research criticism. Research designs across the spectrum of research will be explored in relation to clinical research for physical therapists. Students will analyze data using SPSS computer software, participate in discussions regarding selected research designs, and critically review selected professional literature. Three credits.

PT 653 Professional Issues I

This course introduces the student to the profession of physical therapy. The professional association, the documents that frame and guide the profession, and basic regulations of the profession are presented. Students will begin to develop their understanding of and ability to teach, speak publicly and participate effectively in groups. Case presentations allow the student direct involvement with patients and other health care providers to bring the field of physical therapy and its place in the health care system to life. The students study medical terminology independently as a part of this course and a computerized test is taken to assure 90 percent competency level. Three credits.

PT	656	Clinical Practicum I
PT	751	Clinical Practicum II
PT	752	Clinical Practicum III

The focus of these courses is to facilitate the application and integration of didactic information from the classroom setting into clinical practice by expanding clinical problem solving. Each course consists of one day per week clinical experience for a period of 10 weeks. The Clinical Practicum integrate the knowledge, skills and attitudes acquired to date in the classroom and in the labs, to application in the clinical environment. New concepts and skills specific to the clinical experience are incorporated. Under the direct supervision of a practicing physical therapist, the experience is designed to allow the student "hands-on" learning. Additionally, adherence to and a progression of behaviors as identified in The PT-Specific Generic Abilities are expected. The four Clinical Practicum experiences should be varied among IP; OP; Rehab, Peds (and other), as clinical contracts allow. Acquisition of experience with "The Guide" and its terminology is expected. One credit per semester.

PT	672	Functional Neuroanatomy
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The purpose of this course is to introduce students to how the nervous system functions to control behavior. Based on this understanding, students will later treat individuals with functional limitations due to neurologic damage. This course does not deal with treatment techniques per se, but addresses the structure of the nervous system and how it functions under normal and pathological conditions. Course material is organized by functional system. Within each system, effectors are considered along with input and out connections. Particular attention is paid to the central pathway for each functional system and the clinical aspects of damage to the system. Three credits.

PT	681	Medical Foundations I
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This course is designed to facilitate the student's ability to practice as a member of an integrated medical team. Students will gain basic knowledge of commonly used medical terminology. Students will also develop an understanding of the theoretical basis for and practical application of basic medical documentation skills. Finally, students will learn basic skills to screen for non-musculoskeletal medical conditions. One credit.

PT	684	Medical Foundations II
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This course consists of two modules. The Medical Imaging module consists of an overview of the most common imaging techniques (Radiography, Computed Axial Tomography, Magnetic Resonance Imaging and Pulsed Doppler) including indications and contraindications, as well as strengths and weaknesses of each. The Surgical Procedures module is an overview of those surgeries that most frequently require pre- and post-operative surgical care. Emphasis is placed on classic surgical approaches and commonly used modifications, and the implications for physical therapy care. One credit.

PT	685	Psychosocial Aspects of Physical Therapy Practice I
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This course is designed to provide the student with learning experiences focused on psychological and social factors relevant to physical therapy practice. This course emphasizes psychological and social dynamics that occur during patient/client-practitioner interactions. Effective interaction strategies including educational strategies will be discussed and patient-practitioner interactions across the various life stages and cultures is emphasized. Students also examine issues of self-management and self-awareness. Two credits.

PT	703	Pediatric Physical Therapy
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This course is designed to provide learning opportunities in the area of early growth and development and pediatric physical therapy. It covers primarily development and neurologic problems of childhood that are addressed by physical therapy. Orthopedic and cardiopulmonary issues not covered in the orthopedic and cardiopulmonary courses will also be addressed. Pharmacological and surgical interventions commonly seen with the pediatric patient will be covered either in the cases, readings or lecture component of this class. Students develop a working knowledge of diagnostic categories, PT problems, evaluation tools and intervention strategies and techniques that are common to pediatric practice. Lecture/discussion, video analysis, labs and patient demonstrations will serve as the primary in-class approaches to learning. Students evaluate and treat a child for 6 weeks in the treatment labs and are responsible for initial evaluation, problem identification, establishment of defensible goals and treatment programs. Four credits.

PT 709 Musculoskeletal System II

This course provides an in-depth study of the evaluation and physical management of musculoskeletal dysfunction of the lower extremities of the human body. Students learn to integrate concepts of various approaches to physical therapy management with specific examination and intervention techniques to address both surgical and non-surgical musculoskeletal conditions of the extremities. Various orthopedic manual physical therapy approaches are introduced. The students will also learn to design appropriate therapeutic exercise interventions and use of therapeutic modalities for various musculoskeletal conditions of the extremities. PT 609, Examination and Intervention, and PT 610, Musculoskeletal System I, are prerequisites of this course and students are expected to apply all techniques and principles from those courses to the material in PT 709. Three credits.

PT 710 Musculoskeletal System III

This course provides an in-depth study of the evaluation and physical management of musculoskeletal conditions of the spine and pelvic girdle. Format is a combination of lecture and laboratory experiences with an emphasis on the development of psychomotor skills. Various orthopedic manual physical therapy approaches are covered as are common orthopedic surgical procedures for the spine. Students learn to integrate concepts of various approaches to physical therapy management with specific examination and intervention techniques to address both surgical and non-surgical musculoskeletal conditions. Screening procedures to rule out contributions to clinical presentations from other body systems are included. The principles of worksite injury prevention and industrial rehabilitation are introduced in this course. Attention is given to the application of principles of musculoskeletal system rehabilitation across the lifespan and across clinical settings. Prerequisites: PT 609, PT 610 and PT 709. Four credits.

PT 721 Pathology

This course is designed to acquaint the student to the basic principles in the study of disease. Included is an overview of pathological processes (cell injury, inflammation, neoplasia, etc.), followed by organ system pathology (cardiovascular; respiratory; nervous system, etc.), and multi-system pathology (nutritional, endocrine, wound healing, diabetes, trauma, etc.). A sign/symptom, pathogenesis, pathophysiological approach will be accentuated. Emphasis is also placed on diseases treated by the physical therapist. Pathology serves as an underpinning of mechanisms that lead to impairments, functional limitations and disabilities that are treated in the clinic. Three credits.

PT 732 Professional Issues II

This is the second of three lecture/discussion based courses designed to facilitate the student's understanding of the ethical, professional, and leadership issues encountered in physical therapy practice, administration and management. The student will be introduced to the process used in identifying and responding to ethical and/or professional issues in a variety of practice settings. It will also include an introduction to standards of legal and ethical practice and conduct. Other current physical therapy topics of interest will also be discussed and analyzed through this course. Students will also gain a basic understanding of organization, fiscal policy, reimbursement and communication issues pertinent to the administration and management of physical therapy practice. Two credits.

PT 744 Prosthetics and Orthotics

This course introduces the physical therapy examination and interventions for persons with limb differences and the principles and methods of fabrication of prosthetics and orthotics. The student will become familiar with a variety of spinal and lower extremity orthotics, and lower extremity prosthetics. Pathological gait patterns of persons with lower limb amputations are presented, with potential prosthetics and individual causes of deviations analyzed and remedied. Volunteers from the local community will be part of class lab as available. Demonstration of Developing and Advanced Level Generic Abilities is expected. Two credits.

PT 753 Clinical Internship I

The focus of the course is the application and demonstration of problem solving skills in the clinical environment. This first full-time clinical affiliation determines each students' readiness to continue on the program, identifies (potential) problems, and reaffirms career choice. The focus of the course is the application and demonstration of problem solving skills in the clinical environment. Three credits.

PT	761	Clinical Conference I
PT	762	Clinical Conference II
PT	861	Clinical Conference III

Clinical conference is designed to facilitate application and integration of didactic information from the classroom into clinical practice by expanding clinical problem solving through clinical cases. A short formal presentation covering selected background information is followed by a presentation of the case research supporting the efficacy of treatment and validity of evaluation tools is presented. Dialogue between students, faculty, and clinicians is encouraged both in large and small group format. Each case is posted on the PT home page of the SUNET and archived for student reference and study. One credit.

PT	771	Adult Neurotherapeutics
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This course, together with Functional Neuroanatomy (PT 672) and the related clinical education experiences, will prepare the entry-level practitioner to evaluate and treat adult clients with movement dysfunction due to neurologic damage. The ability to evaluate and treat this patient population is based on understanding in three content areas: 1) theoretical models of how human movement is controlled under normal and pathological conditions, 2) knowledge of the etiology, clinical presentation, and natural history of recovery from neurological damage, and 3) techniques to examine and intervene in the most common movement impairments and functional limitations due to neurologic damage. This course also provides extensive laboratory experience examining and intervening with real and simulated patients with movement dysfunction due to neurologic damage. Four credits.

PT	781	Gait Analysis and Biomechanics
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This is an introductory course in Gait Analysis and Biomechanics. The purpose of this course is to acquaint the student with the force motion relationship within the musculoskeletal system and the various techniques used to understand these relationships. Special lab activities will be utilized to enhance understanding of the gait cycle and biomechanics in sports and exercise. Course format will utilize an active learning approach which will include laboratory and self-directed learning activities. Students will use resources in the classroom, clinical/professional community and library in addition to the texts and syllabus to meet course requirements. Three credits.

PT	790	Therapeutic Exercise
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This course covers the principles of therapeutic exercise prescription for the physical therapy patient/client. Theory and practice of the following exercise domains are covered including stretching, resisted exercise, plyometrics, endurance training and balance and proprioceptive training. Appropriate exercise dosage, including frequency, intensity, volume and duration will be covered in each domain. One credit.

PT	792	Physical Agents
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This course covers the physical modalities, electrodiagnostic techniques, hydrotherapy, massage, myofascial release, trigger point therapy, and acupuncture/acustimulation. The modalities include thermal modalities, traction, continuous passive ROM, electrical stimulation, biofeedback, and electrodiagnostic techniques. The indications, contraindications, physiologic basis for therapeutic effect, and known efficacy are discussed in the lecture/discussion component. Students will experience the effect of each modality and develop psychomotor skills in the application of each modality during the laboratory portion of the course. Therapeutic implications of findings derived from electrodiagnostic testing are explored through the use of case studies and clinical examples. Students will develop skills in integrating the use of physical modalities into clinical practice through the use of case studies, class discussion, and computer-based interactive programs. Three credits.

PT	805	Gross Human Anatomy III
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This course provides an opportunity to integrate basic anatomy, physiology, examination, and intervention education with clinical experience. Working in groups, students present the anatomy, examination and intervention of a patient case selected to represent the most common "syndromes" seen in a typical PT clinic. One credit.

PT	821	Cardiovascular and Pulmonary Physical Therapy
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This course is designed to provide the student with a general foundation in examination, evaluation, diagnosis, prognosis, interventions, and outcomes for persons with cardiovascular or pulmonary disorders. Application of specific tests and measures their reliability and validity, and efficacy of treatment interventions will be covered. Clinical reasoning and decisions are fostered through multiple case studies. Cardiovascular and pulmonary risk factor reduction and wellness/health promotion will also be covered. Three credits.

PT 831 Professional Issues III

This is the third of three courses of lecture and discussion of ethical and professional issues encountered in medicine and physical therapy. Legal and ethical issues covered in the second course will be used as a basis for many of the issues covered in this course. In this course, the student will be introduced to the business and managerial aspects of physical therapy practice and these issues will be further explored in PT 832. Issues related to career choices and job acquisition will also be addressed in this course. Two credits.

PT 832 Establishing a Physical Therapy Practice/Direct Access

This course will introduce the student to the fundamentals of establishing a physical therapy practice. It will include small business basics, understanding business structures, understanding the reimbursement issues facing PT's in private practice, analyzing a financial plan, developing policies and procedures for the practice and understanding risk management. The necessary philosophy of the expanded role as a diagnostician and the marketing strategies required to promote and advocate for the autonomous model of care will be discussed. The peer reviewed and published clinical competencies that define primary contact physical therapy and how these skills will help to provide health care consumers safe and effective management of neuromusculoskeletal impairments and functional limitations will be presented. Three credits.

PT 854 Clinical Internship II**PT 855 Clinical Internship III**

The emphasis of these learning experiences is to progression to a level of an functioning as an entry-level clinician. The amount of assistance required by the clinical preceptor will gradually decrease as the student progresses within each clinical internship. Clinical internships are expected to be across a variety of settings with the expectation of entry-level competence at the completion of each internship. Six credits each.

PT 881 Advanced Topics

This course is designed to offer the student a variety of opportunities to expand their evaluation and treatment skills. Students are required to integrate advanced problem-solving skills with a wide range of treatment approaches. One credit.

PT 892 Medical Foundations III

This course is designed as two modules. The first module is designed to acquaint the student to management of wounds and burns. The student will gain a general foundation in examination, evaluation, diagnosis, prognosis, interventions and outcomes for persons with various types of wounds or burns. Application of specific tests measures their reliability and validity, and efficacy of treatment interventions will be covered. Clinical reasoning and decisions will be fostered through multiple case studies. Wound risk factor reduction will also be covered. The Pharmacology module is designed to explain the basic pharmaco-therapeutics and surveys those medications most commonly prescribed for patients seen by the physical therapist. Two credits.

PT 897 Comprehensive Examination

This course is a comprehensive examination of the physical therapy curriculum identifying the students' preparedness to enter their full-time clinical rotations utilizing best practice (evidence-based practice) in the areas of 1) musculoskeletal care, 2) adult and pediatric neurological care, 3) integumentary care, 4) prosthetics and orthotics care and 5) cardiopulmonary care. One credit.

