



# Virginia State University

Building A Better World



## 2012-2014 Graduate Catalog

Virginia State University  
1 Hayden Drive  
Virginia State University, Virginia



**GRADUATE CATALOG  
2012-2014**

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*While every effort is made to assure accuracy, Virginia State University does not assume responsibility for any misrepresentation which might arise through error in the preparation of this or any other of its catalogs, or through failure to give notice of changes in its requirements, policies, tuition and fees, course offerings, and other matters affecting students.*

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## **ADMINISTRATION OF GRADUATE PROGRAMS**

The Dean of the College of Graduate Studies and Graduate Coordinators exercise general responsibility for administration of graduate study and for university-wide policies, requirements, procedures and standards of graduate study. However, within this framework, the development, promotion, and delivery of instruction are the primary responsibility of graduate faculty members in individual program areas.

Much of the work of the Graduate Coordinators is accomplished through four subcommittees: (1) Policies and Petitions, (2) Graduate Curriculum, (3) Graduate Professional Education, and (4) Graduate Record Examination. The Policies and Petitions Committee has responsibility for decisions on written appeals from students seeking exceptions to policy, recommendations for suggested policy changes, and nominations to membership on the Graduate Faculty. The Graduate Curriculum Committee is responsible for approval of graduate curriculum changes and curriculum proposals. The Graduate Professional Education Committee serves as the principal unit for articulation and evaluation of all aspects of advanced-level professional education programs. The Graduate Record Examination Review Committee reviews policy, makes recommendations for exceptions, and designs procedures for the Graduate Record Examination.

Graduate programs follow a general and flexible pattern, which emphasizes an area of specialization. In keeping with the policy of individualizing programs, each student will pursue a program consistent with his/her previous preparation and experience and directed toward his/her personal and professional objectives. Programs leading to the doctorate degree, master's degree or to the certificate of advanced graduate study may be completed during the regular sessions in all fields of study. They may be completed also during the summer sessions or, in many fields, through study in the evenings, in the late afternoons, and on Saturday mornings. Military, school, and industrial personnel find the scheduling flexible. No distinction is made among regular day courses, evening or Saturday offerings, or summer session courses. The standards and academic requirements are the same.

## **GENERAL INFORMATION**

### **HISTORY AND PHILOSOPHY OF GRADUATE STUDY AT VIRGINIA STATE UNIVERSITY**

During the summer of 1937, Virginia State offered graduate courses for the first time in two fields—elementary education and secondary education in English, history and social sciences. In 1939, most departments of the institution offered one or more graduate courses, and the Division of Graduate Studies was established. As a result of continued growth and expansion, the Board of Visitors raised the status of the advanced studies areas to the Graduate School in September 1968.

Prior to September 1968, the Graduate Faculty was assigned all responsibilities related to graduate studies; the programs were coordinated by the Director of the Division of Graduate Studies and Research. The first director, J. McNeile Hunter, was later appointed Dean of the College and served in both capacities thereafter, until his retirement from administration in 1966. In September 1966, the second director was appointed, and the Graduate Faculty established a Graduate Committee and three subcommittees to provide leadership for, recommend policy to, and execute policies of the Graduate Faculty. In September 1968, a Graduate Council was established and made responsible to the Educational Council of the College. The duties of the Council were assigned in 1969 to the Education Committee of the Graduate Faculty.

The School of Graduate Studies and the School of Continuing Education were merged in July 1993 to form the School of Graduate Studies and Continuing Education. The School changed its name in September 2012 to the College of Graduate Studies. It is one of five colleges headed by a Dean. The School of Graduate Studies does not have a separate faculty. The members of the Graduate Faculty are highly qualified persons who may also teach undergraduate courses. They are nominated by the graduate faculty of affected program areas, and are approved by the Policies and Petitions Committee of the Graduate Council.

The philosophy central to all graduate programs in the University includes the following views. First, graduate programs take as a principal purpose, the development and extension of significant specialization in a major academic discipline, interdisciplinary area or profession. Second, each program has sufficient breadth to include essential study in supporting areas and disciplines. As a corollary, programs in the professions include study in the basic academic disciplines from which they are derivative or on which they rest and, in addition, include essential study in

supporting areas and disciplines. Third, each program takes as an objective the development of habits of scholarship and understanding and competence in research consistent with the level and nature of the program. Fourth, each program in the professions takes as an objective the development of skills and competencies essential to responsible practice.

Graduate education is centered in academic program areas. The primary purpose of the graduate program is to offer capable students an opportunity and facilities for advanced study and research in their fields of specialization. One of its aims is to assist students in achieving an advanced level of understanding and competence necessary for successful professional careers.

#### **ACCREDITATION AND AFFILIATIONS**

Virginia State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award bachelor's and master's degrees, a certificate of advanced graduate study, and a doctorate degree.

The graduate professional and professional education programs are fully accredited by the National Council for Accreditation of Teacher Education and the Virginia State Board of Education. The University is a member of the American Association of Colleges for Teacher Education as well as the American Council on Education. In addition to other numerous professional organizations related to the various academic programs, the University has membership in the following:

American Association of University Women  
 American College Health Association  
 Association of American Colleges  
 Association of Continuing Higher Education  
 Association of Virginia Colleges Conference of Southern Graduate Schools  
 Council of Cooperative College Projects  
 Council of Graduate Schools of the United States  
 National Association of Schools of Music  
 National Association of State Universities and Land Grant Colleges  
 National Commission of Accrediting  
 National University Continuing Education Association  
 Oak Ridge Associated Universities  
 Southern Universities Research Association

#### **CAREERS AND GRADUATE STUDY**

In general, all graduate programs provide preparation or continued preparation for a number of careers ordinarily associated with the various fields of study which they represent. For example, students interested in one of the

sciences or mathematics should study in one of those fields; historians should concentrate in history or combine it with political science offerings if cooperatively advised by major professors. Similarly, students interested in careers in education should enter some aspect of the teaching curricula either as majors in the academic area only or as majors who combine studies in the discipline with other studies in human development, research, measurement or learning theory.

More information about majors and careers may be found in the descriptions of the individual programs given in later sections of the catalog.

#### **STUDENT SERVICES AND FACILITIES**

The University offers a variety of extra-curricular programs of a cultural, educational, social, and recreational nature. These programs supplement and enhance the academic program. In addition, numerous supporting services are provided to meet specific student needs. Graduate students are invited to participate in the total University program and to take advantage of available student services.

The Vice President for Academic Affairs bears direct responsibility for the coordination of these programs and services, which are administered through the following offices: Alumni, Athletics, Counseling Services, Financial Aid, Placement Services, Resident Student Activities, Health Services, and Veterans Affairs.

Several services and programs are available to graduate students through the Graduate School Office. An orientation program is offered each year in cooperation with this office to acquaint new graduate students with services and facilities.

#### **ALUMNI OFFICE**

All graduates are members of the Alumni Association. The Association offers a continuing opportunity for the Alumni to serve the University and to maintain a strong sense of identity with their Alma Mater. Interested friends of the University may be granted associate membership. A nominal membership fee secures all membership privileges. The Association publishes the quarterly *Alumni Newsletter*, which is distributed to all active alumni on its roster.

#### **ATHLETICS AND RECREATION**

All University students are encouraged to participate regularly in athletic activities of their choice. The physical education facilities, the track, swimming pool, and tennis courts are available for students' use.

### **FINANCIAL AID**

Qualified students demonstrating a need for financial assistance may apply for loans, scholarships, grants, and part-time employment through this office. Brief descriptions of the various aid programs may be found in the "Expenses and Financial Aid" section of this catalog.

Additional information and application forms may be obtained from the Financial Aid Office, Carter G. Woodson Avenue. All requests for application forms and additional information regarding graduate fellowships should be directed to the School of Graduate Studies.

### **INTERNATIONAL EDUCATION**

The Dr. George H. Bennett Office for International Education assists graduate students in identifying opportunities for research, teaching, and study abroad. Scholarships are available to currently enrolled students who have been accepted into an education abroad program for which they will receive credit toward their degree program.

### **LIBRARY FACILITIES**

Located in the center of campus, Johnston Memorial Library houses primary and secondary materials needed to support the academic and research programs of the University. It provides a full complement of research and information services to the University community. The Library contains approximately 250,200 monographs, approximately 1,255 periodicals and newspapers, 746,333 microform pieces, 27,144 audio-visual pieces including government publications and musical scores.

The Library participates in a statewide electronic resource-sharing consortium, the Virtual Library of Virginia (VIVA). The Library provides local and remote access to 200 databases, over 8,800 full text journals and newspapers, nearly 10,000 full text works of poetry and verse drama, and over 300,000 additional full text materials, including statistical reports and pamphlets. The book and serial collections, along with a wealth of online databases are accessible through the Library's webpage and through TROY, the Online Public Access Catalog (OPAC) with special services for the visually impaired. The Library provides local and remote access to Interlibrary loan, online reserves and self help information literacy activities. Visit the website at <http://library.vsu.edu>

The Media Center houses videos, CDs, DVDs, audiotapes and other media. It also has a full array of multimedia services and provides wheel chair accessible multimedia services. The Center provides large screen text

enhancements, talking books and other media for students with disabilities. The renovated library contains a 24-hour computer lab, cyber café and 24-hour study area to accommodate the University's diverse student population.

The Library has a seating capacity for 600 students and shelving capacity for approximately 300,000 books. Facilities include 21 private study rooms with hardware and wireless capability and 4 group conference rooms with smart boards for leading edge presentations. There are numerous individual carrels. The Library has a 40 seat electronic classroom to train students in information literacy.

Full reference service is available to the entire University community. The Reference Department provides interlibrary loan services through cooperative lending agreements. The Special Collections Department, with a full-time archivist, contains historical documents, memorabilia, and artifacts, which are available to both the campus community and other researchers.

The Library is a selective depository for United States and Virginia government publications. The collection of more than 200,079 federal and state documents offers a wealth of information.

### **CAREER SERVICES**

The Career Service aids students and alumni in locating positions after graduation. It also assists students in locating on-campus employment opportunities.

For better service to graduates, students should register with the Career Services Office upon admission to the College for their degree. The office attempts to maintain files of current vacancies. Alumni are encouraged to inform the office of their desire for position changes.

### **HOUSING**

Accommodations for a limited number of graduate students are available in University residence units. Mostly double accommodations are available, but a few single units are available. Requests for University residence accommodations are honored as completed application materials are received. Inquiries about housing should be addressed to the Director, Residence Life and Housing, Virginia State University. Payments must be made as requested in order to effect the reservation of rooms. Assistance in locating off-campus housing also may be secured from this office.

### **CAMPUS PARKING**

Parking permits are required of all persons affiliated with the University who plan to park vehicles on campus for an extended period. At the time of registration, interested students should obtain a brochure outlining current parking

policy and purchase a parking permit (decal) if needed. The following general policies regarding parking apply to faculty, staff, and students:

All vehicles, with two exceptions, parked on the campus grounds must display a valid parking permit. The first exception is for vehicles operated by individuals who have been issued a "Handicapped" permit by the Commonwealth of Virginia. Vehicles displaying the "Handicapped" permit must park in spaces provided throughout the campus which are specifically marked for handicapped vehicles. All parking lots have at least one "handicapped" space and are strategically located to ease movement by drivers or passengers of the vehicle. The second exception is for short term visitors to the campus who are parked in the Honor Parking Lot No. 7, located at the corner of Jackson Place and University Avenue.

Visitors to the campus who are not eligible for a visitor's permit must park in the lot designated as "Honors Parking" (Lot No. 7) and pay the posted parking fee. A space in the Honor Parking lot has no specific time limit during any given day. An individual who removes a vehicle from the lot forfeits all rights to the space in which the vehicle was parked. The Honor Parking Lot is the only lot on campus in which a vehicle may be parked without a decal or permit. Fees for the Honor Parking lot are required at all times between the hours of 7:00 a.m. and 7:00 p.m.

#### **STUDENT PARKING**

Any vehicle with a University Student decal may park in a lot designated as "Student Parking."

#### **RESTRICTED FACULTY/STAFF PARKING**

Restricted Faculty/Staff Parking lots are marked with signs at the entrance to each parking lot. These lots are used by faculty/staff whose vehicles display the University Faculty/Staff parking decal. Unauthorized vehicles parked in these spaces will be ticketed and/or towed.

Questions regarding parking should be directed to the Department of Police and Public Safety at 524-5360.

#### **STUDENT ACTIVITIES**

The campus center, Foster Hall, serves as a social, cultural, educational and recreational center for all student groups. This center contains a snack bar and cafeteria, meeting rooms, information desk, television areas, music lounges, billiards and game areas, assembly hall, rooms for dancing, and art display space. The Foster Hall center serves as a focal point for campus hospitality.

#### **STUDENT IDENTIFICATION CARD**

Each currently enrolled student must possess a valid student Identification (ID), which may be revalidated for up to four (4) years. The Identification Card is used for health service, athletics, dining hall, library, special activities and other related services. The student is responsible for the use

and misuse of the assigned ID card. A charge will be made for replacement of a lost or mutilated card.

#### **STUDENT HEALTH SERVICES**

Memorial Hospital, named in honor of the loyal sons and daughters of the University who sacrificed their lives in World War I and II, is a health center with a dispensary and temporary facilities for bed-patients. Students may secure treatment by presenting the usual identification.

Health and accident insurance is required for full-time students. Students must demonstrate that they have full health and accident insurance. If students do not have insurance coverage, the University has several arrangements with private companies offering student health insurance policies. Information and applications relative to health insurance may be obtained at the Student Affairs Office.

Prior to enrollment, all full-time students enrolling for the first time at VSU are required to furnish a health history, to include proof of up-to-date immunizations against the following diseases: measles, rubella, polio, diphtheria, and tetanus. If a full-time student has not provided the University with this information, he/she will not be allowed to enroll or remain enrolled.

#### **COMPUTER LABORATORIES**

The University operates a number of computer laboratories for student use. Several of the laboratories are specialized to meet the needs of specific discipline areas: mathematics, computer science, and career and technical studies. Others are provided for general student use.

#### **TESTING SERVICES**

Students may arrange to have standardized aptitude and achievement tests administered through the Graduate School Office. Information concerning these tests may be obtained from this office or from the Office of Institutional Planning and Assessment.

#### **VETERANS AFFAIRS AND MILITARY PERSONNEL**

Service personnel on active duty and veterans of the U.S. Armed Forces who intend to study under the Federal Acts should consult the Veterans Affairs Counselor, who is associated with the Office of Student Affairs.

Veterans desiring advanced pay should register with the Veterans Counselor at least 60 days prior to the beginning of the semester.

#### **PUBLIC LAW 87-815**

Veterans studying under this law should receive clearance from the Veterans Counselor to register. The Veterans Administration pays the cost of tuition, fees, books, and supplies.

## FINANCIAL INFORMATION

### TUITION AND FEES

For information, see the current *Tuition and Fee Guide*, available at <http://www.vsu.edu/student-accounts/tuition-fees.php>.

### GRADUATE TUITION

Any student who already holds a bachelor's degree is considered a graduate student for purposes of assessing tuition fees. For any course, undergraduate or graduate, taken by a student who has graduated from college with a bachelor's degree, the fee charged is the graduate tuition fee.

### AUDITING FEES

Students approved to audit a course will be charged at the same rate as for credited semester hours.

### APPLICATION FEE

Every application must be accompanied by an application fee. This fee is non-refundable, non-transferable to another session, and non-deductible from the fees charged for tuition, room, board, etc.

### TRANSCRIPT FEE

The Registrar's Office is the source for all University transcripts. A nominal fee is charged for each transcript requested.

### COMPREHENSIVE EXAMINATION FEE

The comprehensive examination fee will be charged when a student enrolls in the comprehensive exam course and is not enrolled in any other courses.

### THESIS FEE

This fee will be charged when the student enrolls in Thesis in Absentia (no credit hours) during any semester.

### LATE REGISTRATION FEE

Registration dates for the first and second semesters are provided in the University Calendar and Course Schedule Bulletins. A late fee is assessed after the open registration period ends.

### GRADUATION FEE

Students are required to file for graduation and pay the applicable administrative fee for processing the master's diploma. Additional fees are assessed for keepsake cap, gown, and hood necessary for University graduation ceremonies.

### FINANCIAL ASSISTANCE

Qualified students requiring financial assistance can apply for loans, scholarships, grants and part-time employment through VSU's Office of Financial Aid, which you can contact at: (804) 524-5990 or (800) 823-7214. Find more information on the VSU Web site.

### GRADUATE ASSISTANTSHIPS/FELLOWSHIP

Virginia State University awards graduate assistantships annually to students who have demonstrated exceptional promise and achievement. These assistantships provide a stipend students per year. Graduate assistants may be required to work 25 hours per week.

Qualified students interested in applying for graduate assistantships should contact the department chairperson of the program area they wish to pursue.

### GUARANTEED LOANS

Federal guaranteed loans are available to graduate student, whether they have full-time jobs or not. The maximum loan (currently \$8,500 a year for two years) is available to full-time students. Half the amount is available to part-time graduate students who are carrying at least six hours per semester.

### APPLICATION FOR FELLOWSHIPS, ASSISTANTSHIPS, LOAN

The Application for Graduate Fellowship/Assistantship is available in the Graduate Office. Guaranteed Student Loan Applications are obtained from the Financial Aid Office. The Financial Aid Form (FAF), also obtained from the Financial Aid Office, must be filed each year to establish eligibility for loans and work-study assistantships.

### VETERAN'S ASSISTANCE

Virginia State University has been approved under the provisions of Public Law 550, Public Law 634, and Public Law 89-358. Veterans eligible under Public Law 550 receive a monthly allowance paid directly to them while in attendance at the University. It is intended to cover the costs of fees, books, and basic living expenses. Individuals who are children of deceased veterans are eligible for certain educational benefits under Public Law 634. Veterans with more than 180 days of active duty, any part of which occurred on or after February 1, 1955, are eligible for one month of college, vocational or similar education for each month or fraction of a month on active duty. A veteran who wishes to receive the benefits of Public Law 550 and Public Law 89-358 should contact the Office of Veterans Affairs to initiate paperwork for benefits.

### OTHER AID

Sponsored research programs offer assistantships to graduate students whose interests correlate with the goals of research projects. Applicants should consult with the chief investigator.

Several positions as resident hall counselors are open to graduate students. Applications for these positions should be made to the Director of Residence Life and Housing.

Occasionally, graduate students may be selected for part-time jobs by offices and other non-teaching departments of the University to which graduate assistant funds do not apply. Graduate students may consult the Director of Financial Aid and/or the Director of Career Planning and

Placement. Sometimes graduate students may find part-time jobs in the local community.

## ADMISSIONS AND OTHER ACADEMIC REGULATIONS FOR A GRADUATE DEGREE

### Admissions Requirements

An applicant for graduate study is expected to hold the bachelor's degree from a college of recognized standing. The applicant's preparation must be appropriate to the desired program, and must meet the requirements of the specific degree program pursued.

Each prospective graduate student must submit an application to the Graduate College and receive a letter of admission before registering for courses.

A senior at Virginia State University who has a superior scholastic record and is within six hours of qualifying for the bachelor's degree may be admitted to graduate studies; but work applied toward the bachelor's degree may not be used as credit for the master's degree. Enrollment in graduate courses must be approved by the departmental chairman and the Dean of the College of Graduate Studies.

Admission requirements for the Doctor of Education degree in Educational Administration and Supervision are described in the section entitled, "Doctor of Education Degree Program."

### Application Procedures

All prospective graduate students apply for admission either (1) to a program leading to a degree or (2) to a non-degree program for certification, in service training, or for professional or personal improvement. ***Each student applying for admission should specify on the application the program to which he/she is applying and make sure that he/she is meeting the specific program criteria as determined by the respective program.***

All applications are expected to be made on the official graduate application form of Virginia State University, which may be obtained from the College of Graduate Studies Office. The completed application should be returned to the Graduate College Admission's Office. All supporting credentials, scores, and references should be mailed directly from the original source to the College of Graduate Studies Office. ***Final admission determination will be made by the program to which the student has applied.***

The application ***deadline*** for admission to graduate study is May 1 for the Fall semester, and by November 1 for the Spring Semester. The University will make every effort to process applications received after these dates, but the student's registration may be delayed, late fees may result, or consideration for the desired term may not be assured.

### Application Procedures for Student Seeking a Degree

1. Submit a completed application form with the fee of \$25 (cashier's check or money order made payable to Virginia State University) to the College of Graduate Studies Office. **Students who apply electronically must use the University's web site to pay the \$25.00 fee.**
2. Have two official transcripts from the school (s) granting the degree (s) attended sent to the College of Graduate Studies. To be considered official, a transcript must be received DIRECTLY from the institution concerned. Graduates of Virginia State University must comply with this requirement.
3. An applicant has to have taken the GRE by the time she/he applies. GRE requirements differ by program. Applicants who do not meet GRE program requirements can be admitted on a conditional basis (for one semester only). Students admitted on a conditional basis can only take a total of nine credit hours of course work until they have met the GRE requirements of their respective program. After the first semester, the student needs to have met the specific GRE program requirements.
4. Requests for transfer credit for graduate courses already completed must be submitted to the student's major professor with evidence that it is a graduate level course; a catalog description for the course is necessary to determine its equivalency to offerings at this University.
5. Applicants whose native language is not English are required to present a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Exceptions are made for transfer students from other U.S. colleges who have completed at least one semester of course work with a grade point average of "C" or better.
6. Applicants applying for a graduate fellowship should be sure that the Application for a Graduate Fellowship is filled out and returned with their Application for Admission.

### Application Procedures for Non-Degree Study

1. Submit a completed application form with a fee of \$25 (cashier's check or money order made payable to Virginia State University) to the College of Graduate Studies Office. **Students who apply electronically must use the University's web site to pay the \$25 fee.**
2. Attach a statement of study objectives.
3. Have two official transcripts of the record leading to the most advanced degree attained sent to the College of Graduate Studies Office. To be considered official, a transcript must be received **directly** from the institution. Graduates of Virginia State University must comply with this requirement (with the exception that only one transcript is needed).
4. An applicant who is a candidate for a degree at another institution should also submit a statement

from an appropriate official certifying such status and authorizing study here.

### **Types of Admission**

Admission to the College of Graduate Studies as a graduate student is of three types—unconditional, conditional, and special. In addition to the general admission requirements for graduate study at Virginia State University, academic program requirements must be satisfied. The specific requirements for each program are found under the description of the program.

#### **Unconditional Admission**

1. Graduates of a regionally accredited college, with a minimum grade-point average of 2.6 (on a 4-point scale) may be granted unconditional admission provided all other prerequisites have been met. The grade-point average is based on either the last two years of college or the entire undergraduate record, whichever is better, except that the grade-point average of a student who attended more than one college is based on the entire record.
2. Applicants must meet the requirements for admission to the program of their proposed majors. (See program descriptions.)

#### **Conditional Admission**

Students are granted conditional admission to the College program under the following guidelines:

1. A graduate of an institution approved as a four-year college by the State Department of Education in the state where it is located, but not accredited by its regional accrediting agency, may be admitted conditionally; however, he/she must have an undergraduate average of at least 2.5.
2. An applicant who is a graduate of a college fully accredited by its regional accrediting agency, but whose academic average is lower than 2.6 will only be considered on an individual basis.
3. Applicants who have met the general admission requirements of the Graduate College but who have not cleared program area admissions requirements may be admitted conditionally, pending program area action.

#### **Removal of Conditional Status**

The student must remove his/her conditional status and attain unconditional status by (1) earning an average of 3.0 in the first nine hours of courses in an approved program of study; (2) meeting all program area requirements for unconditional admission; and (3) earning an average of 3.0 in all undergraduate prerequisites listed in the approved program of study.

#### **Special Admission for Non-Matriculating Students**

Students who possess baccalaureate degrees and wish to study for their own personal growth may be allowed to take course work as non-matriculating "special" students.

Students admitted to resident workshops and institutes and to approved off-campus graduate courses, but who are not pursuing a program of study, will be considered special students.

A visiting student pursuing graduate work at another institution may, with the approval of the appropriate official(s) of that institution, take courses at Virginia State University for credit to be transferred to the graduate school in which the student is enrolled. Such a student has special status at Virginia State University.

#### **Transfer to a Degree Program**

A special student who wishes to become a degree-seeking student may have his/her classification changed by presenting his/her request to the Dean of the College of Graduate Studies and submitting all required credentials. Not more than nine (9) semester hours of credit earned by a special student may be credited toward the master's degree.

#### **Offer of Admission to Graduate Study**

A written offer of admission is made by the Dean of the College of Graduate Studies to an applicant who has been admitted. The offer specifies the effective date of admission (which normally coincides with the semester requested on the application), the category of admission being offered and the name of the faculty advisor assigned to the applicant. The offer of admission is good for one year.

A written acceptance or rejection of the offer of admission should be sent to the Graduate Office as soon as a decision on graduate study has been made by the student.

A student who enrolls at another institution is considered to have rejected the University's offer of admission. An individual whose offer of admission has lapsed must submit a new application and fee to be reconsidered for admission at a later date.

#### **Re-Application**

Students who are accepted but do not enroll within a one-year period from the semester date for which they were accepted must obtain new application forms from the Graduate College, initiate the application process the same as new students, and pay all fees as required in the application process.

#### **Reactivation**

Records of students who have enrolled previously but have taken no course work during a two-year interval will be deactivated. Once records are deactivated, a student must reapply to the Graduate College, submitting a new application form with required application fees, to continue

with graduate studies. Transcripts of any course work taken during the two-year interval from any other college or university will also be required.

### **Registration**

Dates of registration are listed in the University Calendar. Registration is done via the VSU Banner website. Prior to registration, graduate students who are already enrolled in a program should consult with their advisors and work out programs for the ensuing term. For this purpose, the students should bring with them their Student Program and Data card and copies of their most recent grade reports.

Graduate faculty from program areas and the Dean of the College of Graduate Studies are available in their office during registration to assist students. A late registration fee is charged after the date specified in the University Calendar. The amount charged is listed under *Special Fees*. Registration is not completed until all financial obligations pertaining to it are met.

## **OTHER ACADEMIC REQUIREMENTS**

### **Academic Credit**

The semester hour is the unit of academic credit and represents one hour of lecture or recitation or a minimum of two hours of laboratory work each week for one semester or the equivalent.

### **Academic Standards**

A graduate student who is a candidate for a degree must earn an average of 3.0 or higher in all courses applicable to his/her degree. Only courses with grades of "A," "B," "C," "S," or "P" may be applied to semester-hour requirements for the degree.

Grades of "C" may constitute no more than 20% of the credits offered for graduation, or a maximum of two "C's" in two four-hour courses on the graduate level, whichever is greater. Semester hours with "C" grades in excess of this percentage or the allotted eight hours will not count toward the degree but will be figured in the total cumulative average.

A prerequisite undergraduate course taken in conjunction with a graduate program must be completed with a grade of "C" or better, except that the cumulative average for undergraduate prerequisites must be no less than "B."

Graduate students in non-degree programs are expected to meet and maintain the same academic standards as students in degree programs.

Although Virginia State University encourages a maximum of student responsibility, with a minimum of administrative regulation, it expects each student to maintain appropriate standards in his/her academic

program. The University reserves the right to terminate the registration of any student who does not meet acceptable standards. Academically, a student whose record falls below standard or otherwise indicates a lack of ability or effort needed to succeed in graduate study will be denied permission for further study.

### **Admission to Candidacy**

Admission to graduate study does not imply admission to candidacy for a degree. Students initially admitted into a program leading to a degree are evaluated later for advancement to degree candidacy. A student is eligible to apply for candidacy after he/she has completed a minimum of 12 semester hours of course work at this university in his/her approved program of study. He/she must, however, attain candidacy no later than the semester before he/she expects to graduate. In order to become a candidate for the master's degree, a student must satisfy the following requirements:

1. Satisfactory completion of all requirements for unconditional admission to the College of Graduate Studies and to the academic program, including satisfactory scores on the Graduate Record Examination.
2. Satisfactory completion of the foreign language requirement, where applicable.
3. A minimum of 12 semester hours of graduate-level courses in an approved program of study with a minimum grade-point average of B (3.00).
4. Evidence of proficiency in the use of the English language.
5. Approval of the major professor and of the minor professor where applicable.

The application for admission to candidacy should be filed in duplicate. Application forms can be obtained from the Graduate Office and from the university website, upon their completion, must be returned to the Graduate Office. No student may enroll for Research and Thesis, Thesis in Absentia, Master's Project, or the Comprehensive Examination before he/she has been admitted to candidacy.

### **Application for Graduation**

A candidate for the graduate degree or Certificate of Advanced Graduate Studies must file an Application for Graduation by dates published in the official academic year calendar prior to the appropriate Commencement Exercise.

### **Attendance**

Responsibility for regular class attendance rests with the student. Regulations concerning attendance in a particular course are at the discretion of the instructor and are announced in the opening class session. The University reserves the right to exclude from a graduate program, course, or final examination a student whose attendance in classes is unsatisfactory to the instructor of the class.

### **Auditing Courses**

A student enrolled in a full program of studies, or its equivalent, may audit a course which contributes to his/her program provided his/her advisor approves and the instructor of the course agrees. Credit or grades are not assigned for auditing. Audit courses are not accepted in seminars, practica, research courses, field courses, clinical courses, workshops, or similar courses. (See auditing fees under "Special Fees.")

### **Certifying Hours and Completion of Requirements**

The Dean will certify the completion of degree requirements to an employer upon written request from the student. The request should include the full name, title, address, and zip code of the persons to whom the student wants such certification made. No more than 12 semester hours of course work toward the degree may be certified to any employer by the Dean of Graduate Studies prior to attaining candidacy.

Only the Dean of Graduate Studies is authorized to certify the number of hours completed and the completion of degree requirements to an employer.

### **Change of Degree Program**

Admission to the Graduate College in one program does not entitle a student to transfer to another program without applying for and being accepted by the new program as a new student. Any student wishing to change from one program to another must complete a Change of Major form (which requires a number of signatures including those of the original advisor and the chairperson of the department to which the student wishes to transfer). The forms are available in the Graduate Office.

### **Concurrent Enrollment**

When the need exists, a student enrolled as a degree student may take graduate courses at another accredited institution. Prior approval of the advisor, department head and the Dean of the College of Graduate Studies is necessary. It is the student's responsibility to request credit for such courses and upon completion have an official transcript submitted to the Registrar and Graduate Office. Permission is not ordinarily given for a student to take a course elsewhere for transfer credit during the semester in which the degree is to be awarded.

### **Continuing Education Credit**

The CNED prefix, and the 90 to 99 endings denote the off-campus education courses. Degree seeking students can take CNED courses if they are included on their approved program card. Courses taken for credit through continuing education programs of other institutions must have prior approval of the major professor, the Dean of the College of Graduate Studies and the Chair of Graduate Professional Education Programs.

### **Course Load**

The normal load for a full-time graduate student enrolled during a semester is nine semester hours; a maximum class load is 12 semester hours. To be considered in full-time study the student must be registered for not less than nine semester hours of work. Non-traditional students who are enrolled in an Alternative Program may enroll in 12 semester hours.

The academic load of a graduate student cannot always be measured in terms of formal courses. Frequently, his assignment will consist largely or entirely of research. The Dean of the College of Graduate Studies will determine the extent to which these assignments are the equivalent of a full academic load.

Part-time graduate students, in-service teachers, and other employed personnel are advised not to carry a load in excess of two graduate courses, except by special permission of the Dean of the College of Graduate Studies on recommendation of the major advisor. Without special permission, the course load for part-time students may not exceed six credit hours.

During summer school, graduate students can carry 6 semester hours during both four and a half week sessions. Thus, a student may earn 12 semester hours of credit by attending two sessions of summer school.

### **Course Numbers**

Two levels of courses are open to graduate students. Courses numbered at the 400 level are open to advanced undergraduate and graduate students but must be approved for graduate credit by the major advisor prior to the students' enrolling in the same.

Courses numbered at the 500 and 600 levels are open to graduate students only at the master's level. A graduate student's program of study must show at least fifty per cent (50%) of the courses offered for the degree in the 500-level series. Doctoral students are enrolled in courses at the 700 level.

### **Degree Requirements**

Graduate programs lead to the Doctor of Education (Ed.D.) in Educational Administration and Supervision, Doctor of Philosophy (Ph.D.) in Health Psychology, Master of Arts (M.A.), Master of Science (M.S.) or Master of Education (M.Ed.) degree. The M.A. degree is conferred when the major is in Economics, English, History, or Media Management. The M.S. degree is conferred in all other majors that also include the preparation of a thesis. The M.Ed. degree is conferred in those professional teacher education programs that do not include Research and Thesis in the degree requirements.

**Master of Arts and Master of Science**

General requirements for the Master of Arts and the Master of Science degree are a minimum of 30 hours, which include 24-27 hours of course work plus a thesis (formal research study) of 3-6 hours. Additionally, a 36 to 39 hour non-thesis option is available in selected disciplines.

**Master of Education**

The Master of Education degree may be granted upon fulfillment of any of the following minimum requirements or options:

- a. Thirty semester hours of courses plus an internship or practicum of 3-6 hours.
- b. Thirty semester hours of courses plus a project (including action research or other applied techniques).
- c. Minimum of 36 semester hours of courses. (Some programs require more than 36 semester hours.)

**Doctoral Programs**

The Doctor of Education degree requires the completion 54 credit hours of course work (including six hours of an internship) and completion of a dissertation which has an additional six hours credit. It takes a total of 60 credit hours to complete the degree.

**Certificate of Advanced Graduate Study**

The Certificate of Advanced Graduate Study (CAGS) is designed to provide advanced graduate specialization by completing a prescribed program of study. A minimum of 30 semester hours beyond the master's degree will be required to complete the program. Persons entering the program must hold a master's degree. However, the bachelor's degree or the master's degree must be in an occupational area.

**Duplicate Credit**

Any course used as credit toward another degree (a bachelor's degree or earlier master's degree at VSU or elsewhere) will not be used again as credit in a master's degree program at Virginia State University. A course may be used only once; no duplicate credit is allowed. This applies also to master's degrees being pursued simultaneously at VSU and another institution.

**Faculty Advisors**

Each student admitted to graduate study in a specific program is assigned a faculty advisor by the Chair of the student's major program area. Special students may also be assigned faculty advisors by the Dean. The advisor of the degree-seeking student is the major professor whose responsibilities are to (1) aid the student in planning a program of study, (2) advise the student regarding his/her

progress toward the degree or certificate, (3) advise on student petitions, and (4) aid the Dean in observance of the University policies on graduate study.

**Final Examinations**

In addition to the regularly scheduled course examinations, a candidate for the master's degree must pass satisfactorily a formal examination arranged by the chairman of his /her committee. This examination may be oral or written or both, and will cover the field of the student's major and minor work as well as the specialized area of the student's thesis if his/her program includes one. The student's special committee will report the results of his /her performance on the examination to the Graduate Office within twenty-four hours.

A student who fails his/her final examination for the master's degree may, at the discretion of the Examining Committee, be allowed another examination not earlier than one semester after his/her failure. The Examining Committee, however, may recommend that the student take a course or courses before he/she is allowed a reexamination.

**General Student Appeals**

A student who considers any of the regulations of the College of Graduate Studies, to have adverse effect upon his/her academic progress may request relief by addressing a written petition setting forth the particulars of the situation with approval of his /her advisor. The request should be addressed to the Policies and Petitions Committee in care of the Dean of the College of Graduate Studies. The Committee is composed of six graduate faculty members, plus the graduate dean.

**Grade Appeal**

The appeal procedure for a student in the case of a complaint about perceived inaccurate or unfair grading begins with contacting the faculty member and further contact with the instructor's department chairperson, and then the Dean of the College of Graduate Studies if necessary.

If the appeal is not resolved at any of the above levels, the student may submit a written request for review of the situation by the Policies and Petitions Committee. The chair of this committee is the Graduate College Dean.

**Grading System**

The approved grade symbols and grade symbol definitions are as follows:

<b>Grade</b>	<b>Definition</b>	<b>Quality Points</b>
A	Superior Performance	4
B	Good Performance	3
C	Average Performance	2
D	Below Average Performance	1
F	Failure	0

The following symbols are also used and have no quality point value, thereby being neutral in grade point average determination.