PT 898 Evidence-Based Practice: Advanced Critical Analysis of the Literature and Implementing Research

This course is the culminating research experience in the DPT program. In this course, students will develop a written manuscript through an interactive process with peers, the instructor and any clinical or faculty advisors involved in the project. To do this, students will either: 1) critically analyze the physical therapy literature that will be done through class discussions and through the development of a systematic review in an area of interest within the physical therapy field; or 2) analyze and interpret clinically relevant data that has been collected prior to this semester and will present this primary analysis to the faculty and students. Deserving groups are strongly encouraged to present their project at the next available Combined Sections Meeting of the American Physical Therapy Association and/or the Annual Virginia Physical Therapy Association Meeting and/or to submit the manuscript for publication. Three credits.

PHYSICAL THERAPY — TRANSITIONAL DOCTORATE (T-DPT)

PT 835 Incorporating Evidence into your Daily Practice

This course is designed to acquaint the PT with utilizing the literature to defend their examination and treatment interventions with their specific patients. Database searching for evidence utilizing the Problem, Intervention, Comparison Group and Outcome (PICO) method will be utilized. Basic Case Report format will be covered to assist with capstone project. Two credits.

PT 836 Medical Imaging in Rehabilitation

Interpretation of medical imaging tests is an integral part in determining a physical therapy diagnosis. This course explores the various types of imaging tests (ultrasound, MRI, radiograph, bone scan, and others), the biophysical properties of the tests, interpreting test results and linking these results to physical therapy diagnosis. One credit.

PT 838 Physical Therapy Practice in a Direct Access Setting

This course provides the student with health care law and ethical issues facing physical therapists. Specific topics include professional responsibility and ethics, legal aspects of documentation; medical malpractice, informed consent; sexual conduct and sexual harassment; how to prepare for a deposition; contract law; and legal and ethical issues in managed care/direct access environment. Two credits.

PT 839 Utilizing the Guide to PT Practice in your Daily Practice

The *Guide to PT Practice* is an organizational tool that is helping to focus PT's rights, roles and responsibilities in treating patients. Utilization of the *Guide to PT Practice*, the patient/client management model for reliable and valid examination methods, evaluation, diagnosis, prognosis, intervention, length of visits/stay and outcome measures are covered. The framework developed should assist the therapist in their daily practice and may assist the profession in data collection for clinical research. One credit.

PT 842 Medical Screening/Differential Diagnosis

With continued autonomy in practice, patient/clients often have diseases/disorders that require referral to other health care practitioners. This course is designed to acquaint the PT to medical screening used for differentiating medical diseases/disorders that might mimic signs/symptoms of musculoskeletal impairments. Introduction to systems review process and identification of clinical problems requiring referral and/or collaborative approach. Medical emergencies will also be covered. Focus on advanced clinical judgment and decision making. Two credits.

PT 847 Emerging Clinical Practice

Utilizing the *Guide to PT Practice* (or other classification systems currently in PT), the patient-client model is examined along with the disablement model, clinical reasoning, current terminology, cultural competence, gender issues for patients with impairments in the four practice areas (three cases will be developed in each of the following areas musculoskeletal, neuromuscular; cardiovascular and pulmonary and integumentary systems, plus one case will be developed covering "wellness"). Utilizing a systematic approach of systems review, examination, evaluation, diagnosis, the patient/clients prognosis, interventions, discharge and outcomes measures are determined. Current medical management from imaging techniques, pharmacology and surgical procedures will be incorporated into a case based study of multiple patient types. There will be one required case regarding "wellness" and three cases of the students choice (either in one area or "generalist" any combination of three cases) in any of the four practice areas. Other case reports will have varying amounts of information delivered with more interaction required by the student. Following completion of the four case reports, a capstone project requiring completion of a case report or case study on a patient/client found will be developed and submitted in a specific format in the area of emphasis of the student's choice. Three credits.

PT 849 Professionalism – The Doctoring Profession

This on-site course is designed to acquaint the PT with the rights, roles and responsibilities of being part of a doctoring profession. Patient advocacy, professional leadership and lifelong learning will help to enable your process of empowerment in this profession. A central theme of the course is developing practitioners who view their doctoral education as a route to engaged professionalism, that is, commitment to the demonstration of attributes that enhance the practice of physical therapy at both the individual and societal levels. Two credits.

PT 860 Advanced Human Anatomy

This on-site course is designed to provide the practicing physical therapist with an in-depth review of the functional anatomy and biomechanics of the human spine and extremities. This review will include examination of the nervous, vascular, muscle, connective tissue and joint structures of each region. Course material will be delivered through a combination of lecture, examination of cadaveric prosections and radiographs and video analysis. Two credits.

PT 885 Vestibular Rehabilitation

Vestibular rehabilitation consists of exercises to manage the disequilibrium and dizziness associated with peripheral vestibular pathology. The symptom of dizziness is one of the top three reasons why individuals over the age of 65 seek medical attention. These patients may be effectively treated with vestibular techniques administered by a physical therapist. The purpose of this course is to review the anatomy and physiology of the vestibule-cochlear system and then to cover this system's physical assessment and rehabilitation. One credit.

PT 886 Advanced Manual Therapy

Mobilization/manipulation has been defined in the *Guide to Physical Therapist Practice* as a manual therapy technique comprising a continuum of skilled passive movements to the joints and/or related soft tissue that are applied at various speeds and amplitudes, including a small-amplitude/high-velocity therapeutic movement. This course covers the history of manipulation in physical therapy, its legislation in therapy practice acts and the research on its effectiveness in physical therapy examination and intervention. One credit.

PT 887 Women's Health Issues in PT

The purpose of this course is for the student to acquire an understanding of the complex issues that must be considered when developing comprehensive physical therapy management programs for female clients. The student will review the unique female anatomic, physiologic and musculoskeletal changes that occur throughout the life cycle. The student will learn how to incorporate these concepts into the physical therapy examination of a female client with musculoskeletal dysfunction. Special consideration will be given to the following topics: pelvic floor dysfunction, urinary incontinence, pelvic pain and peri-partum musculoskeletal dysfunction — conditions which are unique to or more common in women. Upon completion of the course, the student will be able to incorporate gender issues into their management programs and will be able to design interventions to address the unique female dysfunctions listed above. Finally, the student will obtain the skills necessary to begin to develop and market a women's health practice. One credit.

PT 899 Pharmacology in Physical Medicine

This course provides an excellent overview of pharmacokinetics, drug types, uses, drug legislation and adverse reactions specific to patient participation in physical therapy. Two credits.

PHYSICIAN ASSISTANT STUDIES (PA)**PA 503 Anatomy for Physician Assistants I**

This course is designed to provide students with a working knowledge of the major anatomical regions and structures of the body. Emphasis will be placed upon the relationships of components within a specific region as well as topographical and functional anatomy as it relates to physical examination skills and clinical applications. Students will have the opportunity to apply anatomical knowledge through the use of case studies and cadaver laboratory experiences. Three credits.

PA 504 Medical Physiology and Genetics

An overview of physiological processes that influence the human organism at the molecular, cellular, organ and systemic levels. Includes a discussion of normal function and focuses on how normal physiology impacts upon a patient's health and well-being. A case study approach is used to assist students in the application of fundamental principles to clinical situations and to begin the process of understanding dysfunction and pathology likely to be encountered in the clinical setting. Three credits.

PA 505 Anatomy for Physician Assistants II

The second of a two-part sequence designed to provide students with a working knowledge of the major anatomical regions and structures of the body. Emphasis will be placed upon the relationships of components within a specific region as well as topographical and functional anatomy as it relates to physical examination skills and clinical applications. Students will have the opportunity to apply anatomical knowledge through the use of case studies and cadaver laboratory experiences. Three credits.

PA 510 Physician Assistant and Health Care Dynamics

An overview of the history and philosophy of the physician assistant profession. This course includes a review of current professional issues relevant to the PA profession as well as issues that may impact the profession in the future. Also includes introduction to issues and systems related to the delivery of health care in the United States such as health care settings, health care costs and reimbursement issues, the evaluation of health care quality, an overview of health care provider roles, and a focus on the delivery of health care via a team approach. Additionally, there is a healthcare law module. Two credits.

PA 512 Principles of Epidemiology, Research and Statistics

A presentation of the methods of research and their application to clinical research in clinical practice. More specifically, it presents a useful knowledge and understanding of the basic language, logic and methods of research design and statistical analysis. It prepares students to critically read published reports of clinical research and identify strengths and weaknesses as well as prepare students for their capstone experience of developing and implementing a scholarly project. An introduction to the concepts of epidemiology is also included. Three credits.

PA 514 Principles of Interviewing and Patient Interactions

An introduction to the art of patient and family/practitioner communication and effective interviewing for the purpose of establishing a health database and follow-up care. Skills are developed through structured laboratory exercises. This course provides an overview of the medical record as well as development of writing and organizational skills for medical record keeping and oral presentation skills. Two credits.

PA 516 History Taking and Patient Evaluation

The development of the knowledge and skills required to competently take a medical history and perform a physical examination, recognize normal and abnormal findings, and record the findings in the medical record. Four credits.

PA 518 Diagnostic and Therapeutic Skills

An introduction to the use and interpretation of commonly used diagnostic tools including laboratory studies, radiographic procedures and electrocardiography. The laboratory component focuses on the development of diagnostic and therapeutic skills including administration of medications, basic surgical skills and commonly performed clinical procedures. Five credits.

PA 522 Clinical Medicine I

An intensive study of human diseases and disorders from the perspectives of epidemiology, etiology, clinical manifestations, progression, therapy and prognosis. Emphasis is on diseases common to primary care practices and the development of a differential diagnosis and plan based upon the patient's clinical presentation. Five credits.

PA 524 Emergency Medicine and Surgery

An intensive study of the conditions presenting to the emergency department and those that require surgical intervention. Emphasis is on the evaluation and treatment of patient conditions that are common to community hospital settings. Three credits.

PA 540 Clinical Pharmacology

A study of the general principles of pharmacology. Information presented includes drug classification and mechanisms of action, pharmacologic activity, pharmacokinetic information, adverse effects, drug interactions, and cautions with use of the drug class or drug in specific patient populations. When appropriate, information on alternative medicines and over-the-counter medicines are included with specific drug classes. Clinical Pharmacology is designed to give students background information necessary for the rational use of drugs for the diagnosis, prevention and treatment of disease. Four credits.

PA 580 Obstetrics, Gynecology and Pediatrics

An intensive study of the concepts related to the evaluation and care of women during the stages of pregnancy through the postpartum period as well as diseases and disorders which are frequently encountered in a primary care pediatric practice. Includes preventive care principles and procedures related to women's health, children and adolescents. Also includes study of the diseases and disorders specifically related to the female reproductive tract. Three credits.

PA 582 Behavioral Medicine

A study of the concepts and practices related to evaluation and management of psychiatric diseases and conditions as well as behavioral issues which impact upon the health and well-being of patients. Concepts of development and behavior in relation to mental health are also discussed. Two credits.

PA 599 Independent Study

A course designed for students needing or desiring additional in-depth study on a topic or topics selected in conjunction with a faculty advisor. One to three credits (variable).

PA 610 Humanities for the PA Profession

A review of sociologic and humanitarian issues related to the art of medicine including medical ethics, patient experiences of loss, cultural issues, holistic and alternative care and the experience of medicine through literature and art. The course will include an emphasis on the personal development of the PA practitioner. Three credits.

PA 612 Health Promotion and Disease Prevention Strategies

An introduction to the basic concepts of health promotion and disease prevention and the development of strategies to affect healthy lifestyle changes in the individual and community. An investigation of community resources is also included. Students are required to develop and implement an individual health prescription or community service/education project. Two credits.

PA 620 Pediatric Clinical Practicum

Required clinical practicum that provides supervised inpatient and ambulatory follow-up clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for six weeks. Three credits.

PA 622 Emergency Medicine Clinical Practicum

Required clinical practicum that provides supervised inpatient and ambulatory follow-up clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for six weeks. Three credits.

PA 624 Internal Medicine Clinical Practicum

Required clinical practicum that provides supervised inpatient and ambulatory follow-up clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for six weeks. Three credits.

PA 626 Family Medicine Clinical Practicum

Required clinical practicum that provides supervised clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for six weeks. Three credits.

PA 628 Surgery Clinical Practicum

Required surgical practicum that provides supervised inpatient and ambulatory follow-up clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for six weeks. Three credits.

PA 630 Elective Clinical Experience

Elective clinical practicum that provides supervised clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for four weeks. Two credits.

PA 632 OB/GYN Clinical Practicum

Required clinical practicum that provides supervised clinical experiences for physician assistant students. Students demonstrate the ability to integrate knowledge and skills in the evaluation and treatment of patients and their families. Emphasis is also placed on assimilation of the physician assistant professional role. Practicum: 40 hours per week for two weeks. One credit.

PA 640 Clinical Therapeutics

A study of the general principles of pharmacotherapeutics including appropriate selection, dosing and monitoring. The rational use of drugs for the diagnosis, prevention and treatment of disease is presented in lecture and case study format. Two credits.

PA 642 Clinical Medicine II

Continuation of an intensive study of human diseases and disorders from the perspectives of epidemiology, etiology, clinical manifestations, progression, therapy and prognosis. Emphasis is on diseases common to primary care practices and the development of a differential diagnosis and plan based upon the patient's clinical presentation. This course focuses more on integration of prior learning through clinical problem-solving exercises and application of evidence based medicine principles. Also includes instruction on the special issues related to the geriatric population. Three credits.

PA 650 Community Preceptorship

Final clinical experience designed to provide physician assistant students the opportunity to fully integrate and apply in clinical practice the relevant and advanced concepts from the discipline's studies. This is a ten-week experience in a primary care setting. Practicum: 40 hours per week for 10 weeks. Six credits.

PA 660 Scholarly Project I

Students develop and implement a scholarly project related to their professional goals. The project is negotiated between the student and the student's advisor. One credit.

PA 662 Scholarly Project II and Capstone

Students will develop and implement a scholarly project related to his/her professional goals. The project is negotiated between the student and the student's advisor. Continuation of Scholarly Project I. Student will present and defend the project. Student will demonstrate clinical competence through a summative evaluation. Three credits.

PSYCHOLOGY — GRADUATE PROFESSIONAL (PSYP)**PSYP 510 Advanced Human Growth and Development**

This course provides a means for teachers and prospective teachers to improve their effectiveness in the classroom, and for supervisors to aid in the strengthening of professional development in teachers. It brings the discipline of educational psychology to the educator along with the summary of research findings that assist in developing a more reflective teacher. Three credits.

PUBLIC ADMINISTRATION (PAD)**PAD 501 Public Administration and Management**

A course designed to develop the student's knowledge of public administration by providing an overview of those issues and skills necessary for the professional management of organizations in a political or non-profit environment. Three credits.

PAD 502 Organizational Theory

A course designed to assist the student of public administration in understanding those core concepts and propositions developed to explain and predict organizational outcomes. Three credits.

PAD 503 Public Personnel Administration

This course is to introduce students of public administration to the objectives, context and techniques of public personnel management and provide them with the knowledge and skills necessary to be effective public personnel managers. Three credits.

PAD 504 Public Administration Ethics

This course provides the graduate student of public administration with instruction necessary for an understanding of ethical considerations and approaches leading to the resolution of ethical issues in the public sector workplace. Three credits.

READING (RDG)**RDG 523 Foundations of Reading Instruction**

An overview of curriculum and instruction in elementary school reading programs, techniques and materials used in reading instruction, and individual differences in the needs of pupils. Three credits.

RDG 524 Analysis and Remedial Techniques in Reading

The course emphasizes the diagnosis of reading disabilities, the uses of standardized and informal diagnostic testing, report writing, interpretation of research and application to reading problems, and the selection and evaluation of materials used for remediation. Prerequisite: Permission of advisor. Three credits.

RDG 530 Clinical Diagnosis and Treatment of Reading Difficulties

A supervised clinic in which the student is required to diagnose the needs of individual children. Emphasis is placed on the remediation and treatment of the diagnosed reading difficulties. Prerequisite: Permission of advisor. Three credits.

RDG 533 Reading in the Content Area

A study of the teaching strategies necessary for developing basic skills in reading in the content areas. Focus on improving student achievement in content disciplines by the incorporation of various approaches in the teaching of reading is discussed. Three credits.

RDG 535 Language Development

The language development of children from birth through the elementary school years is discussed. Consideration is given to instructional strategies that focus on language acquisition and its relationship to reading and the communicative arts of spelling, writing and speaking. Three credits.

RDG 602 Organization and Supervision of the Reading Program

Study of school organization of programs and the role of the reading specialist, administrator, and supervisor in planning, developing, administering/supervising and evaluating the reading program in elementary, middle and secondary schools. Three credits.

RDG 680 Graduate Reading Seminar

This capstone course requires advanced graduate students to recall, reflect, and report their views on the traditional and current fields of Reading/Literacy Education. The course is designed to unify and consolidate important strands of the MSED: Reading Specialist Concentration developed throughout the program. Course assignments include leadership responsibilities, a research paper and a portfolio. Prerequisite: Permission of advisor. Three credits.

RESEARCH STUDIES (RST)

RST 671 Using Educational Measurement and Statistics

This course serves as an introductory course for research in education. This course concentrates on the design and development, including validity and reliability, of objective-based, criterion-referenced and norm-referenced tests for use in research. It also includes evaluation experiences to analyze and compare a variety of assessments available for measuring student attitude and cognitive ability. Concepts from statistics introduced as they are needed to understand and interpret the data being examined. Three credits.

RST 672 Outcomes Assessment and Statistical Applications in Organizations

This course offers students an introduction to using tests, assessments, and other measurement tools to make organizational decisions. It is designed to encourage students to think critically about their use and efficacy and to place these practices in the context of demands for organizational effectiveness by stakeholder constituencies. Three credits.

RST 675 Scholarly Writing and Publication

The course is designed to expand learners' understanding of scholarly activity, its various manifestations, and the distinctions among these forms. This course will allow learners to gain exposure to a variety of forms of scholarly work, the skills required to engage in these forms of scholarship, and to engage in practical applications of these forms of scholarly work. Three credits.

RST 678 Action Research I

Action Research I will develop the applied research skills of education practitioners, preparing them to engage in critical self-reflection, critique of their work in particular social settings, and improve practice in those settings using systematic inquiry and taking into account issues of social justice, ethical practice and empowerment. Basic research models, methodologies, analytical practices and the application of findings will be coupled with synthesis of the literature. Topical emphases includes collaborative and participant forms of research, problem-centered inquiry, social justice and empowerment perspectives and research for social change. The identification and definition of a problem appropriate to action research and the selection of appropriate research methods for individual action research projects results from participation in the course. Three credits.

RST 679 Action Research II

Building upon the action research proposal developed in RST 678, this course consists of the implementation of the research project, the collection and analysis of data, and conclusion-drawing based on this data analysis. Both a written and oral presentation of this project required. The seminar provides the opportunity to practice the collaborative engagement that characterizes action research, meeting to discuss ongoing projects, offering guidance and perspective in analysis and building recommendations, and in the writing of the paper. Three credits.

RST 681 Locating and Interpreting Research Literature for Educators

The first of a sequence of three online seminars. Locating and Interpreting Research Literature provides students the skills and tools necessary for locating, interpreting and describing research literature relevant to educational research topics. Students also complete activities in interpreting and describing examples of published research. One credit.

RST 682 Evaluating Research Literature for Educators

The second of a sequence of three online seminars. Evaluating Research Literature provides students the skills and tools in evaluating and analyzing research literature relevant to educational research topics. By comparing published research studies, students gain an understanding of competing and corroborating research methods and conclusions. In this seminar, students identify a topic of interest and begin collecting literature to support the topic. Students draft an initial literature review based on the topic. One credit.

RST 683 Writing a Review of the Literature for Educators

The third of a sequence of three online seminars. RST 683, Writing a Review of the Literature, is intended to follow and build upon RST 681 and RST 682. The students continue to collect, critique and organize research literature. The students construct an initial review of the literature that would feasibly support an action research project proposal, practicum proposal or dissertation proposal. One credit.

RST 699 Thesis

Individual research and study of issues appropriate to degree field or endorsement, under direction of members of the faculty. Oral proposal and thesis defenses are required. Prerequisites: EDU 680, satisfactory completion of 21 hours of degree program and required tests (see admissions criteria). One to six credits.

RST 761 Introduction to Research Methods I

Experiences focus on appropriate models of research that can be applied in the educational setting. The basis for research, the methods of quality research and appropriate designation of research and analysis procedures investigated. It also concentrates on the organization and analysis of data used for the decision-making process. One and one-half credits.

RST 762 Introduction to Research Methods II

Deeper understanding of specific forms of qualitative and quantitative research methods and opportunities to critically examine the relative efficacy of each offered to students. Specifically, studies are analyzed and critiqued to ensure students understand the strengths and weaknesses of each methodology. Prerequisite: RST 761. One and one-half credits.

RST 771 Quantitative Research – Proposal

Applied Research Projects are designed to assist students in developing the skills necessary for designing, conducting and reporting educational research. Students focus their research topic on one of the major elements contained in a formal dissertation. The quantitative proposal focuses on the planning of a research project based on the literature review outcomes and designed to conduct a quantitative pilot research study approved by the faculty. The project is designed to provide experience for the student in planning research. Prerequisites: RST 761, RST 762, and RST 775. One and one-half credits.

RST 772 Quantitative Research – Pilot

Applied Research Projects are designed to assist students in developing the skills necessary for designing, conducting and reporting educational research. Students focus their research topic on one of the major elements contained in a formal dissertation. The quantitative pilot focuses on the conduct of a pilot study that applies the design of research completed in RST 771. This research project is a quantitative pilot research study approved by the faculty. The project is designed to provide experience for the student in conducting research. Prerequisites: RST 761, RST 762 and RST 771. One and one-half credits.

RST 773 Qualitative Research – Proposal

Applied Research Projects are designed to assist students in developing the skills necessary for designing, conducting and reporting educational research. Students focus their research topic on one of the major elements contained in a formal dissertation. The qualitative proposal focuses on the planning of a research project based on the literature review outcomes and designed to conduct a qualitative pilot research study approved by the faculty. The project is designed to provide experience for the student in planning research. Prerequisites: RST 761 and RST 762. One and one-half credits.

RST 774 Qualitative Research – Pilot

Applied Research Projects are designed to assist students in developing the skills necessary for designing, conducting and reporting educational research. Students focus their research topic on one of the major elements contained in a formal dissertation. The qualitative pilot focuses on the conduct of a pilot study that applies the design of research completed in RST 773. This research project is a qualitative pilot research study approved by the faculty. The project is designed to provide experience for the student in conducting research. Prerequisites: RST 761, RST 762 and RST 773. One and one-half credits.

RST 775 Statistics for Social Research

This is an advanced course in statistical analysis procedures. It includes sampling procedures and quantitative statistics analysis procedures, including ANOVA, ANCOVE, regression analysis and other higher level statistical procedures. It also teaches the proper non-parametric procedures needed to conduct studies that do not satisfy the requirements of the normal distribution. Emphasis placed on the application of computer programs designed to perform more complex statistical analysis. Instruction included for the proper interpretation of results obtained from computer analysis. Three credits.

RST 776 Advanced Multivariate Statistical Analysis

This is a course in the analysis of complex research data used in educational decision-making. The content of the course includes some of common analysis procedures necessary to incorporate the investigation of several different variables in one analysis. RST 776 includes the use of SPSS, Excel and other data organization and analysis software for the complex data processing that is involved in the multivariate analysis procedures. This course provides the analysis procedures needed for the successful completion of the dissertation. Prerequisite: RST 775 or its equivalent. Three credits.

RST 777 Advanced Quantitative Methods Lab

This course is designed to prepare students to conduct a quantitative analysis in preparation to conduct a study to be used in the preparation of the dissertation. Examples of the types of statistics analysis that are part of the independent study include Multivariate Analysis of Variance, Analysis of Covariance, Bivariate Correlation, Multiple Regression, etc. The types of statistics procedures included are determined by the type of research being conducted by the individual. All of the procedures are from both RST 775 and RST 776. Because this is an independent study course, the level of statistical analysis is determined by the design of the study. One credit.

RST 778 Advanced Qualitative Research Methods

this is a lab-type course to be taken in conjunction with RST 776 and focuses on particular advanced qualitative research methods as appropriate to a student's dissertation research design. The purpose is to allow students to gain more in-depth knowledge in specialized methods that may not be as generally applicable as those methods explored in RST 775 and RST 776. One credit.

RST 782 Advanced Social Science Methods for Doctoral Research

Course for research at the doctoral level. Experience focus on appropriate research methodology in doctoral concentrations in the EdD and DProf programs. The student learns complex models of research that can be applied in the professional settings. The computer is used, focusing on Internet experience to search the existing literature. Individuals prepare proposals for doctoral dissertation. Two credits.

RST 799 Dissertation

Individual tutorial assistance is given to students in the dissertation stage of their program. Ongoing enrollment in RST 799 until successful completion of the dissertation is required, for a minimum of 15 credits. Students may enroll in RST 799 for credit, ranging from one to five credits per term. This is a pass-fail course. Prerequisites: admission to doctoral program, passing of comprehensive examinations, and permission of advisor. One to five credits.

SPECIAL EDUCATION (SED)**SED 533 Language Acquisition and Reading Methods**

This course is designed to develop skills that impart a thorough understanding of the complex nature of language acquisition and reading for all learners. Candidates will become aware of the developmental processes of language and study the sequential phases of language development. This course will assist these candidates in understanding the use of reading and writing and related topics as a vehicle for learning by those with special needs. Three credits.

SED 565 Foundations/Legal/Medical Aspects of Special Education

This course serves as an introductory course for students seeking endorsements necessary to teach special education preK-12. It is designed to increase knowledge and develop skills involving the foundations, legal and medical aspects of special education. The course reviews the history of special education and the current processes for providing services from early childhood through transition to adulthood. Students will also learn characteristics and educational approaches with an emphasis on teaching students included in each of the 14 IDEA categories of characteristic exceptionalities. Students will also be given an overview of assessment procedures, curriculum development, behavior management strategies and service delivery models, such as inclusion and collaboration. Three credits.

SED 567 Special Education Instruction, Behavior Management and Assessment

This course provides an overview and examines the foundational factors of instruction, assessment and evaluation related to best special education practices for applying and synthesizing these factors related to the realm of a special education program. This course is designed to prepare individuals with knowledge and skills to effectively manage and promote prosocial skills of students who present challenging behaviors. Specific focus will be aimed at an understanding and application of classroom and behavior management techniques along with individual intervention strategies. Prerequisites: SED 533, SED 565 and SED 571 or permission from instructor: Three credits.

SED 569 Collaborative and Consultative Strategies

Consultation and Collaboration provides professionals in special education and related fields with the knowledge and skill development necessary to coordinate service delivery with related service providers, general educators, and other professionals in collaborative work environments. This course provides skill development in case management for the special education instructor: Three credits.