#### **Grade Symbol Definition**

- I The student, otherwise passing, has for good reason failed to complete all requirements. It must be removed in one year or be changed to F.
- P The Pass/Fail grade is used for the Comprehensive Examination.
- S The student who registers for the research and thesis course or the master's project course and has demonstrated satisfactory progress at the end of the semester or summer session, but has not completed the thesis or project, will receive an S. After the work has been completed, a final grade will be given.
- U The student has not demonstrated satisfactory progress in Research and Thesis.
- AU Audit
- W Withdrawn
- NG No grade given. (Used only for graduate students)

All grades earned are included in the determination of the cumulative average.

#### **Release of Records**

The University reserves the right to withhold transcripts, certificates, registration materials, or any other information about a student whose record for financial obligations has not been cleared by appropriate University officials.

#### **Classroom Conduct**

Each instructor is responsible for maintaining a classroom environment that facilitates effective teaching and learning. The classroom environment should be such that it prepares students for behavior that is expected in a civil society.

Disruptive and disrespectful behavior on the part of any student should not be tolerated by the instructor. Instructors may evict students who disrupt the class, and, when students are consistently disruptive, instructors may recommend to the chair that the student be dropped from the course. The instructor should always be in charge and has the right to determine appropriate standards of behavior in the classroom as long as the requirement does not infringe upon the individual's rights. Appropriate classroom decorum should be described in the course syllabus.

#### **Course Syllabus**

Faculty members must provide students with a current course syllabus by the second meeting of class. The course syllabus must be comprehensive and shall include, but not be limited to, the following:

instructor's first and last name;  
semester and year the course is being offered;  
office location and hours the instructor will be available to students;  
Americans with Disabilities Act Policy;  
description of course content;  
course objectives;  
special assignments and examination schedule;  
current bibliography, as appropriate;  
classroom decorum and attendance policies; and  
grading system and other pertinent information.

#### **Graduate Instruction**

Graduate instruction is given by (1) members of the graduate faculty; (2) other members of the program faculty whose level of training can provide the student expert guidance in specific areas in which such instructors possess special competence; (3) certain instructors, not members of the regular Virginia State University faculty, who have been approved to teach specific courses on the basis of preparation comparable to that of the graduate faculty.

In general, approval to teach specific graduate courses is given instructors holding a doctoral degree and possessing experience and competence in the courses to be taught.

#### **Graduate Record Examination (GRE)**

At Virginia State University, all individuals seeking master's, post-master's and doctorate degrees must submit test scores from the Graduate Record Examination (GRE). The GRE scores must be no more than six (6) years old when the student is admitted to the College of Graduate Studies. If the GRE was taken earlier, the student must take it again and submit new scores. The GRE is to be taken prior to enrollment. GRE scores need to be submitted at the time of applying for admission to the graduate program.

#### **Application and Administration**

A computer-based administration of the GRE is given at many locations throughout the state and the country on a year-round basis. The GRE Information and Registration Bulletin is available in the Graduate Office. Students must take the General Test.

#### **Required Standard**

GRE scores vary by program. Refer to your program curriculum for the GRE requirement.

### **Review Courses**

For validation purposes, two courses, ENGL 516 (English Writing Proficiency) and MATH 499 (Mathematics Review), are offered each semester and summer for students who have not met the GRE score requirements.

### **Independent Study**

An advanced graduate student may be allowed to pursue a course through independent study with the approval of his or her advisor, the instructor of the course, and the Dean of the College of Graduate Studies. Approval will not be given when the regular course is available or when the regular course has been unsuccessfully attempted. An outline of course requirements including proposed time schedule and number of credit hours to be assigned must be submitted to the graduate dean over the signature of the student, the advisor, and the instructor.

### **Language Requirements**

Candidates for the Master of Arts or Master of Science degree must offer a minimum of two years of a modern foreign language in their undergraduate programs, or they must pass a reading examination of the language administered by a professor at VSU. French, German, and Russian are approved languages for science majors. For non-science majors, French, German, Russian, Italian, and Spanish are the approved languages, and may vary depending on the program of studies pursued. English is considered a tool language for all students, and may not be substituted as a foreign language for any student, domestic or foreign.

For students who have completed two years of a modern foreign language in high school, one year of foreign language in college will satisfy this requirement.

The language requirement is waived for majors in professional education programs or professional education program sequences, e.g., mathematics education. There is also no language requirement for the program, in economics, career and technical studies, and Psychology.

### **Probation/Dismissal**

Graduate students must maintain a "B" average (3.00) in the courses taken in their approved graduate programs. A student who falls below 3.00 is put on probation with or without written notice from the Dean of the College of Graduate Studies. If the cumulative average is not raised to 3.00 in the following semester, students will be notified by the Dean, in writing, that they have been discontinued from the program.

### **Program Area Requirements**

In addition to the general requirements of the College of Graduate Studies listed, specific requirements of individual programs are listed under Programs of Study,

where applicable. Where no discipline-specific requirements are indicated, the general admission requirements pertain.

### **Program Cards**

A student's program of studies is not official until approved by the Dean of the College of Graduate Studies. The official program of courses for the master's degree must include a minimum of 50 per cent of the total program in major area courses.

### **Reinstatement**

Graduate students suspended for academic reasons are never automatically reinstated. A student may appeal to the Policies and Petitions Committee to be given a chance to gain reinstatement. If the Committee approves, the student is allowed to enroll for one semester only to repeat the course or courses that pulled the average below 3.00 and caused the student to be dropped; no new course work may be taken while the student is seeking to be reinstated. If the student succeeds that semester in raising the average to 3.00, the student must then appeal to the committee for full reinstatement. If, after reinstatement, the grade-point average falls below 3.00 again, the student will not be permitted to continue graduate study at Virginia State University.

### **Residence Requirements**

A minimum of 21 semester hours in a 30-hour program or 24 semester hours in a 36-hour program must be completed through the offerings at Virginia State University. Although full-time study is desirable, it is not required and many of the programs can be completed through part-time study. Some programs have special stipulations concerning part-time study, which should be carefully followed.

### **Retention**

To be retained in an approved program of studies, a student is expected to maintain a minimum cumulative average of B. If the cumulative average in the approved program of studies falls below B, with or without candidacy, the student must bring the cumulative average up to B during the next period of enrollment in the approved program of studies. A student who fails to bring his/her average up to B, or whose average falls below B on a second occasion, will be dropped from the program in which he/she is enrolled.

For the purposes of retention, cumulative averages are to be computed on the basis of hours completed within a student's approved program of studies.

**Schedule Changes**

Schedule changes must have the approval of the student's advisor. With the approval of the advisor and the instructor of the class, a course may be added prior to the close of the second day of classes. A course may be dropped with a grade of "W" (withdrawn, no penalty) up to two weeks after mid-semester.

**Second Master's Degree**

A student with a master's degree from Virginia State University who pursues a second master's degree at the University is exempted from the GRE requirements. Students with master's degrees from other schools who have not taken the GRE must take and pass the GRE. VSU courses that apply to both master's degree programs do not have to be repeated, at the advisor's discretion, but the student must take electives to count toward the total semester-hour requirement of the program: 30, 33, 36, or other. Courses used for one degree can not be used for another degree whether taken at VSU or elsewhere.

**Summary Procedures for the Master's Degree**

1. Submit application (with fee) to the Graduate Office.
2. Have two official copies of transcripts from previous undergraduate and graduate study submitted by colleges/universities sent directly to the Graduate Office. Graduates of Virginia State need only one copy of their transcript.
3. Have recent scores on the Graduate Record Examination sent to the Graduate Office by the Educational Testing Service, prior to registration; or obtain application from the Graduate Office and register for the GRE during the first semester of enrollment. Foreign students must submit TOEFL scores, in addition to the above, prior to admission.
4. After receiving notice of admission from program administrator and Dean of the College of Graduate Studies, obtain three copies of the Student Program and Data Card from the Graduate Office. Plan program with advisor and return all three copies to the Graduate Office for approval by the Dean of the College of Graduate Studies. Upon approval from the Dean, the advisor will receive a copy, the student will receive a copy, and one copy will be retained in the student's file. Until the student completes this process, he or she is not considered to be in a degree or certificate program.
5. Apply for admission to candidacy after completion of a minimum of 12 semester hours of graduate work at VSU in the approved program. A student must attain candidacy no later than the semester before he or she expects to

graduate. A cumulative B average, unconditional admission status, and completion of program requirements for candidacy are required for advancement to candidacy.

6. Candidates for the Master of Arts or Master of Science degree, where applicable, will file a thesis title card approved by the advisor at least six months before the candidate expects to complete all requirements for the degree. Candidates for the Master of Education degree will apply to defend the master's project (if accepting that option) or apply for the oral/written comprehensive at the beginning of the last term of study.
7. Comply with Schedule of Important Dates to Remember (available at the College of Graduate Studies Office) for the last semester of study. File application for the degree for the appropriate commencement by the deadline set in the University Calendar.

**Thesis and Project Standards**

Standards for the thesis and project have been adopted by the Graduate Council. The bulletin which includes these regulations may be obtained from the Graduate Office. The thesis must be satisfactory to the student's Examining Committee in both scholarship and literary quality.

The subject of the thesis approved by the major advisor of the student must be filed with the Dean of the College of Graduate Studies at least six months before the candidate expects to complete all requirements for the degree for which he/she is a candidate.

The thesis advisor for every graduate student is his/her major professor unless the major professor approves the student to develop a thesis under another professor.

The maximum credit assigned under Research and Thesis is three semester hours for all candidates who have credit in a formal research course such as EDUC 513, Educational Research; and ENGL 517, Problems and Methods of Research. Students in departments which do not require a formal course in research techniques may receive a maximum of six semester hours for research and thesis. Each program offering a major for the master's degree has an assigned number for Research and Thesis. Those programs which offer the option of a project have a similarly assigned number.

Students must register for the Research and Thesis course every semester or term until the thesis is completed. Those who progress satisfactorily will receive the grade of "S" at the end of each semester or term. After the thesis has been completed and approved, the student will receive a final grade for his/her work. A student who registers in Research and Thesis and whose performance is deemed unsatisfactory by the major professor will receive the grade of "U" at the end of the semester or term.

Two typewritten copies of the thesis, accompanied by an abstract of not over 1,500 words, approved by the major professor, must be deposited in the Graduate Office for submission to the library.

Project standards will vary according to program requirements and the nature of the project. Students will be guided very closely by their advisors in the preparation of the projects and are expected to adhere to program requirements. The student must also register in the master's project course every semester or term until the project is completed. The grade of "S" will be given at the end of each semester or term if satisfactory progress is made. The student will receive a formal grade for his/her work once the project has been completed and approved.

#### **Time Limit for the Completion of Degree Requirements**

All requirements for the master's degree must be completed within six years from the date of initial registration in the graduate program; excluding periods of military service. Students who encounter unique problems which prevent compliance with this regulation may address an appeal to the Chairman, Policies and Petitions Committee, in care of the College of Graduate Studies.

Under compelling circumstances, students may be awarded extensions, totaling not more than two years, to the present limit of six years. This provision restricts the period for completion of the degree to a maximum of eight years.

All transfer credit for the degree must have occurred within the designated period (six years) prior to the date of graduation. Transfer courses are not eligible for an extension of time. Test scores submitted in support of applications for admission must be within the six-year period.

#### **Transfer Credit from Another Institution**

In a 30-hour program, nine semester hours earned at another accredited graduate school may be accepted toward the master's degree at Virginia State University. In a 36-semester hour program, 12 semester hours may be accepted. In any case, transfer credit from another institution must be approved by the department and must be of "B" quality or higher. Transfer of credit in the core courses is not permitted. The core courses are Foundations of Education, Statistical Procedures in Education and Psychology, and Educational Research.

All transfer credit will be applied after the student's application for advancement to candidacy. Transfer credit cannot be over six years old by the date of graduation; this limit can not be extended.

#### **Withdrawal from Graduate Study**

Students who withdraw officially from the University will receive grades of "W" in the courses in which they are registered.

Students who withdraw without following official withdrawal procedures are subject to receiving the grade of record (F) on the final instructor's grade report.

## **GRADUATE PROGRAMS**

### **COLLEGE OF EDUCATION**

#### Master of Education

Education with concentrations in Elementary Education (PreK-6)\* or Special Education (K-12)\*  
Counselor Education (PreK-12)  
Community Counseling (Non-School Setting)  
Educational Administration and Supervision (PreK-12)  
Organizational Leadership (Non-Endorsed)

#### Doctor of Education

Educational Administration and Supervision

#### Master of Science

Counselor Education (PreK-12)  
Community Counseling (Non-School Setting)  
Media and Technology  
Sport Management

### **COLLEGE OF ENGINEERING AND TECHNOLOGY**

#### Master of Science

Career and Technical Studies  
Computer Science  
Mathematics

### **COLLEGE OF HUMANITIES AND SOCIAL SCIENCES**

#### Master of Arts

Economics  
English  
History  
Media Management

#### Master of Science

Criminal Justice

### **COLLEGE OF NATURAL AND HEALTH SCIENCES**

#### Master of Science

Biology  
Psychology

#### Doctor of Philosophy

Health Psychology

**MASTER OF INTERDISCIPLINARY STUDIES**

Interdisciplinary Studies

**CERTIFICATE PROGRAMS**

Certificate of Advanced Graduate Study (CAGS) in Career  
and Technical Studies  
Project Management

## COLLEGE OF EDUCATION

### PROFESSIONAL EDUCATION PROGRAMS UNIT

#### Mission Statement

Creating a positive learning environment for all students and using evidence-based performance standards to develop reflective practitioners are central to the College of Education's mission. The College of Education promotes and maintains academic programs with research-based pedagogy, technology-based learning, and reflective practices that integrate service to the community, ever mindful of the students' diverse cultural backgrounds. The College of Education is the Unit that prepares quality graduates who become productive members of the Local Community, the State of Virginia, and the Nation.

#### Governance

The College of Education is the governing body for all programs preparing candidates for careers in the field of education. The college offers degrees and endorsement at the undergraduate and graduate levels. The programs in the College are approved by the Virginia Department of Education and accredited by the National Council for the Accreditation of Teacher Education (NCATE).

#### Conceptual Framework

The conceptual framework reflects the shared vision for preparing quality educators. The overall goal of the College of Education at Virginia State University, given its underlying vision, mission, and philosophy, is to facilitate the development of reflective practitioners who create positive learning environments for all students. This goal undergirds the development of successful candidates who are competent, caring, and effective. Through reflective inquiry, candidates use professional knowledge to enhance learning for all students. The following definitions are the foundation of the unit's candidate proficiencies at the initial and advanced levels:

*Competent:* Understanding the central concepts, tools of inquiry, and structures of the content area(s). Understanding ways to enhance the learning process and learning environment through effective use of technology. Creating learning experiences and environments that make the subject matter meaningful for learners.

*Caring:* Showing respect to all learners and empowering them to set achievable goals while maintaining high standards. Demonstrating a commitment to professionalism, continuous reflection, and application of research-based best practices.

*Effective:* Using research-based best practices and performance assessments to guide the learning process and positively impact the learning environment to ensure that

all students acquire the knowledge and skills to face the global challenges of the 21<sup>st</sup> century.

*Reflective:* Reflecting upon and evaluating research and the success of past decisions in an effort to make better decisions in the future.

#### Organization of College

The College of Education is comprised of the following Departments: The Department of Teaching and Learning, The Department of School and Community Counseling, The Department of Administrative and Organizational Leadership, and The Department of Doctoral Studies.

### GRADUATE PROGRAMS

#### Master of Education (M.Ed.)

- Education with concentrations in Elementary Education (PreK-6)\* or Special Education (K-12)\*
- Counselor Education (PreK-12)
- Community Counseling (Non-School Setting)
- Educational Administration and Supervision (PreK-12)
- Organizational Leadership (Non-Endorsed)

#### Master of Science (M.S.)

- Counselor Education (PreK-12)
- Community Counseling (Non-School Setting)
- Media and Technology

#### Doctor of Education (Ed.D.)

- Educational Administration and Supervision

*\*Initial teacher preparation programs only.*

#### Admissions Requirements

Admission requirements for all programs in the College of Education are outlined by each department.

#### Special Policies

The College of Education reserves the right to make changes to any requirements for its endorsement programs according to the policies and regulations of the Virginia Department of Education.

#### Student Organizations

The following student organizations are a part of the College of Education: Chi Sigma Iota; Kappa Delta Pi International Honor Society in Education (KDP)

### ELEMENTARY EDUCATION

Graduate study in Elementary Education is designed to prepare candidates for careers in Elementary Education Pre-K-6 (Initial Licensure). Graduate study in Elementary Education leads to the Master of Education.

**Admission Requirements:**

Candidates seeking admission must:

\_\_\_\_\_ Complete a graduate application

\_\_\_\_\_ Have an undergraduate GPA of not less than 2.7 or better on a 4.0 scale (cumulative at the end of the final semester of undergraduate work, or be granted provisional admission followed by a review after completion of 6 hours.

\_\_\_\_\_ Present a competitive GRE score according to University policy.

\_\_\_\_\_ Candidates must successfully complete the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA)

\_\_\_\_\_ Submit official transcripts to verify core content areas for Elementary Education.

Candidates are solely responsible for meeting all requirements prior to being moved into Phase II of the program.

*I. Candidates must maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.*

*II. Upon admission (conditional or unconditional), pre-candidates must complete "program cards" in consultation with their advisor during their first semester of enrollment. Program cards will be signed by the advisor. Upon approval of the program card by the Dean of the Graduate School, the advisor and candidate will receive a copy.*

**PROGRAM REQUIREMENTS FOR MASTERS OF  
EDUCATION DEGREE  
IN  
ELEMENTARY EDUCATION**

**University Core**

EDUC 501: Foundations of Education	3 credits
EDUC 513: Educational Research	3 credits
STAT 510: Statistical Procedures in Education	3 credits
Total University Core	9 credits

**Professional Education Core**

EDUC 503: Seminar in Special Education	3 credits
EDUC 520: Technologies of Media	3 credits
EDUC 530: Curriculum & Instructional Materials in Elementary Education	3 credits
EDUC 531: Language Acquisition & Literacy in Elementary School I	3 credits
EDUC 534: Language Acquisition & Literacy in Elementary School II	3 credits
EDUC 535: Data Driven Assessment in Instruction & Elementary Education	3 credits
EDUC 536: Internship in Elementary Education	3 credits
EDUC 541: Behavior Management in Educational Settings	3 credits
EDUC 580: Masters Action Research	3 credits
PSYC 512: Human Growth and Development (Required for Licensure)	3 credits

**Total Professional Core      30**

**Summary Requirements**

The Program in Elementary Education (PK-6) is designed for candidates who have a four- year degree and desire to teach in elementary schools. The program leads to an initial endorsement in Elementary Education and a Master of Education degree. The candidate's transcript will be evaluated to determine if the curriculum prerequisite requirements approved by the State have been completed. In addition, the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA) must be satisfied during the admission phase. The Reading for Virginia Educators (RVE) Assessment must be satisfied prior to candidacy. Assessment requirements may change according to the Virginia Department of Education licensure regulations.

**PHASE ONE: ADMISSION**

Candidates seeking admission must:

\_\_\_\_\_ Complete a graduate application

\_\_\_\_\_ Have an undergraduate GPA of not less than 2.7 or better on a 4.0 scale (cumulative at the end of the final semester of undergraduate work, or be granted provisional

admission followed by a review after completion of 6 hours.

\_\_\_\_\_ Present a competitive GRE score according to University policy.

\_\_\_\_\_ Candidates must successfully complete the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA)

\_\_\_\_\_ Submit official transcripts to verify core content areas for Special Education.

Candidates are solely responsible for meeting all requirements prior to being moved into Phase II of the program.

**III. Candidates must maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.**

• *Upon admission (conditional), candidates must complete “program cards” in consultation with their advisor during their first semester of enrollment. Program cards will be signed by the advisor. Upon approval of the program card by the Dean of the Graduate School, the advisor and candidate will receive a copy.*

#### **PHASE II – ADMISSION TO CANDIDACY**

Candidates seeking candidacy must complete “Admission to Candidacy” paperwork with their advisor and submit to the graduate office. Paperwork is in attachment section of handbook as well as online.

Candidates must

1. Complete a minimum of 12 hours of course work
2. Maintain a B average or above in all content and core courses
3. Submit an application for candidacy

***Other important information regarding admission to candidacy:***

- Admission to candidacy must be completed no later than one semester prior to graduation
- Candidates may not apply for candidacy and graduate in the same semester

#### **PHASE III: CANDIDACY**

Upon submission and approval of candidacy paperwork to the graduate office, candidates advance to the candidacy phase of their program.

Candidates must

1. Advance to candidacy
2. Complete all required coursework
3. Participate in a full-time internship
4. Receive a clinical/site supervisor evaluation
5. Receive a university supervisor evaluation

***Other important information regarding candidacy phase:***

- Candidates must complete all required coursework and maintain a cumulative GPA of 3.0.
- IV. Candidates must pass the Reading for Virginia Educators (RVE) Assessment before doing their graduate internship.
- Candidates must apply for graduation at the graduate office. Applications are due prior to the end of the first month of the graduation semester. (see Academic calendar)

#### **PHASE IV: PROGRAM COMPLETION**

Candidates must:

1. Successfully complete all required coursework and phases of candidacy
2. Successfully complete the Action Research course (EDUC 580) that is the final course before graduation.
3. Apply for graduation
4. Complete candidate exit survey

***Other important information regarding program completion:***

- Candidates must apply for graduation through the graduate office by the dates identified (see website).
- It is the candidates' responsibility to complete and submit the required paperwork for licensure.
- Exit surveys will be completed at the conclusion of the action research project.

#### **PHASE V: GRADUATE FOLLOW-UP**

1. Participate in a graduate follow-up survey
2. Employee follow-up survey

#### **Course Descriptions**

##### **EDUC 501 FOUNDATIONS OF EDUCATION - 3 semester hours**

This course is designed to develop an understanding of the historical, philosophical, and social foundations underlying the role, development, and organization of public education in the United States. This course outlines the legal status of teachers and students, including federal and state laws and regulations; schools as an organization/culture, and contemporary issues in education. Close attention is paid to the relationships among assessment, instruction, and monitoring student progress. \* Field experiences embedded in this course show the alignment between regular and special education; how the current curriculum (SOLs) impacts student learning, and how the laws regulate learning experiences and instruction.

##### **EDUC 503 SEMINAR IN SPECIAL EDUCATION- 3 semester hours**

This course provides knowledge of historical perspectives; characteristics of children and youth with disabilities; developmental milestones; medical aspects of disabilities; the influence of the family system and cultural/environmental issues related to disabilities, the educational implications; understanding the ethical and practice of accepted behavior; an understanding and application of legal regulations and statues with regards to disabilities which include but not limited to IDEIA, § 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, the No Child Left Behind Act, etc., and the current regulations governing special education with placements and rights and privileges of parents and students. \*Field Experiences are embedded in this course. Candidates in the Special Education program are responsible for participation in collaborative consultative

classrooms and inclusive classrooms with students with disabilities in K-12 schools. This course gives an overview of the exceptionalities and how they fit into the regular curriculum.

##### **EDUC 513 EDUCATIONAL RESEARCH - 3 semester hours**

This course is oriented to the methodology of research and investigation in education. The candidates develop, with guidance, a research outline (and pilot study) with emphasis on the following: (1) statement of the problem, (2) related studies, (3) rationale of the proposed study, (4) hypothesis writing, and (5) procedures to be used in collection and evaluation of data. The course will include some examination of significant studies in the field of education and their significance for educational practice. This course is a core course, required of all Masters candidates and should be taken after STAT 510.

##### **EDU 520 TECHNOLOGIES OF MEDIA- 3 semester hours**

A variety of instructional media; such as Laser Disc, Digital imagery, Computer Assisted Instruction and personal productivity tools are presented in this course. The emphasis will be on systematically enhancing the teaching-learning process with multi-media instruction and effective computer usage. The course will focus on the basic operation of the computer and the utilization of computers to aid instruction and productivity in the classroom. Candidates will be given the opportunity to reflect upon the most effective and efficient uses of various technologies for individual students, groups of students, and for their own personal use in the classroom. They will be expected to create certain types of software, presentations and materials to achieve instructional goals and objectives.

##### **EDU 530 CURRICULUM AND INSTRUCTIONAL MATERIALS IN ELEMENTARY EDUCATION- 3-semester hours**

This course focuses on curriculum development and instructional procedures in the elementary school. Attention is given to research, theory, practice, current issues, and trends applicable to teaching and learning in the elementary school. Emphasis is placed on the roles of the teacher, classroom learning environments, curriculum integration, and instructional planning and teaching models. The utilization of current and emerging technologies in educational process is emphasized as is the impact of curriculum design and implementation of the education of students with special needs. Candidates will be required to

complete a field experience requirement of 15 hours as a part of this course.

**EDUC 531 LANGUAGE ACQUISITION AND LITERACY IN THE ELEMENTARY SCHOOL I - 3 semester hours**

This course focuses on the research, issues, trends, theory and practice relative to instruction in reading and the other language arts in the elementary school. Attention is given to instructional approaches, methods, materials, and resources for planning, implementing, and evaluating learning. The utilization of current and emerging technologies in the educational process is emphasized as well as the education of students with special needs in the areas of language instruction and literacy. Special attention is given to the assessment of reading skills and how assessment results drive instruction.

**EDUC 534 LANGUAGE ACQUISITION AND LITERACY IN THE ELEMENTARY SCHOOL II - 3 semester hours**

This course is designed to be a continuation of Language Acquisition and Reading I. This course enhances beginning reading skills and emphasizes comprehension skills in content. Special attention is given to the assessment of reading skills and how assessment results drive instruction. Implementation of literature-based instruction is further explored to enhance reading comprehension skills for students.

**EDUC 535 DATA DRIVEN ASSESSMENT IN INSTRUCTION AND ELEMENTARY EDUCATION - 3 semester hours**

This course is designed to investigate various forms of, and issues related to, assessment, from traditional and standardized to performance and authentic. An understanding of the relationship between assessment, instruction and the monitoring of student progress will be developed. There will be investigation of the various forms of assessment such as classroom rubrics and portfolios. Pre-candidates will be required to complete a field experience requirement of 15 hours as a part of this course.

**EDUC 536 INTERNSHIP IN ELEMENTARY EDUCATION**

Internship in Elementary Education is a capstone course for prospective teachers and emphasizes learning through application, analyses, synthesis, evaluation, and reflection. In this educational environment, the student teacher will participate in the planning and implementation of instruction. The student teacher will engage in the teacher-learning process as a reflective practitioner. All of the components of the conceptual framework are applied and formerly assessed at least weekly by the cooperating teacher and the university supervisor(s). The main focus will be to enhance the proficiencies and dispositions of the teacher candidate as a competent, caring, effective and reflective practitioner.

**EDUC 541 –BEHAVIOR MANAGEMENT IN EDUCATIONAL SETTINGS - 3 semester hours**

This course covers skills that shall contribute to an understanding and application of classroom and promote emotional well-being and teach and maintain behavioral conduct and skills consistent with norms, standards, and rules of the educational environment. This course covers areas that address diverse approaches based on behavioral, cognitive, affective, social and ecological theory and practice. \*\*Field experiences are embedded into these courses. Candidates are permitted to participate in classroom planning of instruction; how to utilize time management of lessons; and how to manage inappropriate behaviors. Because of inclusion; inappropriate actions that do not promote learning need interventions. Candidates are taught intervention strategies and how to manage instruction and are given an opportunity to explore these strategies within a classroom setting.

**EDUC 580 – ACTION RESEARCH**

Action Research requires candidates to plan, design, and implement an action research project that relates to problems and issues in a specific area of concentration. Candidates implement the problem and write results following the scientific method. They are required to meet regular with their advisor and present result in a prescribed written form.

**PSYC 512 - HUMAN GROWTH AND DEVELOPMENT**

This course provides an in-depth examination of human development from infancy through adolescence using a theory-based approach. We will explore chronologically the learning and growth processes, paying particular attention to the ways in which growth across the various domains of development (physical, cognitive, social and personality) is intertwined. An emphasis will be placed on recognizing, articulating and critically evaluating the application of developmental theories in research and practice. Emphasis will also be placed on understanding the role of culture in shaping basic psychological processes as well as the universal and culture-specific nature of research observations.

**STAT 510 - STATISTICAL PROCEDURES IN EDUCATION**

An introductory statistics course without a calculus prerequisite. Presentation of data, frequency distributions, descriptive statistics, elementary concepts of probability. Random variables, binomial and normal distributions, sampling procedures, Student's t-test, linear correlation. Interpretation of examples of data which occur in daily life. This course cannot be taken as a mathematics elective by mathematics major.

**SPECIAL EDUCATION**

Graduate study in Special Education is designed to prepare students for careers in Special Education K-12 (Initial Licensure). Graduate study in Special Education leads to the Master of Education.

**Admission Requirements:**

Candidates seeking admission must:

\_\_\_\_\_ Complete a graduate application

\_\_\_\_\_ Have an undergraduate GPA of not less than 2.7 or better on a 4.0 scale (cumulative at the end of the final semester of undergraduate work, or be granted provisional admission followed by a review after completion of 6 hours.

\_\_\_\_\_ Present a competitive GRE score according to University policy.

\_\_\_\_\_ Candidates must successfully complete the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA)

\_\_\_\_\_ Submit official transcripts to verify core content areas for Special Education.

Candidates are solely responsible for meeting all requirements prior to being moved into Phase II of the program.

*V. Candidates must maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.*

*• Upon admission (conditional), candidates must complete "program cards" in consultation with their advisor during their first semester of enrollment. Program cards will be signed by the advisor. Upon approval of the program card by the Dean of the Graduate School, the advisor and candidate will receive a copy.*

**PROGRAM REQUIREMENTS FOR  
MASTERS OF EDUCATION DEGREE IN  
SPECIAL EDUCATION**

**University Core**

EDUC 501 Foundations of Education  
3

STAT 510 Statistical Procedures for Education  
3

EDUC 513 Educational Research  
3

Total University Core  
9

**Education Core**

EDUC 502 Collaboration in LEA with Support Personnel  
3

EDUC 503 Seminar in Special Education  
3

EDUC 580 Action Research  
3

Total Education Core  
9

**Special Education Core**

EDUC 540 Assessment of Instruction and Behavior  
3

EDUC 541 Behavior Management in Educational Settings  
3

EDUC 542 Career and Life Choices  
3

EDUC 543 Language Acquisition and Implementation  
3

EDUC 550 Reading Developments and Achievement in Classroom Settings  
3

EDUC 554 Characteristics of Learners w/Special Needs  
3

EDUC 556 Developing and Implementing IEP  
3

EDUC 558 Curriculum and Instructional Procedures  
3

EDUC 553 Graduate Internship in Special Education  
3

PSYC 512 Human Growth and Development

(Required for Licensure)

Total Special Education Core  
30

### Summary Requirements

The graduate program in Special Education offers a program of study that leads to a Master of Education degree with a focus on Special Education (K-12) is designed for candidates who have a four- year degree and desire to teach. The candidate's transcript will be evaluated to determine if the grade point average have been met. In addition, the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA) must be satisfied during the admission phase. The Reading for Virginia Educators (RVE) Assessment must be satisfied prior to candidacy. Assessment requirements may change according to the Virginia Department of Education licensure regulations.

### PHASE ONE: ADMISSION

Candidates seeking admission must:

\_\_\_\_\_ Complete a graduate application

\_\_\_\_\_ Have an undergraduate GPA of not less than 2.7 or better on a 4.0 scale (cumulative at the end of the final semester of undergraduate work, or be granted provisional admission followed by a review after completion of 6 hours.

\_\_\_\_\_ Present a competitive GRE score according to University policy.

\_\_\_\_\_ Candidates must successfully complete the PRAXIS I and II (Elementary Content Knowledge) assessments, Virginia Communication and Literacy Assessment (VCLA)

\_\_\_\_\_ Submit official transcripts to verify core content areas for Special Education.

Candidates are solely responsible for meeting all requirements prior to being moved into Phase II of the program.

**VI. Candidates must maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.**

• **Upon admission (conditional), candidates must complete "program cards" in consultation with their advisor during their first semester of enrollment. Program cards will be signed by the advisor. Upon**

**approval of the program card by the Dean of the College of Graduate Studies , the advisor and candidate will receive a copy.**

### PHASE II – ADMISSION TO CANDIDACY

Candidates seeking candidacy must complete "Admission to Candidacy" paperwork with their advisor and submit to the graduate office. Paperwork is in attachment section of handbook as well as online.

Candidates must

1. Complete a minimum of 12 hours of course work
2. Maintain a B average or above in all content and core courses
3. Submit an application for candidacy

**Other important information regarding admission to candidacy:**

- Admission to candidacy must be completed no later than one semester prior to graduation
- Candidates may not apply for candidacy and graduate in the same semester

### PHASE III: CANDIDACY

Upon submission and approval of candidacy paperwork to the graduate office, candidates advance to the candidacy phase of their program.

Candidates must

1. Advance to candidacy
2. Complete all required coursework
3. Participate in a full-time internship
4. Receive a clinical/site supervisor evaluation
5. Receive a university supervisor evaluation

**Other important information regarding candidacy phase:**

- Candidates must complete all required coursework and maintain a cumulative GPA of 3.0.

- Candidates must pass the Reading for Virginia Educators (RVE) Assessment before doing their graduate internship.
- Candidates must apply for graduation at the graduate office. Applications are due prior to the end of the first month of the graduation semester. (see Academic calendar)

#### **PHASE IV: PROGRAM COMPLETION**

Candidates must:

1. Successfully complete all required coursework and phases of candidacy
2. Successfully complete the Action Research course (EDUC 580) that is the final course before graduation.
3. Apply for graduation
4. Complete candidate exit survey

#### ***Other important information regarding program completion:***

- Candidates must apply for graduation through the graduate office by the dates identified (see website).
- It is the candidates' responsibility to complete and submit the required paperwork for licensure.
- Exit surveys will be completed at the conclusion of the action research project.

#### **PHASE V: GRADUATE FOLLOW-UP**

1. Participate in a graduate follow-up survey
2. Employee follow-up survey

#### **Course Descriptions**

##### **EDUC 501 FOUNDATIONS OF EDUCATION**

This course is designed to develop an understanding of the historical, philosophical, and social foundations underlying the role, development, and organization of public education in the United States. This course outlines the legal status of teachers and students, including federal and state laws and regulations; schools as an organization/culture, and contemporary issues in education. Close attention is paid to the relationships among assessment, instruction, and monitoring student progress. \* Field experiences

embedded in this course show the alignment between regular and special education; how the current curriculum (SOLs) impacts student learning, and how the laws regulate learning experiences and instruction

##### **EDUC 502 COLLABORATION WITH LEA AND SUPPORT PERSONNEL**

This course is designed to address consultations, case management, and collaboration of service personnel as it relates to the following: SOLs and accountability; assessing the general education curriculum, implementation of collaborative models, develop instructional needs according to individuals' differences; know roles and responsibilities of collaborative teams, and use effective communication with a variety of stakeholders. This core education course presents an overview of strategies and technologies appropriate to the development of effective communication with students, parents, and other family members, school personnel, members of relevant professional disciplines, and the general community pertinent to the quality education of students in regular education, special education and inclusive education. \*Field experiences are embedded in this course. Candidates are held responsible for knowing the special education process and how this process affects school and learning behaviors for all parties which include the individual, the parent, the school, the community. Candidates are taught the importance of including all stakeholders in the learning process.

##### **EDUC 503 SEMINAR IN SPECIAL EDUCATION –**

This course provides knowledge of historical perspectives; characteristics of children and youth with disabilities; developmental milestones; medical aspects of disabilities; the influence of the family system and cultural/environmental issues related to disabilities, the educational implications; understanding the ethical and practice of accepted behavior; an understanding and application of legal regulations and statutes with regards to disabilities which include but not limited to IDEIA, § 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, the No Child Left Behind Act, etc., and the current regulations governing special education with placements and rights and privileges of parents and students. \*Field Experiences are embedded in this course. Candidates in the Special Education program are responsible for participation in collaborative consultative classrooms and inclusive classrooms with students with disabilities in K-12 schools. This course gives an overview of the exceptionalities and how they fit into the regular curriculum.

**(This course is to be taken at the beginning of the candidate's graduate initial licensure program in special education)**

##### **EDUC 540 ASSESSMENT OF INSTRUCTION AND BEHAVIOR**

This course is designed to develop an understanding and application of the foundation of assessment and evaluation

related to best practices; ethical issues and responsibilities in the assessment process; knowledge of the procedures for screening, pre-referral, referral, and eligibility determinations; cultural, behavioral and learning diversity factors which may influence assessment; the administration, scoring, and interpretation of data from commonly used individual and group assessments; data analysis; classroom, organization and curriculum development; scope and sequence of the general education curriculum; how to differentiate instruction in numeracy, alternative ways to teach content, how to evaluate instruction; strategies to promote integration of students w/ disabilities with their nondisabled peers; technology, and structure and organization of the general education classroom. \*Field experiences are embedded in this class on how assessments work. Candidates are a part of the public schools and participate in several types of assessments and how results from these assessments are used to structure instruction.

#### **EDUC 541 CLASSROOM AND BEHAVIOR MANAGEMENT**

This course covers skills that shall contribute to an understanding and application of classroom and promote emotional well-being and teach and maintain behavioral conduct and skills consistent with norms, standards, and rules of the educational environment. This course covers areas that address diverse approaches based on behavioral, cognitive, affective, social and ecological theory and practice. \*\*Field experiences are embedded into these courses. Candidates are permitted to participate in classroom planning of instruction; how to utilize time management of lessons; and how to manage inappropriate behaviors. Because of inclusion; inappropriate actions that do not promote learning need interventions. Candidates are taught intervention strategies and how to manage instruction and are given an opportunity to explore these strategies within a classroom setting.

#### **EDUC 542 CAREER AND LIFE CHOICES**

This course provides the knowledge base to prepare students and work with families to provide transition throughout the educational experience to include postsecondary training, employment, and independent living skills that address long-term planning, career development, community experiences and resources, self-advocacy, and self-determination; coordinates service delivery agencies, have awareness of community resources; and knowledge of related services; accommodations that pertain school to work programs; know about entitlement and eligibility for agency services such as SSI, work incentive, Medicaid and knowledge of generic skills that lead to success in and out of school. \*Field experiences embedded in this course include those by which candidates work closely with the schools and students in planning their transitioning from different phases in their life. They learn how to write transition plans to work collaboratively with all parties involved in the transition process.

#### **EDUC 543 – LANGUAGE ACQUISITION AND IMPLEMENTATION**

This course explores language development and speech and language deficits associated with articulation disorders, voice production, fluency, and hearing loss. Educational interventions to address learner deficits are introduced. Instruction is to be given to demonstrate strategies to deliver instruction and improve student achievement as part of a quality learning experience. Skills in this area shall be designed to impart a thorough understanding of the complex nature of language acquisition which includes phonemic awareness, print, fluency, and vocabulary development. \*Field experiences embedded in this course for candidates are designed so that candidates understand and know the complex nature of language acquisition and reading and how to apply these skills to non-readers.

#### **EDUC 550 – READING DEVELOPMENT AND ACHIEVEMENT IN THE CLASSROOM SETTINGS**

This course provides the knowledge base and demonstration of the skills needed to: (a) assess and develop the language and reading skills of exceptional learners from Pre-K through adolescence, (b) distinguish between the influence of cultural difference and disability in the acquisition and development of skills, (c) develop IEPs based on appropriate use of the general education curriculum and SOLs, (d) design, select, implement, and evaluate reading and language programs, and (e) use technology in language and reading instruction. Skills in this area shall include phonics, reading rate, and comprehension strategies. Additional skills shall include proficiency in writing strategies, as well as the ability to foster appreciation of a variety of literature and independent reading. \*Field experiences embedded in these courses for pre-candidates and candidates are designed so that these candidates understand and know the complex nature of language acquisition and reading and how to apply these skills to non-readers.

#### **EDUC 553 – INTERNSHIP IN SPECIAL EDUCATION**

This supervised field experience provides the graduate candidate with an opportunity to develop and use skills, attitudes, and competencies necessary to be successful in managing and instructing exceptional individuals with diverse needs and backgrounds. The candidate will apply strategies and competencies gained from related courses to the assigned educational setting(s).

#### **EDUC 554 – CHARACTERISTICS OF LEARNERS WITH SPECIAL NEEDS**

This course demonstrates knowledge of definitions, characteristics, and learning and behavioral support needs of students identified as having learning disabilities; emotional disturbance; mental retardation; developmental delay; autism; other health impaired; traumatic brain injury; and multiple disabilities. \*Field experiences are embedded in the course. Candidates are responsible for identifying the various disabilities in the general education classroom

and devising strategies for these individuals to become participatory in the classroom.

### **EDUC 556 – INDIVIDUALIZED EDUCATION PROGRAM IMPLEMENTATION**

This course is designed to apply knowledge of assessment and evaluation throughout the K-12 grade levels to know, use, and assess data from task analysis, observation, portfolio assessment and other curriculum-based measures and to make decision about student progress, instruction, program, accommodations, placements and teaching methodology for students with exceptional needs who assess the general education curriculum across the k-12 classroom setting.

\*Field experiences are embedded in this course. Since this course gives an overview of special education and the special education process, the development of Individualized Education Plans are an integral part of this course. Candidates learn how to write and apply the IEP to the total school program. They learn the language of the IEPs and how this interprets into instruction.

### **EDUC 558 – CURRICULUM AND INSTRUCTIONAL PROCEDURES**

This course is designed to contribute to the understanding of the application of skills in discipline-specific methodology; communication processes; selection and use of materials, including media and computers; evaluation of pupil performance; and the relationships among assessment, instruction, and monitoring student progress to include student performance measures in grading practices, the ability to construct and interpret valid assessments using a variety of formats in order to measure student attainment of essential skills in a standard-based environment, and the ability to analyze assessment data to make decisions about how to improve instruction and student performance. \*Field experiences embedded in these courses ensure the candidates and pre-candidates can read data, read IEPs and teach individuals with disabilities using alternate teaching methods and assistive technology.

### **EDUC 580 – ACTION RESEARCH**

Action Research requires students to plan, design, and implement an action research project that relates to problems and issues in a specific area of concentration. Candidates implement the problem and write results following the scientific method. They are required to meet regular with their advisor and present result in a prescribed written form.

## **THE DEPARTMENT OF SCHOOL AND COMMUNITY COUNSELING**

### **Programs in School and Community Counseling**

The Department of School and Community Counseling is designed to prepare professional counselors in the specialized tracks of School Counseling Prek-12, and Community Counseling. The School Counseling Prek-12 track prepares candidates for careers in schools at grade levels Prek-12, in the elementary, middle and high school settings.

The Community Counseling track prepares candidates for careers in community agency and/or non-school settings (i.e., community service boards, substance abuse centers, military counseling facilities, residential facilities, social service agencies, juvenile detention centers, rehabilitation facilities, court service units, career centers, prevention programs, public/private community agencies, etc.).

Candidates have the option of pursuing either the Master of Education (M.Ed.) or the Master of Science (M.S.) degree. The primary distinction between the degree programs is the M.Ed. is more practice and application oriented, while the M.S. places greater emphasis on research and evaluation. The M.S. requires candidates to complete a quantitatively based, data-driven, research thesis and take an additional research course to possibly prepare for doctoral studies.

### **Admission Requirements**

Admission will be competitive, and candidates will be selected on the basis of the following criteria:

#### **I. Criteria for Departmental Unconditional Admissions:**

- A. Competitive scores on the Graduate Record Examination according to University policy. Official scores should be forwarded to the College of Graduate Studies.
- B. Minimum undergraduate academic performance of 3.0 (4.0 GPA scale)
- C. A descriptive statement describing: a) personal development, b) reasons for seeking this degree, c) personal and professional experiences that influenced you to pursue counseling, and d) attributes you possess which would contribute to your effectiveness as a counselor?
- D. Three (3) Professional Recommendations on letterhead addressing character.
- E. Resume of work experience and education
- F. Official Transcripts from all colleges attended.

G. Professional personal disposition interview and a writing sample of 700 words or more with the Department of School and Community Counseling faculty prior to being formally admitted to the program.

H. Under certain conditions, a candidate may be admitted conditionally for 1 semester.

II. Criteria for possible Departmental Conditional Admission

- A. Present a competitive GRE score according to University policy.
- B. Must meet admission criteria listed above (items C through G)
- C. Must meet minimum undergraduate academic performance of 3.0 (4.0 GPA scale) in the last 2 years of the undergraduate major courses.

#### **PHASE I: PROGRAM ADMISSION AND PRE CANDIDACY**

Candidates must:

##### **PHASE I: ADMISSION TO THE PROGRAM**

1. Submitted complete supplemental application for admission
2. A minimum of a 3.0 GPA
3. Present a competitive score on the GRE according to University Policy
4. Completion of a required essay
5. Admissions interview

##### **PHASE II: MIDPOINT - ADMISSION TO CANDIDACY**

Candidates must:

1. Complete a minimum of 12 hours of course work.
2. Maintain a B grade or above in all content and core courses.
3. Participate in a candidacy disposition interview and personality assessment.
4. Upon approval submit an application for candidacy and program cards.
5. Join state and national professional counseling associations.

##### **PHASE III: CANDIDACY**

Candidates must:

1. Advance to candidacy
2. Complete all required coursework with grades of B or higher.
3. Apply for counseling liability insurance, a background check and fingerprinting maybe required by a school division.

4. Apply to participate in a 200 hour practicum/internship, in grades PreK-5

5. Apply to participate in a 200 hour practicum/internship in grades 6-12

6. Receive a B or better from an on-site supervisor evaluation in clinical practice practicums and internships.

7. Receive a university supervisor evaluation of a B or better in all clinical practice experiences.

8. Submit a counseling practicum and internship electronic portfolio.

#### **PHASE IV: PROGRAM COMPLETION**

Candidates must:

1. Successfully complete the oral and written comprehensive exam or defend their master's thesis.
2. Complete a candidate exit survey.

Prior to graduating, Candidates are requested to complete all licensure documents required by the Virginia Department of Health Professions

#### **PHASE V: GRADUATE FOLLOW-UP**

Candidate must

1. Participate in a graduate and employer follow-up survey.

#### **Program Requirements**

#### **MASTER OF EDUCATION DEGREE (M.ED.) - SCHOOL COUNSELING PRE-K 12 CONCENTRATION**

The Master of Education Degree requires a minimum of 48 hours of academic credit (no more than 6 of which may be transferred from another university) and a written/oral comprehensive examination. All courses require a grade of "B".

The curriculum requirements include:

- a) seven (7) program courses,
- b) three (3) core courses,
- c) two (2) clinical practice courses
- d) three (3) specialization courses,
- e) one (1) or more advisor-approved elective courses.

See the following curriculum guide: ALL courses require a minimum grade of "B".

#### **Course Requirements**

##### **Program Courses: (21 credit hours)**

COUN 524: Ethics in Counseling and Professional Identity	3
COUN 525: Principles of Counseling	3
COUN 527: Career Development and Counseling	3
COUN 529: Theories of Counseling	3
COUN 530: Techniques of Counseling	3
COUN 531: Group Procedures in Counseling	3
COUN 553: Multicultural Counseling	3

##### **Core Courses: (9 credit hours)**

EDUC 513 Educational Research	3
COUN 526 Measurement Evaluation and Appraisal in Counseling	3
COUN 528 Human Growth and Development	3

**Clinical Practice (6 credit hours)**

COUN 537: Practicum	3
COUN 549: Internship	3

Requires candidacy status, completion of the above courses, faculty advisor approval, and the completion of COUN 523 for the school counseling program.

**Specialization School Counseling Courses: (9 credit hours)**

COUN 523: School Counseling (Pre-K-12)	3
COUN 532: Counseling for Special Needs	3
COUN 541: Counseling Children	3

**Electives (Requires 1 or more 3 credit courses)**

COUN 533: Problems and Adjustment	3
EDUC 520: Technologies of Media	3
PSYC 513: Educational Psychology	3
COUN 534: Student Personnel Administration/ Higher Education	3

**Comprehensive Examination**

COUN 599: Oral/Written Comprehensive Examination	3
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**MASTER OF SCIENCE DEGREE (M.S.) – SCHOOL COUNSELING PRE-K 12 CONCENTRATION**

The Master of Science Degree program requires a minimum of 54 hours of academic credit (no more than 6 of which may be transferred from another university if they are no more than 6 years old) and a thesis defense examination.

This concentration includes:

- (7) program courses,
- four (4) core courses,
- two (2) clinical practice courses
- three (3) specialization courses,
- one (1) Master's Thesis course
- (1) or more advisor-approved elective courses.

The curriculum guide is as follows: ALL courses below require a grade of "B" or better.

**Course Requirements****Program Courses: (21 credit hours)**

COUN 524: Ethics in Counseling	3
COUN 525: Principles of Counseling	3
COUN 527: Career Development and Counseling	3
COUN 529: Theories of Counseling	3

COUN 530: Techniques of Counseling	3
COUN 531: Group Procedures in Counseling	3
COUN 553: Multicultural Counseling	3

**Core Courses: (12 credit hours)**

EDUC 513: Educational Research	3
COUN 526: Measurement and Evaluation in Counseling	3
COUN 528: Human Growth and Development	3
STAT 510: Statistical Procedures in Ed. & PSYC.	3

**Clinical Practice (6 credits hours)**

COUN 537: Practicum- requires one whole semester for completion	3
COUN 549: Internship-	3

Requires Candidacy status, completion of the above courses, and faculty advisor approval. Also recommend completion of COUN 523 for the school counseling program.

**School Specialization Courses: (9 credit hours)**

COUN 523: School Counseling (Pre-K-12)	3
COUN 532: Counseling for Special Needs	3
COUN 541: Counseling Children	3

**Elective Courses: (Requires 1 or more 3 credit course)**

COUN 533: Problems and Adjustment	3
COUN 534: Student Personnel Administration/ Higher Education,	3
EDUC 520: Technologies of Media	3
PSYC 513: Educational Psychology	3

**Thesis defense examination**

COUN 539: Counseling Research and Thesis	3
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**MASTER OF EDUCATION DEGREE (M.ED.) - COMMUNITY COUNSELING CONCENTRATIONS**

The Master of Education Degree requires a minimum of 48 hours of academic credit (no more than 6 of which may be transferred from another university if they are no more than 6 years old) and a written/oral comprehensive examination. All courses require a grade of "B".

The curriculum guide includes:

- seven (7) program courses,
- three (3) core courses,
- two (2) clinical practice courses
- three (3) specialization courses,
- one (1) or more advisor-approved elective courses.

**Course Requirements****Program Courses: (21 credit hours)**

COUN 524: Ethics in Counseling	3
COUN 525: Principles of Counseling	3
COUN 527: Career Development and Counseling	3
COUN 529: Theories of Counseling	3
COUN 530: Techniques of Counseling	3
COUN 531: Group Procedures in Counseling	3
COUN 553: Multicultural Counseling	3

**Core Courses: (9 credit hours)**

EDUC 513 Educational Research	3
COUN 526 Measurement and Evaluation in Counseling	3
COUN 528 Human Growth and Development	3

**Clinical Practice (6 credit Hours)**

Requires Candidacy, the above courses, COUN 536 and faculty advisor approval.

COUN 537: Practicum	3
COUN 549: Internship	3

**Specialization Courses for Community Counseling: (9 credit hours)**

COUN 536: Community/Agency Counseling	3
COUN 554: Diagnosis and Treatment	3
COUN 555: Marriage and Family Systems Theory	3

**Electives for all candidates (Requires 1 or more 3 credit courses)**

COUN 533: Problems and Adjustment	3
COUN 534: Student Personnel Administration/ Higher Education	3
EDUC 520: Technologies of Media	3
PSYC 513: Educational Psychology	3

**Comprehensive Examination**

COUN 599: Oral/Written Comprehensive Examination	3
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**MASTER OF SCIENCE DEGREE (M.S.) –  
COMMUNITY COUNSELING CONCENTRATION**

The Master of Science Degree program requires a minimum of 54 hours of academic credit (no more than 6 of which may be transferred from another university if they are no more than 6 years old), and a thesis defense examination.

This includes:

- seven (7) program courses,
- four (4) core courses,
- two (2) clinical practice courses
- three (3) specialization courses,
- one (1) Master's Thesis course
- one (1) or more advisor-approved elective courses.

The curriculum guide is as follows: ALL courses below requires a Grade of "B" or better

**Course Requirements****Program Courses: (21 credit hours)**

COUN 524: Ethics in Counseling	3
COUN 525: Principles of Counseling	3
COUN 527: Career Development and Counseling	3
COUN 529: Theories of Counseling	3
COUN 530: Techniques of Counseling	3
COUN 531: Group Procedures in Counseling	3
COUN 553: Multicultural Counseling	3

**Core Courses: (12 credit hours)**

EDUC 513: Educational Research	3
COUN 526: Measurement and Evaluation in Counseling	3
COUN 528: Human Growth and Development	3
STAT 510: Statistical Procedures in Ed. & PSYC.	3

**Clinical Practice (6 credits hours)**

Requires Candidacy, the above courses and faculty advisor approval

COUN 537: Practicum	3
COUN 549: Internship	3

**Specialization Courses for Community Counseling: (9 credit hours)**

COUN 536: Community / Agency Counseling	3
COUN 554: Diagnosis and Treatment	3
COUN 555: Marriage and Family Systems Theory	3

**Elective Courses: (Requires 1 or more 3 credit course)**

COUN 533: Problems and Adjustment	3
COUN 534: Student Personnel Administration/Higher Education	3
EDUC 520: Technologies of Media	3
PSYC 513: Educational Psychology	3

**Thesis defense examination**

COUN 539: Counseling Research and Thesis	3
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**Summary Requirements****Candidates**

Candidates transferring into the Department of School and Community Counseling will have to adhere to the same program admission criteria as new applicants.

**PHASE I: PROGRAM ADMISSION AND  
PRE CANDIDACY**

Candidates must:

**PHASE I: ADMISSION TO THE PROGRAM**

- Submitted complete supplemental application for admission

2. A minimum of a 3.0 GPA
3. Present a competitive score on the GRE according to University Policy
4. Completion of a required essay
5. Admissions interview

#### **PHASE II: MIDPOINT - ADMISSION TO CANDIDACY**

Candidates must:

1. Complete a minimum of 12 hours of course work.
2. Maintain a B grade or above in all content and core courses.
3. Participate in a candidacy disposition interview and personality assessment.
4. Upon approval submit an application for candidacy and program cards.
5. Join state and national professional counseling associations.

#### **PHASE III: CANDIDACY**

Candidates must:

1. Advance to candidacy
2. Complete all required coursework with grades of B or higher.
3. Apply for counseling liability insurance, a background check and fingerprinting maybe required by a school division.
4. Apply to participate in a 200 hour practicum/internship, in grades PreK-5
5. Apply to participate in a 200 hour practicum/internship in grades 6-12
6. Receive a B or better from an on-site supervisor evaluation in clinical practice practicums and internships.
7. Receive a university supervisor evaluation of a B or better in all clinical practice experiences.
8. Submit a counseling practicum and internship electronic portfolio.

#### **PHASE IV: PROGRAM COMPLETION**

Candidates must:

1. Successfully complete the oral and written comprehensive exam or defend their master's thesis.
2. Complete a candidate exit survey.

Prior to graduating, Candidates are requested to complete all licensure documents required by the Virginia Department of Health Professions

#### **PHASE V: GRADUATE FOLLOW-UP**

Candidate must

1. Participate in a graduate and employer follow-up survey.

All requirements for the master's degree program must be completed within 6 years from the initial admission into the department.

### **Course Descriptions**

#### **COUN 523 SCHOOL COUNSELING (PreK-12) - 3 semester hours**

The developmental role of the school counselor is examined from prekindergarten through 12th grade of high school. Characteristics of learners, skills and processes, program planning and evaluation, coordination, counseling and staffing patterns all will be considered at each school level.

Prerequisites: COUN 526 Measurements and Evaluation in Counseling

COUN 531 Group Procedures and Counseling

#### **COUN 524 ETHICS IN COUNSELING - 3 semester hours**

This course in ethics, in counseling and professional identity is designed to acquaint students with the ethical, legal, and professional issues in counseling. Current trends in with a foundation in the identity of the professional counseling and the elements of ethical practice include: 1) a study of the philosophy and history of the counseling profession, 2) credentialing and professional counseling functioning, and 3) the standards for ethical practice in the counseling profession will be covered.

#### **COUN 525 PRINCIPLES OF COUNSELING - 3 semester hours**

This course provides comprehensive survey of the counseling field, stressing philosophy, principles, and the need for counseling in schools, the community, and higher education.

#### **COUN 526 MEASUREMENT, EVALUATION AND APPRAISAL IN COUNSELING - 3 semester hours**

This course covers measurement, evaluation, and appraisal in counseling. As an advanced course in group testing, it is organized to acquaint professional counselors and other school personnel with the various types of standardized tests, with emphasis on scoring, computations, and interpretation procedures. This course includes the study of: formal and informal assessment procedures, 2) test statistics, 3) validity and reliability in testing and 4) utilization of test finding in the counseling process.

#### **COUN 527 CAREER DEVELOPMENT and COUNSELING - 3 semester hours**

This course explores career development, counseling, psychotherapy theories and techniques, by studying the scope and purpose of the career development process. Special attention is given to: 1) the factors that influence career development, 2) the theories and research related to career decision making, 3) career assessment, along with 4) individual and group career counseling techniques. Occupation, education, and personal-social information resources are reviewed, with a variety of field visits arranged. The course emphasizes the integration of career development concepts in counseling programs for all ages.

#### **COUN 528 HUMAN GROWTH AND DEVELOPMENT - 3 semester hours**

This graduate course is designed to provide an overview of theoretical human development perspectives for counselors. Topics include: 1) the nature of developmental needs from

infancy to adulthood, 2) the elements of development that may influence dysfunction and mental health, and 3) the methods of promoting healthy development across the lifespan. Thus counselors are assisted in studying individuals and their problems, helping pupils understand themselves, and assisting young people and adults in planning realistic courses of action toward solving their problems and developing their potential.

Prerequisites: COUN 525 Principles of Counseling; COUN 526 Measurement and Evaluation

**COUN 529 THEORIES OF COUNSELING - 3 semester hours**

This course in theories of counseling and psychotherapy is designed for the candidate to critically analyze the major theories of counseling and psychotherapy used in the counseling process. Emphasis is placed upon the rationale underlying counseling and theoretical approaches with a focus on: 1) humanistic, 2) cognitive-behavioral, 3) psychodynamic, and 4) post- modern theoretical orientations.

Prerequisites: COUN 524 Ethics in Counseling; COUN 525 Principles of Counseling

**COUN 530 TECHNIQUES OF COUNSELING - 3 semester hours**

This course in techniques of counseling and psychotherapy focuses on the concepts, strategies, and techniques of the counseling process. Attention is given to: 1) establishing the counseling relationship, setting treatment goals, 2) applying listening and interviewing skills in relationship building, 3) initiating termination and 4) recognizing the parameters and limitations of the treatment process as related to practical application of the major counseling theories.

Prerequisite: COUN 529 Theories of Counseling

**COUN 531 GROUP PROCEDURES IN COUNSELING - 3 semester hours**

This course in group counseling, psychotherapy theories and techniques is designed to help counselors learn how to organize and lead effective groups in various settings. Candidates will study group dynamics and group procedures with an emphasis on the developmental needs of all ages. The course provides a didactic and experiential overview of group dynamics including: 1) group selection, 2) forming a group, 3) group interventions and 4) evaluation within the group process.

Prerequisites: COUN 529 Theories of Counseling; COUN 530 Techniques of Counseling

**COUN 532 COUNSELING FOR SPECIAL NEEDS - 3 semester hours**

This course is designed to help counselors identify and gain an in-depth understanding of individuals with special needs and develop counseling skills to assist such individuals.

Prerequisites: COUN 525 Principles of Counseling; COUN 529 Theories of Counseling; COUN 530 Techniques of Counseling

**COUN 533 PROBLEMS AND ADJUSTMENT - 3 semester hours**

This course in problems and adjustment in abnormal behavior and psychopathology focuses on the nature and causes of adjustment problems and of the various techniques utilized by individuals to cope with such problems. Focus on the major categories' of mental disorders including: 1) their etiology and progression, 2) their impact and prevalence, 3) the role of motivation in behavior and adjustment and 4) the evidence of adjustment and maladjustment. Attention is also given to counseling interventions that can assist individuals in learning to cope effectively with mental health adjustment problems.

**COUN 534 STUDENT PERSONNEL ADMINISTRATION IN HIGHER EDUCATION - 3 semester hours**

Student personnel services in colleges and universities are explored, with emphasis on the counselor's role in these settings. Special attention is given to the organization and administration of counseling services in higher education.

**COUN 536 COMMUNITY/AGENCY COUNSELING - 3 semester hours**

This course provides a study of human services in such settings as mental health, social service, religious, penal, rehabilitation and employment agencies. It focuses on the counseling and consulting skills that prepare counselors to provide effective client assistance and to work collaboratively in the community.

**COUN 537 PRACTICUM - 3 semester hours**

This course provides supervised practice of at least 200 hours in a counseling setting similar to the setting in which the candidate may work. Skills and practice includes: 1) 80 hours of face to face counseling experience, 10 hours of field site supervisor's on-site supervision and 3) 10 hours of individual/group off site (faculty) supervision.

Prerequisites: Degree candidacy

Completion of at least 40 semester hours towards degree

**COUN 539 Research and Thesis - 3 semester hours**

This course provides the opportunity for a formal and directed quantitative research investigation into counseling topics, issues, problems and/or outcomes. The principles and processes of performing counseling research includes conducting a formalized study on a counseling topic which includes the development of 3 research chapters: 1) An overview of the problem, 2) A review of the literature, 3) the proposed study analysis, 4) the results of the study and 5) the recommendations and implications for further research .

Prerequisites: Degree candidacy

Completion of at least 40 semester hours towards degree

**COUN 541 COUNSELING CHILDREN - 3 semester hours**

This course will present theories, techniques, and strategies for working with children and adolescents and their families. Explores counseling issues related to this population; provides practice of techniques and strategies with emphasis on supervised practice sessions.

**COUN 549 INTERNSHIP - 3 semester hours**

Provides supervised internship practice of at least 200 hours in a clinical field counseling placement setting similar to the setting in which the Counseling Candidate may eventually work. Skills and practice build on previous practicum experiences. The clinical field hours include a minimum of: 80 hours of face to face counseling, 10 hours of individual on-site supervision, and 10 hours of individual/group off site (faculty) supervision.  
Prerequisite: Faculty endorsement

**COUN 553 MULTICULTURAL COUNSELING - 3 semester hours**

This course in multicultural counseling theories and techniques is designed to cover the issues, characteristics, and needs relevant to diverse populations as they relate to counseling. Candidates explore counseling from a multicultural perspective. Counseling candidates receive an overview of the diverse social and cultural contexts that influence counseling relationships such as culture/race/sex/ethnicity/gender/ SES, etc. The course includes a study of: 1) current issues and trends in a multicultural society, 2) contemporary theories of multicultural counseling, 3) personal awareness of cultural assumptions and biases, along with 4) the impact of oppression and privilege on individuals/ groups with implications for counseling.

**COUN 554 DIAGNOSIS AND TREATMENT - 3 semester hours**

This course in diagnosis and treatment of addictive disorders is designed to assist counselors in the study of the principles of diagnosis and use of current diagnostic tools, including the current edition of the Diagnostic and Statistical Manual. Emphasis is placed on: 1) contemporary theories of addictive behavior, 2) pharmacological classification of addictive substances, 3) assessment of addictive disorders and 4) models of addiction treatment. Additionally, principles and models of biopsychosocial assessments, case conceptualization, concepts of normalcy and psychopathology leading to diagnoses and appropriate counseling plans are covered.

Prerequisites: COUN 529 Theories of Counseling; COUN 530 Techniques of Counseling;  
COUN 536 Community /Agency Counseling

**COUN 555 MARRIAGE and FAMILY SYSTEMS THEORY - 3 semester hours**

This course in marriage and family systems theory is designed to assist counselors in the study of family systems and dynamics by critically analyzing counseling theories and techniques. Emphasis is placed on family structure, dynamics, strategies and techniques employed in family counseling. The course includes an examination of: 1) family therapy interventions, 2) general systems theory, 3) the stages of family life-cycle development, and 4) family therapy intervention theory.

Prerequisites: COUN 529 Theories of Counseling; COUN 530 Techniques of Counseling  
COUN 536 Community/Agency Counseling

**COUN 599 ORAL AND WRITTEN COMPREHENSIVE EXAMINATION - 0 Semester Hours**

Counseling Candidates take an oral and written examination designed to assess their overall knowledge of course work completed in the program and their ability to apply this knowledge to designated sets of situations. This examination allows candidates to demonstrate their skill of integration of theory and course work with practical application. It must be taken during one of the last/final two (2) semesters of enrollment in the program. This course is required of all students seeking M.Ed. in Counseling.  
Prerequisite: Degree candidacy must be met a minimum of one (1) semester prior to course registration

**EDUCATIONAL ADMINISTRATION AND SUPERVISION PK-12**

Graduate study in Educational Administration & Supervision PK-12 is designed to prepare candidates for careers as PK-12 Principals. Graduate study in Educational Administration & Supervision leads to the Master of Education.

**Admission Requirements**

Candidates seeking admission must:

- \_\_\_\_\_ Complete a graduate application
- \_\_\_\_\_ Hold a professional, five-year renewable teaching license.
- \_\_\_\_\_ Have at least 3 years of successful experiences as a teacher by the date the program is completed. A candidate may not enter the last 6 hours of course work until successful professional teaching experience has been satisfied.
- \_\_\_\_\_ Present a competitive GRE score according to University policy.
- \_\_\_\_\_ Provide a reflective personal essay describing educational leadership aspirations.
- \_\_\_\_\_ Have an undergraduate GPA of not less than 2.8 on a 4.0 scale,
- \_\_\_\_\_ Maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.
- \_\_\_\_\_ Have three letters of recommendation from individuals familiar with the applicant's

experiences as an educational professional and potential as an educational leader.

### Program Requirements

#### Program Courses: (9 credit hours)

EDUC 501 Foundations of Education	3
EDUC 513 Educational Research	3
STAT 510 Statistical Procedures in Education and Psychology	3

#### Core Courses: (27 credit hours)

EDAS 590: Introduction to Organization & Administration	3
EDAS 591: Instructional Leadership	3
EDAS 592: Human Resource and Fiscal Management	3
EDAS 593: Leadership Assessment & Development	3
EDAS 583: School Law	3
EDAS 589: School Community Relations	3
EDAS 594: Data Driven Leadership	3
EDAS 679: Internship Seminar	3
EDAS 579: Capstone/Comprehensive Exams	3

#### Completion of the School Leader's Licensure Assessment Exam (SLLA)

##### Summary Requirements

The Master of Educational Administration and Supervision PK-12 is a 36 hour program, which prepares candidates for the role of principal in school-settings. Candidates enrolled in the program must maintain a 3.0 GPA, participate in embedded fieldwork throughout the course of study and complete a full-time summer internship. Prior to graduation all candidates must take and pass the School Leaders Licensure Assessment Exam.

##### Requirements and Transition Points

#### PHASE I: ADMISSION

Candidates seeking admission must:

- Complete a graduate application
- Hold a professional, five-year renewable teaching license.
- Have at least 3 years of successful experiences as a teacher by the date the program is completed. A candidate may not enter the last 6 hours of course work until successful professional teaching experience has been satisfied.
- Present a competitive GRE score according to University policy.
- Provide a reflective personal essay describing educational leadership aspirations.
- Have an undergraduate GPA of not less than 2.8 on a 4.0 scale, or be granted provisional acceptance followed by a review after completion of 6 hours.
- Maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.
- Have three letters of recommendation from individuals familiar with the applicant's experience as an educational professional and potential as an educational leader.

#### PHASE II: MIDPOINT ADVANCE TO CANDIDACY

- Complete a minimum of 12 hours of course work
- Maintain a 3.0 average or above in all content and core course
- Submit an application for candidacy
- Complete the Professional Education Program Leadership Assessment (EDAS 593)

#### *Other important information regarding admission to candidacy:*

- Admission to candidacy must be completed no later than one semester prior to graduation
- Candidates may not apply for candidacy and graduate in the same semester
- Candidacy cannot be obtained if any admission requirements have not been fulfilled.

#### PHASE III: CANDIDACY

Candidates must

- Advance to candidacy
- Complete all required coursework
- Participate in a full-time internship, during the summer session
- Receive a clinical/site supervisor evaluation
- Receive a university supervisor evaluation

#### *Other important information regarding candidacy phase:*

- Candidates must complete all required coursework, receiving no more than 2 C's.

- Candidates, not currently in leadership roles, must arrange their internships to extend over two semesters, to include a full-time summer experience.
- Candidates must enroll in the comprehensive exam course with no more than 3 hours remaining in the program.
- Candidates must apply to participate in comprehensive exams (at the graduate office) prior to the end of the first month of the graduation semester. (see Academic calendar)
- Candidates must apply for graduation at the graduate office. Applications are due prior to the end of the first month of the graduation semester. (see Academic calendar)

#### **PHASE VI: PROGRAM COMPLETION**

1. Successfully complete three years teaching experience
2. Successfully complete all required coursework and phases of candidacy
3. Successfully apply for and complete oral and written comprehensive exam
4. Successfully complete the SLLA with a minimum of 165 and submit scores to VSU
5. Apply for graduation
6. Complete candidate exit survey

#### ***Other important information regarding program completion:***

- Candidates must apply for graduation through the graduate office by the date identified (see website).
- Candidates should complete licensure document requirement by the Virginia Department of Education, an official transcript and payment in form of MO or check and submit to the program coordinator for verification and submission to the Unit Head who will in turn submit forms for licensure. Licensure forms are available online at [www.pen.k12.va.us](http://www.pen.k12.va.us). It is the candidates' responsibility to complete and submit the required paperwork for licensure.
- Exit surveys will be completed at the conclusion of oral exams.

#### **PHASE V: GRADUATE FOLLOW-UP**

1. Participate in a graduate follow-up survey
2. Employee follow-up survey

### **Course Descriptions**

#### **EDUC 501 FOUNDATIONS OF EDUCATION 3 Semester Hours**

A one-semester course designed to provide students with sound basis for interpretation and evaluation of present day educational theories and practices by tracing the influence of historical, sociological, philosophical, and religious views upon the development of the education process.

#### **EDUC 513 EDUCATIONAL RESEARCH 3 Semester Hours**

This course is oriented to the methodology of research and investigation in education. The candidates develop, with guidance, a research outline (and a pilot study) with emphasis on the following: (1) statement of problem, (2) related studies, (3) rationale of the proposed study, (4) hypothesis writing, and (5) procedures to be used in collection and evaluation of data. The course will include some examination of significant studies in the field of education and their significance for educational practice. This course is a core course, required of all Master candidates and should be taken after STAT 510.

Prerequisite: STAT 510 Statistical Procedures in Education

#### **STAT 510 STATISTICAL PROCEDURES IN EDUCATION 3 Semester Hours**

This is a general terminal course designed primarily for graduate students enrolled in professional education research, psychology, guidance, or other behavior sciences. It is defined as an applications approach to methodology of modern research. This course will help prepare individuals to comprehend, interpret, and report statistical results for use in educational research, thesis presentation, and publication in research journals. Elementary and advanced statistical methods will be discussed. Statistical software will be used to analyze and interpret large databases occurring in real life situations.

#### **EDAS 583 PUBLIC SCHOOL LAW 3 Semester Hours**

This course is an introduction to school law that deals primarily with laws relating to elementary and secondary public schools in the United States and addresses non-public schools only inasmuch as they are affected by general status. The course is flexible and may meet the needs of students of educational administration, public school administrators, teachers or laymen who are concerned with current readings and implications of school law.

#### **EDAS 589 SCHOOL COMMUNITY RELATIONS/MULTICULTURAL EDUCATION 3 Semester Hours**

This course provides for the study of the place and function of the school in American social life and investigation of community agencies and institutions, including those concerned with drugs and behaviors, which may be utilized in the interpretation of the school to the community.