SED 571 Characteristics of Students with Disabilities

This course provides an overview of the characteristics of students with learning disabilities, mental retardation, development delay, autism, traumatic brain injury, multiple disabilities and other health impairments relative to age, level of severity and developmental differences manifested in cognitive, linguistic, physical, psychomotor and social/emotional functioning who are accessing the general PreK-12 curriculum. A balance of realistic and pragmatic issues in theory research, historical perspectives and environment influences will be included. Three credits.

SED 573 Curriculum, Instruction and Service Delivery

This course is designed to provide participants with skills in planning, developing and implementing programs for diverse learners. The course addresses classroom organization, development and implementation of individual educational programs [IEPs] group instruction, curriculum strategies and adaptations for teaching content area materials to students with diverse backgrounds and abilities. Prerequisites: SED 533, SED 565, SED 571 and SED 567 or permission from instructor: Three credits.

SED 575 Transitions for Students with Disabilities

This course examines the problems, trends, and procedures used to prepare students and work with families to provide successful student transition throughout the educational experience to include postsecondary training, career development, life skills, community experiences and resources, self-advocacy and self-determination, guardianship and legal considerations. Three credits.

SCHOOL REFORM CERTIFICATE (SRC/SRCC)

SRC/SRCC 535 A Framework for School Reform

Many forces serve as catalysts for school reform. This course examines some of the social, economic, political and educational foundations behind these forces. Through a series of high school-based case studies, course participants will explore the changing face of school reform in the 21st century as well as examine its effects on schools, teachers and students. Three credits.

SRC/SRCC 536 Planning, Executing and Sustaining Reform Initiatives

A school's reform practices must take into account all stakeholders and student populations and require a thorough examination of school culture. Through a series of high school-based case studies, this course will help participants understand how to establish a vision for their school that will influence school culture and ensure inclusion as they embark on new initiatives. Three credits.

SRC/SRCC 537 Creating Effective Learning Environments for Technology Integration

Creating Effective Learning Environments for Technology Integration explores the technology integration process, examining policies and practices related to technology planning, implementation and professional development. The cases in this course provide an assortment of perspectives related to educational technology; participants will use these cases, additional readings and discussion prompts to examine the variety of ways technology can be used to enhance teaching and learning. This course will help participants identify, employ, evaluate, and promote effective technology use in schools. Three credits.

SRC/SRCC 538 Designing, Teaching, and Assessing Technology Enhanced Lessons

This course explores technology integration in classrooms, examining ways to plan for, design, implement and assess the incorporation of technology. Participants will be introduced to a variety of technologies and consider possibilities for their use in schools. The cases in this course show classrooms at different stages of technology integration, and provide a launching point for discussions regarding beliefs, best practices, challenges and opportunities. Three credits.

SRC/SRCC 539 Technology, Schools, Challenge and Change

This course takes a big-picture view of technology and education, exploring the complex and sometimes challenging effects of technological advancement on schools. Readings, discussions, cases and workbook assignments allow technology leaders to examine their role in this change process. Participants will have the opportunity to discuss current issues, examine best practices, explore online resources and reflect on the perspectives of various education stakeholders; all of which will help to inform future decisions regarding the integration of technology in schools. Three credits.

SUPPLY CHAIN MANAGEMENT (SCM)

SCM 530 Operations and Supply Chain Management

This course is a general supply chain management course of the design, implementation and control of enterprise systems, which integrate labor, materials, capital equipment and information to effectively and efficiently create and deliver goods and services from point-of-origin to point-of-consumption. Prerequisite: MIS 514 or permission of the instructor. Three credits.

SCM 532 Purchasing and Supply Management

This course addresses modern practices and techniques of the purchasing and supply management (PSM) function. Included in the coverage of PSM are supply organization, quality, supplier selection, price determination, purchasing policy and procedures, material and logistic system, inventory, global purchasing, acquisition of capital assets and supplier relations. This course is designed to help students to prepare for examinations leading to professional certification in supply chain management. Prerequisite: SCM 530 or permission of the instructor. Three credits.

SCM 536 Logistics and Distribution Management

This course provides an overview of distribution operations and tools to make strategic, tactical and operational level decisions. The course includes order management, packaging and materials handling, transportation, location selection, warehousing management and global logistics. This course is designed to help students to prepare for examinations leading to professional certification in supply chain management. Prerequisite: SCM 530 or permission of the instructor. Three credits.

TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TSL)

TSL 501 The Profession of TESOL

A survey of the field. Topics include the role of English in the world today, the types of programs and environments in which ESL and EFL are taught, professional organizations and resources and TESOL careers, training and professional development. Three credits.

TSL 502 Linguistics for TESOL

Introduction to the scientific study of language in general and the English language in particular. Focusing on the major areas of linguistic inquiry and their application to English as a second language (ESL) and English as a Foreign language (EFL) teaching: phonetics, phonology, morphology, syntax, semantics, historical linguistics, psycholinguistics, sociolinguistics, neurolinguistics, history of English and language development. Three credits.

TSL 523 Methods and Materials for Language Teachers

This course explores the variety of methods and materials used in teaching foreign and second languages. It examines the challenges for methodologists, materials developers and teachers in analyzing and choosing the approaches, methods and materials for use in the language classroom. Three credits.

TSL 524 Assessment for Language Teachers

This course examines language assessment including proficiency and placement testing, high-stakes and standardized testing, and traditional and nontraditional assessment. General principles of language test construction and administration are emphasized. Students are provided with practical experience in preparing and analyzing language test items and tests. Three credits.

TSL 541 Language and Culture

Examines the relationships between culture, language, and interpersonal communication; considers ways of dealing with cultural issues in the ESL/EFL classroom. Three credits.

TSL 551 TESOL Classroom Observation Skills

Provides the skills necessary to effectively observe, record, reflect upon and critique the practices of an experienced teacher of English as a Second Language (ESL) or English as a Foreign Language (EFL) in public schools, intensive post-secondary, adult education or other approved programs. One credit.

TSL 552 TESOL Observation

Requires students to observe an experienced teacher of English as a second or foreign language in a selected setting, such as public school, intensive post-secondary or adult ESL. One credit.

TSL 553 TESOL Practicum

Provides students with supervised classroom teaching experience in an English-as-a-Second-Language (ESL) or English-as-a-Foreign-Language (EFL) setting, such as public school, intensive post-secondary or adult education. Prerequisites: TSL 551 and TSL 552. One credit.

TSL 561 Second Language Acquisition

Examines the factors that affect second language acquisition, including age, motivation, language background, environment and universal constraints. Three credits.

TSL 595 Topics in TESOL

Special topics in the scholarly research of teaching English as a second or foreign language. The specific topic will appear following the colon in the title (e.g. Topics in TESOL: Technology in ESL/EFL). Three credits.

TSL 671 Language Program and Curriculum Design

Presents an integrated, comprehensive model of language program and curriculum design. Topics include: needs assessment, articulation of levels, placement, instructional policies and procedures, testing, staffing, recruiting, budgeting, accreditation and public relations. Three credits.

TSL 681 Research and Statistics for TESOL

Examines selected specimens of published research in TESOL to demonstrate the various forms and purposes of research in the field. Presents the major statistical concepts needed to understand TESOL research. Three credits.

TSL 691 TESOL Internship

Intensive practice in teaching English as a second or foreign language, under the supervision of an approved and experienced teacher. Written report and oral presentation related to the Internship experience are required. Prerequisite: Completion of at least 22 credits toward the MEd TESOL degree. Three credits.

TSL 693 Independent Second Language Research

With faculty guidance, students create original research on significant and relevant topics in TESOL. Prerequisite: Completion of at least 22 credits toward the Master of Science in Education, TESOL concentration. Three credits.

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 H. Robert Edwards – Winchester, VA
 Wilbur M. Feltner – Winchester, VA
 Hunter M. Gaunt, Jr., M.D. – Winchester, VA
 Dorothy H. Glaize – Winchester, VA
 Marvin E. Gore, Jr. – Winchester, VA
 Elizabeth G. Helm – Winchester, VA
 The Hon. John O. Marsh, Jr. – Winchester, VA
 Suzanne W. McKown – Berryville, VA
 Jan Neuharth – Middleburg, VA
 Thomas Offutt – Cleveland, TN
 Aubrey J. Owen – Winchester, VA
 Charles A. Pine, Jr. – Winchester, VA
 Lacy I. Rice, Jr. – Martinsburg, WV
 Linda C. Russell – Winchester, VA
 Fred H. Scott – Harrisonburg, VA
 Ralph D. Shockey – Winchester, VA
 The Hon. Kenneth W. Starr – Malibu, CA
 W. James Truettner, Jr. – Vero Beach, FL
 Maj. Gen. Charles E. Williams, Ret. –
 Potomac Falls, VA

ADMINISTRATIVE OFFICERS

Senior Administrative Officers

Tracy Fitzsimmons, President; B.A. Princeton University; M.A., Ph.D., Stanford University

Bryon Lee Grigsby, Senior Vice President & Vice President for Academic Affairs; B.A., Moravian College; M.A., Wake Forest University; Ph.D., Loyola University Chicago

Mitchell L. Moore, Vice President for Advancement; B.A., University of Richmond; M.P.A., Virginia Commonwealth University

Clarresa Morton, Vice President for Student Affairs; B.A. Oral Roberts University; M.A. and Ph.D., Virginia Polytechnic Institute and State University

Richard C. Shickle, Vice President for Administration and Finance; B.S., Virginia Polytechnic Institute and State University; C.P.A., Virginia

Administrative Officers

Karen Abraham-Justice, Director of the Division of Physical Therapy; B.S., University of Maryland at Baltimore; Ph.D., East Carolina University

Quaiser Absar, Director of Institutional Computing; B.S., M.S., University of Evansville

Calvin H. Allen, Jr., Associate Vice President for Academic Affairs and Dean of the College of Arts & Sciences; B.A., University of Pittsburgh; M.A., Ph.D., University of Washington

David D. Anthony, Dean of Admissions; B.S., Clarion State University; M.Ed., American University

Donald Apparius, Director of Residential Life, B.A., Mary Washington University; M.S., George Mason University

Christopher A. Bean, Director of Library Services; B.A., University of New Hampshire; M.L.S., University of Rhode Island; M.A., Virginia Polytechnic Institute and State University

Jennifer Bousquet, Director of Foundation Relations; B.A., University of Arkansas; J.D., University of Arkansas at Little Rock

W. Randy Boxx, Dean of the Harry F. Byrd, Jr. School of Business; B.S., M.B.A., University of Southern Mississippi; Ph.D., University of Arkansas

Nancy S. Bragg, Director of Financial Aid; B.S., M.S., Syracuse University

Demetrius L. Carmichael, Associate Vice President for Administration and Finance; B.B.A., University of Texas; M.B.A., University of Saint Thomas; C.P.A.

Rhonda VanDyke Colby, Dean of Spiritual Life; B.S., James Madison University; M.Div., Wesley Theological Seminary; D.Min., Baptist Theological Seminary

Gene E. Fisher, Director of Physical Plant; B.S., Virginia Polytechnic Institute and State University

Kathryn Ganske, Director, Division of Nursing; B.S.N., Indiana University; M.S.N., George Mason University; Ph.D., University of Virginia

RT Good, III, Dean of Global and Community Education; B.A., Virginia Commonwealth University; M.B.A., Mary Washington College; Ed.D., Nova Southeastern University

Jennifer Green-Flint, Director, Shenandoah Conservatory Arts Academy; B.A., Mary Washington College; M.S., Shenandoah University

John E. Hachtel, Associate Vice President for Marketing and Communications; B.A., University of Delaware; M.A., University of Baltimore

Steven E. Humphries, Director of the School of Education and Human Development; B.A., Auburn University; M.S., Ph.D., Florida State University

Marie C. Landes, Director of Human Resources

Deborah Marr, Director of the Division of Occupational Therapy; B.S., Colorado State University; M.S., Michigan State University; Sc.D., Boston University

Alan B. McKay, Dean of the Bernard J. Dunn School of Pharmacy; B.S., Mercer University; M.S., Ph.D., University of Mississippi

Anthony A. Miller, Director of the Division of Physician Assistant Studies; A.A.S. Cuyahoga Community College; B.S., University of Akron; Physician Assistant Certificate, Cleveland Clinic Foundation; M.Ed., Cleveland State University; Ph.D. candidate, University of Toledo

Rebecca Myers, Director of the Student Union/Activities, B.A., Shepherd University; M.A., Indiana University of Pennsylvania

Jane D. Pittman, Associate Vice President for Alumni Affairs; B.A., Findlay College; M.B.A., Shenandoah University

Beverly Recny, Director and Assistant Professor, Respiratory Care; B.S., Kent State University; A.A.S., Northern Virginia Community College; M.S., Capella University; Ed.D. in progress, Northcentral University

Rose A. Schmieg, Director of the Division of Athletic Training; B.S., West Chester University; M.S., Beaver College; D.H.Sc., University of St. Augustine

Wayne Sealock, Director of Public Safety

Karen Schultz, Director of The Center for Public Service and Scholarship; B.A., College of William and Mary; M.B.A., Shenandoah University; Ph.D., Virginia Polytechnic Institute and State University

Jennifer Spataro-Wilson, Director of Career Services; B.A., Campbell University; M.A., West Virginia University

Michael J. Stepniak, Dean of Shenandoah Conservatory; B.A., Atlantic Union College; M.M., New England Conservatory; M.M., Northwestern University; M.M.; Peabody Conservatory at Johns Hopkins University; Ed.D., Harvard University Graduate School of Education

John V. Stevens, Director of Auxiliary Services; B.S., Bloomsburg University; M.B.A., Mount Saint Mary's College

Ron Stickle, Director; Wilkins Wellness Center; B.S., Eastern Mennonite University

Kriesta L. Watson, Director of Institutional Research and Assessment; B.A., University of Michigan; M.E., Harvard University; Ed.D., Morgan State University

Sherry D. Whitelaw, Director of Student Accounts; B.S., Bridgewater College

Deborah E. Wyne, Director of Academic Enrichment Center; A.A., Ferrum College; B.A., M.Ed., George Mason University

FACULTY

This list includes those full-time and part-time faculty members who taught during the 2009-10 academic year and who are expected to continue, and new full-time faculty hired as of May 29, 2010, for the 2010-11 academic year.