**EDAS 590 INTRODUCTION TO ORGANIZATION AND ADMINISTRATION 3 Semester Hours**

Course focusing upon a description of modern practices in organizing and administering schools and other educational agencies; types of agencies and schools, selection and assignment of personnel, programs of study, records, management of physical facilities, pupil personnel guidance, retention and improvement of staff communication within the school and the public. The study of major administrative theories and the impact of management, leadership, and decision-making for school administrators will be addressed. Systems approach to designing and managing quality/high performing educational organizations with emphasis on systems theory, system dynamics and systems modeling.

**EDAS 591 INSTRUCTIONAL LEADERSHIP 3 Semester Hours**

Examines processes of instructional leadership in schools. Primary focus on developing school leadership skills necessary to provide a positive working environment through collaboration and team-building, as well as professional opportunities including supervision and evaluation of curriculum & instruction. Focus will be on best practices that lead to school cultures, which build communities of learning. Appropriate field-based project relating theory to practice will be required.

Prerequisite: EDAS 593 Leadership Assessment & Development

**EDAS 592 HUMAN RESOURCE AND FISCAL MANAGEMENT 3 Semester Hours**

A study of theories and policies related to resource projection and management in schools and school divisions. Finance topics include budget, purchasing and accounting, and procedures for obtaining equipment and materials. Human resource topics include staffing requirements, hiring, evaluation and dismissal procedures, and staff-personnel relationships. Appropriate field-based project relating theory to practice will be required.

Prerequisite: EDAS 590 Introduction to Organization and Administration

**EDAS 593 LEADERSHIP ASSESSMENT AND DEVELOPMENT 3 Semester Hours**

This course of study focuses on the school administrator as manager and leader. The assessment portion of this class will require candidates to participate in self-examination of their leadership skills and abilities. Based on simulation activities and practices, candidate will learn strategies for continuous self-development, growth and personal awareness. In addition candidates will consider the role of school manager and address issues such as safety and educational facilities

**EDAS 594 Data Driven Leadership 3 Semester Hours**

This course focuses on the candidate as a school leader in school improvement. Candidates will explore the role in making effective decisions using data regarding instruction, finances, administration and school improvement. In addition, an in depth study of the change process in relation

to decision making as well as how to provide leadership in a diverse and political environment

Prerequisite: EDAS 593 Leadership Assessment & Development; EDAS 591 Instructional Leadership

**EDAS 679 PRACTICUM/INTERNSHIP 3 Semester Hours Summer**

This course consists of laboratory experiences designed to acquaint educational leaders with the mechanics of leadership, as well as their role in helping other personnel under their leadership to function effectively in today's educational climate.

Prerequisite: Candidate must have advanced to candidacy and have prior approval from advisor to enroll in the internship.

**EDAS 579 CAPSTONE/COMPREHENSIVE EXAM 3 Semester Hours**

This course is a capstone seminar for EDAS master candidates during the final semester of enrollment. It provides synthesis, integration, and application of prior coursework on educational administration and supervision; specifically instructional and organizational leadership, systems thinking and school improvement processes. Preparation for comprehensive exams and the SLLA are keys to this course.

Prerequisite: Completion of all required coursework. To be completed in final semester of enrollment

**ORGANIZATIONAL LEADERSHIP IN ADMINISTRATION AND SUPERVISION**

Graduate study in Organizational Leadership in Administration and Supervision is designed to prepare candidates for careers in community leadership. Graduate study in Organizational Leadership in Administration and Supervision leads to the Master of Education.

**Admission Requirements**

Candidates seeking admission must:

\_\_\_\_\_ Complete a graduate application

\_\_\_\_\_ Present a competitive GRE score according to University policy.

\_\_\_\_\_ Provide a reflective personal essay describing educational leadership aspirations.

\_\_\_\_\_ Have an undergraduate GPA of not less than 2.8 on a 4.0 scale,

\_\_\_\_\_ Maintain a 3.0 GPA at the graduate level in order to be retained in graduate school.

\_\_\_\_\_ Have three letters of recommendations which speaks to candidate's potential as a future leader

**Program Requirements (21 Semester Hours)**

EDAS 500 Leadership Theory & Practice	3
EDAS 501 Org. Beh.: Motivation, Teams & Coaching	3
EDAS 502 Org. Comm: Neg. & Effective Communication	3
EDAS 503 Org. Change: Implementation & Strat. Planning	3
EDAS 504 Action Research for Organizations	3
EDAS 505 Capstone/Comprehensive Exams	3
STAT 510 Statistical Procedures in Education	3

**Concentration (9 Semester Hours)**

EDAS 506 Critical Issues Seminar	3
Approved 500 level or above cognate	3
Approved 500 level or above cognate	3

**Note:** Program changes expected during Spring 2013.

**Summary Requirements**

The program in Educational Administration and Supervision, offers a program of study that leads to the MEd in Organizational Leadership. The Organizational Leadership degree is offered to candidates who do not seek licensure to work in schools. This MEd program is designed to enable candidates to acquire knowledge and develop competencies that will make them effective leaders at any level of an organization. All candidates will take 21 hours of core curriculum. The remaining 9 hours will be taken in EDAS 506 (3hours) and two approved electives (6 hours) at 500 level or above.

**Requirements and Transition Points****PHASE I: ADMISSION**

1. Submit completed application
2. A minimum of a 2.8 GPA
3. Competitive score on the GRE according to University policy
4. 3 letters of recommendation

5. Completion of a required essay
6. Meet with advisor to complete program cards & plan of study

**PHASE II: ADMISSION TO CANDIDACY**

1. Complete a minimum of 12 hours of course work
2. Maintain a 3.0 average or above in all content and core course
3. Submit an application for candidacy (through Graduate Office)
4. Meet with advisor to sign candidacy and review plan of study

**PHASE III: MIDPOINT**

1. Maintain 3.0 G.P.A
2. Complete a minimum of 15 hours of course work

**PHASE VI: PROGRAM COMPLETION**

1. Meet with advisor one semester prior to graduation
2. Oral and written comprehensive exam (through Graduate Office)-Must apply and enroll
3. Candidate exit survey

**PHASE V: GRADUATE FOLLOW-UP**

1. Graduate follow-up survey
2. Employee follow-up survey

**Course Descriptions****MASTER OF ADMINISTRATION & SUPERVISION  
ORGANIZATIONAL LEADERSHIP**

The Med in Administration & Supervision: Organizational Leadership follows a cohort model. The availability of the classes are based on a rotation scheduled determined by entry in the program.

**EDAS 501 ORGANIZATIONAL BEHAVIOR  
3 semester hours**

An understanding of human behavior within organizations. Candidates will study motivational theories, team management and coaching techniques as it relates to successful leadership within an organization.

**EDAS 502 ORGANIZATIONAL COMMUNICATION  
3 semester hours**

An in depth study and practice of communication within organizations and major theories of organizational communication. Candidates will practice extensively written and oral communication practices

**EDAS 503 ORGANIZATIONAL CHANGE: CHANGE IMPLEMENTATION & STRATEGIC PLANNING 3 semester hours**

A proactive study of managing change and the organizational and human issues that accompany change. Topics include theories of change, resistance to change, and becoming agents of change.

**EDAS 504 ACTION RESEARCH FOR ORGANIZATIONS 3 semester hours**

An overview of the role of action research in communities and organizations. Candidates will examine the history and theory of action research. Candidates will be engaged in the action research process.

**EDAS 506 CRITICAL ISSUES SEMINAR 3 semester hours**

An examination of the historical and contemporary leadership issues related to the cognate of study. Through critical analysis of assigned reading and class discussions, candidates will demonstrate an understanding of leadership and its influences

**EDAS 507 CHILD FAMILY & COMMUNITY 3 semester hours**

A study of the knowledge, skills, and attitudes needed in the development of the preschool child. An investigation of the historical attitudes of family and children as well as the cultural and political factors that impact child care and preschool programs

**EDAS 508 ADVOCACY & SOCIAL JUSTICE 3 semester hours**

A study of the various theories of social justice and an examination of their roots. Candidates will explore opportunities to make a difference in social justice issues.

**EDAS 500 LEADERSHIP THEORIES AND PRACTICES 3 semester hours**

Candidates will investigate leadership theories and practices. An exploration of organizational structure and problem solving to include historical and modern day approaches to leadership.

**EDAS 592 HUMAN RESOURCE AND FISCAL MANAGEMENT 3 Semester Hours**

A study of theories and policies related to resource projection and management in schools and school divisions. Finance topics include budget, purchasing and accounting, and procedures for obtaining equipment and materials. Human resource topics include staffing requirements, hiring, evaluation and dismissal procedures,

and staff-personnel relationships. Appropriate field-based project relating theory to practice will be required.

**EDAS 584 CURRICULUM DEVELOPMENT**

This course provides a study of the fundamental aspects of school curriculum development and the basic issues underlying curriculum planning. Four significant aspects are educational directions, ordering potential experiences, patterns of curriculum organization, and the determination of principles and procedures by which change in the curriculum can be made, evaluated and sustained.

**EDAS 587 SCHOOL PLANT MANAGEMENT**

This course provides a study of educational facility sites and the design of buildings to assure maximum accommodation of modern education programs. The course will focus on educational specifications, building, planning, constructing, school plant management and maintenance. Current regulations pertaining to the ingress and egress of the handicapped will be considered.

**EDAS 588 SCHOOL FINANCE**

This course provides theoretical and contemporary bases for the acquisition and distribution of local, state and federal funds for the support of education. Problems and issues of financial support for schools will be analyzed in terms of developing alternatives for obtaining resources.

**EDAS 589 SCHOOL COMMUNITY RELATIONS/MULTICULTURAL EDUCATION 3 Semester Hours**

This course provides for the study of the place and function of the school in American social life and investigation of community agencies and institutions, including those concerned with drugs and behaviors, which may be utilized in the interpretation of the school to the community.

**STAT 510 STATISTICAL PROCEDURES IN EDUCATION 3 Semester Hours**

This is a general terminal course designed primarily for graduate candidates enrolled in professional education research, psychology, guidance, or other behavior sciences. It is defined as an applications approach to methodology of modern research. This course will help prepare individuals to comprehend, interpret, and report statistical results for use in educational research, thesis presentation, and publication in research journals. Elementary and advanced statistical methods will be discussed. Statistical software will be used to analyze and interpret large databases occurring in real life situations.

**DOCTOR OF EDUCATION (Ed.D.) DEGREE IN EDUCATIONAL ADMINISTRATION AND SUPERVISION**

Graduate study in Educational Administration and Supervision is designed to prepare candidates for careers in senior level educational administration. Graduate study in

Educational Administration and Supervision leads to the Doctor of Education (Ed.D.) degree in Educational Administration and Supervision.

### Admission Requirements

Persons seeking admission to the program in educational administration and supervision should meet the following criteria:

- A master's degree in education or in a related field from an accredited institution of higher education;
- A minimum of three (3) years of documented leadership experience;
- Demonstrate educational leadership potential and skills including successful leadership experience in diverse settings;
- Demonstrate ability to conceptualize the use of technology for learning in educational settings;
- Have a grade point average of at least 3.0 in all graduate work previously attempted;
- Have three (3) letters of reference from individuals familiar with the applicant's potential for advanced professional studies; one letter must be from an employer and one letter must be from a professor who has known the applicant as a student;
- Submission of official transcripts of *all* previous undergraduate and graduate credits;
- Submission of scores on the Graduate Record Examination according to University policy.
- International students must submit TOEFL scores meeting University guideline prior to consideration of application.

### Application Procedures

The processing procedures for application will be as follows:

- Applications for admission to the doctoral program will be considered when all required materials have been submitted by the applicant. Applications should be submitted on or before March 31st, of each year;
- The Recruitment and Admissions Committee for the Department of Doctoral Studies will review all applications and interview top candidates for admission;

- Applicants' acceptance into the program will be recommended by the Chair of the Department of Doctoral Studies, The College of Education Dean/Unit Head. The Dean/Unit Head of The College of Education will forward the recommendations of the top candidates who satisfy all the requirements to the Dean of the College of Graduate Studies;
- The Dean of the Graduate Studies, Research, and Outreach will notify the candidates of their admission or denial to the doctoral program.

### Program Requirements

To initiate and maintain a rigorous doctoral program in Educational Administration and Supervision, a minimum of sixty (60) semester hours beyond an acceptable master's degree program is proposed.

The program components will be arrayed as follows:

1. 24 semester hours in the knowledge core;
2. 12 semester hours in research and methodology;
3. 12 semester hours in an area of academic concentration;
4. 6 semester hours in a year-long leadership internship; and
5. 6 semester hours of dissertation.

### University Core Courses

Core	(24 Semester Hours)
EDAS 700	Historical and Philosophical Foundations of Education
EDAS 701	Multicultural Education
EDAS 703	Planning and Management of Finance
EDAS 704	Human Resources Management
EDAS 705	School Law and Policy Studies
EDAS 706	School Community and Public Relations in Education
EDAS 707	Administrative and Instructional Leadership
EDAS 739	Dissertation Seminar

Research	(12 Semester Hours)
EDAS 720	Educational Statistics
EDAS 721	Research, Design, and Evaluation Methodology
EDAS 722	Qualitative Research
EDAS 723	Quantitative Research

**Areas of Academic Concentration (AAC) 12 Semester Hours\***

- Counselor Education
- Special Education
- Elementary Education
- Educational Technology
- Administration and Supervision
- Others as approved by advisor

\*The purpose of this requirement is to provide opportunities for the students to develop their knowledge and skills in areas related to Educational Leadership. Typically, students will enroll in 12 hours of coursework in one area. With the permission of the Doctoral committee, variations (e.g., 9 credits in one area; 3 credits in another) may be approved. In no case will fewer than six hours in each of two areas be approved.

**LEADERSHIP INTERNSHIP: (6 Semester Hours)**

EDAS 730 Leadership Internship in Educational Administration and Supervision 6

**DISSERTATION: (6 Semester Hours)**

EDAS 740\*\* Dissertation in Educational Administration and Supervision 6

Additional Academic Enrichment: International, national, regional & local conferences and workshops.

**Note:** Additional semester hours may be necessary for candidates whose background and experience need enrichment prior to being formally admitted into the doctoral program.

\*\*Students will earn only 6 credit hours for EDAS740. However, students will take EDAS740 as many times as necessary until the dissertation is completed.

**Summary Requirements**

The program requires a minimum of three years for completion, including two years of formal study and a minimum of one year for completion of the dissertation. For the purpose of the Ed.D, the residency requirement will be satisfied by the successful completion of two consecutive semesters of academic coursework.

**Requirements and Transition Points****PHASE I: ADMISSION**

1. Submitted completed and signed application form
2. Master's degree from a regionally accredited institution
3. 3 years of administrative experience in a certified position in a public or private school or equivalent leadership experience
4. A minimum of three (3) years of documented leadership experience
5. Minimum 3.0 GPA in all graduate work
6. 3 reference letters (1 from an employer, 1 from a professor)
7. Official transcripts of all undergraduate and graduate credits
8. Competitive GRE scores according to the University policy.
9. Writing Sample

**PHASE II: MIDPOINT – ADVANCE TO CANDIDACY**

1. Maintain a minimum 3.3 GPA in all content and course work
2. Complete the Program Progress Examination
3. Submit an application for Comprehensive Examination

**PHASE III: CANDIDACY**

1. Complete 54 credit hours (including 6 credit hours of internship)
2. Earn a passing grade on the Comprehensive Exam
3. Submit an application for candidacy

**PHASE VI: PROGRAM COMPLETION**

1. Successfully complete oral dissertation proposal defense
2. Successfully complete oral dissertation defense
3. Earn a passing grade for 6 credit hours for the dissertation
4. Complete 12 hrs. in Areas of Academic Concentration

**PHASE V: GRADUATE FOLLOW-UP**

1. Graduate follow-up survey
2. Employee follow-up survey

**APPLICATION DEADLINES:**

March 31<sup>st</sup> for fall admission

**Course Descriptions****EDAS 700 HISTORICAL AND PHILOSOPHICAL FOUNDATIONS OF EDUCATION - 3 semester hours**

This course guides inquiry into the historical, philosophical, cultural, educational and social context of schools in our diverse society. It also provides candidates with a broad, interdisciplinary prospectus on educational and social issues to guide reflective, professional practice.

**EDAS 701 MULTICULTURAL EDUCATION - 3 semester hours**

This course addresses the origin, concepts, principles, and trends of multicultural education, equity, and the

conceptual framework of cultural diversity in relation to education. Topics will include concepts that facilitators of learning will need in order to skillfully and effectively teach in a multicultural setting. Discussions will focus on explication of the concepts and development of strategies for conflict resolution and situational leadership, thus enabling candidates to become better decision makers and change agents.

**EDAS 703 PLANNING AND MANAGEMENT FINANCE - 3 semester hours**

This course provides a study of historical development, design, and management of systems of financing public education. Topics studied include fiscal planning, sources of revenue, state and local systems of school finance, building level financial management, budget development, and administration and federal participation in educational funding. Special emphasis is given to the Virginia system of funding public education and to contemporary issues in school finance.

**EDAS 704 HUMAN RESOURCES MANAGEMENT - 3 semester hours**

This course provides a study of personnel services for educational and public agency administrators. Selected personnel functions including planning, recruitment, retention, selection, induction, compensation, and evaluation are discussed.

**EDAS 705 SCHOOL LAW AND POLICY STUDIES - 3 semester hours**

This course provides an in-depth examination of the theoretical and conceptual bases of politics and public policy in education and their relationship to the successful practice of educational administration. This course will also focus on legal issues and professional ethics of particular concern to education policy makers and central office school administrators. Federal and Virginia school law will be included with attention given both to theoretical and practical concerns.

**EDAS 706 SCHOOL COMMUNITY AND PUBLIC RELATIONS IN EDUCATION - 3 semester hours**

This course focuses on the principles, knowledge, and skills related to effective interpersonal and public relations in educational organizations. Special emphasis is given to the study of communication theory and practice, the social ecology of organizations, conflict and crisis management, community relations, strategic marketing in educational organizations, and legal and ethical considerations.

**EDAS 707 ADMINISTRATIVE AND INSTRUCTIONAL LEADERSHIP - 3 semester hours**

This course is designed to analyze the relationship between administrative theory and practice by utilizing the literature and organizational theory and administrative behavior, and by applying the concept to administrative practice in educational settings. This course also focuses on curriculum and instruction, master theories, design implementation, and evaluation. Case studies and simulations that enhance change will be included. Equal emphasis will be placed on personal assessment and

evaluation of leadership competencies. Provisions will be made for skill development and improvement.

**EDAS 720 EDUCATIONAL STATISTICS - 3 semester hours**

This course will canvass the application of basic statistical procedures to the decision-making process. There will be an emphasis on the most often employed statistical procedures and the ways these procedures support administrative decision-making and organizational change processes. Also, emphasis will be on research conducted in schools, presenting methods that are appropriate for school-based research. Candidates will be able to evaluate, design and conduct educational research specific to the school improvement process.

**EDAS 721 RESEARCH, DESIGN, AND EVALUATION METHODOLOGY -3 semester hours**

This course introduces candidates to advanced research, design and evaluation methodology. Candidates will develop an in-depth understanding of experimental and non-experimental research designs used in qualitative and quantitative research as well as the uses and limitations of these designs. Survey research design and program evaluation will also be explored.

**722 QUALITATIVE RESEARCH - 3 semester hours**

This course is designed to study qualitative research from different theoretical and methodological approaches. It is designed to assist the educational leader in becoming a more effective facilitator of learning through knowing how to conduct research without formal hypotheses, allowing the hypotheses to evolve over time as events unfold. The researcher begins without preconceived ideas about what will be observed and describes behavior that seems important.

**EDAS 723 QUANTITATIVE RESEARCH - 3 semester hours**

This course provides administrators with the knowledge of the methods and analytical approaches in educational research that will aid in dealing with school restructuring. Measurement, design, and analysis procedures that are the most useful for dealing with a changing school system will be presented. An integrated approach to statistics and educational research will provide the student with an awareness of the interrelations and interdependencies among the statistics and research procedures presented.

**EDAS 730 LEADERSHIP INTERNSHIP – 6 semester hours**

The leadership internship/seminar is designed to provide in-depth experiences with senior and experienced school administrators at the superintendent's level. A mentor relationship will be developed to assist the potential leader in analyzing complex practices and procedures related to school system-wide functions. Monthly seminar sessions will be held at various school systems or the University in order to provide an opportunity for students placed in different educational environments to discuss identified problems, practices and procedures. This course is limited to doctoral students. The advanced educational leadership

internship will be a year-long educational experience that will provide an opportunity for students to engage in a series of clinical experiences. An individualized plan will be developed as a team by the student, the faculty advisor, and the supervisor in the participating school division. These experiences will be based on the experiences, background, needs, and professional goals of the student.

#### **EDAS 739 DISSERTATION SEMINAR – 3 semester hours**

This is an introduction to research in educational leadership that is designed to help students to think like researchers and analysts, to effectively search all relevant information sources (both print and non-print), to read and critique research, and to provide opportunities for “hands-on” research practice. This seminar offers students a collaborative setting for exploring a topic area, refining their research questions and beginning the process of constructing a coherent research proposal. Special attention will be paid to contemporary issues in American education, as well as those issues specific to schools within Virginia State University’s service area.

#### **EDAS 740 DISSERTATION IN EDUCATIONAL ADMINISTRATION AND SUPERVISION – 3- 6 Semester hours**

This is a formal research investigation related to current educational problems that will allow the researcher to build upon the body of established knowledge reflected in the literature. The dissertation process serves to bring together all of the experiences in which students have engaged during the entire program. The dissertation culminates the theoretical and practical research experiences of the candidates. The applications of theory and research to solve, inform, or suggest changes in problems and dilemmas facing educational leaders should be reflected in an original, sophisticated, and high quality document. To facilitate the dissertation process, candidates will participate in regularly scheduled seminars designed to keep them on task and provide ongoing constructive faculty feedback. The end result will be a final dissertation and a successful defense. Classes are held mainly in the evenings and on Saturdays.

### **MEDIA AND TECHNOLOGY (NON-ENDORSED)**

Graduate study in Media and Technology is designed to prepare students for careers in community colleges, military, industrial, managerial or other supervisory positions. Graduate study in Media and Technology leads to the Master of Science.

#### **Admission Requirements**

Applicant must meet the general requirements of the School of Graduate Studies, and hold a bachelor’s degree.

#### **Program Requirements**

The University’s pattern for programs that have a base in professional education fields includes a requirement of nine

semester hours in a common core. The program required core courses include:

EDUC 501	Foundations of Education	3
EDUC 513	Educational Research	3
STAT 510	Statistical Procedures in Education and Psychology	3

Students enrolled in this program will be required to complete six hours in education core. The six semester hours of the education core are designed to strengthen experiences to enhance the achievement of specialized learning outcomes. The courses include the following:

EDUC 502	Communication and Collaboration	3
EDUC 503	Seminar in Special Education	3

#### **Media and Technology Course Requirements**

Students are required to complete the following courses:

EDUC 520	Technologies of Media	6
EDUC 521	Design of Media and Technologies	3
EDUC 522	Information Processing: Cyberspace, Internet, and WEB Publishing	3
EDUC 523	Internship	3
EDUC 524	Seminar in Media and Technology	3
EDUC 546	Special Topics	3
EDUC 560	Oral and Written Comprehensive Examination	0

#### **Summary Requirements**

The program in Media and Technology, offers a program of study that leads to a Master of Science degree that requires a minimum of 36 hours. The Media and Technology program is offered to individuals who do not seek licensure to work in schools. This program is designed to enable individuals to design effective learning experiences and environments that incorporate emerging technology competencies. All requirements for the master’s degree program must be completed within 6 years from the initial admission into the graduate program, excluding periods of military service.

#### **Course Descriptions**

#### **EDUC 501 FOUNDATIONS OF EDUCATION – 3 semester hours**

This course is designed to provide students with a sound basis for interpretation of present day educational theories and practices by tracing the influence of historical, sociological, philosophical, and religious views upon the development of the education process.

**EDUC 502 COMMUNICATION AND COLLABORATION IN EDUCATION – 3 semester hours**

This core education course presents an overview of strategies and technologies appropriate to the development of effective communication with students, parents and other family members, school personnel, members of relevant professional disciplines, and the general community pertinent to the quality education of students in regular education, special education, and inclusive settings. The use of technology to enhance effective functioning in the roles of consultant and collaborator is explored with specific competencies identified and developed. Emphasis is also given to the use of technology in increasing competency in the management of instruction and behavior by professionals involved in collaboration.

**EDUC 503 – Seminar in Special Education- 3 semester hours**

This course provides knowledge of historical perspectives; characteristics of children and youth with disabilities; developmental milestones; medical aspects of disabilities; the influence of the family system and cultural/environmental issues related to disabilities, the educational implications; understanding the ethical and practice of accepted behavior; an understanding and application of legal regulations and statutes with regards to disabilities which include but not limited to IDEIA, § 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act, the No Child Left Behind Act, etc., and the current regulations governing special education with placements and rights and privileges of parents and students. \*Field Experiences are embedded in this course. Candidates in the Special Education program are responsible for participation in collaborative consultative classrooms and inclusive classrooms with students with disabilities in K-12 schools. This course gives an overview of the exceptionalities and how they fit into the regular curriculum.

**EDUC 513 EDUCATIONAL RESEARCH – 3 semester hours**

This course is oriented to the methodology of research and investigation in education. The candidates develop, with guidance, a research outline (and a pilot study) with emphasis on the following: (1) statement of problem, (2) related studies, (3) rationale of the proposed study, (4) hypothesis writing, and (5) procedures to be used in collection and evaluation data. The course will include some examination of significant studies in the field of education and their significance for educational practice. This course is a core course, required of all Masters candidates and should be taken after STAT 510.

**EDUC 520 TECHNOLOGIES OF MEDIA – 3 semester hours**

This two-semester course emphasizes the utilization of current and emerging technologies of media and their integration with other components of a learning system. The various electronic and computer assisted technologies

are stressed as well as software support for use in community colleges, public agencies, and business settings.

**EDUC 521 DESIGN OF MEDIA TECHNOLOGIES – 3 semester hours**

This course engages students in consideration of design principles and strategies that facilitate the integration of media and technology. Attention is given to a variety of design principles, with emphasis on recent contribution from cognitive science and related fields for use in community colleges, public agencies and in business settings.

**EDUC 522 INFORMATION PROCESSING: CYBERSPACE, INTERNET, and WEB PUBLISHING – 3 semester hour**

This course is designed to study procedures, organization, and methods of teaching desk-top publishing. Skills are developed in elements of desktop publishing using current software and other components of page layout, composition, and graphics software.

**EDUC 523 INTERNSHIP IN MEDIA AND TECHNOLOGY – 3 semester hours**

This internship provides the student with an in-depth experience regarding the role, function, and scope of media technology.

**EDUC 524 SEMINAR IN MEDIA AND TECHNOLOGY - 3 semester hours**

This seminar provides an in-depth exploration of the current state of the art and future directions in the field of media and technology. I focuses on reading, researching, and discussing the philosophy, principles, and strategies underlying media and technology.

**EDUC 546 SPECIAL TOPICS – 3 semester hours**

This course is designed for students to pursue current topics of special interest in media technology. Topics may be studied and researched through related professional conference participation, discussion groups, assigned readings and reports, and/or in-depth investigative papers.

**STAT 510 STATISTICAL PROCEDURES IN EDUCATION AND PSYCHOLOGY – 3 semester hours**

This is a general terminal course designed primarily for graduate students enrolled in professional education research, psychology, guidance, or other behavior sciences. It is defined an applications approach to methodology of modern research. This course will help prepare individuals to comprehend, interpret, and report statistical results for use in educational research, thesis presentation, and publication in research journals. Elementary and advanced statistical methods will be discussed. Statistical software will be used to analyze and interpret large databases occurring in real life situations.

## SPORT MANAGEMENT

### Admission

Participants applying to the Sports Management degree program will be selected based upon their leadership potential, preparation, employment history, and knowledge of current professional practices.

An applicant for graduate study is expected to hold the bachelor's degree from an accredited institution. The applicant's preparation must be appropriate to the desired program and must meet the requirements of the specific degree program pursued.

Each prospective graduate student must submit an application to the College of Graduate Studies and receive a letter of admission before registering for courses.

A senior at Virginia State University who has a superior scholastic record and is within six hours of qualifying for the bachelor's degree may be admitted to Graduate Studies; but work applied toward the bachelor's degree may not be used as credit for the master's degree. Enrollment in graduate courses must be approved by the departmental chair and the Dean of the College of Graduate Studies.

### Application Procedures for Sport Management (Health and Physical Education)

1. Submit a completed application form with the fee of \$25 to the College of Graduate Studies Office.
2. Students are admitted on a rolling basis. Applications are processed as they arrive through the published deadline.
3. Have two official transcripts from each collegiate institution attended sent to the College of Graduate Studies. To be considered official, a transcript must be received directly from the institution concern. Graduates of Virginia State University must comply with this requirement.
4. An applicant must have taken the GRE or MAT by the time s/he applies. Applicants whose native language is not English are required to present a minimum score of 500 on the Test of English as a Foreign Language (TOEFL). Exceptions are made for transfer students from other U.S. colleges who have completed at least one semester of course work with a grade point average of "C" or better.
5. Letters of reference: Number Required:  
Three (3) letters of reference are required.

Letters of recommendation should be requested from individuals who are capable and prepared to make judgments on the applicant's ability to complete graduate studies. Undergraduate faculty and advisors are the best sources. Character references are acceptable, but at least one letter should be from an individual in higher education. If the undergraduate work was completed a number of years ago, this may be a difficult request; therefore, one should use discretion when selecting the three best references.

6. No bachelor's degree in the discipline or a related discipline is required for admission.
7. Statement of Goals: The Goal Statement (350-500 words) should include three components: academic/professional goals, personal strengths that will contribute to success in the graduate program, and personal weaknesses that may inhibit success in the program.
8. Resume: A resume is required.
9. Transfer Credit: Graduate credits from an accredited institution may be transferred into the program. The credits must be equivalent to coursework offered at Virginia State University and the grade must be a "B" or better in order to transfer. The maximum number of credits a student may transfer is 9.

The processing procedures will be as follows:

1. Applicants for admission to the graduate program will be considered when all required materials have been submitted by the applicant. Applications should be submitted on or before February 1 of each year;
2. The Committee for Sport Management will review all applications and interview top candidates for admission;
3. Applicant acceptance into the program will be recommended by the Coordinator of Sport Management to the Chair of Health, Sport Management, and Recreation and the Dean of the College of Education. The Dean of the College of Education will forward the recommendations for the top candidates who satisfy all the requirements to the Dean of Graduate Studies;
4. The Dean of the College of Graduate Studies will notify the candidates of their admission or denial to the graduate program.

### Time-to-Degree Completion

All requirements for the Graduate Degree Program in Physical Education must be completed within six years from the date of initial registration in the graduate program, excluding periods for military service. Students who encounter unique problems, which prevent compliance with this regulation, may appeal through the graduate program advisor to the Chair of the Policies and Petitions committee in care of the College of Graduate Studies.

Under compelling circumstances, students may be awarded extensions, totaling not more than two years, to the present limit of six years. This provision restricts the period for completion of the degree to a maximum of eight years.

All transfer credit for the degree must have occurred within the designated period (six years) prior to the date of graduation. Transfer courses are not eligible for an extension of time. Test scores submitted in support of applications for admission must also be within the six-year period.

### Withdrawal from the Graduate Program

Students who withdraw officially from the graduate program and the University will receive grades of “W” in the courses in which they are registered. Graduate students withdrawing from the program will not normally be permitted to enroll in future graduate courses. Students who encounter unique problems, which prevent compliance with this regulation, may appeal through the graduate program advisor to the Chair of the Policies and Petitions Committee, in care of the College of Graduate Studies.

### Academic Standards

A graduate student who is a candidate for a degree must earn an average of 3.0 or higher in all courses applicable to his/her degree and receive grades of “S” where grades of “S”, “U”, or “P”, are awarded.

Grades of “C” may constitute no more than 20% of the credits offered for graduation, or a maximum of two “Cs” in two four-hour courses on the graduate level, whichever is greater. Semester hours with “C” grades in excess of this percentage or the allotted eight hours will not count toward the degree but will be calculated into the total cumulative average.

Although Virginia State University encourages a maximum of student responsibility, with a minimum of administrative regulation, it expects each student to maintain appropriate standards in s/he academic program. The University reserves the right to terminate the registration of any student who does not meet acceptable standards. Academically, a student whose record falls below standard or otherwise indicates a lack of ability or effort needed to succeed in graduate study will be denied permission for further study.

### Culminating Exam

Comprehensive Exam Description – The written comprehensive examination is designed to test comprehension of the total field of study and is not limited to specific information covered formally in classes. The examination requires that a student demonstrate in writing the ability to apply, to analyze, and to synthesize information. The examination is made up of 4 sections:

**Section 1: ADMINISTRATION:** Management theory, personnel management, risk management and liability, public relations, marketing, finance/fund raising and budgeting, facility design **Section 2: RESEARCH METHODOLOGY:** Types of research, current research published, literature review, instrumentation, and internal validity **Section 3: PROBLEM SOLVING:** Administration and professional problems and problem areas **Section 4: PROFESSIONAL ISSUES:** Professional association (mission, goals, code of ethics, professional development, professional preparation, current professional and legal issues) (e.g., gender equity, affirmative action, Americans With Disabilities) **Section 5: PHILOSOPHY/ETHICS:** Philosophical schools of thought, philosophical and ethical issues concerning the field. Comprehensive Exam –

Students take the examination after completing 30-36 credits.

The Graduate Faculty members in the Sport Management program write the questions, evaluate candidates answers. Each examination is evaluated by three faculty members. Comprehensive Exam Pass – A student will be given five hours to complete five sections of questions. There will be at least one required question in each section plus selected optional questions from each category. The examination will be graded by three Graduate Faculty members. Anonymity will be preserved. Graders will score each question of the basis of 1 to 10, with a score of 8 or above considered passing. An average score for the total exam is recorded by each grader. Finally, an average of the three scores is determined with an average score of 8 or above needed to pass. The examination must be successfully completed as a whole. It is possible to pass the examination in sections. If a student is unsuccessful in any part on the first attempt, the student will be given a second opportunity. If unsuccessful in the second attempt, the student will be dismissed from the program. Comprehensive Exam Schedule – Comprehensive examinations are administered three times a year: November, April, and June. Students must register for the examination with the graduate coordinator at the beginning of the semester. The examination runs from 9 a.m. to 2 p.m. and is proctored by a graduate faculty member.

### Financing Opportunities

Virginia State University awards graduate assistantships annually to students who have demonstrated exceptional promise and achievement. In order to be eligible for the Graduate Sport Management Graduate Assistantship students must have an overall undergraduate GPA of 3.0. These assistantships provide a stipend of \$4500.00 to in-state students, and \$10,000 to out-of-state students per academic year. Recipients are required to work 15 hours per week under the supervision of a qualified full-time graduate faculty members in the Department of HPER at Virginia State University. A committee of graduate faculty members in the Department of HPER along with the Sport Management Program Coordinator will select the award recipients. Students must maintain a G.P.A. of 3.00 to renew their assistantships from semester to semester.

### Sport Management Courses

The number of didactic credits required beyond the Baccalaureate: 30. Directed Research and Special Topics may be taken for a maximum of 6 semester hours.

#### Internship

All students must complete a minimum of 6 semester hours of internship. An internship manual will provide details of this class.

EDUC 513	Program and Curriculum Development in P.E.	3
PESM 502	Planning, Program Development, and Evaluation	3
STAT 510	Statistical Procedures Education and Psychology	3
PESM 505	Facility and Event Management	3
PESM 510	Readings in Sport Management	3
PESM 530	Sport and Marketing	3
PESM 531	Sport Seminar	3
PESM 532/PHED 406	Legal Issues in Sport	3
PESM 533	Sport Nutrition	3
PESM 534/PHED 407	Sport Psychology	3
PESM 538	Organization and Management of Athletics	3
PESM 566	Special Topics in Sport Management	3
PESM 570	Directed Research in Sport	3
PESM 571	Sport Management Internship	6
PESM 599	Oral/Written Comprehensive Examination	0

#### Health and Physical Education Courses

PESM 562	Program and Curriculum Development in P.E.	3
PESM 563	Health-Related Fitness Education and Assessment	3
PESM 564	Secondary Pedagogy in Sport Management	3
PESM 568	Current Issues in Physical Education	3
PESM 569	Principles of Sport Officiating	3
PESM 572	Field Experience in Physical Education	6

#### Course Descriptions

##### EDUC 513 EDUCATIONAL RESEARCH - 3 semester hours

Seeks to provide students with a basic knowledge of the field of educational research through study and practical exploration of the techniques of research. A critical analysis of the different types of research and the various methods of acceptable styles for reporting data.

##### PESM 502 PLANNING, PROGRAM DEVELOPMENT, AND EVALUATION - 3 semester hours

Students will be required to conduct an effective needs assessment and apply the data to develop and implement appropriate programs to meet the needs of the public. Students should also be capable of conducting effective evaluation using statistical applications.

##### PESM 510 READINGS IN PHYSICAL EDUCATION - 3 semester hours

Identification of critical issues arising from current problems in physical education or sport management; exploration of points of view and possible solutions.

##### STAT 510 STATISTICAL PROCEDURES IN EDUCATION AND PSYCHOLOGY - 3 semester hours

General terminal course for graduate student enrolled in professional educational research, psychology, and guidance covering elementary and advanced statistical methods.

#### Sport Management Courses

##### PESM 505 FACILITY AND EVENT MANAGEMENT - 3 semester hours

Evaluation of problems relating to programming of equipment and facilities; visits to and evaluation of surrounding facilities.

##### PESM 530 SPORT AND MARKETING - 3 semester hours

Evaluation of sport and marketing, including applications of mainstream marketing which include a historical overview of sport marketing, collegiate and professional sporting events, commercial and public organizations, sporting goods, and the sport enterprise.

##### PESM 531 SPORT SEMINAR - 3 semester hours

Research and discussion of critical questions in physical education and sport management; topics to be studied will vary according to the concerns of seminar students.

##### PESM 532/PHED 406 LEGAL ISSUES IN SPORT - 3 semester hours

The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures and requirements in regard to legal issues for a successful career as a Sport administrator. Ethics from a legal standpoint will be extensively research and discuss. Graduate students will be required to research specific legal issue cases and apply them to practical situations.

##### PESM 538/PHED 401 ORGANIZATION AND MANAGEMENT OF ATHLETICS - 3 semester hours

The course is designed to assist students in understanding the aims, objectives, principles, policies, procedures and requirements for a successful career as a sport administrator. Ethical issues as they pertain to the management and organization of athletics will be discussed extensively. Graduate students will be required to research

specific athletic management objectives and apply them to practical situations.

### Physical Education Courses

#### **PESM 562 PROGRAM AND CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION - 3 semester hours**

This course is designed to examine the issues related to curriculum theory and design; developing curricula in relation to national, state and local standards; and program development and management. Emphasis is placed on the current standards in health and physical education, and the relationship of program development and teaching effectiveness.

#### **PESM 563 HEALTH-RELATED FITNESS EDUCATION ASSESSMENT - 3 semester hours**

Focuses on health education curriculum design and instructional techniques that can be utilized to promote health literacy in school settings. Development of a comprehensive school health curriculum using the National Health Education Standards and the Assessment Framework is emphasized including recommended scope and sequence, content, and skills. There will also be opportunities to observe practice and reflect on specific teaching and assessment strategies.

#### **PESM 568 CURRENT ISSUES IN PHYSICAL EDUCATION - 3 semester hours**

Current issues in contemporary physical education are examined, with an emphasis on formulating policies and procedures to alleviate problem areas. Particular attention is given to professional issues.

#### **PESM 569 PRINCIPLES OF SPORT OFFICIATING - 3 semester hours**

This course is designed to provide practical knowledge to develop, organize, and administer officiating rules. Emphasis will be placed on current rules, regulations, and governing bodies.

### Elective Courses

#### **PESM 533 SPORT NUTRITION - 3 semester hours**

Topics include current nutrition issues in Physical Education and Sport Management. Special emphasis will be placed on nutrient needs of athletes.

#### **PESM 534/PHED 407 SPORT PSYCHOLOGY - 3 semester hours**

Topics include personality, aggression, attitudes, competition stress, social facilitation, and small group research as related to athletes and individuals involved in sport. Graduate student will be required to research specific sport psychology objectives and apply them to practical situations.

#### **PESM 564 SECONDARY PEDAGOGY IN PHYSICAL EDUCATION - 3 semester hours**

This course is designed to examine the issues related to teaching physical education, and developing secondary

physical education curricula in relation to national, state and local standards. Emphasis is placed on current trends and teaching methods in secondary physical education, and on the relationship of reflective teaching and teaching effectiveness at the 6-12 grade levels.

#### **PESM 566 SPECIAL TOPICS - 3 semester hours**

This course is an intensive exploration of selected topics in Physical Education. Consideration of the sources, characteristics, and significance of the subject treated. May be repeated for credit more than once with a different topic.

#### **PESM 570 DIRECTED RESEARCH IN SPORT - 3 semester hours**

This course is a supervised research project in an area applicable to the field of study and agreed upon by the student and major advisor.

### Internship and Field Experience

#### **PESM 571 SPORT MANAGEMENT INTERNSHIP - 6 semester hours**

This course includes on-the-job learning in a sport management setting. Field experience involving supervised contact with Sport administrators. Fifteen contact hours per semester hour credit is required (90 total contact hours).

**Prerequisite: Completion of all requirements of the program; G.P.A. of 3.0, and consent of instructor.**

#### **PESM 572 FIELD EXPERIENCE IN TEACHING PHYSICAL EDUCATION - 6 semester hours**

Each field experience provides students with the opportunity to put theory and technique into practice at the level of their teaching specialization. The students will also attend a seminar led by the university supervisor. Fifteen contact hours per semester hour credit is required (90 total contact hours).

**Prerequisite: Satisfactory completion of all other requirements for degree completion, and the permission of the program coordinator (6 hours).**

#### **PESM 599 ORAL AND WRITTEN COMPREHENSIVE EXAMINATION - 0 semester hours**

An oral and written examination to assess the candidate's overall knowledge of course work pursued in the graduate program, and his/her ability to apply this knowledge to designated sets of circumstances.

**Prerequisite: Satisfactory completion of all other requirements for degree completion, and the permission of the program coordinator.**

## COLLEGE OF ENGINEERING AND TECHNOLOGY

### CAREER AND TECHNICAL STUDIES

The Career and Technical Studies (CTST) program is an interdisciplinary curriculum designed to provide post baccalaureate studies that lead to the M.S. degree with a concentration in Project Management, the Graduate Certificate in Project Management, and the Certificate of Advanced Graduate Study in Occupational Studies.

Project Management Concentration. The program leads to the M.S. degree in Career and Technical Studies with concentration in project management. The program is designed to provide the tools, techniques, and skills needed to effectively manage projects through appropriate learning activities and products. The curriculum covers the knowledge areas, industrial standards and integrates business and industry courses with the theory and practice of project management. This program will assist you to better manage your project(s) from planning and team-building through quality and cost management.

#### Admission Requirements

In addition to the general requirements for admission to the Graduate Division of the College of Graduate Studies, a minimum of 21 semester hours of undergraduate preparation in an occupational program or related area is required. An acceptable GRE score is required prior to admission to the program. Students who elect the Project Management concentration may receive the master of science degree with a concentration in project management or the graduate certificate in project management (a non-degree program) which requires 18 semester hours of coursework.

#### Master of Science, Project Management (PMGT) Concentration (Thesis Option)

Candidates for this option must complete a minimum of 30 semester hours which will include a 3-semester hour of thesis, dealing with issues in project management.

#### Summary Requirements Master of Science Degree

Required Courses	Sem. Hrs.
PMGT 509 Project Management Systems	3

PMGT 511 Quality Management	3
PMGT 519 Project Planning & Scheduling	3
PMGT 520 Project Communications	3
PMGT 521 Estimating and Cost Management	3
PMGT 527 Project Leadership	3
PMGT 532 Risk Management and Analysis	3
Elective	3
<b>Total</b>	<b>24</b>

#### Requirement for the Thesis Option

PMGT 536 Research Methodology	3
PMGT 539 Master's Thesis	3

#### Requirement for the Non-thesis Option

PMGT 525 Contract and Procurement Management	3
PMGT 570 Integrated Project Management (CAPM Certification)	3

#### Course Descriptions

##### PMGT 509 PROJECT MANAGEMENT SYSTEMS – 3 semester hours

Fundamental elements of project management including project planning, organizing, team building, and effective control mechanisms. Critical factors for project success, organizational support systems; appropriate application of project management software to project planning and control. The project management body of knowledge (PMBOK), including professional and social responsibility.

##### PMGT 511 QUALITY MANAGEMENT – 3 semester hours

Investigation of emerging principles of industrial quality and its implementation. Emphasis on the quality function, implementation, cost, and management in construction, manufacturing, and service industries. The course provides students with a set of quality concepts, tools, and knowledge required for their application in quality planning, quality improvement, and quality control.

**PMGT 519 PROJECT PLANNING AND SCHEDULING – 3 semester hours**

Project management skills needed to define, plan, monitor, and complete projects as well as to identify the tools and techniques to resolve problems. Scheduling fundamentals and the different methods of scheduling; network schedules and diagram; scheduling calculations and the critical path.

**Prerequisite:** PMGT 509

**PMGT 520 PROJECT COMMUNICATIONS – 3 semester hours**

The processes associated with project communications management—communications planning, information distribution, performance reporting, and administrative closure to ensure “timely and appropriate generation, collection, dissemination, storage, and ultimate disposition of project information” (PMBOK).

**PMGT 521 ESTIMATING AND COST MANAGEMENT – 3 semester hours**

Using project scope statement, historical data and personal expertise to predict resource expenditure, total cost and duration of a project. Identification of constituent physical elements and related activities necessary to meet project objectives. Computation of elemental project cost; establishing project budget on the basis of the project estimate.

**Prerequisite:** CTST 519

**PMGT 525 CONTRACT AND PROCUREMENT MANAGEMENT – 3 semester hours**

Various processes utilized to acquire and/or purchase products, services or results needed from outside the project team to perform the activities/work. Tools and techniques for purchases and acquisitions; contract management, administration, and closure. Seller selection and responses. The legal rules/regulations pertaining to effective operation of projects.

**PMGT 527 PROJECT LEADERSHIP – 3 semester hours**

The human side of project leadership; motivating, organizing, and managing project teams; communication and conflict management issues. Emphasis on experiential skill development, its purpose in helping students to understand, analyze, and develop effectiveness in leading and managing others in project-based activities. Professional ethics.

**Prerequisite:** PMGT 509, 521

**PMGT 532 RISK MANAGEMENT AND ANALYSIS – 3 semester hours**

Typology of risk exposures. Inputs to risk management and identification. Risk management stages in the project life

cycle. Quantitative and qualitative risk analyses; risk response planning; risk monitoring and control. Organizing for risk management.

**PMGT 535 CHANGE MANAGEMENT – 3 semester hours**

Theories, principles, and forces of change. Perspectives on change—behavioral, psychodynamic, cognitive, and humanistic-psychology approaches; change management approach, tools, techniques, process, strategy, and activities. The leadership of change and making change happen.

**PMGT 536 RESEARCH METHODOLOGY – 3 semester hours**

Hypothesis formulation and verification examined in areas of research interest. A research proposal will be presented to the program’s graduate committee.

**Prerequisite:** STAT 510

**PMGT 570 INTEGRATED PROJECT MANAGEMENT – 3 semester hours**

This course must be taken in the student’s final semester and will focus on integrating project management body of knowledge, skills and tools developed in previous courses. Emphasis on analysis, synthesis, and evaluation of theories and application of project management strategies. The CAPM credentialing is recommended.

**PMGT 578 MASTER’S PROJECT – 3 semester hours**

Students are expected to design and conduct action research relevant to problem solution(s) in project management. A written document of the project is required and an oral examination will be given at the end of the experience. A graduate faculty member is required to supervise the project or review the examination.

**PMGT 579 THESIS – 3 semester hours**

The candidate for the Master’s Thesis will be required to form his/her graduate committee of three faculty member, chaired by a full member of the graduate faculty.

**POST-MASTER’S CERTIFICATE PROGRAMS****Certificate of Advanced Graduate Study (CAGS)**

The Certificate of Advanced Graduate Study (CAGS) in Career and Technical Studies is a 30-semester-hour program of study incorporating courses at the 600-level or above. A student must have completed a master’s degree before being admitted to the program. The CAGS program is open to students whose bachelor’s or master’s degree is in one or more of the following fields: agriculture, business education, marketing education, health occupations, family

and consumer sciences, technology education, industrial education, or related areas.

The CAGS program is designed specifically for persons who hold, or are preparing for positions as state and local directors, supervisors, assistant supervisors, and department heads of career/technical and adult education; for principals and administrators in public and private schools, or other institutions where career preparation is a primary objective; for persons engaged in manpower development; and for other technical studies practitioners interested in organizing and administering their program(s). Courses may also be selected from other occupational program areas to satisfy the requirements.

### Career and Technical Studies

CTST 601 Foundations of Career and Technical Studies	3 credit hours
CTST 605 Strategies for Teaching Career and Technical Studies	3 credit hours
CTST 607 Legal Bases for Career and Technical Studies	3 credit hours
CTST 609 Career and Technical Studies for Administrators	3 credit hours
CTST 611 Program Evaluation and Accountability in Career and Technical Studies	3 credit hours
CTST 621 Policy and Policy-Making in Career and Technical Studies	3 credit hours
CTST 639 Internship	3 credit hours
CTST 641 Externship	3 credit hours
CTST 643 Seminar in Career and Technical Studies	3 credit hours
CTST 649 Graduate Research Seminar in Career and Technical Studies	3 credit hours
CTST 657 Oral and/or Written Comprehensive	0 credit hours
Total credit hours	30

### Course Descriptions

#### **CTST 601 FOUNDATIONS OF CAREER AND TECHNICAL STUDIES - 3 semester hours**

A study of selected topics and their relation to Career and Technical Studies; organization, administration and

evaluation; policy and policy development; school, business, industrial and community relations; and career education. Examines past, present and future aspects and developments of Career and Technical Studies; and outlines changes and future roles of Career and Technical Studies.

#### **CTST 605 STRATEGIES FOR TEACHING CAREER AND TECHNICAL STUDIES - 3 semester hours**

A course designed to help prepare vocational administrators and supervisors to assist teaching personnel in planning instructional activities for students. Includes lectures from specialists and visits to model programs.

#### **CTST 607 LEGAL BASES FOR CAREER AND TECHNICAL STUDIES - 3 semester hours**

Federal, state, and local legislation and executive orders affecting Career and Technical Studies. Interpretation of legislation and implications for program design, administrative practices, and agency function and design. Revision of current legislation to enhance career and technical programs.

#### **CTST 609 CAREER AND TECHNICAL STUDIES FOR ADMINISTRATORS - 3 semester hours**

Designed for school administrators and supervisors desiring an understanding of career and technical studies. Emphasis on regulations for the administration of CTST programs under the provisions of federal, state, and local legislations.

#### **CTST 611 PROGRAM EVALUATION & ACCOUNTABILITY IN CAREER AND TECHNICAL STUDIES**

##### **- 3 semester hours**

A study of concepts, principles, and methods of evaluation in Career and Technical Studies. Emphasis on criteria, appropriate instruments and personnel for evaluation of educational practices, problems and solutions, and program changes resulting from program evaluation.

#### **CTST 621 POLICY AND POLICY-MAKING IN CAREER AND TECHNICAL STUDIES - 3 semester hours**

An in-depth study of policy and policy making in Career and Technical Studies at the local, state and national levels. Investigation of basic purposes of policy, appropriate sources for policy-making, and current policy developments in Career and Technical Studies.

#### **CTST 639 INTERNSHIP - 3 semester hours**

A planned field experience in an administrative or supervisory position in Career and Technical Studies. Major emphasis on the needs of the student. Supervised

jointly by a certified vocational administrator or supervisor and a member of the University graduate faculty.

**CTST 641 EXTERNSHIP - 3 semester hours**

A planned advanced clinical practice for the experienced educator enrolled part-time in graduate study while holding a leadership position in Career and Technical Studies. Educational problems and practices are systematically analyzed and evaluated. Emphasis on investigation, discussion, and reports.

**CTST 643 SEMINAR - 3 semester hours**

Lectures and discussions on current problems in Career and Technical Studies as determined by interest of students and significant current events. Lectures by authoritative persons, group discussions, projects and presentations.

**CTST 649 GRADUATE RESEARCH SEMINAR L STUDIES - 3 semester hours**

A survey of research designs, research procedures, proposal developments, preparation of research reports, and dissemination of findings.

**CTST 657 ORAL AND/OR WRITTEN COMPREHENSIVE EXAMINATION - 0 semester hours**

**GRADUATE CERTIFICATE IN PROJECT MANAGEMENT**

The graduate certificate in project management is designed specifically to meet the career needs of project team members, project supervisors and associate project managers in industry, business or government establishment. The program is designed to provide the tools, techniques, and skills needed to effectively manage projects through appropriate learning activities and products. The curriculum covers the knowledge areas, industrial standards, and integrates business and industry courses with the theory and practice of project management. This program will assist practitioners to better manage your project(s) from planning and team building through quality and cost management.

**Admission**

In addition to the general requirements for admission to the College of Graduate Studies (except GRE requirement), a minimum of twenty-one (21) semester hours of undergraduate preparation in an occupational program/field or a related discipline is required.

**Completion Requirement**

A total of at least eighteen (18) semester hours must be completed with a minimum grade point average (GPA) of B (3.00) or better.

<b>Required Courses</b>	<b>Sem. Hrs.</b>
PMGT 509 Project Management Systems	3
PMGT 511 Quality Management	3
PMGT 519 Project Planning and Scheduling	3
PMGT 520 Project Communications	3
PMGT 521 Estimating and Cost Management	3
PMGT 525 Contract and Procurement Management	3
Total credit hours	18

**Other Courses:**

PMGT 532 Risk Management and Analysis  
PMGT 570 Integrated Project Management (CAPM)

**Course Descriptions**

*Refer to course descriptions under Project Management Concentration.*

**MATHEMATICS AND COMPUTER SCIENCE**

The areas of study available in the Mathematics & Computer Science Department lead to the Master of Science in Computer Science or Mathematics. The MS degree program in Mathematics now has two (2) general concentrations: Mathematics and Mathematics Education. In the Mathematics Concentration there are two (2) specialties: Pure Mathematics and Applied Mathematics. In the Mathematics Education Concentration there are also two (2) specialties: Curriculum and Instruction for Secondary Teachers and Curriculum and Instruction for K-8 Mathematics Specialists.

**COMPUTER SCIENCE**

**Admission Requirements**

In addition to the Graduate Office admission requirements, criteria for non-conditional admission to the program will be set by the Departmental Computer Science Graduate Committee. Applicants are expected to have an

understanding of the foundational concepts of computer science and a familiarity with data structures and their implementations in different languages. Additionally, applicants should have an understanding of computer architecture, compilers, operating systems, analysis of algorithms, networks, and programming languages and should expect to learn on their own new programming languages required for the courses in which they enroll.

### Program Requirements

The Master of Science degree requires 30 graduate credit hours of course work including a thesis or 33 graduate credit hours of course work including a project. The program is intended to satisfy the need to prepare professionals with expertise using modern computing tools and cutting-edge technology as well as practical knowledge of theoretical computer science. Students will focus on such areas as data mining, scientific computing, data visualization, or state-of-the-art graphics and animation technologies. Undergraduates are prepared to learn to use the latest advanced applications, while graduates are highly-trained professionals ready to begin work using such applications.

There are two options for completing the Master's program in Computer Science. The candidates must successfully complete the requirements in either a non-thesis option or thesis option track.

### The Thesis Option

24 credit hours of course work (4 core courses and any 4 courses from set of Predetermine electives); and

6 credit hours of thesis work:

4 Core Courses	-	12 credit hours
4 Electives Courses-		12 credit hours
Thesis I & II	-	$\frac{6}{30}$ credit hours
Total		30

### The Non-thesis Option

27 credit hours of course work (4 core courses and any 5 courses from set of Predetermine electives)

2 graduate seminars (CSCI 610 Graduate Seminars I & CSCI 611 Graduate Seminar II, 1 credit hour each) and

A Master's project (CSCI 605 Master's Project, 4 credit hours)

4 Core Courses	-	12 credit hours
5 Electives Courses-		15 credit hours
2 Seminar Courses -		2 credit hours
Project	-	$\frac{4}{33}$ credit hours
Total		33

### Core courses

Each core course is a 3-credit hour course. All students must take the following four courses:

1. Advanced Systems Architecture (CSCI 588)
2. Advanced Algorithms (CSCI 592)
3. Embedded Systems (CSCI 560)
4. Advanced Data Communications (CSCI 545)

## MATHEMATICS

### Admission Requirements

In addition to the requirements for admission to the Graduate College, applicants who wish to pursue master degree in the Department of Mathematics must have an undergraduate degree in mathematics or at least 20 semester hours of college mathematics at the level of Calculus or above.

### Program Requirements

The Master of Science in Mathematics has two areas of specialty: Pure Mathematics and Applied Mathematics. The Pure Mathematics includes the areas of Algebra, Analysis and Combinatorics. The Applied Mathematics specialty includes the areas of Computational Mathematics and Statistics.

In order to qualify for a Master of Science Degree in Mathematics:

1. The candidate must successfully complete 12 semesters hours of core course works in Real Analysis I (MATH 530), Algebra I (MATH 520), Numerical Analysis (MATH 540), and Discrete Mathematics (MATH 510).
2. The candidates must successfully complete the requirements in either a non-thesis option or thesis option track.
  - (a) Non-thesis option: In addition to the four core courses, candidates in the non-thesis option track must successfully complete six elective courses and pass a comprehensive examination. The comprehensive examination will be based on the material covered in the four core courses.
  - (b) Thesis option: In addition to the four core courses, candidates in the thesis option track must successfully complete four elective courses and must complete two semesters of MATH 599 – Research and Thesis course in accordance with the policy stated in the University's graduate catalog by writing a master's thesis on research topic chosen by the candidate and approved by the candidate's advisor.

## MATHEMATICS EDUCATION

### Admission Requirements

For admission to a program leading to the Master of Science degree in Mathematics Education, Curriculum and Instruction for Secondary Mathematics Teachers emphasis, the applicant must have a Virginia teaching license in Secondary (6 – 12) Mathematics or be eligible for one. For admission to a program leading to the Master of Science degree in Mathematics Education, Curriculum and Instruction for K – 8 Mathematics Specialists emphasis, the applicant must have a Virginia teaching license in the elementary or middle grades in which the teaching of mathematics is a primary responsibility.

### Program Requirements

Master of Science Degree in Mathematics Education

#### In order to qualify for a Master of Science Degree in Mathematics Education Curriculum and Instruction for Secondary Teachers Concentration:

1. The candidate must successfully complete at least 33 semester hours of course work.
  - a. (3) Required core courses in Professional Education: EDUC 501: Foundations of Education, EDUC 513: Educational Research and STAT 520: Advanced Statistical Methods in Educational Research
  - b. (2) Required courses in Mathematics education: MAED 562: Curriculum, Instruction & Research in Mathematics Education I and MAED 563: Curriculum, Instruction & Research in Mathematics Education II
  - c. (2) Required cognate courses in Mathematics: MATH 581: Modern Algebra for Teachers\* and MATH 582: Real Analysis for Teachers.
  - d. (4) Elective courses in Mathematics or Mathematics education: MAED or MATH 500 and above courses. One course must be from MATH 580: Geometry for Teachers, MATH 584: Calculus for Teachers I, MATH 586: Discrete Mathematics for Teachers or STAT 521: Statistics for Teachers.

\*May be replaced with MATH 520: Abstract Algebra

2. The candidate must complete MAED 592: Research and Thesis, by writing a thesis on a research topic chosen by the candidate and approved by the candidate's advisor.

#### In order to qualify for a Master of Science Degree in Mathematics Education Curriculum and Instruction for K-8 Mathematics Specialists Concentration:

1. The candidate must successfully complete at least 33 semester hours of course work.
  - a. (3) Required core courses in Professional Education: EDUC 501: Foundations of Education, EDUC 513: Educational Research and STAT 520: Advanced Statistical Methods in Educational Research
  - b. (1) Required courses in Mathematics education: MAED 562: Curriculum, Instruction & Research in Mathematics Education I.
  - c. (6) Required cognate courses in Mathematics and Statistics: MATH 505: Number and Number Sense, MATH 506: Geometry & Measurement, MATH 507: Patterns, Functions and Algebraic Reasoning, MATH 508: Rational Numbers & Proportional Reasoning, MATH 579: History of Mathematics and STAT 504: Probability & Statistics.
  - d. (1) Required course in Professionals Education: EDAS 591: Instructional Leadership.
2. The candidate must complete MATH 591: Field Project/Internship by completing a project approved by mathematics education faculty prior to registration. Students are encouraged to obtain an internship with an education-based provider (school, district office, state office, etc).

## ALGEBRA ADD-ON ENDORSEMENT CERTIFICATE

### Admission Requirements

The applicant must have a Virginia teaching license in the elementary or middle grades in which the teaching of mathematics is a primary responsibility.

### Program Requirements

The candidate must successfully complete at least 18 semester hours of course work in CSED 500 Computer Programming for Teachers, MATH 502 Geometry for Teachers, MATH 583 Problem Solving in Mathematics, MATH 584 Calculus for Teachers I, MATH 586 Discrete Mathematics for Teachers and MAED 578 Statistics for Teachers.

**COMPUTER SCIENCE - COURSE DESCRIPTIONS****Core Courses****CSCI 545 ADVANCED DATA COMMUNICATIONS - 3 semester hours**

Topics include classification of data communication systems, developments in communication technologies, routing models and algorithms, performance analysis in data networks, and modeling and simulation of large-scale networks.

**Prerequisite:** CSCI 445 or equivalent

**CSCI 488/588 ADVANCED SYSTEMS ARCHITECTURE - 3 semester hours**

A study of computer architecture with an emphasis on a quantitative approach to cost/performance design tradeoffs, including the fundamentals of uniprocessors and multiprocessors, scheduling, speculation, and multithreading.

**Prerequisite:** CSCI 388 or equivalent

**CSCI 560 EMBEDDED SYSTEMS - 3 semester hours**

An introduction to embedded systems with emphasis on applications. Students will program a microcontroller using a complete development system.

**Prerequisite:** CSCI 388 or equivalent

**CSCI 592 ADVANCED ALGORITHMS - 3 semester hours**

An investigation of the classification of algorithms with emphasis on design and analysis of complexity. Topics include approximation, sorting, searching, optimization, randomize algorithms, and NP completeness.

**Prerequisite:** CSCI 492 or equivalent

**Elective Courses****CSCI 552 SCIENTIFIC VISUALIZATION - 3 semester hours**

Fundamental concepts of the algorithms and design principles underlying modern 3D computer graphics, data and scientific visualization.

**Prerequisite:** Permission of the instructor

**CSCI 553 IMAGE PROCESSING - 3 semester hours**

Advanced topics in image processing that help students to grasp the theory of mathematically modeling images; to learn how to develop various algorithms for analysis and processing of image signals; to explore new applications of image processing into computer vision, graphics, surveillance and biomedical imaging.

**Prerequisite:** CSCI 453 or equivalent

**CSCI 554 OPERATING SYSTEMS - 3 semester hours**

Topics include the history and evolution of operating systems, the concepts behind and structure of various operating systems, process scheduling, inter-process communication, input and output, multi-programming, memory management and file systems. Concepts of distributed operating systems are also introduced.

**Prerequisite:** CSCI 489 or equivalent

**CSCI 555 INFORMATION ASSURANCE - 3 semester hours**

Advanced topics in information assurance, including selections from the following: penetration testing, formal verification of systems, formal models of information flow and protection, distributed system authentication, protocol design and attack, computer viruses and malware, intrusion and anomaly detection models, multi-level security, active defenses, investigation and forensics, network firewalls, anonymity and identity, e-commerce support, and database security models and mechanisms.

**Prerequisite:** Permission of the instructor

**CSCI 456/556 ADVANCED DATABASE APPLICATIONS - 3 semester hours**

Applications of advanced database systems. Students will work on a series of projects using industry standard software.

**Prerequisite:** CSCI 356 or equivalent

**CSCI 602 ADVANCED ARTIFICIAL INTELLIGENCE - 3 semester hours**

Topics include Machine Learning, Knowledge Representation and Discovery, Neural and Evolutionary Computation, and Intelligent Agents and Multi-Agent Systems.

**Prerequisite:** CSCI 402 or equivalent

**CSCI 647 WIRELESS NETWORKS AND MOBILE COMPUTING - 3 semester hours**

Fundamentals of wireless networks and mobile computing, protocols, quality of service in wireless networks, and applications in wireless and mobile networks including distributed applications, middleware, mobile transactions, mobile multimedia, and remote execution.

**Prerequisite:** CSCI 445 or equivalent; CSCI 645

**CSCI 660 AUTOMATA AND FORMAL LANGUAGE - 3 semester hours**

The study of three mutually related topics: Languages, machines, and computability. Key topics include regular languages, finite automata, determinism and non-determinism in finite automata, pattern matching, context-free languages, push-down automata, Turing machines, resource-bounded computation.

**Prerequisite:** CSCI 460 or equivalent

**CSCI 670 COMPUTER SECURITY - 3 semester hours**

Key concepts and algorithms involved in cryptography and computer security. Includes intrusion detection, firewalls, and digital signatures.

**Prerequisite:** CSCI 445 or equivalent

**CSCI 680 ALGORITHMIC GRAPH THEORY - 3 semester hours**

Investigate a variety of graph algorithms, both sequential and parallel, known to have applications to such areas as scheduling, robotics, computational geometry, VLSI design, and pattern recognition. The students will learn graph algorithms both sequential and parallel in a hybrid.

**Prerequisite:** MATH 490 or equivalent

**CSCI 682 COMPUTER MODELING AND ANIMATION - 3 semester hours**

Applications of 3D computer graphics including modeling, transformations, and animation. Students will work on a series of projects using industry standard software.

**Prerequisite:** CSCI 480 or equivalent

**CSCI 685 SOFTWARE ENGINEERING - 3 semester hours**

This course covers software engineering tools, models/methodologies, use case analysis, user interface design, estimation and scheduling, and software maintenance. It also covers software requirements analysis and specification, software design, software testing, software post-delivery maintenance, software verification, validation, and documentation.

**Prerequisite:** CSCI 487 or equivalent

**CSCI 687 ADVANCED SOFTWARE DEVELOPMENT - 3 semester hours**

The purpose of this course is to provide a basic concepts and principles of the software life cycle with emphasis on software design, development, and implementation. It also examines current issues in software development, software architectures, requirements specification, Quality control and metrics, and software project management. Some of the industry life-cycle models are presented, with examples of their use.

**Prerequisite:** CSCI 487 or equivalent

**CSCI 689 SOFTWARE QUALITY ASSURANCE - 3 semester hours**

This course covers a variety of topics related to software quality assurance including: activities performed by external participants, activities to project schedules and budget control, risk management, and costs associated with SQA. It also focuses on the methods and techniques in software testing and quality assurance.

**Prerequisite:** CSCI 685

**CSCI 693 PARALLEL ALGORITHMS - 3 semester hours**

An introduction to parallel programming with emphasis on models and algorithms. Topics include communication complexity, tree balancing, partitioning and tree contraction, parallel version of graph, parallel sorting and searching, Omega and Batcher networks. Students are expected to be able to solve problems using different programming paradigms.

**Prerequisite:** CSCI 592

**CSCI 695 DATA MINING - 3 semester hours**

A study of knowledge discovery from data with emphasis on theory and application. Topics include data mining techniques such as clustering, classification and association rules, applications such as decision support and failure analysis, and case studies from domains such as engineering.

**Prerequisites:** CSCI 592 and CSCI 356 or equivalent

**CSCI 570 COMPUTER SIMULATION - 3 semester hours**

Advanced applications of discrete and continuous simulation modeling.

**Prerequisites:** CSCI 387 or equivalent; STAT 340 or equivalent

**CSCI 694 ALGORITHMS FOR VLSI - 3 semester hours**

Design and analysis of algorithms for design of VLSI circuits, VLSI test and simulation.

**Prerequisite:** CSCI 388 or equivalent

**CSCI 600 THESIS I - 3 semester hours**

Research on a thesis that represents an original contribution with publishable results.

**Prerequisite:** Approval of the graduate committee

**CSCI 601 THESIS II - 3 semester hours**

Research on a thesis that represents an original contribution with publishable results. A student shall not receive credit for CSCI 601 until the graduate committee approves the draft copy of the thesis.

**Prerequisite:** CSCI 600 Thesis I

**CSCI 605 MASTER PROJECT - 4 semester hours**

A master's project should include the introduction of new software tools, a novel capability using existing technology, or a novel survey of an area, or require substantial scientific computation. A report must be submitted

and approved by the graduate committee.

**Prerequisite:** Approval of the graduate committee

**CSCI 610 GRADUATE SEMINAR I - 1 semester hour**

Students present their work for their master's project or thesis.

**Prerequisite:** 12 credits in computer science at the 500 level (or higher) or permission of the Chair of the graduate committee

**CSCI 611 GRADUATE SEMINAR II - 1 semester hour**

Students present their work for their master's project or thesis.

**Prerequisite:** CSCI 610 Graduate Seminar I

**CSCI 639 INDEPENDENT STUDY IN COMPUTER SCIENCE - 3 semester hours**

**CSCI 640/641/642/643 SPECIAL TOPICS IN COMPUTER SCIENCE - 3 semester hours**

An introduction to a special topic with applications. Students will work on a series of projects using current technology. This course may be repeated for additional credit provided the topic is substantially different than any prior course including transferred credit.

**Prerequisite:** Permission of the instructor

**COMPUTER SCIENCE EDUCATION- COURSE DESCRIPTIONS****CSED 500 COMPUTER PROGRAMMING FOR TEACHERS– 3 semester hours**

Students will design algorithms and apply programming techniques and skills to solve practical problems in mathematics arising from consumer, business, personal finance, leisure activities, sports, probability and statistics, and other applications in mathematics. Problems will include opportunities for students to analyze data in charts, graphs, and tables and to use their knowledge of equations, formulas, and functions to solve these problems utilizing appropriate computer science terminology. The student will design, write, test, debug, and document a complete structured program that requires the synthesis of user-defined functions, simple loops, subroutines and procedures.

**CSED501: INTEGRATING TECHNOLOGY INTO CLASSROOM – 3 semester hours**

This course will provide the students with skills and experiences that will allow for effective and appropriate integration of technology into teaching and learning activities. Students will examine content-based instructional software, application software, and the Internet resources. Students will integrate these tools with content learning pertinent to student's particular field of practice.

**CSED502 VISUAL CULTURE AND INTERACTIVE MULTIMEDIA – 3 semester hours**

This course will explore the theory and implementation of games, simulations and virtual environments for improved instructional engagement. Students will use hands-on approach to explore the theories of educational gaming and the practical aspects of evaluating and implementing games, simulations and virtual worlds for teaching and learning. Students will discover instructional methods that can leverage students' interests in digital culture to extend their learning and keep them engaged by examining practical examples of how simulations, games, virtual worlds and other edutainment software are being embraced in schools. Students will explore the foundational, social and cultural implications of interactive media.

**CSED503 MODERN SOCIAL MEDIA AND LEARNING – 3 semester hours**

This course is designed to help students understand and effectively use new social media for learning. This course will address a variety of technologies including blogs, RSS, wikis, social media, photo sharing tools, mapping tools, audio and video podcasts, and screencasts. Students will

identify emerging methods for integrating these tools with content learning pertinent to student's particular field of practice.

**CSED504 INNOVATIONS IN DISTANCE****LEARNING – 3 semester hours**

The students will explore the latest innovations in e-learning technologies and environments as well as theoretical issues central to e-learning. The course will address online learning environments including online learning communities, communication and sharing tools, content creation tools, and communities of practice. Students will design and implement e-learning modules as pertinent to their content area. **Sp Odd Year**

**MATHEMATICS - COURSE DESCRIPTIONS****Core courses****MATH 510 DISCRETE MATHEMATICS - 3 semester hours**

Counting techniques; Pigeon-hole principle; Binomial coefficients; Principle of inclusion-exclusion; generating functions; Stirling and Catalan numbers; permutations and graphs.