* Members of the Graduate Faculty are designated by an asterisk (*). The graduate faculty is defined as those members of the full-time and part-time faculty who hold the appropriate terminal degree, or the professional equivalent, and who are to teach graduate courses. Graduate faculty may also teach undergraduate courses.

^ Members of the Interim Graduate Faculty are designated by an arrow (^). The interim graduate faculty is defined as those members of the full-time or part-time faculty who do not meet one or more of the essential criteria for appointment to graduate faculty status, but who are expected to meet all essential criteria within a reasonable period of time.

The undergraduate faculty is defined as those members of the faculty who hold at least a master's degree, or the professional equivalent, and who are assigned to teach undergraduate courses. Most of Shenandoah's undergraduate faculty also hold a terminal degree in their field, however, those designated as undergraduate faculty are not teaching graduate courses.

+ Full-time administrative or staff appointments with part-time teaching assignments are designated by a plus sign (+).

= Faculty members teaching in more than one school or division are designated by an equal sign (=).

COLLEGE OF ARTS & SCIENCES

+*Calvin H. Allen, Jr. (2002), Associate Vice President for Academic Affairs, Dean of the College of Arts & Sciences and Professor; History; B.A., University of Pittsburgh; M.A., Ph.D., University of Washington

Beverly Brown Schulke (2003), Associate Dean and Associate Professor; Criminal Justice; B.S., M.A., University of North Dakota; Ph.D., George Washington University

Full-time Faculty

Darren Bly (1997), Assistant Professor; Physics; B.S., The University of Sussex (United Kingdom); M.S., Ph.D., University of Maryland-Baltimore County

Woodward S. Bousquet (1993), Professor; Environmental Studies and Biology; B.S., Cornell University; M.S., Ph.D., The Ohio State University

Rodney A. Bragdon (2005), Assistant Professor; Psychology; B.S., University of Massachusetts; M.A., Ph.D., University of Mississippi

Michelle L. Brown (2010), Assistant Professor; B.S., M.A., James Madison University; Ph.D., University of Maryland

James Bryant, II (2002), Associate Professor; History and Director; History Tourism Center; B.S., Hampton University; M.A., University of Vermont; Ph.D., University of Rochester

Diep Vu Ca (2005), Associate Professor; Chemistry; B.S., M.S., Vietnam National University (Vietnam); M.E., University of New England (Australia); Ph.D., Miami University

Wendy Carlson (2006), Assistant Professor; Psychology; B.S., Mary Washington College; M.A., Ph.D., University of Missouri

+Rhonda VanDyke Colby (2006), Dean of Spiritual Life; B.S., James Madison University; M.Div., Wesley Theological Seminary; D.Min., Baptist Theological Seminary

John Copenhaver (1987), Professor; Religion and Philosophy; B.A., Washington and Lee University; M. Div., Fuller Theological Seminary; Ph.D., The Catholic University of America

=Carolyn Coulson-Grigsby (2008), Assistant Professor; Theatre and Humanities; B.A., Santa Clara University; M.A., Ph.D., University of Connecticut

Gina Daddario (1998), Professor; Mass Communication and Lin Rong San Endowed Chair in Communications; B.A., University of North Carolina; M.A., University of Maryland; Ph.D., University of Massachusetts

Bryan J. Davis (2010), Assistant Professor; Chemistry; B.S., University of Delaware; Ph.D., University of North Carolina at Chapel Hill

Ann E. Denkler (2002), Associate Professor; History; B.A., M.A., George Mason University; Ph.D., University of Maryland-College Park

- William Douglas Enders (2005), Professor; English; A.B., University of Michigan; M.A., Ph.D., University of Toledo
- Kim Fendley (1995), Associate Professor; Sociology; B.A., George Washington University; M.S., University of Arkansas; Ph.D., University of Kentucky
- Audra L. Gollenberg (2010), Assistant Professor; Public Health; B.S., Rensselaer Polytechnic Institute; Ph.D., University of Massachusetts
- Richard Haag (1998), Associate Professor; Psychology; B.A., University of Arizona; M.A., Ph.D., University of Hawaii
- Sarah A. Hamilton (2009), Instructor; Kinesiology; B.A., Lenoir-Rhyne College; B.S., University of North Carolina at Charlotte; M.S., Clemson University; Ph.D. in progress, Indiana University
- Laura Lillian Haubrick (2007), Assistant Professor; Biology; B.S., Indiana University of Pennsylvania; Ph.D., Pennsylvania State University
- Julie A. Hofmann (2006), Associate Professor; History; B.A., University of California at Santa Barbara; M.A., Ph.D., Emory University
- *Warren R. Hofstra (1977), Professor; History and Stewart Bell Endowed Chair in History; B.A., Washington University; M.A., Boston University; Ph.D., University of Virginia
- Joanne Jacobs (1983), Associate Professor; English; B.A., Marymount Manhattan College; Ph.D., University of Notre Dame
- John T. Jacobs (1974), Professor; English; A.B., Kings College; Ph.D., University of Notre Dame
- Geraldine W. Kiefer (2003), Associate Professor; Art History; B.A., Kent State; M.A., Oberlin College; Ph.D., Case Western University
- Joshua A. Kincaid (2008), Assistant Professor; Environmental Studies and Geography; B.S., Frostburg State University; M.A., West Virginia University; Ph.D., University of Georgia
- Brett Kite (2007), Visiting Assistant Professor; Chemistry; B.S., Ph.D., Virginia Polytechnic Institute and State University
- Minna K. Laurikkala (2009), Assistant Professor; Criminal Justice; B.S. University of Florida; M.A., Ph.D. in progress, University of Central Florida
- *Thomas N. Layne (1967), Professor; Mathematics; B.S. Lynchburg College; M.S., Madison College; Ph.D., Vanderbilt University
- Eric K. Leonard (2003), Associate Professor; Political Science and Henkel Family Endowed Chair in International Affairs; B.S., William Paterson College; M.A., Ph.D., University of Delaware
- Ann St. Clair Lesman (1991), Professor; Foreign Languages (Spanish); B.A., Rollins College; M.Ed., Duke University; M.A., Ph.D., University of Maryland
- Brian W. Lipscomb (2008), Assistant Professor; Biology; B.A., University of Kansas, Ph.D. Yale University
- Travis A. Olson (2010), Assistant Professor; Mathematics; B.S., University of Wisconsin; M.S., Ph.D., Colorado State University
- Kimberly S. Orrell (2007), Visiting Assistant Professor; Biology; B.S., Central Michigan University; M.S., Ph.D., Virginia Polytechnic Institute and State University
- Nina Parker (1995), Associate Professor; Biology; B.A., M.S., University of Michigan; Ph.D., Ohio University
- Bryan R. Pearce-Gonzales (2005), Associate Professor; Foreign Languages; B.A., Radford University; M.A., Ph.D., University of Kentucky
- John. J. Rutter (2008), Assistant Professor; Biology; B.S. St. Joseph's University; M.S., Ph.D., Rutgers University
- Barry Penn Hollar (1989), Professor; Philosophy and Religion; M.Div., Duke Divinity School; M.A., Duke University; B.A., Ph.D., University of Virginia
- Mark Richardson (2010), Assistant Professor; Writing; B.S., Colgate University; M.S., Ph.D., Emory University
- Cynthia J. Schendel (2009), Assistant Professor; Kinesiology; B.A., Augsburg College; M.S., Arizona State University; M.A., San Diego State University; Ed.D., Northern Illinois University
- *Karen Kennedy Schultz (1981), Director for The Center for Public Service and Scholarship and Associate Professor; Interdisciplinary; B.A., College of William and Mary; M.B.A., Shenandoah University; Ph.D., Virginia Polytechnic Institute and State University
- Petra Schweitzer (2006), Visiting Assistant Professor; Foreign Languages; B.A., Maximilian University Munich (Germany); M.A., University of Georgia; Ph.D., Emory University

*William Shendow (1984), Professor; Political Science; B.A., Wake Forest University; M.A., Georgetown University; Ph.D., Virginia Polytechnic Institute and State University

Tiffany J. Shoop (2006), Assistant Professor; Mass Communication; B.A., M.A., Virginia Polytechnic Institute and State University; Ph.D., University of Tennessee

Andrea Smith (2009), Assistant Professor; Foreign Language; B.A., M.T., M.A., A.B.T, University of Virginia

^Cindia Stewart (1985), Assistant Professor; Mathematics; B.S., Shenandoah University; M.S., Shippensburg University; Ph.D., University of Virginia

Edvard Thorsett (1996), Associate Professor; Mass Communication; B.S., M.A.A., Ph.D., University of Maryland

Jason D. Weibel (2010), Assistant Professor; Chemistry; B.S., North Carolina State University; M.S., Wake Forest University; Ph.D., Carnegie Mellon University

Margaret Mary Wharton (2001), Assistant Professor; Mathematics; B.A., Salve Regina University; M.A., Appalachian State University

Brian J. Wigley (2002), Associate Professor; Kinesiology; B.S., University of Texas at Austin; M.S., Ed.D., Texas A&M University

^Laura K. Zimmermann (1998), Professor; Psychology; B.A., Emory University; M.S., Ph.D., University of New Mexico

Part-time Faculty

+Kevin L. Anderson (2003), Adjunct Instructor; Kinesiology; B.S., M.S., George Mason University

+Donald B. Apparius (2008), Adjunct Instructor; Study Skills; B.S., Mary Washington College, M.S., George Mason University, Ed.D. in progress, Shenandoah University

+Paul H. Barnes, Jr. (2007), Adjunct Instructor; Kinesiology; B.S., M.Ed., James Madison University

Walter Barr (2002), Adjunct Instructor; Kinesiology; B.S., Shepherd College; M.A., James Madison University

+Lois G. Bowers (2003), Adjunct Instructor; Kinesiology; B.S., Temple University; M.Ed., Western Maryland University

Phyllis H. Breidinger (2008), Adjunct Assistant Professor; Foreign Language; B.A., Michigan State University; M.A., George Mason University.

Edward C. Burks, Jr. (2007), Adjunct Instructor; English; B.A., Washington and Lee University; M.A., University of Virginia; M.A., University of South Alabama

Bruce C. Cameron (2008), Adjunct Instructor; Kinesiology; B.A., Concordia College, M.S., West Virginia University

Margaret V. Cameron (2008), Adjunct Instructor; English B.A.; Sweet Briar College; M.A., Virginia Polytechnic Institute

Larry D. Corpus (2009), Adjunct Professor; Environmental Studies; B.A., M.A., California State University, Sacramento; M.S., Washington State University; Ph.D., Kansas State University

Sandra Curtis (2009), Adjunct Instructor; Foreign Language; M.Ed, George Mason University; B.A, Escuela Normal, Villa Maria, Cordoba

Michael J. Duncan (2007), Adjunct Instructor; Psychology; B.S., M.Ed., Lynchburg College

Maria Eagen (2010), Adjunct Assistant Professor; Mathematics; B.S., M.S., Pennsylvania State University; M.S., Ph.D., University of Colorado

+Tracy Fitzsimmons (1999), President and Adjunct Professor; Political Science; B.A. Princeton University; M.A., Ph.D., Stanford University

Michael M. Foreman (2005), Adjunct Instructor; Political Science; B.A., University of Richmond; M.A., University of Virginia

Gregory J. Gallagher (2008), Adjunct Assistant Professor; Chemistry; B.S., Worcester Polytechnic Institute, Ph.D., University of Massachusetts

Jon B. Gettman (2009), Adjunct Assistant Professor; B.A., Catholic University of America; M.S., The American University; Ph.D., George Mason University

+Bryon Lee Grigsby (2008) Senior Vice President & Vice President for Academic Affairs and Adjunct Professor; First Year Seminar; B.A., Moravian College; M.A., Wake Forest University; Ph.D., Loyola University

+Michelle Guyant-Holloway (2008), Adjunct Instructor; Kinesiology; B.S., M.P.A., Northern Michigan University

Jennifer Gyurisin (2009), Adjunct Instructor; English; M.A, B.A, Hollins University; M.A, Virginia Tech