**Prerequisite:** Admission to the program

**MATH 520 ALGEBRA I - 3 semester hours**

Group; subgroups; Lagrange's Theorem; normal subgroups; quotient groups; homomorphisms; direct products; fundamental Theorem of finite abelian groups; group actions; Cayley's Theorem; conjugacy classes and the class equation; Sylow Theorems; isomorphism theorems.

**Prerequisite:** MATH 425 or equivalent

**MATH 530 REAL ANALYSIS I - 3 semester hours**

Functions of bounded variation; Lebesgue measure; differentiation and integration;  $L_p$  spaces; introduction to Banach and Hilbert spaces.

**Prerequisite:** MATH 401 or equivalent

**MATH 540 NUMERICAL ANALYSIS - 3 semester hours**

Approximations and interpolation; propagation of errors; numerical differentiation and integration; solutions of equations; Newton's method; solutions of differential equations and initial value problems; Runge-Kutta and predictor-corrector methods.

**Prerequisite:** MATH 452 or equivalent

**Elective Courses****MATH 501 GEOMETRY - 3 semester hours**

Points and lines connected with a triangle; circle properties; collinearity and concurrence; Menelaus' Theorem; Ceva's Theorem; Pappus' Theorem; Desargues Theorem; transformations; introduction to inversive and projective geometry.

**Prerequisite:** Admission to the program

**MATH 511 CODING THEORY - 3 semester hours**

Linear codes; non-linear codes; B.C.H. codes; dual codes and their weight distributions; perfect codes and cyclic codes; additional topics drawn from Reed-Solomon codes; Justesen codes; M.D.S. codes; Reed-Muller codes; Golay codes; self-dual codes and invariant theory.

**Prerequisite:** MATH 325 or equivalent

**MATH 512 CRYPTOGRAPHY AND COMPUTER SECURITY - 3 semester hours**

Public key cryptography; classical applications of finite fields and number theory; classical cryptography and cryptoanalysis; monoalphabetic and polyalphabetic ciphers; Shannon's theory of secrecy; modern private-key cryptosystems such as DES, and public-key cryptosystems such as RSA. (Cross listed as CSCI 580).

**Prerequisite:** MATH 325 or equivalent

**MATH 519 SPECIAL TOPICS IN MATHEMATICS - 3 semester hours**

**Prerequisite:** Instructor's permission

**MATH 521 ALGEBRA II - 3 semester hours**

Rings; integral domains; introduction to fields; ring homomorphisms; ideals; polynomial rings; Euclidean domains; unique factorization domains; field Theory; geometric constructions; Galois theory.

**Prerequisites:** MATH 520

**MATH 525 LINEAR ALGEBRA - 3 semester hours**

Linear transformations; solving linear equations; LU decomposition; determinants and relation to solving linear equations; eigenvalues and eigenvectors; Jordan canonical form; Schur form; special classes of matrices: normal; symmetric; Hermitian; orthogonal; unitary; Jacobi; Special properties of these matrices; spectral theory for normal matrices; positive matrices; inner product spaces; orthogonality.

**Prerequisite:** MATH 325 or equivalent

**MATH 529 TOPICS IN ALGEBRA - 3 semester hours**

**Prerequisite:** MATH 521 or instructor's permission

**MATH 531 REAL ANALYSIS II – 3 semester hours**

Abstract measures; mappings of measure spaces; integration sets and products spaces; the Fubini, Torelli and Radon-Nikodyn theorems; the Riesz-Fischer representation theorem; Haar measures on locally compact groups.

**Prerequisite:** MATH 530

**MATH 532 COMPLEX ANALYSIS – 3 semester hours**

Linear fractional transformations; conformal mapping; holomorphic functions; Cauchy's theorem; properties of holomorphic functions; argument principle; residues; power series; Laurent series; meromorphic functions; Riemann mapping theorem; Mittag-Leffler's theorem; Weierstrass' theorem.

**Prerequisite:** MATH 432 or equivalent

**MATH 533 FUNCTIONAL ANALYSIS - 3 semester hours**

Banach spaces; Hilbert spaces; fundamental theorems for Banach and Hilbert spaces; dual spaces; bounded inverse theorems; uniform boundedness principle and its applications; strong and weak convergence; spectral theory of linear operators in normed spaces; compact linear operator on normed spaces and their spectrum.

**Prerequisite:** MATH 530

**MATH 539 TOPICS IN ANALYSIS - 3 semester hours F odd**

**Prerequisite:** MATH 531 or instructor's permission

**MATH 545 GENERAL TOPOLOGY - 3 semester hours**

Foundations and fundamental concepts of point-set topology; topological spaces; convergence; connected sets; compactness; product spaces; quotient spaces; function spaces; separation properties; metrization theorems; mappings and compactifications; Homotopy and fundamental groups.

**Prerequisite:** MATH 445 or equivalent

**MATH 546 DIFFERENCE EQUATIONS AND APPLICATIONS - 3 semester hours**

Topics include difference calculus; linear difference equations; autonomous systems of difference equations; linear periodic systems; stability analysis and Liapunov method; Z-transform; asymptotic behavior of difference equations.

**Prerequisites:** ~~MATH 301~~ MATH 261 or equivalent; MATH 325 or equivalent

**MATH 548 DIFFERENTIAL EQUATIONS - 3 semester hours**

Existence and uniqueness for systems; linear systems; fundamental matrix solutions; matrix exponential; nonlinear systems; plane autonomous systems and introduction to stability; Poincare-Bendixson theorem.

**Prerequisite:** MATH 350 or equivalent

**MATH 549 TOPICS IN DIFFERENTIAL EQUATIONS - 3 semester hours**

**Prerequisite:** MATH 548 or instructor's permission

**MATH 552 PARTIAL DIFFERENTIAL EQUATIONS - 3 semester hours**

Preliminaries from ODE and Calculus; methods of solution of partial differential equations of the first order; classification of partial differential equations; elliptic, hyperbolic, and parabolic equations; Sturm-Liouville problems; non-homogeneous equations; potential theory; techniques of solving various partial differential equations; Cauchy problem; Dirichlet and Neumann problems; Green's function; Solutions by eigenfunction expansion method; Applications.

**Prerequisites:** MATH 350

**MATH 554 MATHEMATICAL MODELING IN LIFE SCIENCES - 3 semester hours**

Study of a variety of mathematical and computational methods used to describe and understand natural phenomena and their dynamics in biological systems; topics include difference equations; ordinary and partial differential equations; stochastic processes; and computer simulation with computer algebra systems.

**Prerequisite:** MATH 548 or MATH 546

**MATH 559 TOPICS IN GEOMETRY - 3 semester hours F Even**

**Prerequisite:** MATH 501

**MATH 560 ALGEBRAIC AND NUMERICAL COMPUTATIONS - 3 semester hours**

Basic techniques of algorithm design; fundamental computations with polynomials; Fast Fourier transform; polynomial evaluation and interpolation; power series manipulation; fundamental computations with general and special structured matrices and correlation to polynomials; fast algorithms and correlation between algebraic and numerical computations in algorithm design.

**Prerequisites:** MATH 325 and MATH 261

**MATH 562 MATHEMATICAL STATISTICS - 3 semester hours**

Univariate and multivariate distribution theory; generating function; inequalities in statistics; order statistics; estimation theory; likelihood; sufficiency; efficiency; maximum likelihood testing hypotheses; likelihood ratio; confidence and prediction interval; Bayesian estimation and testing; basic decision theory.

**Prerequisite:** MATH 261 or equivalent

**MATH 569 TOPICS IN GRAPH THEORY - 3 semester hours F Odd**

**Prerequisite:** MATH 490 or instructor's permission

**MATH 570 NUMBER THEORY - 3 semester hours**

Arithmetic functions; divisibility and prime factorization; residue classes; congruence; the prime number theorem; primes in arithmetic progression; quadratic reciprocity law; the arithmetic of quadratic fields; Diophantine equations; continued fractions, approximations and sieves.

**Prerequisite:** MATH 425 or equivalent

**MATH 578 TOPICS IN COMPUTATIONAL MATHEMATICS - 3 semester hours**

**Prerequisite:** MATH 560 or instructor's permission

**MATH 588 DIFFERENTIAL GEOMETRY - 3 semester hours**

Differential manifolds; tensors; affine connections; and Riemannian manifolds; submanifolds; variation of the length integral; the Morse index theorem.

**Prerequisites:** MATH 445, MATH 401, or equivalent

**MATH 590 GRAPH THEORY - 3 semester hours**

Basic concepts of graphs and digraphs; Eulerian and Hamiltonian graphs; trees and distances; matchings and

factors; connectivity; colorings; planar graphs; flows and networks; extremal graph theory.

**Prerequisite:** MATH 490 or equivalent

**MATH 592 OPTIMIZATION THEORY - 3 semester hours**

Convexity; duality; quadratic forms and matrix factorization; theory of optimization with and without constraints; Lagrange functions; Kuhn-Tucker theory; methods of optimization without constraints; line search; descent methods; Newton methods; conjugate directions; non-linear least squares; methods of optimization with constraints: linear optimization; the simplex and other methods; active sets; quadratic programming; optimization with linear constraints; general non-linear optimization.

**Prerequisite:** MATH 392 or equivalent

**MATH 599 RESEARCH AND THESIS - 3 semester hours****Mathematics Education – Course Descriptions****MAED 560 TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL - 3 semester hours**

Selected mathematical principles and concepts for teaching mathematics at elementary grade levels. Emphasis will be on instructional methods and technological supplements as outlined by the National Council of Teachers of Mathematics and the Virginia State Board of Education. Students will be provided the opportunity to select, create, and evaluate topics, materials, and strategies in teaching elementary school mathematics.

**MAED 561 TEACHING MATHEMATICS IN THE MIDDLE SCHOOL - 3 semester hours**

Selected mathematical principles and concepts for teaching mathematics at middle school grade levels. Emphasis will be on instructional methods and technological supplements as outlined by the National Council of Teachers of Mathematics and the Virginia State Board of Education. Students will be provided the opportunity to select, create, and evaluate topics, materials, and strategies in teaching middle school mathematics.

**MAED 562 CURRICULUM, INSTRUCTION & RESEARCH IN MATHEMATICS EDUCATION I - 3 semester hours**

A study of the historical development of K-12 mathematics curriculum and instruction including current trends and issues in the study of mathematics pedagogy.

**MAED 563 SEMINAR IN MATHEMATICS EDUCATION CURRICULUM, INSTRUCTION & RESEARCH IN MATHEMATICS EDUCATION II - 3 semester hours**

An examination of theoretical and empirical research in the

field of mathematics education including the study of the philosophy and psychology of teaching and learning mathematics and an overview of research design.

**MAED 565 RESEARCH-BASED FIELD EXPERIENCES IN THE TEACHING OF MATHEMATICS - 3 semester hours**

Provides an opportunity for the exploration of an area of interest in the teaching of mathematics through systematic observation, reflection, and analysis of a field experience in a K-12 classroom setting. Basic inquiry-based research ideas will be examined with a follow-up field study aimed at increasing understanding of theoretical and practical issues in the mathematical knowledge needed for and pedagogical skills about teaching mathematics.

**MAED 590. INDEPENDENT STUDY - 3 semester hours**

A course permitting the student to pursue topics of special interest, which may not be available through other, formal courses or which may be needed at a time when other courses are not offered. Course may be taken for credit no more than two times.

**MAED 591 FIELD PROJECT / EXTERNSHIP – 3 semester hours**

Project must be approved by mathematics education faculty prior to registration. Students are encouraged to obtain an internship with an education-based provider (school, district office, state office, etc.). In the event that a formal internship is not feasible students will participate in a collaborative real world or simulated education-based project. Successful completion of the project will result in a written report including overview of current relevant literature / research, compiled field notes, and summary research paper.

**MAED 592. RESEARCH AND THESIS - 3 semester hours**

Each student completes a master's thesis in Mathematics Education with the aid of an advisor and committee. A broad range of topics and methods of inquiry can be used to meet the requirement including quantitative and qualitative case studies, historical studies, and action research.

**Cognate Courses:**

**MATH 505 NUMBER AND NUMBER SENSE - 3 semester hours**

This course examines number systems and operations, elementary number theory, concepts of integers and whole numbers including selected number sets, basic counting principles, and computational algorithms in a problem-solving environment. Appropriate use of technology and manipulatives, NCTM-aligned teaching methodology, and multiple means of authentic assessment will be incorporated into this course that emphasizes the equity principle, and the connections and representations

standards. Content delivery will include student investigations and hands-on activities.

**MATH 506 GEOMETRY & MEASUREMENT - 3 semester hours**

This course examines properties and relationships of polygons, transformational geometry, coordinate geometry, constructions, deductive & inductive reasoning, the process of measurement through geometric investigations, and an introduction to matrix Algebra, fractals and non-Euclidean geometries in a problem-solving environment. Appropriate use of technology and manipulatives, NCTM-aligned teaching methodology, and multiple means of authentic assessment will be incorporated into this course that emphasizes the equity principle and the connections and representations standards. Content delivery will include student investigations and hands-on activities.

**MATH 507 PATTERNS, FUNCTIONS, AND ALGEBRAIC REASONING - 3 semester hours**

The course examines structures of familiar number systems to include basic algebraic operations, linear and quadratic equations, linear systems of equations and inequalities, algebraic and trigonometric functions in the context of modeling and various representations of functions (graphical, tabular, and symbolic) in a problem-solving environment. Appropriate use of technology and manipulatives, NCTM-aligned teaching methodology, and multiple means of authentic assessment will be incorporated into this course that emphasizes the equity principle and the connections and representations standards. Content delivery will include student investigations and hands-on activities.

**MATH 508 RATIONAL NUMBERS & PROPORTIONAL REASONING - 3 semester hours**

This course examines elementary number theory including divisibility, primes, and composites, concepts of rational numbers, proportions, and computational algorithms in a problem-solving environment. Appropriate use of technology and manipulatives, NCTM-aligned teaching methodology, and multiple means of authentic assessment will be incorporated into this course that emphasizes the equity principle and the connections and representations standards. Content delivery will include student investigations and hands-on activities.

**MATH 579 HISTORY OF MATHEMATICS - 3 semester hours**

Chronological and topical history of mathematics, mathematics education and related areas as they parallel ancient and modern world history and U.S. history. The influence of mathematics as a derivative of philosophy and science. The origins of mathematical symbols and the development of a deductive system used as structures of knowledge in other disciplines. Specific topics include: women in mathematics, blacks in mathematics, multicultural development of mathematics, the development of calculating devices, using math history in multidisciplinary teaching.

**MATH 580 GEOMETRY FOR TEACHERS - 3 semester hours**

Selected topics in geometry for teachers of mathematics. Topics include deductive logic, incidence geometry, abstract deductive systems, induction, convexity and separation, geometric inequalities, congruence, similarity, parallelism, Euclidean and non-Euclidean geometries.

**MATH 581 MODERN ALGEBRA FOR TEACHERS – 3 semester**

Topics in modern algebra including sets, mappings, equivalence relations, groups, groups homomorphism, isomorphism, rings, integral domains, and fields.

**MATH 582 REAL ANALYSIS FOR TEACHERS – 3 semester hours**

Real number theory; elementary and advanced set theory including open and closed sets, compact sets and bounded sets; methodology of writing mathematical proofs including mathematical induction and proof of calculus theorems; introduction to sequence and series; convergence tests.

**MATH 583 PROBLEM SOLVING IN MATHEMATICS – 3 semester hours**

Students will employ various heuristics while engage in problem solving. Student will pose problems appropriate for middle school and high school students. Problem topics will be selected from arithmetic, basic algebra, geometry, trigonometry, analytic geometry, functions and their graphs, calculus, probability and statistics, discrete mathematics and linear algebra. Mathematical reasoning and mathematical modeling will be emphasized. Appropriate use of technology will be discussed, modeled, and used during the problem solving process.

**MATH 584 Calculus for Teachers I - 4 semester hours**

Inequalities, absolute values, limits and rates of changes, continuity, derivatives, applications of differentiation, integers, applications of integration, inverse functions and techniques of integration. Topics are treated from an advanced point of view for teachers of mathematics.

**MATH 585 CALCULUS FOR TEACHERS II – 3 semester hours**

Integration techniques, polynomial approximation and series, polar coordinates, conics, multivariate calculus, parametric equations, and vectors. Course is designed to make connections between advanced calculus topics and the teaching of AP calculus.

**Prerequisite:** MAED 575

**MATH 586 DISCRETE MATHEMATICS FOR TEACHERS – 3 semester hours**

The terminology, concepts, and techniques of some areas of discrete mathematics applicable to middle and high school teaching. Logic, proof techniques, recursion, set theory and enumeration, relations functions, and introduction code and graph theory. Course is designed to make connections between discrete mathematics topics and the teaching of discrete mathematics in middle and high school.

**MATH 587 LINEAR ALGEBRA FOR TEACHERS – 3 semester hours**

Vectors, matrix operations, systems of linear equations, determinants, systems of linear inequalities and linear transformations. Topics are treated from an advanced point of view for teachers of mathematics. Use knowledge of mathematics to select and use appropriate technological tools, such as but not limited to, spreadsheets, dynamic graphing tools, computer algebra systems, dynamic statistical packages, graphing calculators, data-collection devices, and presentation software. **F**

**STATISTICS – COURSE DESCRIPTIONS**

**Sp Odd**

**STAT 504 PROBABILITY & STATISTICS - 3 semester hours**

This course examines descriptive statistics and concepts of probability to include: probability, expectations and counting strategies, measures of central tendency, line of best-fit, simulation, and educational statistics in a problem-solving environment. Appropriate use of technology and manipulatives, NCTM-aligned teaching methodology, and multiple means of authentic assessment will be incorporated into this course that emphasizes the equity principle and the connections and representations standards. Content delivery will include student investigations and hands-on activities. **Sp, Exa**

**STAT 510 STATISTICAL PROCEDURES IN EDUCATION AND PSYCHOLOGY - 3 semester hours**

General terminal course for graduate students enrolled in professional educational research, psychology and guidance, covering descriptive and inferential statistics including one-way analysis of variance. **Su Even**

**Prerequisite:** Enrollment in Graduate School

**STAT 511 BIOMETRY - 3 semester hours**

The main techniques of statistical analysis as applied in the biological sciences are discussed. This course is of interest to students in social sciences as well. Probability, Binomial, Poisson and normal distributions, estimation and hypothesis testing, Analysis of variance, regression and analysis of covariance. **Su, Exa**

**Prerequisite:** STAT 480 or equivalent

**STAT 520 ADVANCED STATISTICAL METHODS IN EDUCATIONAL RESEARCH – 3 semester hours**

Only for students in Mathematics Education or Science Education. Descriptive statistics, normal, binomial, t, Chi-square and F distributions. Estimation and hypothesis testing, Parametric and nonparametric tests: z-test, t-test, one-way and two-way analysis of variance, analysis of covariance, chi-square tests of goodness-of-fit and independence for categorical data, linear correlation and regression, multiple regression. Statistical results from mathematics education research journals will be studied and real data from educational sources will be analyzed using statistical software. **F, Odd**

**Prerequisite:** STAT 330 or equivalent

**STAT 521 STATISTICS FOR TEACHERS – 3 semester hours**

Exploring data, planning a study, anticipating patterns and statistical inference. Course is designed to make connections between statistics topics and the teaching of statistics in elementary, middle and high school. This course does not satisfy the requirements of STAT 520.

**STAT 562 MATHEMATICAL STATISTICS IV – 3 semester hours**

Univariate and multivariate distribution theory; moment generating function; inequalities in statistics; order statistics; estimation theory; likelihood; sufficiency; efficiency; maximum likelihood; testing hypotheses; likelihood ratio; confidence and prediction interval; Bayesian estimation and testing; basic decision theory.

**Prerequisites:** MATH 261, STAT 480 or equivalent

**STAT 565 NONPARAMETRIC STATISTICS II – 3 semester hours**

Rank correlations, linear and monotonic regression, several related samples, balanced incomplete block design, randomization, rank transformation and goodness-of-fit tests.

**Prerequisite:** STAT 481 or equivalent

**STAT 568 DESIGN OF EXPERIMENTS – 3 semester hours**

General linear model; fixed, random and mixed effects models; randomized block, incomplete block and Latin square designs; factorial designs; analysis of covariance.

**Prerequisite:** STAT 480 or equivalent

**STAT 570 STOCHASTIC PROCESSES – 3 semester hours**

Random walks; Markov chains; Poisson processes; Wiener processes; queuing and inventory analysis; reliability theory.

**Prerequisites:** STAT 480, STAT 490 or equivalent

**STAT 572 CATEGORICAL DATA ANALYSIS – 3 semester hours**

Two-way and three-way contingency tables; measures of association; log-linear, logit and hierarchical models; inferences based on multinomial, Poisson and Chi-Square distributions and residual analysis.

**Prerequisite:** STAT 480 or equivalent

**STAT 575 REGRESSION ANALYSIS – 3 semester hours**

Linear and multiple regression; analysis of residuals; variable and model selection including stepwise regression; transformations, weighting and diagnostics to correct model inadequacies.

**Prerequisite:** STAT 480 or equivalent

**STAT 578 MULTIVARIATE ANALYSIS – 3 semester hours**

Statistical theory associated with multivariate normal distribution; Wishart and related distributions; partial and

multiple correlations; Hotelling's  $T^2$  statistic; multivariate linear models; classification and discriminant analysis; principal components..

**Prerequisites:** MATH 325, STAT 480 or equivalent **Su Odd**

**STAT 583 SAMPLING THEORY II – 3 semester hours**

Estimation, relative precision, optimum allocation and stratum sizes in stratified random sampling; quota sampling; ratio and regression estimates; systematic and cluster sampling.

**Prerequisite:** STAT 382 or equivalent

**STAT 599 RESEARCH AND THESIS**

General linear model; fixed, random and mixed effects models; randomized block, incomplete block and Latin square designs; factorial designs; analysis of covariance.

**Prerequisites:** Graduate courses in Statistics and Instructor's permission

## COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

### ECONOMICS

The Department of Political Science and Public Administration offers graduate study in economics leading to the Master of Arts (M.A.) degree. This program provides for the thesis and non-thesis options. Both program options provide analytical and decision-making tools appropriate for a broad range of professional careers. A core in microeconomic theory, macroeconomic theory, and quantitative methods provides students with the foundation necessary to make sound decisions in different environments. These principles are further developed and reinforced in a variety of elective courses appropriate for many applied areas.

These program options can be completed over periods of as little as one year of full-time study or two years part-time. Late afternoon and evening classes permit the employed individual to pursue a degree without altering current employment status.

The M.A. program offers a concentration in Public Administration. The concentration is structured to integrate broad principles of decision-making criteria, cost-benefit analysis, and planning functions with problems pertinent to Public Administration. The courses in this concentration are designed to permit an overall view of both policy and applications of economic principles to the functional requirements of public administrators. Public Administration Theory is a requirement for the concentration. Possible courses in the Public Administration concentration include:

Economic Problems and Public Policy  
Management Economics  
Personnel Administration  
Organizational Behavior  
Public Administration Theory (required)  
Population Economics  
Public Policy Process and Evaluation  
Public Finance  
Public Sector Budgeting  
Economics of Regulation  
Internship in Public Administration

#### Unconditional Admission

(a) An applicant is admitted unconditionally if the student has met all the general requirements of the Graduate College. b) has taken and passed the following courses: principles of microeconomics, principles of macroeconomics, and college algebra (or calculus). In addition, the Department requires Graduate Record Examination (GRE) with scores of 400 each in Verbal and Quantitative respectively.

#### Conditional Admission

An applicant is admitted on conditional status if the applicant has not met any of the requirements above but shows promise of being able to do the work. Once admitted, the student must complete all the deficiencies within the first semester of entrance to the program.

#### Program Requirements

A minimum of 30 semester hours of credit are required for completion of the M.A. degree program. Up to 9 of the 30 hours may be taken in related fields outside of Economics, in 400-level courses, or transfer graduate credits subject to the approval of the graduate advisor in Economics and the College of Graduate Studies. The core curriculum, which all majors are required to complete, includes the following courses:

ECON 510-ADVANCED MICROECONOMICS  
ECON 520-ADVANCED MACROECONOMICS  
ECON 530-QUANTITATIVE METHODS  
ECON 590-RESEARCH METHODOLOGY

#### COURSE DESCRIPTIONS

##### ECON 500 GRADUATE PRINCIPLES OF ECONOMICS -3 semester hours

Survey of Principles of Economics, including essential elements of microeconomics and macroeconomics. This course is only for graduate students who need exposure in Economics and may be used in the graduate education curriculum. It may not be used for credit toward the graduate degree Program in Economics.

##### ECON 510 ADVANCED MICROECONOMICS -3 semester hours

Foundations of price theory. A rigorous study of the allocating function of prices in our economy. Models and case studies of consumer behavior, product demand, production, costs, the firm in various market structures, factor employment, and factor income distribution. Welfare implications of the theory are examined.

**Prerequisite: ECON 210: Principles of Microeconomics**

##### ECON 511 INDUSTRIAL ORGANIZATION -3 semester hours

Study of the structure and operation of American industry. Topics covered: pricing and output decisions of firms under different market structures; determinants of market structure; theories of oligopoly and monopolistic competition. Empirical findings on structure and performance of markets examined.

**Prerequisite: ECON 210**

##### ECON 512 ECONOMICS OF REGULATION -3 semester hours

A systematic and critical analysis of the impact of the regulatory process upon the transportation and public utility industries with special attention to capital requirements, resource utilization, and pricing processes.

**Prerequisite: ECON 210**

**ECON 513 MANAGERIAL ECONOMICS -3 semester hours**

Applications of economics method to planning and decision-making of the firm. Topics include methods of maximizing profits, costs, market structure, forecasting, and pricing. Case studies used.

**Prerequisite: Intermediate Microeconomics or permission of instructor**

**ECON 520 ADVANCED MACROECONOMICS -3 semester hours**

Foundations of aggregate income determination. Labor and product-market structures and monetary and fiscal policies are examined as to their impact on aggregate output, the price level, and interest rates.

**Prerequisites: ECON 210, ECON 211 or ECON 500.**

**ECON 521 MONETARY ECONOMICS -3 semester hours**

Monetary theory, policy, and banking institutions examined. Effectiveness and channels of monetary policy assessed along with implications for bank lending policies.

**Prerequisites: ECON210, ECON 211 or ECON 500**

**ECON 523 PUBLIC FINANCE -3 semester hours**

Study of government receipts and expenditures. Emphasis is placed on methods of evaluation (benefit-cost), administration (bureaucracy control), and organization (centralization vs. decentralization) of the public sector with special reference to their application in practice.

**Prerequisite: ECON 510 or consent of instructor**

**ECON 524 PUBLIC ECONOMIC ADMINISTRATION THEORY -3 semester hours**

Presents the basic principles, concepts and scope of the Public Administration professional field. It examines the basic contemporary literature, administrative models, intellectual approaches, and pragmatic developments within the field of Public Administration. These are considered in the light of the important issues and problems related to management, decision making, organizational structure and implementation of public policy.

**ECON 525 PERSONNEL ADMINISTRATION -3 semester hours**

Examination of the concepts, principles, and techniques applied by professional practitioners in the public sector. Applications of the behavioral sciences to personnel management in both the private and public sectors are analyzed. Opportunities are afforded to explore developments in employee relations and unionism in the public sector.

**ECON 526 PUBLIC POLICY PROCESS AND EVALUATION -3 semester hours**

The course examines the public policy process and provides a theoretical and practical rationale of the rigorous evaluations of socioeconomic problems. Topics

to be discussed will include experimental and quasi-experimental design, research designs, internal and external validity, utilization of evaluation policy-making, and the political and environmental context of evaluation.

**ECON 530 QUANTITATIVE METHODS -3 semester hours**

Application of statistical and mathematical methods to the estimation of economic relations. Regression analysis is developed as a framework for hypothesis testing, economic forecasts, and econometric simulations. Use of statistical computer software is presented in the course.

**Prerequisite: 3 semester hours of Introductory Statistics.**

**ECON 531: ADVANCED ECONOMETRICS -3 semester hours**

Study of advanced econometric methods, problems, and models.

**Prerequisite: ECON 530 or consent of instructor**

**ECON 535 ORGANIZATIONAL BEHAVIOR -3 semester hours**

An examination of human behavior in public organizations with a focus on the manager's role and strategies used for administering more effectively. Topics studied include individual behavior and motivation, interpersonal and group behavior, leadership and power, and organizational change and development.

**Prerequisite: ECON 510 or Instructor's consent**

**ECON 536 PUBLIC SECTOR BUDGETING -3 semester hours**

An analysis of how governments obtain and utilize financial resources. Issues discussed will include budget cycles, budgetary theories, and concepts such as efficiency, equity, and accountability, as well as political, economic and social influences on the budgetary process.

**ECON 538 FINANCIAL ECONOMICS -3 semester hours**

Study of concepts, practices, and problems in managing financial decision making of firms. Attention is given to working capital management, capital budgeting, capital structure planning, and dividend policy. Concepts related to the topics include risk management, time value of money, stock and bond valuation, efficient markets, exchange rate theory, agency problems, and ethical dilemmas.

**Prerequisite: ECON 520**

**ECON 540 LABOR ECONOMICS -3 semester hours**

An analysis of the supply and demand for labor, the allocation of labor resources, the structure of employment and the determination of wages. The development of the American labor movement and the process of collective bargaining are studied as they affect employment and earnings.

**Prerequisite: ECON 510 or Instructor's consent**

**ECON 542 POPULATION ECONOMICS -3 semester hours**

Economic determinants and effects of population growth and age structure from developed and less developed countries. Special attention is given to the implication of population growth for economic development and public policy.

**Prerequisite:** Prior or concurrent enrollment in ECON 520 or consent of instructor

**ECON 550 DEVELOPMENT ECONOMICS -3 semester hours**

Theories, programs, and strategies of economic development as applied to economies that are preindustrial or in early stages of industrialization. Analysis of factors deterring economic expansion and of policies for continuous growth. Theories of economic underdevelopment are studied and tested wherever possible.

**Prerequisite:** Prior or concurrent enrollment in ECON 520 or consent of instructor

**ECON 551 INTERNATIONAL ECONOMICS -3 semester hours**

The theory of international values, comparative advantage, and the gains from trade; alternative routes to adjustment in the balance of payments, capital movements.

**Prerequisite:** Consent of instructor

**ECON 570 HISTORY OF ECONOMIC THOUGHT -3 semester hours**

Surveys historical contributions to the advancement of economic analysis, knowledge, and thought including the Physiocratic, Classical, Marginalist, Socialist, Neoclassical, Institutional, and contemporary schools of thought.

**Prerequisite:** ECON 210

**ECON 580 READINGS IN ECONOMICS -3 semester hours**

Independent supervised study in areas of particular interest to supplement course requirements.

**Prerequisite:** ECON 210

**ECON 581 SPECIAL TOPICS IN ECONOMICS -3 semester hours**

A course allowing students to study topics of special interest which are not available as regular courses. The special topic is selected by the instructor and will be reported on the student's transcript.

**Prerequisite:** ECON 210

**ECON 582 SEMINAR IN PUBLIC ADMINISTRATION -3 semester hours**

A seminar designed to study the development and process of policy making at the local, state, and national level. The emphasis in this course is on problem solving an individual research. Each student is required to identify a problem area and prepare a research paper for class discussion in which a solution to the problem is proposed and analyzed.

**Prerequisite:** Consent of instructor

**ECON 585 INTERNSHIP IN PUBLIC ADMINISTRATION -3 semester hours**

Provides an opportunity for a supervised internship placement at a government or service agency. The purpose is to provide practical experience, test academic models, participate in intergroup experiences, and to develop professional management skills. This course is designed to provide students with operational perspectives relating to agency functions in the delivery of human services.

**Prerequisite:** Consent of instructor

**ECON 590 RESEARCH METHODOLOGY -3 semester hours**

Hypothesis formulation and verification examined in areas of research interest. A proposal is presented.

**Prerequisites:** ECON 510, ECON 530

**ECON 598 COMPREHENSIVE EXAMINATION -0 semester hours**

This course is to be taken by students in the Master of Economics program during the semester that they are eligible and plan to take the required comprehensive examination.

**Prerequisites:** (a) admission to candidacy by the College of Graduate Studies, (b) 30 semester hours of complete approved coursework including ECON 510, 520, 530, and 590, and enrollment in remaining course work, and (c) approval by the candidate's faculty advisor to apply for the examination.

**ECON 599 THESIS -3 semester hours**

Research of a scholarly nature in the student's area of interest. The thesis must include a survey of existing literature as well as the student's own findings. The thesis is designed to teach organization of research in the application of research and the application of economic principles to economic problems.

**Prerequisite:** Admission to candidacy by the Graduate School and completion of ECON 590.

**ENGLISH**

The Department of Languages and Literature offers two program options leading to a Master of Arts degree with specialization in English.

**MASTER OF ARTS DEGREE – THESIS OPTION****Admission Requirements**

An applicant must meet the general requirements of the graduate division of the School of Graduate Studies and hold a bachelor's degree with a major in English, English Education, comparative literature, or some area of the Humanities with a minimum of 18 semester hours of

undergraduate English courses beyond the freshman level. (Students who have not fulfilled these specific course requirements may complete them while pursuing the M.A.)

### Program Requirements

The student will complete 36 semester hours in English studies. This total must include a minimum of 18 semester hours of coursework within the Department in the study of literature, including ENGL 555, Intensive Study of an Author (3 semester hours). Students must also take a course in methods of research, such as ENGL 517, Problems and Methods of Research. Students may take up to nine semester hours in related fields outside the Department with the approval of student's advisor. Additional coursework may come from the areas of linguistics, English Education, or other Departmental offerings. To demonstrate their knowledge of the field, students will complete this program by taking ENGL 570, Comprehensive Examination.

Students are expected to have completed the equivalent of two years of college credit (12 semester hours) in a modern foreign language, such as French, German, or Spanish.

### Program Summary – Thesis Option

#### Literature Studies

18 credits

#### Research Methods (ENGL 517)

3 credits

#### Elective (may include 9 credit hours outside the department)

15 credits

#### Comprehensive Examination (ENGL 570)

0 credits

**Total 36 credit hours**

## MASTER OF ARTS DEGREE – NON-THESIS OPTION

### Admission Requirements

An applicant must meet the general requirements of the graduate division of the College of Graduate Studies, and hold a bachelor's degree with a major in English, English Education, comparative literature, or some area of the humanities with a minimum of 18 semester hours of undergraduate English courses beyond the freshman level. (Students who have not fulfilled these specific course requirements may complete them while pursuing the M.A.)

### Program Requirements

Students will be required to complete a minimum of 18 semester hours of course work within the Department in the study of literature. Additional course work may come from the areas of linguistics, English Education, or other departmental offerings. Students may take three semester hours in a related field outside the Department with the approval of the student's advisor. No specific courses are

required: students may choose from the complete Department offerings and should consult with their advisor as to the current courses which best meet their interests.

Students are expected to have completed the equivalent of two years of college credit (12 semester hours) in a modern foreign language, such as French, German, or Spanish.

### Program Summary – Non-Thesis Option

#### Literature Studies (including ENGL 555)

18 credits

#### Research Methods (e.g., ENGL 517)

3 credits

#### Elective (may include 6 semester hours outside the Department)

15 credits

#### Comprehensive Examination (ENGL 570)

0 credits

**Total 36 credit hours**

## COURSE DESCRIPTIONS

### ENED 531 METHODS AND MATERIALS FOR THE ENGLISH CLASS - 3 semester hours

Concentration in theoretical bases, organization, and management of different types of classes; aims of teachers and ways to create environments which will most likely promote these goals; relationships between students and teachers, students and students.

### ENED 532 LINGUISTICS AND LANGUAGE INSTRUCTION - 3 semester hours

Study of significant linguistic research in the areas of modern grammatical theory, geographical and socio-cultural dialectology, language learning, and writing instruction; the implications of research findings for the English and language arts teacher.

### ENED 533 PRACTICUM - 6 semester hours

A supervised graduate level field experience. The particular type of experience to be determined by the student's educational needs and interests in consultation with the student's graduate advisor. Designed to meet the student teaching requirement for those who have not yet done so.

### ENED 534 WRITING WORKSHOP - 3 or 6 semester hours

A group of classes (scheduled during the summer session) designed to provide intensive training for teachers in developing strategies, techniques, and materials concerning the writer's craft. To provide opportunities for students to study past and current research in the field and to write papers in various modes and from different points of view.

### ENGL 501 CHAUCER- 3 semester hours

Study of the Canterbury Tales, Troilus and Criseyde, and/or selected minor poems. Graduate course offered concurrently with ENGL 401.

**ENGL 502 MILTON - 3 semester hours**

Study of the chief poems and prose works of Milton. Some emphasis on Milton's religious and political ideas. Graduate course offered concurrently with ENGL 402.

**ENGL 503 SHAKESPEARE I - 3 semester hours**

Survey of Shakespeare's early work, with reading of selected plays and their study against the background of Jacobean social, racial, critical, and theatrical ideas. Emphasis on comedies and histories. Graduate course offered concurrently with ENGL 403.

**ENGL 504 SHAKESPEARE II - 3 semester hours**

Survey of Shakespeare's later work, with reading of selected plays and their study against the background of Jacobean social, racial, critical, and theatrical ideas. Emphasis on tragedies and romances. Graduate course offered concurrently with ENGL 404.

**ENGL 505 THE ENGLISH NOVEL - 3 semester hours**

Study of the English novel from its earliest expressions to the present. Emphasis on social and cultural contexts as well as principal novelists. Graduate course offered concurrently with ENGL 405.

**ENGL 506 THE AMERICAN NOVEL - 3 semester hours**

Study of the American novel from its earliest expressions to the present. Emphasis on social and cultural contexts as well as principal novelists. Graduate course offered concurrently with ENGL 406.

**ENGL 507 REALISM AND NATURALISM - 3 semester hours**

Study of the ideas, literary methods, and influence of writers who furthered the development of the dominant mode of modern fiction. Graduate course offered concurrently with ENGL 407.

**ENGL 508 LITERATURE OF THE AMERICAN SOUTH - 3 semester hours**

Survey of main trends from Colonial times to the present, treated under such topics as patrician tradition, the Civil War, folklore, regionalism, the New South. Graduate course offered concurrently with ENGL 408.

**ENGL 509 READINGS IN ENGLISH STUDIES - 1-3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or figure in literature, film studies and/or language. May be repeated once for credit with different topic, with consent of department. Graduate course offered concurrently with ENGL 409.

**ENGL 510 READINGS IN AFRICAN AMERICAN LITERATURE - 3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or writer in African American literature and culture. May be repeated once for credit with

different topic, with consent of department. Graduate course offered concurrently with ENGL 410.

**ENGL 511 READINGS IN AFRICAN LITERATURES AND CULTURES - 3 semester hours**

Variable content. Intensive study of a major issue, movement, form, theme, or writer in African literatures and cultures. May be repeated once for credit with different topic, with consent of department. Graduate course offered concurrently with ENGL 411.

**ENGL 512 CARIBBEAN LITERATURE - 3 semester hours**

Survey of Caribbean literature, which explores fictional and non-fictional prose, poetry, and drama in order to gain an appreciation of the literature and cultures from which it springs. Graduate course offered concurrently with ENGL 412.

**ENGL 516 ENGLISH WRITING PROFICIENCY - 3 semester hours**

A course to enhance writing skills of graduate students with a need for improved verbal skills. Focuses on writing and verbal skills which will be helpful in a graduate program. Not to be counted as credit as part of a graduate program.

**ENGL 517 PROBLEMS AND METHODS OF RESEARCH - 3 semester hours**

Primarily for graduate students working for a higher degree or its equivalent. Techniques of research in English studies.

**ENGL 520 SURVEY OF LITERARY THEORY AND CRITICISM - 3 semester hours**

Examination of representative writings in literary criticism from ancient times to the present. Emphasis upon the effective application of critical principles to the analysis and evaluation of various literary forms.

**ENGL 521 RHETORICAL TRADITIONS - 3 semester hours**

Introduces major traditions of rhetorical inquiry, with a particular emphasis on their relevance to composition studies. Study of the works of various rhetoricians from the Classical period to Modern times. Graduate course offered concurrently with ENGL 421.

**ENGL 531 SEMINAR IN ENGLISH LITERATURE, 450-1660 - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in British literature of the Middle Ages and/or Renaissance. May be repeated for credit with different topic, with consent of department.

**ENGL 532 SEMINAR IN ENGLISH LITERATURE, 1660-1837 - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in British literature of the Restoration, Neoclassical, and/or Romantic periods. May be repeated for credit with different topic, with consent of department.

**ENGL 533 SEMINAR IN ENGLISH LITERATURE, 1837-PRESENT - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in British literature of the Victorian, Modern and Contemporary periods. May be repeated for credit with different topic, with consent of department.

**ENGL 534 SEMINAR IN AMERICAN LITERATURE BEFORE 1800 - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in American literature up to 1800. May be repeated for credit with different topic, with consent of department.

**ENGL 535 SEMINAR IN NINETEENTH CENTURY AMERICAN LITERATURE - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in American literature from 1800-1900. May be repeated for credit with different topic, with consent of department.

**ENGL 536 SEMINAR IN TWENTIETH/TWENTY-FIRST CENTURY AMERICAN LITERATURE - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in American literature from 1900 to the present. May be repeated for credit with different topic, with consent of department.

**ENGL 537 SEMINAR IN AFRICAN-AMERICAN LITERATURE - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in African-American literature. May be repeated for credit with different topic, with consent of department.

**ENGL 538 SEMINAR IN WOMEN'S LITERATURE - 3 semester hours**

An in-depth study of writings by women, examining major influential works from a variety of historical, social, and cross-cultural contexts, along with various critical theories constructed about women's literature.

**ENGL 539 SEMINAR IN WORLD LITERATURE - 3 semester hours**

Variable content. An examination of issues, themes, and/or genres in world literature. May be repeated for credit with different topic, with consent of department.

**ENGL 540 SEMINAR IN LINGUISTICS AND LANGUAGE - 3 semester hours**

Variable content. An examination of issues and problems in one or more of the major fields of linguistics study: phonology, morphology, syntax, semantics. May be repeated for credit with different topic, with consent of department.

**ENGL 547 ADVANCED CREATIVE WRITING - 3 semester hours**

A creative writing workshop in which students will complete an ambitious project: a group of short stories or poems, a play, or a novella. Editing, revising and critiquing with attention to the problems of longer literary forms.

**Prerequisite:** Permission of the instructor

**ENGL 550 STUDIES IN POETRY - 3 semester hours**

Variable content. An examination of poetry as a genre. May be repeated for credit with different topic, with consent of department.

**ENGL 551 STUDIES IN DRAMA - 3 semester hours**

Variable content. An examination of drama as a genre. May be repeated for credit with different topic, with consent of department.

**ENGL 552 STUDIES IN FICTION - 3 semester hours**

Variable content. An examination of fiction as a genre. May be repeated for credit with different topic, with consent of department.

**ENGL 553 STUDIES IN NON-FICTION - 3 semester hours**

Variable content. An examination of non-fiction as a genre. May be repeated for credit with different topic, with consent of department.

**ENGL 554 STUDIES IN YOUNG ADULT LITERATURE - 3 semester hours**

Study of literature for and about adolescents/young adults. Students will analyze recent young adult literature and significant earlier texts. Some consideration of curricular and pedagogical issues.

**ENGL 555 INTENSIVE STUDY OF AN AUTHOR - 3 semester hours**

Variable content. An intensive and extensive study of a writer. Consideration of style, dominant ideas, influence, development, criticism of the writer. May be repeated for credit once with different writer, with consent of the department.

**ENGL 556 CRITICAL APPROACHES TO LITERARY TEXTS - 3 semester hours**

An introduction to literary criticism and to the theoretical approaches that inform it.

**ENGL 560 RESEARCH AND THESIS - 0 semester hours****ENGL 570 COMPREHENSIVE EXAMINATION - 0 semester hour**

An oral and written examination to assess the candidates' overall knowledge of course work pursued in the graduate program and their ability to apply this knowledge to designated sets of circumstances.

**HISTORY****Degree Options**

The Department of History and Philosophy offers the Master of Arts degree in History in two areas of concentration, History and Military History. There is a thesis and a non-thesis option available within each area, and all degree options are designed to be completed within two academic years or less. The M.A. in History is a

desirable area of concentration for those who want to earn dual-enrollment status at a secondary school, teach at a community college, pursue a career in public history, or continue their studies at the Ph.D. level. The M.A. with a concentration in Military History is a desirable area for those who already work or want to work in or with the U.S. Military, in military service, in military archives and museums, or who may be interested in working with various government agencies especially those dealing with national security and overseas relations.

#### Admission Requirements

For admission into the history graduate program, the department admissions committee usually bases its evaluation on a broad set of criteria which include coursework, grades, test scores, statement of purpose or a writing sample, letters of recommendation, and other evidence of academic accomplishment and promise.

#### Undergraduate qualification

BA in History, or BA in another field with 18 credit hours in undergraduate History. Students with less than 18 hours of undergraduate History courses may enter the program provided they register simultaneously in undergraduate courses to meet the 18-hour requirement. Such undergraduate course credits earned will not count towards the graduate degree.

#### Transfer of credit

Up to nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree with the approval of the Coordinator(s) of the Graduate Program in History and the Department Chair. In all cases, an approximate grade of 'B' in the courses taken is required.

#### Graduate Record Examination (GRE)

Satisfactory scores on the Graduate Record Examination (GRE) General Test are required. In exceptional cases, a student may be allowed to fulfill the requirements by passing ENGL 516 (Advanced Writing) and/or MATH 499 (Mathematics Review).

#### Foreign Language

Graduate students in History are required to demonstrate intermediate level proficiency in a modern foreign language.

#### Application Procedure

In addition to the requirements set by the College of Graduate Studies, applicants to the history graduate program should submit a statement of purpose or a writing sample of about 1,000 words, as well as two letters of recommendation.

#### Program Coordinators

Students entering the History Graduate Program should consult with the Program Coordinators who will review their undergraduate records, determine their academic needs, provide them with faculty profiles, and advise on possibilities for graduate student assistantship. Program

coordinators also advise the chair in the selection of a faculty advisor for the student. In collaboration with the Program Coordinators, faculty advisors are responsible for maintaining student records and periodically meeting with students to review their academic progress.

#### Advisors

The Department Chair will assign each student entering the program a *Faculty Advisor* who will be the student's *Major Professor*. Students in the thesis option may select a *Thesis Advisor* from among the Graduate Faculty in the department or have one assigned to them. The list of faculty profiles will assist the student in making the choice. The faculty advisor may be the same as the thesis advisor or a Program Coordinator. Students may change advisors if and when necessary.

#### Program Cards

The Program Card shows the list of possible courses to be taken in various categories from which a schedule for the student is derived. Students should therefore meet with their advisors to complete the Program Card, which will then be sent to the College of Graduate Studies for approval.

#### Course Requirements

##### THESIS OPTION- M.A. IN HISTORY, 30 SEMESTER HOURS.

Required Courses:

HIST 509: The Philosophy and Theory of History	3 credit hours
HIST 510: Historiography	3 credit hours
HIST 554: Historical Research Methods	3 credit hours
HIST 555: Thesis	3 credit hours
American History Courses	

Minimum of 6 credit hours

World History Courses

Minimum of 3 credit hours

The student would then choose additional electives to complete the total requirement of 30 hours for the M.A. degree. These electives must be either graduate courses offered in the Department of History and Philosophy, graduate courses offered at another accredited graduate school, or graduate courses offered by another graduate program at Virginia State University. No more than nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree in History. All transfers of credit must meet with the approval of the Program Coordinator(s) and the Department Chair.

##### NON-THESIS OPTION-M.A. IN HISTORY, 30 SEMESTER HOURS

Required Courses:

HIST 509: The Philosophy and Theory of History	3 credit hours
HIST 510: Historiography	3 credit hours
HIST 536: Comprehensive Examination	0 credit hours
American History Courses	

World History Courses      Minimum of 6 credit hours  
    Minimum of 3 credit hours

The student would then choose additional electives to complete the total requirement of 30 hours for the M.A. degree. These electives must be either graduate courses offered in the Department of History and Philosophy, graduate courses offered at another accredited graduate school, or graduate courses offered by another graduate program at Virginia State University. No more than nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree in History. All transfers of credit must meet with the approval of the Program Coordinator(s) and the Department Chair.

### **NON-THESIS OPTION-M.A. IN HISTORY, 30 SEMESTER HOURS**

#### **Required Courses:**

HIST 509: The Philosophy and Theory of History      3 credit hours  
 HIST 510: Historiography      3 credit hours  
 HIST 536: Comprehensive Examination      0 credit hours  
 American History Courses      Minimum of 6 credit hours  
 World History Courses      Minimum of 3 credit hours

The student would then choose additional electives to complete the total requirement of 30 hours for the M.A. degree. These electives must be either graduate courses offered in the Department of History and Philosophy, graduate courses offered at another accredited graduate school, or graduate courses offered by another graduate program at Virginia State University. No more than nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree in History. All transfers of credit must meet with the approval of the Program Coordinator(s) and the Department Chair.

### **THESIS OPTION - M.A. MILITARY HISTORY CONCENTRATION, 30 SEMESTER HOURS.**

#### **Required Methodology Courses - 12 semester hours:**

HIST 509: The Philosophy and Theory of History      3 semester hours  
 HIST 510: Historiography      3 semester hours  
 HIST 554: Historical Research Methods      3 semester hours  
 HIST 555: Thesis      3 semester hours

#### **Required Content Courses - 12 semester hours from among the following courses:**

HIST 505: Introduction to Military History  
 HIST 535: U.S. Foreign Policy and Diplomatic History  
 HIST 572: History of Civil-Military Relations  
 HIST 575: Hot Spots and U.S. Geo-Strategic Interests  
 HIST 577: History of Military Logistics  
 HIST 578: History of Military Intelligence

#### **Elective Content Courses - Six semester hours of electives from among the following courses:**

HIST 513: The Revolutionary Era in American History, 1763-1812  
 HIST 515: Antebellum and Civil War America  
 HIST 528: Islam in Modern World Affairs  
 HIST 539: A History of the Constitution of the United States  
 HIST 551: Independent Study in American History  
 HIST 562: Africa Since 1800  
 HIST 590: Special Topics in Military History

In addition, students may, with the permission of the Program Coordinator(s) and the Department Chair, and consistent with the rules of the College of Graduate Studies, take other courses of interest to them that are outside of the pool to fulfill the "Elective Courses" requirements. These may include graduate courses offered at another accredited graduate school, or graduate courses offered by another graduate program at Virginia State University. No more than nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree in History. All transfers of credit must meet with the approval of the Program Coordinator(s) and the Department Chair.

### **NON-THESIS OPTION—M.A. MILITARY HISTORY CONCENTRATION, 30 SEMESTER HOURS.**

#### **Required Methodology Courses – 6 semester hours:**

HIST 509: The Philosophy and Theory of History      3 semester hours  
 HIST 510: Historiography      3 semester hours  
 HIST 536: Comprehensive Examination      0 semester hours

#### **Required Content Courses -- 12 semester hours:**

HIST 511 or HIST 512 and another 9 semester hours from among the following courses:  
 HIST 505: Introduction to Military History  
 HIST 535: U.S. Foreign Policy and Diplomatic History  
 HIST 572: History of Civil-Military Relations  
 HIST 575: Hot Spots and U.S. Geo-Strategic Interests  
 HIST 577: History of Military Logistics  
 HIST 578: History of Military Intelligence

#### **Elective Courses - Twelve semester hours of electives from among the following courses:**

HIST 513: The Revolutionary Era in American History, 1763-1812  
 HIST 515: Antebellum and Civil War  
 HIST 528: Islam in Modern World Affairs  
 HIST 539: A History of the Constitution of the United States  
 HIST 551: Independent Study in American History  
 HIST 562: Africa Since 1800  
 HIST 590: Special Topics in Military History

In addition, students may, with the permission of the Program Coordinator(s) and the Department Chair, and consistent with the rules of the College of Graduate Studies, take other courses of interest to them that are outside of the pool to fulfill the "Elective Courses"

requirements. These may include graduate courses offered at another accredited graduate school, or graduate courses offered by another graduate program at Virginia State University. No more than nine semester hours earned at either another accredited graduate school or with another graduate program at Virginia State University may be transferred towards the Master's degree in History. All transfers of credit must meet with the approval of the Program Coordinator(s) and the Department Chair.

### COURSES BY CATEGORY

#### Required Courses for All Graduate Students

#### **HIST 509 The Philosophy and Theory of History (3 semester hours; fall semester)**

The course explores the philosophy and theory of history, including the roles of ethics, politics, and cultural identity in historical interpretation, the variety of connections that exist between the past, present, and future, and how these connections can be expressed in terms of historical consciousness and interpretation. The course then focuses on various specific theories of historical interpretation, and how these theories connect with other disciplines.

**Prerequisite: None**

#### **HIST 510 Historiography (3 semester hours, spring semester)**

The course provides an intensive reading colloquium on the literature of history paying special attention to how and why different schools of historical thought have provided competing interpretations of the same events. Readings will focus on the history of America and the Atlantic World from the Colonial period to the contemporary era, though specific topics will vary depending on the instructor.

**Prerequisite: HIST 509**

#### Additional Required Course for the Non-Thesis Option

#### **HIST 536 Comprehensive Examination (0 semester hours; fall and spring semesters)**

Prerequisite: Approval of Faculty Advisor and Department Chair. Approval will only be granted on the assumption that the student will have completed a minimum of 30 credit hours for the M.A. degree during the semester in which the student registers for HIST 536.

A requirement of the Non-Thesis Option, the comprehensive examination is intended to demonstrate the student's competency in history at the Master's Degree level. The student's Master's Defense Committee is responsible for determining the exact form and content to be covered in the student's comprehensive examination, which will, in any case, include both a written and an oral component.

#### Additional Required Courses for the Thesis Option

#### **HIST 554 Historical Research Methods (3 semester hours, spring semester)**

A pre-requisite for HIST 555 (Thesis), this course is intended to let students become acquainted with and gain

experience doing historical research, including interpretation of primary sources, using archival materials, compiling annotated bibliographies, and citing historical sources. Special attention will be paid to improving students' skills and abilities in writing historical essays. During this course, students will initiate serious research and data collection for the M.A. Thesis.

**Prerequisite: HIST 509**

#### **HIST 555 Thesis (3 semester hours; fall and spring semesters)**

A requirement for the Thesis option, the thesis produced must follow the guidelines set by the Department of History and Philosophy as well as those of the College of Graduate Studies for the M.A. Thesis. The final draft of the thesis must be approved by all members of the student's Master's Thesis Defense Committee.

**Prerequisite: HIST 554**

#### **Course List: American History**

HIST 501 - The Colonial Era in American History  
 HIST 506 - Native Americans in Early American History  
 HIST 511 - Special Topics in United States History  
 HIST 513 - The Revolutionary Era in American History, 1763-1812  
 HIST 514 - Seminar in Southern History  
 HIST 515 - Antebellum and Civil War America  
 HIST 517 - Seminar in Reconstruction  
 HIST 518 - Industrialization, Expansion, and the Rise of the American Empire, 1850s to 1945  
 HIST 520 - Seminar in American History After World War II  
 HIST 535 - U.S. Foreign Policy and Diplomatic History\*  
 HIST 537 - Economic and Business History of the United States  
 HIST 539 - A History of the Constitution of the United States  
 HIST 540 - From Freedom to Slavery: The Black Experience in North America to 1865  
 HIST 541 - From Slavery to Freedom: The Black Experience Since 1865  
 HIST 543 - History of Race Relations in the U.S.  
 HIST 545 - Women's History  
 HIST 546 - Modern American Social History  
 HIST 547 - Oral History  
 HIST 551 - Independent Study in American History  
 HIST 553 - History of Black Education in the United States  
 HIST 559 - A History of Black Religious Experiences in America  
 HIST 592 - Coming to America: A History of Immigration to the Americas

#### **Course List: World History**

HIST 512 - Special Topics in World History\*\*  
 HIST 525 - Latin American History  
 HIST 542 - History of Slavery in National and International Perspective  
 HIST 561 - Africa to 1800  
 HIST 562 - Africa Since 1800\*\*  
 HIST 563 - The Atlantic World During Colonialism and Slavery

HIST 564 - The Atlantic World in the Post-Colonial Era

**Course List: Military History**

HIST 505 - Introduction to Military History  
 HIST 511 - Special Topics in United States History\*  
 HIST 512 - Special Topics in World History\*\*  
 HIST 513 - The Revolutionary Era in American History, 1763-1812\*  
 HIST 515 - Antebellum and Civil War America\*  
 HIST 528 - Islam in Modern World Affairs  
 HIST 535 - U.S. Foreign Policy and Diplomatic History\*  
 HIST 539 - A History of the Constitution of the United States\*  
 HIST 551 - Independent Study in American History  
 HIST 562 - Africa Since 1800\*\*  
 HIST 575 - Hot Spots and U.S. Geo-Strategic Interests  
 HIST 577 - History of Military Logistics  
 HIST 578 - History of Military Intelligence  
 HIST 590 - Special Topics in Military History

\*These courses are co-listed in the Course Lists for American History and Military History

\*\*These courses are co-listed in the Course Lists for World History and Military History

**Academic Performance**

A graduate student whose GPA falls below 3.0 will be placed on probation. Failure to raise the GPA to 3.0 within a semester will lead to dismissal from the program. Students suspended for academic reasons may appeal to the Graduate Policies and Petitions sub-Committee of the Curriculum and Academic Issues Committee for reinstatement.

**Special Topics Courses**

A student can take up to two Special Topics courses (HIST 511 and HIST 512 and HIST 590) as long as they do not duplicate courses taken or being taken.

**Independent Study Courses**

A student can take one Independent Study course (HIST 551) to further his/her special historical interest after a semester of study as long as it does not duplicate a course taken or being taken.

**Completion of Graduate Program Requirements**

All degree requirements must be completed within six years. Extensions of up to two years may be granted by the Graduate Policies and Petitions Sub-Committee.

**Candidacy**

A student will only be eligible for advancement to candidacy after completing a minimum of 12 semester hours with a 'B' average in the approved program of study and removing all conditions on admission. The student must have approval from his/her faculty advisor and the Program Coordinators to apply for admission to candidacy. Admission to candidacy must be completed no later than the preceding semester in which the student expects to graduate.

**Thesis Option**

At any point during the course of study, a student who has completed between 12 and 24 graduate semester hours can submit for review and approval, a thesis proposal to the Master's Defense Committee the student selects. The committee should consist of three graduate faculty, two of whom must be from the History Department (including the student's advisor).

*Proposal:* The thesis proposal must include:

- a thesis statement;
- an annotated bibliography;
- a plan of research.

*Thesis Title Card:* Candidates for the Master of Arts degree will file the Thesis Title Card approved by the advisor in the semester before the candidate expects to complete all requirements for the degree.

*Thesis:* The completed thesis must comply with the guidelines set by the Department of History and Philosophy as well as those of the College of Graduate Studies.

*Review and Defense:* Drafts of the thesis should be forwarded to the Master's Defense Committee for review and comments. The final draft of the thesis must be submitted to all members of the committee at least ten days prior to the scheduled defense date, which should not be later than the last day of classes during the semester in which the student intends to graduate. In certain cases, the student's work may be approved conditionally, pending certain changes as recommended by the committee.

**Non-Thesis Option**

At any point during the course of study, a student who has completed between 12 and 24 graduate semester hours can select a Master's Defense Committee. The committee should consist of three graduate faculty, two of whom must be from the History Department (including the student's advisor). The committee will determine the form of the final written and oral examinations.

*Comprehensive Examination:* The student must file with the College of Graduate Studies, a completed **Application for Comprehensive Examination** Form during the final semester of study or after he/she has completed all course work. The student, in consultation with the Master's Defense Committee, is responsible for scheduling the final written and oral exams at the end of the last semester of the student's course work.

**COURSE DESCRIPTIONS**

**HIST 501 THE COLONIAL ERA IN AMERICAN HISTORY – 3 semester hours**

An in-depth survey of North American history from the early beginnings to the American Revolution, including the interactions between native Americans, Europeans, and Africans.

**HIST 505 INTRODUCTION TO MILITARY HISTORY – 3 semester hours**

This course will encompass a broad view of the history of warfare especially from the point of view of the inter-relationship between political objectives and the development and execution of strategy. Selected case studies from ancient times to the present will show how policies and strategies of warfare have changed over time and with what consequences for the development of human societies. Emphasis will be placed on the role of arms in Western dominance and U.S. military policy since World War I.

**HIST 506 NATIVE AMERICANS IN EARLY AMERICA – 3 semester hours**

A study of Native Americans in North America through the early nineteenth century, including the earliest migrations to North America, the development of the early agricultural societies, the rise and fall of the Pre-Columbian civilizations, the evolution of Plains and Eastern Woodland cultures in the centuries immediately preceding the arrival of Europeans, the effects of European contact and encounters, and the impact of the formation of the United States on Native American societies.

**HIST 509 THE PHILOSOPHY AND THEORY OF HISTORY - 3 semester hours**

The course explores the philosophy and theory of history, including the roles of ethics, politics, and cultural identity in historical interpretation, the variety of connections that exist between the past, present, and future, and how these connections can be expressed in terms of historical consciousness and interpretation. The course then focuses on various specific theories of historical interpretation, and how these theories connect with other disciplines.

**HIST 510 HISTORIOGRAPHY - 3 semester hours**

The course provides an intensive reading colloquium on the literature of history paying special attention to how and why different schools of historical thought have provided competing interpretations of the same events. Readings will focus on the history of America and the Atlantic World from the Colonial period to the contemporary era, though specific topics will vary depending on the instructor.

**Prerequisite:** HIST 509

**HIST 511 SPECIAL TOPICS IN UNITED STATES HISTORY - 3 semester hours**

A reading and writing intensive seminar dealing with various topics in American History, based on particular interests, research fields, or topics.

**HIST 512 SPECIAL TOPICS IN WORLD HISTORY - 3 semester hours**

The course provides students the opportunity to read and research in various topics of periods related to African, Asian, European or later American history.

**HIST 513 THE REVOLUTIONARY ERA IN AMERICAN HISTORY, 1763-1812 - 3 semester hours**

A critical investigation into the social, economic, and

political developments inside colonial America that led to the American Revolution, followed by an examination of the revolution itself, successes and possible failures, and longer-term political, social, and economic results of the revolution.

**HIST 514 SEMINAR IN SOUTHERN HISTORY - 3 semester hours**

A reading, writing, and research intensive seminar on aspects of Southern History.

**HIST 515 ANTEBELLUM AND CIVIL WAR AMERICA - 3 semester hours**

This course concentrates upon the regional transformation of the United States in the early Nineteenth Century and its tragic outcome, the Civil War. Drawing upon political, economic, social, and regional themes, the course presents a comprehensive view of why the Civil War occurred and how the conflict transformed America.

**HIST 517 SEMINAR IN RECONSTRUCTION -Second semester - 3 semester hours**

Intensive study of various historical interpretations of Reconstruction (1865-1877) -- a reading, writing, and discussion intensive graduate seminar.

**HIST 518 INDUSTRIALIZATION, EXPANSION, AND THE RISE OF THE AMERICAN EMPIRE, 1850s TO 1945 - 3 semester hours**

A critical historical investigation into a seminal period in American history, with an emphasis on the social and economic forces that brought about the unprecedented changes that led to the formation of American economic and military superiority. Both short and long-term consequences will be evaluated, and students will research different aspects of the costs and benefits of industrialization, expansion, and the rise of the American empire.

**HIST 520 SEMINAR IN AMERICA AFTER WORLD WAR II - 3 semester hours**

Students will study the forces that changed America after World War II.

**HIST 528 ISLAM IN MODERN WORLD AFFAIRS –3 semester hours**

This course will focus on the diversity of Islamic cultures and societies and the way in which they impact global affairs. Topics to be studied may include “Hot Issues” like oil, the Arab-Israeli contract, modernization in reforming vs. conservative societies, the rise of religious extremism and controversial theories about present-day Islam, as well as Islam in the U.S.

**HIST 535 U.S. FOREIGN POLICY AND DIPLOMATIC HISTORY – 3 semester hour**

This course will examine major trends in U.S. foreign policy beginning with the expansion of U.S. influence and power through the early 21<sup>st</sup> century. Emphasis will be placed on the policies, mechanisms and events related to the exercise of that power and students will be introduced to critical analyses of the conflicting interpretations and the

intense historical controversies they have given rise to.

**HIST 536 COMPREHENSIVE EXAMINATION – 0 semester hours**

A requirement of the Non-Thesis Option, the comprehensive examination is intended to demonstrate the student's competency in history at the Master's Degree level. The student's Master's Defense Committee is responsible for determining the exact form and content to be covered in the student's comprehensive examination, which will, in any case, include both a written and an oral component.

**Prerequisite: Approval of Faculty Advisor and Department Chair. Approval will only be granted on the assumption that the student will have completed a minimum of 30 credit hours for the M.A. degree during the semester in which the student registers for HIST 536.**

**HIST 537 ECONOMIC AND BUSINESS HISTORY OF THE UNITED STATES - 3 semester hours**

The Graduate track of HIST 437, offered at the same time under the same title. A study of the ideas, forces, and people behind the emergence of a capitalist economy in the United States, from the Revolution to the present.

**HIST 539 A HISTORY OF THE CONSTITUTION OF THE UNITED STATES - 3 semester hours**

The Graduate track of HIST 439, offered at the same time under the same title. An investigation into the historical formation, interpretations over time, and changes of the U.S. Constitution.

**HIST 540 FROM FREEDOM TO SLAVERY: THE BLACK EXPERIENCE IN AMERICA TO 1865 - 3 semester hours**

A comprehensive historical investigation into the social and economic forces that led to European colonialism, the trans-Atlantic slave trade, various forms of bondage and slavery in North America, black cultural, intellectual, and institutional development within the confines of slavery and racism, the continuous, multi-faceted struggle for freedom, and the significance of blacks in the shaping of American history. While the course emphasizes the black experience, other racial and ethnic groups who were affected by European expansion and slavery will also be investigated.

**HIST 541 FROM SLAVERY TO FREEDOM: THE BLACK EXPERIENCE SINCE 1865 - 3 semester hours**

An intensive exploration of the experiences of blacks in America from the end of slavery to the present. Key topics of investigation include: the promises and failures of Reconstruction; comparing the experiences of blacks in the era of segregation based on variables such as region, occupation, and gender; the roots of the civil rights movement in the actions of earlier generations; the civil rights movement; and the successes, failures, and unexpected consequences of desegregation. While the course emphasizes the black experience, other social groups who were either significantly involved and/or affected in the course of the black experience in the U.S.

since slavery will also be investigated.

**HIST 542 HISTORY OF SLAVERY IN NATIONAL AND INTERNATIONAL PERSPECTIVE - 3 semester hours**

A critical in-depth examination into the causes, significance, and consequences of slavery in the United States. U.S. slavery will be juxtaposed to other known forms of slavery in America and around the world, evaluated in its consequences on slave populations and their resistance to slavery, and studied in its impact on the social realities of race, class, and power in American society.

**HIST 543 HISTORY OF RACE RELATIONS IN THE U.S. - 3 semester hours**

An intensive critical analysis of the role of race in American history, with an emphasis on race as a social and historical construct. The seminar will investigate the historical formations of racial identities, changing patterns of race relations over time, forms of racism and white supremacy, as well as the continued significance of race in the social reality of modern American society. All students will be required to engage in research.

**HIST 545 AMERICAN WOMEN'S HISTORY - 3 semester hours**

The Graduate track of HIST 445, offered at the same time under the same title. A study of the significance of women in American history, focusing on the changing historical roles of women in society and the emergence of the women's movement.

**HIST 546 MODERN AMERICAN SOCIAL HISTORY - 3 semester hours**

A critical study of the work of an increasingly significant sub-field of American history. Depending on instructor and semester, changing investigative emphasis will be placed on such classical fields of American Social History as Women's History, Labor History, Social Movements, and Civil Rights. An intensive writing and discussion seminar.

**HIST 547 ORAL HISTORY - 3 semester hours**

An intensive theoretical and practical study of oral history research methodologies. Students will gain practical experiences in the field of oral history.

**HIST 551 INDEPENDENT STUDY IN AMERICAN HISTORY - 3 semester hours**

This course allows graduate students to pursue specialized topics of research and historical training in American History under the supervision of one of the History Department graduate faculty. Students will meet with their instructor on a mutually agreed upon schedule, and will be expected to do a substantial amount of reading, research, and writing.

**Prerequisite: One semester of studying the program or at least 6 hours of graduate history courses.**

**HIST 553 HISTORY OF BLACK EDUCATION IN THE UNITED STATES - 3 semester hours**

The Graduate track of HIST 453, offered at the same time

under the same title. An investigation into the ideologies, methods, and struggles involved in the education of blacks in the United States across time and regions.

**HIST 554 HISTORICAL RESEARCH METHODS - 3 semester hours**

A pre-requisite for HIST 555 (Thesis), this course is intended to let students become acquainted with and gain experience doing historical research, including interpretation of primary sources, using archival materials, compiling annotated bibliographies, and citing historical sources. Special attention will be paid to improving students' skills and abilities in writing historical essays. During this course, students will initiate serious research and data collection for the M.A. Thesis.

**Prerequisite: HIST 509**

**HIST 555 THESIS - 3 semester hours**

A requirement for the Thesis option, the thesis produced must follow the guidelines set by the Department of History and Philosophy as well as those of the College of Graduate Studies for the M.A. Thesis. The final draft of the thesis must be approved by all members of the student's Master's Thesis Defense Committee.

**Prerequisite: HIST 554**

**HIST 559 A HISTORY OF BLACK RELIGIOUS EXPERIENCES IN AMERICA – 3 semester hours**

The Graduate track of HIST 459, offered at the same time under the same title. This course examines the origins and contributions of the black sectarian and established religious experiences in America from the Colonial period to the present.

**HIST 561 AFRICA TO 1800 – 3 semester hours**

The Graduate track of HIST 461, offered at the same time under the same title. This course covers the history of Africa from the earliest times, through the period of early state formation until the end of the eighteenth century.

**HIST 562 AFRICA SINCE 1800 – 3 semester hours**

The Graduate track of HIST 462, offered at the same time under the same title. This course traces the history of Africa since the early nineteenth century. The course includes the Islamic revolutions, the increasing European influence, and African resistance, ending with the development of independent nations.

**HIST 563 THE ATLANTIC WORLD DURING COLONIALISM AND SLAVERY – 3 semester hours**

A study of the social, economic and political developments in Europe, West Africa and the New World, which gave rise to the 'Atlantic System' and the triangular trade. Emphasis will be placed on the origin, conduct, and consequences of the trans-Atlantic slave trade, the rise of New World slavery/slave communities as well as the development of African states.

**HIST 564 THE ATLANTIC WORLD IN THE POST-COLONIAL ERA – 3 semester hours**

A study of the social, economic and political developments in Europe, West Africa and the New World, which resulted

in the British-led efforts to end the trans-Atlantic slave trade. Emphasis will be placed on the termination of the slave trade and slavery and their consequences on both sides of the Atlantic.

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**HIST 572 HISTORY OF CIVIL-MILITARY RELATIONS – 3 semester hours**

This course is a study of the history of the U.S. military's place within American culture. It will examine the evolution of principles and institutions, military professionalism, the nature and mechanism of civilian control, the dichotomy between operational demands and bureaucratic processes as well as race gender issues. At the end of the course, students will be challenged to formulate ideas regarding future trends for improving civil military relations.

**HIST 575 HOT SPOTS AND U.S. GEO-STRATEGIC INTERESTS - 3 semester hours**

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The U.S. has geo-strategic interests around the world which impact U.S. national security in varying degrees. As such, the intensity of U.S. policies and responses are not even: they are strongest where the greatest threats have been perceived. There can be several policy targets with shifts constantly occurring over time. This course will focus on the study of any specific region or regions of the world where there are U.S. interests. In particular, it will examine U.S. policy in that region against the background of its culture and history, and determine the adequacy or otherwise of any or all policy options available.

**HIST 577 HISTORY OF MILITARY LOGISTICS - 3 semester hours**

This course is a study of the history of military logistics including the development of logistical functions and principles over distinct historical phases. The course will focus on military supplies and support, transport and communications, evacuation and services, especially maintenance, the rise of the military base, and the nature of today's scale, complexity and specialization of military logistics.