- +Robert Harris (1994), Adjunct Assistant Professor; Kinesiology; B.S., M.B.A., Shenandoah University
- +Karen Hattenback (2006), Adjunct Instructor; Kinesiology; Certified Franchised Jazzercise Instructor
- Roy Hattenback (2002), Adjunct Assistant Professor; Kinesiology; B.S., M.S., State University of New York at Brockport
- Martin Janowitz (2002), Adjunct Professor; Psychology; B.S., M.S., City College of New York; M.S., Ph.D., University of Maryland
- Diedra H. Kriewald (2007), Adjunct Professor; Religion; B.S., Northwestern University; M.R.E., Union Theological Seminary; M.A., Ph.D., Vanderbilt University
- Desmond James Lawless (2006), Adjunct Instructor; Kinesiology; B.S., West Sussex Institute of Higher Education (England); M.S., University of Wisconsin-Stout
- Hyo Lee (2006), Adjunct Assistant Professor; Religion; B.A., Yonsei University; M.Div., McCormick Theological Seminary; Ph.D., Vanderbilt University
- Hyo J. Lee (2006), Adjunct Assistant Professor; Religion; B.A., Yonsei University; M.Div., McCormick Theological Seminary; Ph.D., Vanderbilt University
- Linden E. Lewis Jr. (2009), Adjunct Instructor; Kinesiology; A.A., Lord Fairfax Community College; B.S., Salem-Teikyo University
- Mark Lore (2010), Adjunct Assistant Professor; Political Science; B.A., Bowling Green State University; M.A., University of Wisconsin
- Brock L. McCullough (2010), Adjunct Instructor; Kinesiology; B.A., Grove City College; M.A., Clarion University
- M. Suzanne Morehead (2009), Adjunct Instructor; Criminal Justice; B.S., Radford University; M.S., University of Cincinnati
- Roxie L. Ostlund (2009), Adjunct Instructor; Psychology; B.A., Puget Sound Christian College; M.A., Regent University
- +Sarah J. Pelster (2004), Adjunct Instructor; Kinesiology; B.S., Missouri Western State College; M.S., Eastern Kentucky University
- William Roberts (2005), Adjunct Associate Professor; Geology; B.S., University of Texas at Austin; M.S., Ph.D., George Washington University
- Karin O. Sadowski (2009), Adjunct Instructor; Foreign Language; B.S., Technical University; M.A., Catholic University; M.S., American University
- William T. Shepherd (2005), Adjunct Assistant Professor; Mathematics; B.S., Indiana Institute of Technology; M.S., Ph.D., University of Connecticut
- David L. Tollett (2009), Adjunct Instructor; Criminal Justice; B.S., Virginia State University; M.S., Virginia Commonwealth University
- Jennifer Turman Bayliss (2004), Adjunct Instructor; Kinesiology; B.A., B.S., Shenandoah University
- Lindsey E. West (2008), Adjunct Instructor; Kinesiology; B.S. Methodist College, M.S., Saint Vincent College.
- Holly L. Wilfong (2008), Adjunct Instructor; Mass Communication; A.A., Lord Fairfax Community College; B.A., Shenandoah University; M.A., George Mason University
- Donna L. Wilson (2004), Adjunct Assistant Professor; Spanish; A.A., Casper College; B.A., M.A., University of Wyoming
- Steven "Buddy" Wilson (2010), Adjunct Instructor; Study Skills; B.S., M.A., Shepherd University
- Ken Wissmann (2001), Adjunct Assistant Professor; Mathematics; B.A., Alfred University; Specialist Certificate, M.A., Ph.D. in progress, University of Pittsburgh
- John D. Wright (2003), Adjunct Associate Professor; Physics; B.S., Louisiana State University; M.A., George Washington University; M.S., Rochester Institute of Technology
- +Deborah E. Wyne (2006), Adjunct Instructor; Study Skills; B.A., M.Ed., D.A. in progress, George Mason University

HARRY F. BYRD, JR. SCHOOL OF BUSINESS

*W. Randy Boxx (2004), Dean of the Harry F. Byrd, Jr. School of Business and George Edward Durell Chair of Management; B.S., M.B.A., University of Southern Mississippi; Ph.D., University of Arkansas

*L. Mark Tyree (1987), Associate Dean of the Harry F. Byrd, Jr. School of Business, Professor, Accounting and Yount, Hyde & Barbour Endowed Chair in Accounting; B.S., M.B.A., Virginia Commonwealth University; C.A.G.S., Ed.D., The College of William and Mary

Full-time Faculty

*Robert Bonometti (1999), Professor, Information Systems and Computer Technology and Byrd Chair in Information Systems and Computer Technology; B.S., U.S. Military Academy; M.B.A., Long Island University; M.S., Ph.D., Massachusetts Institute of Technology

*Yvonne Chen (2004), Associate Professor, Economics; B.A., M.A., Ph.D., University of Wisconsin

*Nabie Conteh (2005), Assistant Professor, Information Systems and Computer Technology; B.S., Institute for Information and Communication Technology (The Netherlands); M.B.A., Ferris State University; M.S., Ph.D., University of Maryland-Baltimore County

I. Bogdan Daraban (2007), Assistant Professor, Economics; B.S., Polytechnic University (Romania); M.S., Ph.D., Florida State University

*Miles K. Davis (2001), Associate Professor, Management; B.A., Duquesne University; M.A., Bowie State University; Ph.D., The George Washington University

*RT Good, III (1995), Associate Professor of Management, B.A., Virginia Commonwealth University; M.B.A., Mary Washington College; Ed.D., Nova Southeastern University; Post Doctoral Certificate in International Business and Entrepreneurship, University of Florida

*Bruce K. Gouldey (2002), Associate Professor, Economics and Finance; B.S., Brown University; Ph.D., University of Pittsburgh

*Giles A. Jackson (1992), Associate Professor, Marketing; B.A., Huddersfield Polytechnic (England); Ph.D., Virginia Polytechnic Institute and State University

*Young K. "Sally" Kim (2003); Associate Professor, Marketing; B.A., Ewha Womans University (Korea); M.B.A., Kyung Hee University (Korea); M.S., University of Nevada; Ph.D., George Washington University

*Bingguang Li (2006), Associate Professor, Supply Chain Management and Quantitative Methods; B.S., B.L., M.S., Tianjin University (China); Ph.D., University of Nebraska-Lincoln

*Charles J. Pineno (2004), Professor, Accounting and Lillian Cook Braun Chair in Accounting; M.B.A., University of Scranton; B.S., Ph.D., Pennsylvania State University

*William D. Schulte, Jr. (2003), Associate Professor, Business Administration; B.S., M.S., Louisiana State University; Ph.D., The George Washington University

*Clifford F. Thies (1992), Eldon R. Lindsay Professor of Economics and Finance; B.A., M.B.A., St. John's University; Ph.D., Boston College

*John I. Winn (2005), Associate Professor, Business Law; B.A., Guilford College; LL.M., Judge Advocate General's School, United State Army; J.D., Campbell University

*James J. Wong (1999), Professor, Marketing and Management; B.S., Ohio University; M.B.A., Western Reserve University; Ph.D., The Ohio State University

*Mesut Yavuz (2007), Associate Professor, Quantitative Methods and Supply Chain Management; B.S., M.S., Istanbul Technical University (Turkey); Ph.D., University of Florida

*Lili Zhu (2008), Assistant Professor, Finance; B.E., M.A., Zhejiang (China); Ph.D., George Washington University

Part-time Faculty

+Quaiser Absar (2003), Adjunct Assistant Professor, Business; B.S., M.S.-C.I.S., University of Evansville

+Demetrius L. Carmichael (2008), Associate Vice President for Administration and Finance and Supporting Adjunct Assistant Professor, Accounting; B.B.A., University of Texas, M.B.A., Saint Thomas University

Ernest J. Carnevale, Jr. (2000), Adjunct Associate Professor, Business; B.S. Rhode Island College; M.S., University of Nebraska; M.H.A., University of Minnesota

^Michael L. Thompson (1990), Adjunct Associate Professor, Business; B.S., West Virginia University; M.B.A., Case Western Reserve University

SHENANDOAH CONSERVATORY

*Michael J. Stepniak (2009), Dean of Shenandoah Conservatory and Professor; Music; B.A., Atlantic Union College; M.M., Northwestern University; M.M.; Peabody Conservatory at Johns Hopkins University; Ed.D., Harvard University Graduate School of Education

*Aimé Sposato (1993), Associate Dean for Undergraduate Studies and Professor; Music, Voice; B.A., University of Pittsburgh; M.M., Duquesne University; D.M.A., West Virginia University

*Karen Walker (1982), Associate Dean for Graduate Studies and Associate Professor; Piano; B.M., Eastern Washington University; M.M., Northwestern University; D.M.A., The Catholic University of America

Full-time Faculty

Jennifer F. Adams (1999), Associate Professor; Theatre; B.F.A., Sarah Lawrence College; M.F.A., University of Illinois

*Charlotte Nelson Aiosa (1979), Professor; Voice; B.S., M.M., University of Maryland; D.M.A., University of Michigan

*Thomas Albert (1974), Charles A. Levitan Chair in Music Theatre and Professor; Composition and Musical Theatre Direction; A.B., Barton College; M.M., D.M.A., University of Illinois

^Gerald Alan Arnett (1997), Christina Halpin Endowed Chair of Dance and Assistant Professor; Dance; B.A., Radford University; M.F.A., Southern Methodist University

*Frances Lapp Averitt (1973), Professor; Flute; B.M., M.Ed., Auburn University; D.M., Florida State University

*William E. Averitt (1973), Professor; Composition; B.M., Murray State University; M.M., D.M., Florida State University

^Donald B. Black (1968), Professor; Theory; B.S., Concord College; M.F.A., Ohio University

William McConnell Bozman (1975), Harold Herman Chair in Music Theatre and Professor; Theatre; B.A., Macalester College; M.F.A., Wayne State University

*Elizabeth Caluda (1978), Professor; Piano; B.M., Aquinas College; M.M., Northwestern University; D.M.A., The Catholic University of America

*Glenn Caluda (1975), Professor; Guitar; M.A., University of Maryland; B.M.E., Ph.D., Louisiana State University

*Ting-Yu Chen (1997), Associate Professor; Dance; B.F.A., State University of New York-Purchase; M.F.A., The Ohio State University

*Charlotte A. Collins (1958) Professor; Music Education; B.S., Bowling Green State University; M.B.A., Shenandoah University; M.M., Ed.D., University of Michigan

*Steven L. Cooksey (1972), Professor; Organ/Church Music; B.M.E., Evansville College; M.M., Syracuse University; M.B.A., Shenandoah University; Ph.D., Washington University

=Carolyn Coulson-Grigsby (2008), Assistant Professor; Theatre and Humanities; B.A., Santa Clara University; M.A., Ph.D., University of Connecticut

David Edelman (2009), Assistant Professor; Arts Management; B.A., Washington University; M.F.A., Rutgers University

Jonathan Flom (2007), Assistant Professor; Theatre; B.F.A., M.F.A., Pennsylvania State University

J. Andrew Flory (2007), Assistant Professor; Music History; B.A., City College of New York; M.A., Ph.D., University of North Carolina at Chapel Hill

+Karen Follett (1992), Lecturer; Music; B.M., M.M., Shenandoah University; doctoral degree in progress, The Ohio State University

*Michael O. Forest (1994), Associate Professor; Voice; Certificate, Guildhall School of Music and Drama (England); B.M.E., M.M.E., Shenandoah University

^Maurice Fraga (2009), Assistant Professor; Dance; B.A., University of California, Santa Cruz; M.F.A., University of Illinois

Wade Fransen (1999), Assistant Professor; Theatre; B.A., Brigham Young University; M.F.A., Arizona State University; Ph.D., Texas Tech University

Elijah A. Gibson (2007), Assistant Professor; Dance; B.F.A., Sam Houston State University

*Debra Kathryn Green (1999), Professor; Voice; B.A., California State University; M.M., University of Oregon; D.M.A., University of Cincinnati-College and Conservatory of Music

*Erica M. Helm (1989), Associate Professor; Dance; B.F.A., University of Hawaii; M.F.A., Southern Methodist University

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*Jan Wagner (2002), Associate Professor; Conducting; Diploma and Korrepetitions Praxis, Academy of Music Hochschule (Austria)

*Wayne Wells (2002), Associate Professor; Trombone; B.M., Peabody Conservatory; M.M., D.M.A., University of Maryland

*Akemi Takayama Wiencko (2008), Victor Brown Chair in Violin and Associate Professor; Violin; Certificate, University of Wyoming; B.M., Toho School of Music; Diploma, M.M., Cleveland Institute of Music

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^Linda Leonard (2005), Adjunct Assistant Professor; Voice and Music Education; B.M.Ed., Rowan University; M.M.Ed., Shenandoah University

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SCHOOL OF EDUCATION & HUMAN DEVELOPMENT

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*H. Jurgen Combs (1997), Professor; Education Leadership; B.A., M.Ed., North Adams State College; Ed.D., Nova Southeastern University

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SCHOOL OF HEALTH PROFESSIONS

DIVISION OF ATHLETIC TRAINING

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DIVISION OF NURSING

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*Martha Morrow (1980), Associate Professor; Nursing; R.N., Diploma, St. Joseph's Hospital School of Nursing; B.S.N., State University of New York; M.S.N., D.N.Sc., George Mason University

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Marguerite O. Foster (2008), Adjunct Clinical Instructor; Nursing; A.S.N., B.S.N., Shenandoah University; M.S.N., George Mason University

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- *Jennifer Matthews (1994), Adjunct Associate Professor; Nursing; B.S.N., M.S.N., Medical College of Virginia/Virginia Commonwealth University; M.S., Troy State University; Ph.D., George Mason University
- Edythe McGoff (1996), Adjunct Clinical Instructor; Nursing; B.S.N., George Mason University
- Paige R. Migliozi (2010), Adjunct Clinical Instructor; Nursing; B.S., Virginia Polytechnic University; B.S.N., M.S.N., George Mason University
- Vickie Morley (1999), Auxiliary Adjunct Assistant Professor; Nursing; A.S.N., Patrick Henry Community College, B.S.N., University of Virginia, M.S.N., University of Texas Medical Branch
- Tina J. B. Myer (2009), Adjunct Clinical Instructor; Nursing; A.S.N., Shenandoah University; B.S.N., Old Dominion University; M.S.N., Walden University
- Jill R. Newberry (2008), Adjunct Clinical Instructor; B.S.N., University of Nebraska-Lincoln; M.S.N., University of Colorado
- Christine A. Newcomer (2006), Adjunct Clinical Instructor; Nursing; B.S.N., Pennsylvania State University; M.S.N., Duquesne University; Ph.D. in progress, University of Virginia
- Mildred Noll (1983), Adjunct Clinical Instructor; Nursing; Diploma, Kings Daughters Hospital; B.S.N., Eastern Mennonite University; M.S.N., Marymount University
- Kerry Parsons (2009), Adjunct Clinical Instructor; Nursing; B.S.N., M.S.N., D.N.P. in progress, Shenandoah University; B.A., University of Colorado; Ph.D., John Hopkins University
- Marcia A. Perkins (2008), Adjunct Clinical Instructor; Nursing; A.A., Lord Fairfax Community College, B.S.N., M.S.N., Shenandoah University
- Jennifer R. Pifer (2008), Adjunct Clinical Instructor; Nursing; A.D.N., Lord Fairfax Community College; M.S.N., Shenandoah University
- Gayle E. Shanholtz (2010), Adjunct Clinical Instructor; Nursing; A.S.N., Allegany College of Maryland; B.S.N., M.S.N., University of Maryland
- Nancy Pellegrino Stam (2008), Adjunct Clinical Instructor; Nursing; A.S.N., DelMar College; B.S.N., Texas Women's University; M.S.N., PMHNP in progress, Shenandoah University
- Judith Stambaugh (2009), Adjunct Clinical Instructor; Nursing; M.S.N., B.S.N., Shenandoah University; A.S.N., Shepherd College
- Jane G. Sutermeister (2004), Adjunct Clinical Instructor; Nursing; R.N., B.S.N., American University; M.Ed., George Mason University
- Alice Jane Tavenner (2005), Adjunct Clinical Instructor; Nursing; M.S.N., Shenandoah University
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- Selena H. Truban (2005), Adjunct Clinical Instructor; Nursing; B.S.N., James Madison University; M.S.N., University of Virginia
- Janice Yates (2009), Adjunct Instructor; Nursing; A.D.N., Shepherd University; B.S., University of Maryland; M.S.N., Ph.D. George Mason University
- Helen Zebarth (1979), Adjunct Clinical Instructor; Nursing; B.S., South Dakota State University; M.Ed., Boston University
- Lisa Zerull (2008), Adjunct Clinical Instructor; Nursing; B.S., Ohio State University; M.S., George Mason University; Ph.D. in Nursing in progress, University of Virginia

DIVISION OF OCCUPATIONAL THERAPY

- *Deborah A. Marr (2004) Director of the Division of Occupational Therapy and Associate Professor; Occupational Therapy; B.S., Colorado State University; M.S., Michigan State University; Sc.D., Boston University
- ^Leslie B. Davidson, (1999), Assistant Director of the Division of Occupational Therapy and Assistant Professor; Occupational Therapy; B.A., Indiana University; M.A., New York University; M.S.Ed., Johns Hopkins University; Ph.D. in progress, Virginia Polytechnic Institute and State University

Full-time Faculty

- ^Cynthia McGreevy (2004), Assistant Professor; Occupational Therapy; A.A., Allegheny College of Maryland; M.S. Shenandoah University

Part-time Faculty

*Megan K. Cook (2008), Auxiliary Adjunct Assistant Professor; Occupational Therapy; B.S., M.S.O.T., Misericordia University, O.T.D., Virginia Commonwealth University

*Mary Corcoran (2004), Professor; Occupational Therapy; B.S., Indiana University; M.A., Ph.D., University of Pennsylvania

Jennifer Kepler (2009), Adjunct Assistant Professor; Occupational Therapy; A.A., Rochester Community College; B.S., University of Wisconsin-Eau Claire; M.S.O.T., Shenandoah University

Terin M. Langley (2008), Adjunct Assistant Professor; Occupational Therapy; A.S., Allegany College of Maryland; M.S., Certificate in Health Care Management, Shenandoah University.

DIVISION OF PHYSICAL THERAPY

*Karen Abraham-Justice (2001), Director of the Division of Physical Therapy and Associate Professor; Physical Therapy; B.S., University of Maryland at Baltimore; Ph.D., East Carolina University

*Todd Telemeco (2001), Associate Director of the Division of Physical Therapy and Associate Professor; Physical Therapy; B.S. (dual), M.P.T., Shenandoah University; Ph.D., Virginia Commonwealth University

Full-time Faculty

*Melissa Wolff Burke (1998), Associate Professor; Physical Therapy; B.S., University of Vermont; M.S., Massachusetts General Hospital Institute of Health Professions; Ed.D., University of Tennessee-Knoxville

*Andrea Fergus (2002), Associate Professor; Physical Therapy; B.S., University of Vermont; Ph.D., University of Virginia

*Sheri A. Hale (2004), Assistant Professor; Physical Therapy; B.S., Pennsylvania State University; M.P.T., University of Pittsburgh; Ph.D., Pennsylvania State University

Lisa McVey (2007), Assistant Professor; Physical Therapy; B.S., Radford University; M.P.T., D.P.T., Shenandoah University

^Edward C. Schrank (2001), Assistant Professor; Physical Therapy; B.S., Texas A & M University; B.S., University of West Florida; M.P.T., Baylor University; D.Sc., Rocky Mountain University

Thomas T. Turner (2006), Assistant Professor; Physical Therapy; B.S., Old Dominion University; M.S., Ph.D., PT, Virginia Commonwealth University

Part-time Faculty

Christine A. Ceely (2006), Adjunct Assistant Professor; Physical Therapy; B.S., University of Maryland; M.P.T. D.P.T., Shenandoah University

Robert E. Duvall (2005), Adjunct Assistant Professor; Physical Therapy; B.A., Western Maryland College; M.M.Sc., Emory University; D.H.Sc., University of St. Augustine

Stephanie Mahan (2010), Adjunct Assistant Professor; Physical Therapy; B.S. University of Virginia, M.S., University of Delaware.

Suzanne L. Tinsley (2005), Adjunct Assistant Professor; Physical Therapy; A.S., Panola Junior College; B.S., M.S., Texas Woman's University; Ph.D., Louisiana State University Medical Center

DIVISION OF PHYSICIAN ASSISTANT STUDIES

*Anthony A. Miller (2000), Director of the Division of Physician Assistant Studies and Professor; Physician Assistant Studies; A.A.S., Cuyahoga Community College; B.S., University of Akron; M.Ed., Cleveland State University; Ph.D. candidate, University of Toledo

*Rachel Carlson (2002), Associate Director of the Division of Physician Assistant Studies and Associate Professor; Physician Assistant Studies; B.S., The Pennsylvania State University; M.S., Medical College of Ohio; Ed.D. in progress, Nova Southeastern University

Full-time Faculty

*Brenda L. Quincy (2005), Associate Professor; Physician Assistant Studies; B.S., University of Wisconsin-Madison; M.P.H., George Washington University

Anne E. Schempp (2009), Assistant Professor; Physician Assistant Studies; B.S., M.S., Saint Francis University

^=Jessica M. Trompeter (2007), Assistant Professor; Physician Assistant Studies & Pharmacy Practice; A.A., Rainy River Community College; B.S., University of Minnesota-Duluth; M.B.A., Pharm.D., Shenandoah University

^Amanda Welbourne (2008), Assistant Professor; Physician Assistant Studies; B.S., Bristol University (England); M.S., Shenandoah University

Part-time Faculty

*James C. Laidlaw (2000), Adjunct Associate Professor; Physician Assistant Studies; B.A., Kalamazoo College; M.D., University of Michigan

DIVISION OF RESPIRATORY CARE

Beverly Recny (2009), Director and Assistant Professor; Respiratory Care; B.S., Kent State University; A.A.S., Northern Virginia Community College; M.S., Capella University; Ed.D. in progress, Northcentral University

Full-time Faculty

Christina B. Hall (2007), Assistant Professor; Respiratory Care; B.S., York College of Pennsylvania; MS., University of Maryland

Part-time Faculty

Robyn McGinnis (2009), Adjunct Clinical Instructor; Respiratory Care; A.S., Midlands Technical College; B.S., Clemson University

Jacqueline N. Moyano (2008), Adjunct Clinical Instructor; B.S., Millersville University.

Thomas Murphy (1998), Adjunct Associate Professor; Respiratory Care; B.A., B.S., Virginia Polytechnic Institute and State University, M.D., Eastern Virginia Medical School

Erin Sterling (2006), Adjunct Clinical Instructor; Respiratory Care; A.A.S., Allegany College of Maryland; B.S. in progress, Shenandoah University

BERNARD J. DUNN SCHOOL OF PHARMACY

*Alan B. McKay (1995), Dean of the Bernard J. Dunn School of Pharmacy and Professor, Pharmacy Practice; B.S., Mercer University; M.S., Ph.D., University of Mississippi

*Arthur F. Harralson (2002), Associate Dean for Research and Professor, Pharmacy Practice; B.A., California State University; Pharm.D., University of California

*Mary Ann Kirkpatrick (2001), Associate Dean for Student Affairs and Professor, Pharmacy Practice; B.S., University of North Carolina at Chapel Hill; Certificate in Aging Studies, M.S., Ph.D., Virginia Commonwealth University

*Mark S. Johnson (1999), Director of Postgraduate Education and Associate Professor, Pharmacy Practice; B.S., Pharm.D., Medical College of Virginia of Virginia Commonwealth University

Full-time Faculty

*Erin Adams (2004), Associate Professor, Pharmacy Practice; Pharm.D., Medical College of Virginia of Virginia Commonwealth University

^Richard T. Addo (2008), Assistant Professor, Pharmacogenomics; Ph.D., Mercer University, B. Pharm., University of Science & Technology, Ghana.

*Marcia L. Brackbill (2001), Associate Professor, Pharmacy Practice; B.S., Pennsylvania State University; Pharm.D., Campbell University School of Pharmacy

^Jennifer E. Bryant (2006), Assistant Professor, Biopharmaceutical Sciences; B.S., Westminster College, Ph.D., Kent State University

^H. Christina Chang (2009), Assistant Professor, Pharmacy Practice; B.A., University of Virginia; Pharm.D., Massachusetts College of Pharmacy and Health Sciences

^Jennifer N. Clements (2007), Assistant Professor, Pharmacy Practice; Pharm.D., Campbell University

*Wendell L. Combest (1998), Professor, Biopharmaceutical Sciences; B.S., Southern Methodist University; M.S., Ph.D., University of Arizona

*Thomas M. Ellington (1997), Associate Professor, Pharmacy Practice; B.S., East Tennessee State University; Pharm.D., Mercer University

^Jeremy R. Fox (2009), Assistant Professor, Pharmacy Practice; Pharm.D., Shenandoah University

^James S. Green (2006), Assistant Professor, Pharmacy Practice; B.S., United States Naval Academy; M.S.Ed., Old Dominion University; M.B.A., Pharm. D., Shenandoah University

*Dawn E. Havrda (2003), Associate Professor, Pharmacy Practice; B.S., University of Pittsburgh; Pharm.D., University of Texas

^Nina Hengen (2009), Assistant Professor, Biopharmaceutical Sciences; M.D., School of Medicine, University of Belgrade, Serbia; Ph.D., University of Texas

^Michelle L. Horn (2009), Assistant Professor, Pharmacy Practice; B.A., Queens University of Charlotte; Pharm.D., University of Maryland School of Pharmacy

*Robert Kidd (1998), Professor, Biopharmaceutical Sciences; B.S., University of Tennessee; Pharm.D., University of Tennessee Center for Health Sciences; Ph.D. in progress, The Ohio State University

*Mitsi Lizer (2005), Associate Professor, Pharmacy Practice; Pharm.D., University of Michigan

*Alla Marks (2004), Associate Professor, Pharmacy Practice; B.S., University of Florida; M.B.A., University of South Florida; Pharm.D., Shenandoah University

*Wallace A. Marsh (2006), Associate Professor, Biopharmaceutical Sciences; M.B.A., M.S.Ed., Nova Southeastern University; B.S., M.S., Ph.D., University of Texas

*Kelly P. Masters (2004), Associate Professor, Pharmacy Practice; Pharm.D., Medical College of Virginia of Virginia Commonwealth University

^Susan J. Morikawa (2008), Assistant Professor, Pharmacogenomics; Pharm.D., University of Maryland, B.S. Pharmacy with distinction, University of New Mexico, B.A. Biology, University of Colorado at Boulder

^Amanda Munson (2008), Assistant Professor, Pharmacogenomics; B.S., University of Michigan; Ph.D., Georgetown University

*David Newton (1996), Professor, Biopharmaceutical Sciences; A.A., St. Petersburg Junior College; B.S., M.S., Ph.D., University of Florida

*Sarah A. Parnapy (2005), Associate Professor, Pharmacy Practice; Pharm.D., Albany College of Pharmacy

- *Regina R. Peacock (2001), Associate Professor; Biopharmaceutical Sciences; B.S., Ph.D., University of Georgia
- *Ateequr Rahman (2004), Associate Professor; Biopharmaceutical Sciences; B.Pharm., Kakatiya University (India); M.B.A., Northeast Louisiana University; Ph.D., University of Louisiana at Monroe
- *Craig Richard (2003), Associate Professor; Biopharmaceutical Sciences; B.S., University of Massachusetts-Amherst; M.S., Ph.D., Albany Medical College
- ^Elizabeth A. Sheaffer (1998), Assistant Professor; Pharmacogenomics; B.A., Virginia Polytechnic Institute and State University; M.B.A., Shenandoah University; Ph.D., George Mason University
- *Douglas Smith (2000), Associate Professor; Pharmacy Practice; B.S., University of Pittsburgh; Pharm.D., University of Maryland
- ^=Jessica M. Trompeter (2007), Assistant Professor; Pharmacy Practice & Physician Assistant Studies; A.A., Rainy River Community College; B.S., University of Minnesota-Duluth; M.B.A., Pharm.D., Shenandoah University
- ^Emily M. Vescovi (2009), Assistant Professor; Pharmacy Practice; B.A., Pharm.D., Wilkes University, Nesbitt School of Pharmacy

Part-time Faculty

- Stephen P. Boykin (2007), Adjunct Clinical Assistant Professor; Pharmacy Practice; B.S., M.S., University of Maryland; M.B.A., New Hampshire College
- Mary Jo Carden (2006), Adjunct Assistant Professor; Biopharmaceutical Sciences; B.S., University of Pittsburgh; J.D., The Catholic University of America
- Fred Davis Chatelain (2005), Adjunct Clinical Assistant Professor; Pharmacy Practice; B.S., University of Texas; M.S., National-Louis University
- ^Susan Cornett (2009), Adjunct Assistant Professor; Pharmacy Practice; Pharm.D., Shenandoah University; B.S.Pharm, University of North Carolina; B.S., North Carolina State
- ^Denise L. Glasser (1999), Adjunct Assistant Professor; Pharmacy Practice; B.A., William Jewell College; Pharm.D., University of Missouri
- ^Adam B. Gold (2007), Adjunct Assistant Professor; Pharmacy Practice; B.S., Duquesne University; Pharm.D., Shenandoah University
- ^Gretchen L. Johnson (1997), Auxiliary Adjunct Assistant Professor; Pharmacy Practice; B.S., Pharm.D., Medical College of Virginia/Virginia Commonwealth University
- ^Rhonda Koch (2005), Adjunct Associate Professor; Pharmacy Practice; B.A., Simpson College; B.S., M.P.A. candidate, Drake University
- ^Sarah Long (2000), Adjunct Assistant Professor; Pharmacy Practice; B.A., University of Virginia; Pharm.D., Medical College of Virginia/Virginia Commonwealth University
- ^Michael T. Madsen (2007), Adjunct Assistant Professor; Pharmacy Practice; Pharm. D., Shenandoah University
- John R. Metz (2005), Adjunct Clinical Assistant Professor; Pharmacy Practice; B.S., Medical College of Virginia; M.B.A., James Madison University
- ^Tracey J. Nickola (2006), Adjunct Assistant Professor; Pharmacogenomics; A.A.S., State University of New York-Alfred; B.S., M.S., State University of New York-Fredonia; Ph.D., State University of New York-Buffalo
- Tonya Smith (2009), Adjunct Instructor; Pharmacy Practice; M.B.A. candidate, M.H.A., Pharm.D., University of Maryland
- Robert C. Stout (2006), Adjunct Clinical Assistant Professor; Pharmacy Practice; B.S. Ohio State University
- Hillary Wall (2000), Adjunct Assistant Professor; Pharmacy Practice; Pharm.D., University of California at San Francisco
- ^Cynthia C. Winter (2001), Adjunct Instructor; Biopharmaceutical Sciences; B.S., M.A., Marshall University

UNIVERSITY LIBRARIES

Christopher A. Bean (1989), Director of Library Services and Senior Librarian ; B.A., University of New Hampshire; M.L.S., University of Rhode Island; M.A., Virginia Polytechnic Institute and State University

Full-time Faculty

Stacy B. Baggett (2008), Librarian III and Electronic Resources Librarian; B.S., M.B.A., East Carolina University; M.L.S., North Carolina Central University

Denise A. Blake (2002), Librarian I and Health Sciences Librarian; B.S., Auburn University; M.L.S., The Catholic University of America; Ed.D., Shenandoah University

Rosemary A. Green (1982), Librarian III and Graduate Programs Librarian; B.A., Virginia Polytechnic Institute and State University; M.S.L.S., University of North Carolina; Ph.D., Deakin University (Australia)

David L. McKinney (1999), Librarian II and Assistant Librarian for Public Services; B.A., Concord College; M.S.I.S., University of Tennessee

Megan Williams (1996), Librarian II and Assistant Librarian for Technical Services; B.S.N., University of Maryland; M.S.L.S., The Catholic University of America

Part-time Faculty

Lucinda Thomas (2000), Librarian I Reference Librarian; B.S., Shippensburg State College; M.S.L.S., Drexel University

FACULTY EMERITI

John P. Balcer (1972), Professor, English; A.B., Middlebury College; M.A., John Carroll University; Ph.D., Kent State University

Brandon H. Beck (1983), Professor Emeritus, History; B.A., Gettysburg College; M.A., University of Virginia; Ph.D., University of Rochester

Sue Marston Boyd (1970), Professor Emeritus, Music (Piano); B.M.E., Shenandoah University; M.M., University of Cincinnati, College & Conservatory of Music; D.M.A., The Catholic University of America

Edward E. Brandt (1981), Professor Emeritus, Biology; B.A., M.A., Southern Illinois University; Florida State University; Ph.D., University of Sarasota

Verne E. Collins (1958), Professor Emeritus, Arts Management and Business; B.S., Bowling Green University; M.M., Northwestern University; M.B.A., Shenandoah University; Ed.D., University of Michigan

Richard G. Creasey (1993), Professor Emeritus, Education; B.S., Shippensburg University; M.Ed., Ed.D., Pennsylvania State University

Warren E. DeArment (1972), Professor Emeritus, English; A.B., Dickinson College; M.A., Ph.D., University of Pittsburgh

Eugenia Evans (1963), Professor Emeritus, Music; B.M., M.M. Conservatory of Prague, Czechoslovakia and State Conservatory (Ukraine)

John W. Happ (1972), Professor Emeritus, Chemistry; B.S., University of Maryland; Ph.D., University of Georgia

Ashley Hastings (1995), Professor Emeritus, Teaching English to Speakers of Other Languages; B.A., M.A., Ph.D., Indiana University

Harold Herman (1973), Distinguished Professor Emeritus, Theatre; B.A., Wayne State University

Stephen K. Johnston (1972), Professor Emeritus, Conducting/Music (Clarinet); B.M.E., University of Evansville; M.M., D.M.A., University of Maryland

James H. Laster (1973), Professor Emeritus, Music; B.A., Maryville College; M.S.L.S., The Catholic University of America; M.A., Ph.D., George Peabody College for Teachers

Daniel A. Pavsek (1992), Professor Emeritus, Economics and Information Systems Technology; A.B., Maryknoll College; M.A., Cleveland State University; M.S.I.S.T., The George Washington University; Ph.D., Case Western Reserve University

John D. Proe (1990), Professor, Management and Health Care Administration; B.A., The Citadel; M.H.A., Baylor University; Ph.D., University of Iowa

Travis L. Sample (1990), Professor, Public Administration; B.S., University of Houston; M.S., Southern Illinois University; M.P.A., D.P.A., University of Southern California

Jackson Sheats (1972), Professor Emeritus, Music; B.A., Columbia College

Daris L. Small (1972) Professor Emeritus, Nursing; R.N., Kings Daughters Hospital; B.S., Shepherd College; M.S.N., Marymount University; M.S.Ed., Madison College; Ed.D., West Virginia University

Bruce C. Souders (1966), Professor Emeritus, Humanities and University Historian; B.A., Lebanon Valley College; M. Div., United Theological Seminary; M.A., Columbia University

Marion Sung (1974), Professor Emeritus, Music Therapy; B.A., Taiwan Normal University (Taiwan), M.M.Ed., University of Kansas

Catherine A. Tisinger (1991), Distinguished Professor Emeritus, History/Geography; B.A., The College of Wooster; M.A., Ph.D., University of Pennsylvania

DEAN EMERITUS

Stanley E. Harrison (1999), Dean of the Harry F. Byrd, Jr. School of Business and Professor, Business; B.E.E., Ohio State University; M.S., University of New Mexico; Doctor of Science (hon), Shenandoah University; Doctor of Humane Letters (hon), The Ohio State University

PRESIDENT EMERITUS

James A. Davis (1982), President; A.A., Ferrum College; B.A., Randolph-Macon College; M.A., Virginia Polytechnic Institute & State University; Ph.D., Florida State University

2010-11 Academic Calendar

Fall Semester/Trimester I

July 9	Last Day to Apply for Summer Graduation to Graduate in August
August 14	Summer Commencement, 10 a.m.
August 20	Last Day to Register to Avoid Late Registration Fee
August 23	Fall Semester/Trimester I Classes Begin
August 30	Last Day to Drop or Add a Course
September 6	Labor Day/Administrative offices closed Classes Do Not Meet
October 11-12	Fall Break/Administrative Offices Open Undergraduate Classes Do Not Meet Some Graduate Classes Meet
October 29	Last Day to Apply to Graduate in December 2010
November 1-23	Early Registration for 2011 Spring Semester, Trimester II
November 17	International Convocation 3 p.m. (3 p.m. Classes Canceled)
November 17	Last Day to Withdraw from a Semester Course
November 24-26	Thanksgiving Break for Students Classes Do Not Meet
November 25-26	Thanksgiving Break Administrative Offices Closed
November 29 -December 6	Study Week
December 7-10	Semester Examinations
December 10	Semester Ends
December 11	Trimester I Ends
December 13 -January 7	Holiday Break for Students Administrative Offices Open (unless noted) Classes Do Not Meet
December 15	Payment due for 2011/Spring Term Registration
December 23, 24, 27 & 31	Administrative Offices Closed/Holiday Break

Trimester programs:

All graduate education programs except TESOL.

Please Note:

Some dates overlay between Spring and Summer Terms. Any applicable dates for Summer or Trimester III are listed under that heading.

Summer/Trimester III Add/Drop Policy:

The last day to add or drop a course differs for summer term and is based on duration of meeting times.

- Courses meeting one to three weeks: first day of class and the following business day
- Courses meeting four to six weeks: first day of class and the following two business days
- Courses meeting seven to nine weeks: first day of class and the following three business days
- Courses meeting ten to twelve weeks: first day of class and the following four business days

Spring Semester/Trimester II

January 7	Last Day to Register to avoid Late Registration Fee
January 10	Spring Semester/Trimester II Classes Begin
January 17	Martin Luther King Service 3 p.m. (3 p.m. Classes Canceled)
January 17	Last Day to Drop or Add a Course
March 7-11	Spring Break/Administrative Offices Open Classes Do Not Meet
March 15	Last Day to Apply to Graduate in May
March 23	Creative Scholarship Day Student Attendance Mandatory No Classes until 5 p.m.
March 29 - April 20	Early Registration for 2011 Fall Semester/ Trimester I
April 12	Last Day to Withdraw from a Semester Course
April 15	Trimester II Ends
April 22	Good Friday/Administrative Offices Closed Classes Do Not Meet
April 25-28	Study Week
April 28	Last Day of Semester Classes
April 29	Apple Blossom/Administrative Offices Closed Classes Do Not Meet
May 2-6	Semester Examinations
May 6	Commencement Rehearsal 3-4:30 p.m. for all graduating students participating in the commencement service
May 6	Baccalaureate Service at 7 p.m.
May 7	Spring Commencement Service at 2 p.m.

Summer Sessions/Trimester III

March 7-25	Early Registration for 2011 SU Summer 1, Trimester III Classes beginning prior to June 30
March 29 -April 20	Early Registration for 2011 S2 Summer 2 Classes beginning on/after July 1
April 15	Payment Due for Early Registration for 2011 SU Summer 1, Trimester III Session Classes
April 18-22	Trimester III Registration
April 25	2011/SU Summer 1 Session, Trimester III Begins
April 29	Apple Blossom/Administrative Offices Closed Classes Do Not Meet
May 30	Memorial Day/Administrative Offices Closed Classes Do Not Meet
June 15	Payment Due for Early Registration for 2011 S2 Summer 2 Classes
July 1	2011/S2 Summer 2 Session Begins
July 4	Independence Day/Administrative Offices Closed/Classes Do Not Meet
July 29	Trimester III Ends
August 15	Payment Due for 2011/Fall Term Registration

Contacting Shenandoah University

www.su.edu

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Admissions (800) 432-2266 or
(540) 665-4581

Support Services

Academic Enrichment Center (540) 665-4928

Business Office (540) 665-4514

Financial Aid (540) 665-4538

Registrar's Office (540) 665-5585

Residence Life and Housing (540) 665-4611

Security (540) 678-4444

Student Accounts (540) 678-4476

Student Affairs Office (540) 665-4517

Wilkins Wellness Center (540) 665-4530

Academic Deans and Directors

Bernard J. Dunn School of Pharmacy (540) 665-1282

College of Arts & Sciences (540) 665-4587

Global & Community Education (540) 665-5442

Harry F. Byrd, Jr. School of Business (540) 665-4572

Northern Virginia Campus (571) 223-0238

Shenandoah Conservatory (540) 665-4600

School of Education & Human Development (540) 665-4643

School of Health Professions:

Division of Athletic Training (540) 545-7385

Division of Nursing (540) 678-4374

Division of Occupational Therapy (540) 665-5540

Division of Physical Therapy (540) 665-5520

Division of Physician Assistant Studies (540) 542-6208

Division of Respiratory Care (540) 535-3592