**HIST 578 HISTORY OF MILITARY INTELLIGENCE - 3 semester hours**

This course will focus on the evolution of modern intelligence since the 20<sup>th</sup> century. It will cover the origins, types, analytical and assessment methods, perceptions and uses by policy-makers and military commanders. It will also examine inter-agency co-operation, counter-intelligence, civilian relations especially civilian supervision of intelligence communities, controversies over morality in intelligence, the impact of technology and the role of intelligence in the 21<sup>st</sup> century.

**HIST 590 SPECIAL TOPICS IN MILITARY HISTORY - 3 semester hours**

This is an open and flexible format course that allows the intensive study of some significant topic, region or theme from the standpoint of military history. The course can be conducted as a seminar, lecture class or an individualized study under the supervision of an expert in the chosen area.

### **HIST 592 COMING TO AMERICA: A HISTORY OF IMMIGRATION TO THE AMERICAS - 3 semester hours**

The Graduate track of HIST 492, offered at the same time under the same title. A history of immigration to the Americas--both North and South America. Focus on the changing patterns of immigrations, such as source areas, and destinations. Impact of immigration on economy and culture of host areas. Reception of immigrants in host regions. Contemporary issues involving new and old immigrants.

### **MASTER OF ARTS IN MEDIA MANAGEMENT**

#### **DESCRIPTION**

The Department of Mass Communications trains students in the fields of audio and video production, photojournalism, film studies, public relations, and print online journalism. The mass communications major of the 21st century is involved in the management of people and resources, as well as the development and use of new technology.

The department's faculty are active in academic and professional research and creative activities relevant to the mass communications field. We strive to incorporate students in these activities, exposing them to professional environments and expectations. We have memoranda of understanding to provide media services to the City of Petersburg, Minor League Baseball, and various non-profit and educational agencies in the surrounding community. We also actively collaborate with other academic units, both within Virginia State University and in other institutions for research and media services purposes.

The department provides media related services to a variety of constituents in Central Virginia, including the digital conversion of an extensive jazz performance recording library. These digitally remastered recordings will be preserved in the VSU library and the US Library of Congress. Our students have done documentary, interview and oral history work, giving students an expanded sense of history as well as the value of mass media services in preserving and communicating history.

#### **MISSION OF THE DEPARTMENT**

The **mission** of the Department of Mass Communications is to educate the next generation of leaders in the mass communications profession by providing academic diversity which allows the department to provide an exceptional and exciting interdisciplinary environment within.

#### **PROGRAMS OFFERED**

Our **Master of Arts in Media Management** is designed to provide industry professionals with additional training necessary for them to move higher in their media corporate organization. It also accepts recent undergrads seeking extended preparation as they enter the job market. The

program and course descriptions appear in the Virginia State University Graduate Catalog.

The Department of Mass Communications offers a much-coveted **Certificate in ProTools** – a high-end professional audio editing and production platform. This certification is widely sought and highly valued in the mass media industry. VSU's Mass Communications department is the only venue in Virginia offering this program.

### **DEPARTMENT OF MASS COMMUNICATIONS and COMMUNICATION SERVICES**

#### **Masters of Arts in Media Management (36 hours) Suggested Plan**

#### **FIRST YEAR**

1<sup>st</sup> Semester  
MCOM-501 Media Management and Leadership  
MCOM-503 Media Research Methods  
MCOM-505 Media Convergence

2<sup>nd</sup> Semester  
MCOM-506 Media Law  
MCOM – (Professional Development Course)  
MCOM – (Professional Development Course)

Total 18 semester hours

#### **SECOND YEAR**

1<sup>st</sup> Semester  
MCOM-504 Communication Theory & Criticism  
MCOM – (Professional Development Course)  
MCOM – (Professional Development Course)

2<sup>nd</sup> Semester  
MCOM – (Professional Development Course)  
MCOM – (Professional Development Course)  
MCOM-541 Thesis or MCOM-542 Professional Project

Total 18 semester hours

Thesis: A student seeking to take MCOM-541 Thesis must successfully defend the proposed thesis topic by mid-term the semester before registering for MCOM-541.

If the thesis project involves doing research involving human subjects, the student must also bring the proposal before VSU's Institutional Review Board. Additional information is available on the VSU website under "Research" – look for the Office of Sponsored Research and Programs.

A student should begin early to focus on a thesis or professional project concept, seeing the advice of the department faculty.

#### **COURSE DESCRIPTIONS**

### **MCOM 501 MEDIA MANAGEMENT AND LEADERSHIP IN A MULTICULTURAL SOCIETY , 3 semester hours**

This seminar is designed to introduce students to the broad range of issues that face media managers. It specifically

addresses management and leadership topics related to cultural diversity. The course will include introductory material on media economics, research, theory and criticism. It will also address current management issues and those related to emerging technologies.

**MCOM 502 MEDIA ECONOMICS, 3 semester hours,**

This seminar surveys the economic environment in which media operate and discusses the forces that shape media, market and consumer behavior. Topics covered will include the economic structure and performance of mass media industries; media ownership; impact of new technologies on the media industry and media firms; the use of economic analysis to explain/predict media and industry behaviors; and historical trends in competition, concentration and convergence.

**MCOM 503 MEDIA RESEARCH METHODS, 3 semester hours**

This seminar is an introduction to research for media professionals. Various methods of data collection -- including experiments, survey methods, qualitative research, historical and legal methodology -- will be introduced. Students will also learn to analyze and interpret the results of mass media research as well as develop their own media research proposals.

**MCOM 504 COMMUNICATION THEORY AND CRITICISM, 3 semester hours**

This seminar is designed to investigate theoretical and critical approaches to the study of mass media. Students will explore theories about the impact of media on society as well as the variety of critical methodologies that can be used to address the relationship between media and culture.

**MCOM 505 MEDIA CONVERGENCE, 3 semester hours**

This course examines global implications of media convergence, the challenges media outlets face in a converging media universe, new technologies in news gathering and news reporting and how they will affect audiences.

**MCOM 506 MEDIA LAW, 3 semester hours,**

This course examines the various laws that affect media professions, including the First Amendment, the Freedom of Information Act, libel, copyright, privacy telecommunication regulations and obscenity laws. This course is designed to introduce students to legal concepts pertinent to the communication industries. It will investigate the dynamic nature of the First Amendment through the evaluation of precedence and legal proceedings.

**MCOM 507 MEDIA ETHICS, 3 semester hours**

This course investigates the conflicting responsibilities facing communication professionals. Using a case study approach, this course will focus on the craft of ethical decision-making within current media guidelines. Topics of discussion will include the historical roots of limitations on the media, changing social expectations for information dissemination, and editorial leadership. Cases involving

conflicts of value in print, broadcasting, advertising, and public relations will be analyzed.

**MCOM 508 PROCESS AND EFFECTS OF MASS COMMUNICATIONS, 3 semester hours**

A study of the major areas of mass communications research literature, emphasizing mass communication effects on research.

**MCOM 511 HISTORY OF PRINT MEDIA AND TECHNOLOGICAL DEVELOPMENT, 3 semester hours**

This course will survey the history of the American print media from the colonial era to the present. It will include key moments, movements and people, as well as the growth of African American and other minority-owned media organizations. The course will trace the history of media ownership, the advent of broadcasting and the growth of the internet.

F, Sp, Su

**MCOM 512 International Journalism, 3 semester hours**

This course is a cross-cultural study of journalism and communication in the "global village." It compares media practices in democracies and under state-run media. It will look at how the news media and communication professions are affected by technology such as the internet and satellite transmissions that allow the flow of uncensored information across national borders. It will look at the effects of the new "information world-order" on cultures, politics and economics.

F, Sp, Su

**MCOM 513 NEWSPAPER MANAGEMENT, 3 semester hours**

This course prepares students for future management positions with newspapers through the study of how newspapers function today and through the application of management principles.

F, Sp, Su

**MCOM 514 INDEPENDENT STUDY IN PRINT, 1-3 semester hours**

This course is designed to meet the needs of the print media student who wishes to conduct independent research, develop a special academic project or fulfill other department requirements outside of the usual class structure. Prerequisites: Approval of a faculty sponsor to oversee the independent study.

F, Sp, Su

**MCOM 515 SPECIAL TOPICS IN PRINT, 3 semester hours**

In this seminar, students get the opportunity to develop specific journalistic skills. Possible topics include online journalism, interviewing and advanced editing. Can be repeated once for credit if the special topic has changed.

**MCOM 516 INTERNSHIP IN PRINT MEDIA, 3 semester hours**

F, Sp, Su

This is a part-time placement in a professional setting for students to gain practical experience in their sequence. Prerequisites: Graduate status and permission of the internship coordinator.

**MCOM 521 BROADCAST JOURNALISM, 3 semester hours**

An overview of the broadcast media, with emphasis on

news gathering, preparation, writing and delivery techniques, as well as the rules and regulations that apply to broadcast journalism.

**MCOM 522 HISTORY OF ELECTRONIC MEDIA , 3 semester hours**

A study of the history and technological advancements in electronic media in the United States.

**MCOM 523 BROADCAST MANAGEMENT, 3 semester hours**

This course examines how media companies function today and provides a study of the concepts and principles of broadcast management.

**MCOM 524 INDEPENDENT STUDY IN BROADCASTING , 1-3 semester hours**

This course is designed to meet the needs of the public relations student who wishes to conduct independent research, develop a special academic project or fulfill other department requirements outside the usual class structure. Prerequisites: Approval of a faculty sponsor to oversee the independent study.

**MCOM 525 SPECIAL TOPICS IN BROADCASTING, 3 semester hours**

This seminar allows students to examine specific issues related to broadcasting. Possible topics include telecommunication regulation, video documentary production, public radio reporting, and digital and electronic production and editing. Can be repeated once for credit if the special topic has changed.

**MCOM 526 INTERNSHIP IN BROADCASTING, 3 semester hours**

This is a part-time placement in a professional setting for students to gain practical experience in their sequence. Prerequisites: Graduate status and permission of the internship coordinator.

**MCOM-528 CHILDREN, ADOLESCENTS AND THE MEDIA, 3 semester hours**

An introduction to the major debates and effects of the media on children and adolescents. It will also examine how various age groups process and make sense of media content. Students will discuss complex issues, theories and find solutions via research.

**MCOM 531 CONTEMPORARY PUBLIC RELATIONS, 3 semester hours**

An overview of the practice of public relations, ethics of the public relations profession, and the history of public relations in the United States.

**MCOM 532 PUBLIC RELATIONS CAMPAIGNS, 3 semester hours**

This seminar enables students to research and design complete public relations campaigns. Emphasis is on strategic planning based on research.

**MCOM 533 CRISIS COMMUNICATION, 3 semester hours,**

This course examines case studies of organizations' communication needs and dilemmas in emergencies and crises. Students will look at the role of the public relations practitioner in preventing and managing such problems as

scandals, natural disasters and negative public image. Students will examine case studies such as the Tylenol and Pepsi tampering cases and the Denny's and Texaco discrimination cases.

**MCOM 534 INDEPENDENT STUDY IN PUBLIC RELATIONS, 1-3 semester hours**

This course is designed to meet the needs of the public relations student who wishes to conduct independent research, develop a special academic project or fulfill other department requirements outside of the usual class structure. Prerequisites: Approval of a faculty sponsor to oversee the independent study.

**MCOM 535 SPECIAL TOPICS IN PUBLIC RELATIONS, 3 semester hours**

This seminar allows students to examine specific issues related to public relations. Possible topics include corporate, internal, community, and constituent relations. Can be repeated once for credit if the special topic has changed.

**MCOM 536 INTERNSHIP IN PUBLIC RELATIONS, 3 semester hours**

This is a part-time placement in a professional setting for students to gain practical experience in their sequence. Prerequisites: Graduate status and permission of the internship coordinator.

**MCOM 541 THESIS, 3 semester hours**

**MCOM 542 PROFESSIONAL PROJECT, 3 semester hours**

F, Sp, Su

**MASTER OF SCIENCE IN CRIMINAL JUSTICE**

**PROGRAM DESCRIPTION**

**Core Mission of the Program F, Sp, Su**

The Master of Science in Criminal Justice program will provide opportunities for advanced graduate work and scholarship in criminal justice. The program is designed to: 1) provide a Master of Science degree for entry into leadership positions in criminal justice professions; 2) provide advanced professional educational opportunities for those who already work in the field of criminal justice; and 3) produce a new generation of academics capable of pursuing doctoral studies and leading the profession of criminal justice in the 21st century. The students graduating with a Master's of Science in Criminal Justice degree will: 1) demonstrate a thorough understanding of the field of criminal justice; 2) acquire theoretical knowledge of crime and criminal behavior; 3) have improved skills for conducting scientific research in criminal justice; 4) develop improved competence in criminal justice administration and leadership; and 5) attain academic competence to pursue doctoral studies in criminal justice.

**Admission Requirements**

In addition to the requirements for admission to the College of Graduate Studies, the applicants who wish to pursue a

Master's of Science Degree in Criminal Justice must meet the following departmental requirements.

A. Unconditional Admission

To be admitted in the regular status category, students will be required to fulfill: 1) a bachelors' degree from any accredited college or university; 2) an undergraduate grade-point-average [GPA] of 3.00 or higher on a 4.00 scale; and 3) Graduate Record Examination (GRE); 4) a personal statement describing personal characteristics, personal development reasons for seeking this degree, personal and professional experiences that influenced decision to pursue an advanced degree in criminal justice; 5) three professional/academic recommendations addressing character and academic promise.

B. Conditional Admission

A limited number of applicants, with a grade-point-average below a 3.00 and the minimum course prerequisites, may be admitted on a provisional status.

All applications are to be made on the official graduate application form of Virginia State University, which may be obtained from the College of Graduate Studies Office. The completed application should be returned to the College of Graduate Studies Office.

**Program Requirements**

All students enrolled in the graduate program will have to complete a total of thirty-six (36) credit hours of graduate work. Of these thirty-six credit hours, 18 credit hours must be from general core courses, and 12 credit hours must be from the areas of concentrations offered by the department. Six credit hours may be taken from criminal justice electives or from graduate courses offered by other departments such as Biology, Economics, Education, English, Psychology, and History.

**Program Structure**

Students will have two options: 1) Thesis Option [Plan A] and 2) Non-Thesis Option [Plan B]. Both plans require the completion of 36 credit hours in graduate work. For both Plans, the core requirements [18 credit hours] are the same.

**THESIS OPTION- PLAN A**

The thesis option requires 36 credit hours of course work and the completion of a master's thesis including an oral defense. The 36 credit hours of course work consists of 18 credit hours of core courses, a 12 credit hour concentration, and Master Thesis (6 credit hours). The core courses consist of:

CJUS 501 Theories of Crime and Criminology  
 CJUS 502 Contemporary Criminal Justice  
 CJUS 503 Research Methods in Criminal Justice  
 CJUS 504 Statistics and Data Analysis in Criminal Justice  
 CJUS 505 Policy Analysis in Criminal Justice

CJUS 506 Ethics in Criminal Justice

**Thesis:** The students opting for Plan A will complete a Master's Thesis with the active guidance of a committee of three faculty. Students should consult with their academic advisor during their first semester in selecting the thesis option. Those students selecting the thesis option should begin the selection of a committee and committee chair during their second semester.

**Thesis Committee:** The graduate faculty will assist students in the choice of a thesis chair and committee members. The Thesis Committee must consist of a thesis chair and two other graduate criminal justice faculty who are willing to serve as committee members and readers of the thesis. Student must secure the members of the Thesis Committee no later than six months before the candidate expects to complete all requirements for the degree and the Graduate Coordinator must be informed about the formation of the Committee. The thesis chair plays a pivotal role in the development of the thesis and is primarily responsible for directing the student throughout the thesis process. Although the student will work with all members of the thesis committee, the thesis chair should coordinate much of the activity surrounding the thesis and its development. It should be noted that each thesis may be different and thus alter the roles played by committee members.

**Research and Master's Thesis Course:** Students opting for the thesis option are required to register for CJUS 597 – Research and Master's Thesis Part I after earning at least 27 credits. The student will earn three credits for completing preliminary work for the thesis. After the completion of Part I course students need to register for CJUS-599 Research and Master's Thesis Part II to complete the thesis work and defend the thesis in an Oral Defense. Successful course work, thesis preparation and defense will result in a total of 36 credit hours.

**CJUS 597 RESEARCH AND MASTER'S THESIS PART I – 3 semester hours**

Students pursuing the Thesis Option will register and Graduate Committee consisting of three faculty will be assigned. Students will be required to select research topic, formulate a hypothesis, complete a literature review and begin writing the thesis.

**CJUS 599 RESEARCH AND MASTER'S THESIS PART II – 3 semester hours**

Students pursuing the thesis will complete the research work and write the report under the supervision of Thesis Committee. The thesis must be prepared according to guidelines of the College of Graduate Studies. The Thesis must be successfully defended in an oral defense.

**Thesis Topic and Proposal:** Immediately after the formation of the Thesis Committee, the student must present his/her thesis proposal for approval. This proposal must be approved and signed by all members of the thesis committee and sent to the Graduate Program Coordinator at least one semester prior to the semester the candidate expects to complete all requirements for the degree.

**Thesis:** A thesis is a manuscript that documents systematic inquiry into a research question. It, like a comprehensive examination, allows for a capstone integration of material. The student must conduct research and report the results in the appropriate social science format. The thesis should demonstrate originality and understanding of the chosen topic. The student must pass an oral examination on the subject of the thesis and related questions. (The student will receive either a “pass-no revisions”/ “pass-minor revision”/ “pass-major revisions”/ or “fail” distinction.). The official examiners will consist of the three thesis committee members. An Oral Examination Application scheduling form must also be filed with the graduate coordinator at least four weeks prior to the oral examination (defense) date.

**Thesis Submission:** The completed thesis, when approved and defended, will carry the signatures of the members of the thesis committee. The student will supply three copies of the thesis, two of which will be placed in the Virginia State University Library and another in the department library. The student will provide an abstract of the thesis of not more than 400 words to be filed in the Criminal Justice Office.

#### NON-THESIS OPTION- PLAN B

The non-thesis option requires 36 credit hours of course work, successful completion of a comprehensive examination which includes an oral defense of the written examination. The 36 credit hours of course work consists of 18 credit hours of core courses, a 12 credit hour concentration, and 6 credit hours of criminal justice elective courses. The core courses consist of:

CJUS 501 Theories of Crime and Criminology  
 CJUS 502 Contemporary Criminal Justice  
 CJUS 503 Research Methods in Criminal Justice  
 CJUS 504 Statistics and Data Analysis in Criminal Justice  
 CJUS 505 Policy analysis in Criminal Justice  
 CJUS 506 Ethics in Criminal Justice

**1. The Comprehensive Examination:** The comprehensive examination covers the material from the core course work. The examination is a two-part examination. The first part consists of a written take-home examination. The second part is a follow-up oral defense of the written examination.

**2. The Committee:** The examination committee consists of three faculty members. One of the committee members will be the student’s advisor. The other two will be faculty who teach the core courses. The Graduate Coordinator will formalize the Committee.

**3. Scheduling the Exam:** Students should take the initiative, in conjunction with his/her advisor, to inform the Graduate Coordinator of his/her intention to sit for the exam no later than one semester prior to the semester he/she intends to sit for the exam. Students also need to register for the CJUS 598 Comprehensive Examination course to sit for the exam. The exam is scheduled on the

student's initiative and is normally taken during the final semester of course work. However, the examination should be taken no later than one year following completion of all coursework in the program of study. A student may delay the exam for exceptional circumstances with approval of his/her faculty advisor. Exams are not normally scheduled during the summer unless there are extenuating circumstances.

**4. The Comprehensive Review Course:** Students are eligible to take the CJUS 590 Master’s Project course as an elective. Students receive three credits and it assists them in their preparation for the Comprehensive Exam.

#### CJUS 590: MASTER'S PROJECT - 3 semester hours

This course must be taken by students in the Master of Criminal Justice program who are under Plan B: Non-Thesis Option. This course will prepare students for the Comprehensive Examination.

#### CJUS 598: COMPREHENSIVE EXAMINATION – 0 semester hours

This course must be taken by students in the Master of Criminal Justice program who are under Plan B: Non-Thesis Option. The course must be taken during the semester the student plans to take the comprehensive examination. The course may be repeated consistent with the policy of the Criminal Justice Program.

### COURSE DESCRIPTIONS

#### Core Courses (18 credit hours required of all students)

#### CJUS 501 THEORIES OF CRIME AND CRIMINOLOGY - 3 semester hours

Survey of the contemporary theories of crime and criminality. Study of the biological, psychological, and sociological perspectives on crime and deviance, and assessment of theoretical advances including integration and general theories of crime. Understanding of relations between theories and crime policy.

#### CJUS 502 CONTEMPORARY CRIMINAL JUSTICE - 3 semester hours

This course will examine the evolving nature of the contemporary criminal justice system in the United States. The students will gain knowledge about the evolution of the Bill of Rights, competing interpretations of the constitution, Supreme Court cases, and other laws and institutions unique to the American Criminal Justice System.

#### CJUS 503 RESEARCH METHODS IN CRIMINAL JUSTICE - 3 semester hours

Introduction to research design as applied to problems in crime and criminal justice. Logic, design analysis and ethical principles in criminal justice research. Design and preparation of Master's Thesis proposal.

**CJUS 504 STATISTICS AND DATA ANALYSIS IN CRIMINAL JUSTICE - 3 semester hours**

The study of descriptive and inferential statistics in analyzing criminal justice data from such agencies as the Bureau of Justice Statistics, UCR system of the FBI, National Incident Based Reporting System, and National Archives of Criminal Justice Data. Students will learn to use of SPSS and SAS in relation to data entry and data analysis, and the use and modification of secondary data sets.

**CJUS 505 POLICY ANALYSIS IN CRIMINAL JUSTICE - 3 semester hours**

The course will examine the federalization of crime policy, key actors in crime policy-making, enactment of different crime legislations by federal and state government, and public attitudes towards crime and terrorism. Students will learn how crime policy is made, who make them, and how crime policy-making impacts on crime control and punishment.

**CJUS 506 ETHICS IN CRIMINAL JUSTICE - 3 semester hours**

This course will examine the standards and codes of responsibility in criminal justice professions, such as the Law Enforcement Code of Ethics, ABA Standards of Professional Responsibility, American Jail Association Code of Ethics, and the American Correctional Code of Ethics. The students will also obtain knowledge about different systems of ethical thoughts and morality related to criminal justice.

**CONCENTRATION: CRIMINAL JUSTICE ADMINISTRATION AND MANAGEMENT**

This concentration is designed to serve the needs of both experienced and novice professionals in the expanding field of criminal justice. The course of this concentration will help enhance the skills and knowledge critical for effective management and leadership in criminal justice.

**CONCENTRATION COURSES (12 credit hours)****CJUS 550 SEMINAR IN ORGANIZATION AND ADMINISTRATION-3 semester hours**

This course will provide a comprehensive overview of criminal justice administration and management with an emphasis on organizational theories. Different theories or organization and organizational behavior will be examined and their relevance to the administration of criminal justice agencies will be explored.

**CJUS 551 HUMAN RESOURCE DEVELOPMENT – 3 semester hours**

This course will introduce the theories and principles of human resource management as tools for management in criminal justice agencies. The students will also learn the impact of various federal and state laws on human resource management in criminal justice agencies including hiring

and promotion, reward system, gender equality, issues of cultural diversities, and dispute resolution.

**CJUS 552 RESEARCH METHODS AND PLANNING RESOURCES - 3 semester hours**

This course will examine the different theories of strategic planning as they relate to criminal justice organizations. The students will learn to synthesize research-based knowledge for effective management of criminal justice agencies.

**CJUS 553 COMMUNITY THEORIES AND CRIMINAL JUSTICE - 3 semester hours**

Surveys and analyzes literature on relations between crime and communities. Examines the theories of relations between crime, demography, and ecology, and assess their impact on justice administration. Different models of community crime preventive strategies and their administrative implications are examined.

**CJUS 554 SEMINAR IN LEADERSHIP AND MANAGEMENT - 3 semester hours**

Explores the theories of leadership and their relevance to criminal justice management: The students will learn the art and the principles of strategic leadership and their use in effective and innovative management of criminal justice organizations.

**CJUS 555 LAW AND CRIMINAL JUSTICE MANAGEMENT - 3 semester hours**

Examination of the legal issues commonly facing managers in justice agencies related particularly to personnel management, human resource management, labor laws, and intra-agency dispute resolution. Both state and federal statutory and case laws are examined.

**CJUS 556 COMPUTER AND CRIMINAL JUSTICE MANAGEMENT – 3 semester hours**

The course is designed to teach the applications of computer in matters of storage, processing, and dissemination of criminal justice data and information. The students will gain understanding of contemporary federal and state criminal justice information networks systems and programs.

**CJUS 557 PROGRAM EVALUATION IN CRIMINAL JUSTICE MANAGEMENT - 3 semester hours**

Principles and techniques of program evaluation as they relate to crime and justice programs. Understanding of the different models of program evaluation, and their relative significance in criminal justice management.

**CJUS 558 BUDGETARY ASPECTS OF CRIMINAL JUSTICE MANAGEMENT - 3 semester hours**

Study of criminal justice management from the perspectives of the different models of budgeting. Understanding of state and federal budgetary principles and allocations in justice programs.

**CRIMINAL JUSTICE ELECTIVE COURSES****CJUS 570 ADVANCE DATA ANALYSIS AND USE OF SPSS - 3 semester hours**

Study of the use of statistical data and models in the development and management of criminal justice projects. Will focus on discussing issues in crime analysis and crime mapping.

**CJUS 571 USE OF SECONDARY DATA SOURCES IN CRIMINAL JUSTICE - 3 semester hours**

Application of advanced statistical models and computer methodologies in the use and analysis of secondary data sources from the National Institute of Justice and other federal agencies. Will focus on learning the art of research synthesis using statistical and computer models.

**CJUS 572 JUVENILE JUSTICE SYSTEM -3 semester hours**

Reviews the history and philosophy of the juvenile justice system in America. Study of federal and state statutes and court decisions related to juvenile justice. Also provides comparative overview of juvenile justice practices in major industrialized countries.

**CJUS 574 THEORIES OF JUVENILE DELINQUENCY - 3 semester hours**

Examines the major medical, psychological, and sociological theories of juvenile delinquency and the recent efforts for theoretical integration in juvenile delinquency studies and research.

**CJUS 575 PRISON AND PENOLOGY - 3 semester hours**

Reviews the history of punishment with emphasis on the changing role of penitentiary in the criminal justice system. The goal of punishment, including deterrence, incapacitation, and rehabilitation are discussed and examine.

**CJUS 576 COMMUNITY-ORIENTED POLICING - 3 semester hours**

The nature, philosophy, and the evolution of community policing as a model for law enforcement. Organization, strategies, and the role of community-policing in crime control and prevention strategies.

**CJUS 577 CONSTITUTIONAL LAW AND THE CRIMINAL JUSTICE SYSTEM - 3 semester hours**

Analyzes the role of the U.S. Constitution and the Bill of Rights in shaping the American criminal justice system. Landmark decision of the U.S. Supreme Court related to substantive and procedural criminal justice issues.

**CJUS 579 JUSTICE THEORIES - 3 semester hours**

The nature of different justice theories: retributive justice, therapeutic justice, restorative justice, and community justice. How different justice theories define crime and punishment and interpret the balance between individual liberty and public order.

**CJUS 580 VICTIMOLOGY - 3 semester hours**

Study of the victim's experience with the criminal justice system. Topics in this course will include psychological impacts of crime, the process and impacts of victimization, legal approaches to victims, services provided to victims, restorative justice and emerging understandings of the victim.

**CJUS 591 INDEPENDENT STUDY IN CRIMINAL JUSTICE – 3 semester hours**

This course allows graduate students to pursue a specialized area of research under the supervision of one of the Criminal Justice graduate faculty. Students will meet with their faculty instructor on a mutually agreed upon schedule and will be expected to do a substantial amount of reading, research and writing. This course may not be repeated for credit.

## COLLEGE OF NATURAL AND HEALTH SCIENCES

### BIOLOGY

Graduate study in biology is designed to prepare students for careers in teaching and research in state, federal and private institutions, including at the university level or in private laboratories. Graduate study in Biology leads to the Master of Science (M.S.) degree. Students typically complete the degree requirements in two years of full-time work. However the duration to complete the program may vary based on individual differences in student backgrounds and experience levels. It is recommended that interested students contact the department for more information about research and other departmental activities related to the graduate program. Graduate study is characterized by smaller, more focused classes, closer interactions with qualified faculty, and opportunities for independent research. The low student-faculty ratio in the Department creates a dynamic, supportive atmosphere and allows greater access to the facilities and expertise that will make your education a success.

Students with undergraduate majors in biology and other science areas are encouraged to pursue graduate work in Biology. The Department's Graduate Committee will review your background in Biology, Chemistry, Mathematics, and Physics, and will determine what additional coursework (if any) you may need.

Please contact the department for information about research and other departmental activities related to the graduate program.

#### Admission Requirements

Students must have appropriate GRE test scores as determined by the Graduate Committee. Applicants are encouraged to contact the Department of Biology for information about sufficient scores in different areas. All applicants must have a minimum of thirty-two (32) semester hours of biology. Additionally a minimum of eight semester hours of general chemistry and four semester hours of organic chemistry is required. Six semester hours of mathematics is also required. Applicants who do not possess the necessary requirements may be admitted into the program on a provisional basis. Students will be expected to make up deficiencies identified by the graduate committee.

### Program Requirements

#### Thesis option

The thesis option allows students to increase their knowledge of biology and become involved with graduate-level research in biology with an eye on research careers or preparation for further graduate or professional school work. To complete the program, a minimum of 30 semester hours, including all core courses and the thesis, is required for the M.S. degree. Each student, with a faculty advisor, plans a tentative graduate program early in the first semester. Students are encouraged to begin their independent research in the second semester of their first year. The student's committee should be formed no later than one semester after admission to candidacy and should meet each semester thereafter to monitor the student's progress (in both research and coursework). Every effort is made to plan the graduate program around the needs and interests of the students.

#### Non Thesis option

The non-thesis degree is designed for students who must take additional course work to raise their academic credentials for application to medical, dental, or other professional schools, or are employed full time. Each student enrolled in the non-thesis option must complete a minimum of 36 semester hours, including all required core courses except BIOL 524 Research and Thesis. While these courses include Investigations and Research, in which students complete an independent research project, it should be noted that the research experience is not as extensive as in the thesis option, and therefore limits the marketability of students pursuing this option. In order to complete the degree, students must pass a written and/or oral comprehensive examination.

#### Summary Requirements

##### Core courses (required)

BIOL513 Seminar (1 semester hour) – all students are expected to register for this class each semester for three semesters

BIOL522 Investigations in Biology (3 semester hours) – all students are required to take this class for credit

BIOL524 Research and Thesis (3 semester hours) –students admitted to candidacy must enroll in this course each semester; however, the student can receive credit for this course only once.

BIOL525 Leading a Biology Lab Course (3 semester hours) – all students are required to take this class once

(thesis option) and it may be taken twice for credit (in the non-thesis option).

BIOL542– Advanced Biochemistry (3 semester hours)

Statistics Course 500 level (or above) (3 semester hours) – decided upon with the help of your advisor (e.g. STAT511 Biometry or equivalent)

### Course Descriptions

#### **BIOL 508 BIOLOGY AND HUMAN AFFAIRS - 3 semester hours**

A seminar designed to inquire into the impact and potential of biology and society. Topics discussed might include such things as population control, the biological meaning of race, the ecological crises, biological nuclear and chemical toxicants, control of fertility and aging.

#### **BIOL 510 HUMAN GENETICS - 3 semester hours**

Theory and methods of analyses of genetic traits in individuals, families, and populations. Techniques include pedigree analysis, cytogenetics, tissue culture, and probability determination.

Prerequisite: BIOL 320 Principles of Genetics or permission of the instructor.

#### **BIOL 510 HUMAN GENETICS LABORATORY - 1 semester hour**

A laboratory course designed to be taken in conjunction with BIOL 510 Human Genetics lecture course. This course will involve exercises related to selected lecture topics.

**Corequisite: BIOL 510 Human Genetics lecture**

#### **BIOL 511 TOPICS IN MODERN BIOLOGY - 3 semester hours**

Explores the recent developments in the field of biology on a chemical-physical basis. Includes discussions on the nature of science, evidence and trends in evolution; metabolism photosynthesis, nutrition and respiration; and the biological events in cell division growth, genetics, enzyme activity and the treatment of disease. Lectures, demonstrations, and discussions.

**Prerequisites: Two semesters each of mathematics, biology, and physics; three semesters of chemistry; or permission of the department.**

#### **BIOL 513 SEMINAR - 1 semester hour each registration**

A one hour seminar is held each week. The course will feature presentations by researchers, outside speakers and

second year graduate students. Students in the first year are expected to attend all presentations and to complete other assignments as required. Students in their second year will be expected to make presentations during seminars.

#### **BIOL 514 ENDOCRINOLOGY - 3 semester hours**

The study of hormonal integration of life activity of animals. Along with a survey of glands of internal secretions, consideration is given to the concepts of self-regulation through "servo" or "feed-back" mechanisms. Some consideration is given to the mechanism of hormone action at the molecular level. The neuroendocrine system as a functional entity is discussed. Attention is given to the role of internal secretions in metabolism, in growth and development, and in reproduction.

**Prerequisite: BIOL 417 General Physiology**

#### **BIOL 514 ENDOCRINOLOGY LABORATORY - 1 semester hour**

A laboratory course designed to be taken in conjunction with BIOL 514 Endocrinology lecture course. This course will involve exercises related to selected lecture topics.

**Corequisite: BIOL 514 Endocrinology lecture**

#### **BIOL 515 ADVANCED INVERTEBRATE ZOOLOGY - 3 semester hours**

An intensive study of the classification, morphology, development, physiology and life histories of the invertebrates exclusive of insects.

**Prerequisite: BIOL 313 General Zoology**

#### **BIOL 518 ADVANCED PLANT PHYSIOLOGY - 3 semester hours**

Primarily a reading course designed for advanced undergraduates and graduate students to cover such topics as photosynthesis, plant nutrition and metabolism, and other topics not treated in the plant physiology program.

#### **BIOL 520 CYTOLOGY - 3 semester hours**

A study of cell structures and cytological techniques with emphasis on the morphologic, physiologic, and genetic aspects of modern cytology. Attention is given to the chemical and ultrastructural aspects of cytology. Consideration is given to the instruments employed in studying the sub microscopic structures of the cell.

**Prerequisite: Twelve semester hours of biological science or the permission of the instructor**

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**BIOL 520 CYTOLOGY LABORATORY - 1 semester hour**

A laboratory course designed to be taken in conjunction with the BIOL 520 Cytology lecture course. This course will involve exercises related to selected lecture topics.

**Corequisite:** BIOL 520 Cytology lecture

**BIOL 521 PLANT MORPHOGENESIS - 3 semester hours**

A study of growth in general, the cellular basis of growth, and meristems; the phenomena of morphogenesis correlation, polarity, symmetry, differentiation, regeneration, tissue mixtures, and abnormal growth; morphogenic factors-light, water temperature, various physical factors of mechanical nature; chemical factors, types and influences of growth substances. The laboratory work includes: a study of representatives of the plant kingdom which show various stages of development of tissues and organs; the influence of the environment and chemicals upon the development of various plant structures; isolation of cells, tissue transplant, and tissue cultures.

**Prerequisites:** BIOL 310 Plant Morphology

**BIOL 521 PLANT MORPHOGENESIS LABORATORY – 1 semester hour**

A laboratory course required to be taken in conjunction with the BIOL 521 Plant Morphogenesis lecture course. This course will involve exercises related to selected lecture topics.

**Corequisite:** BIOL 521 Plant Morphogenesis lecture

**BIOL 522 INVESTIGATIONS IN BIOLOGY - 3 semester hours**

The department has facilities to enable qualified students to undertake studies of an investigative nature. Students will undertake supervised research activity in different labs (depending upon availability) that will expose them to varied research questions and methods. Students in the thesis option will use these experiences to aid in the selection of a thesis research project.

**Prerequisite:** Permission of the instructor

**BIOL 524 RESEARCH AND THESIS - 2 to 6 semester hours**

Students conduct research and write theses under the supervision of thesis or research professors.

**Prerequisite:** Admission to candidacy for the master's degree and permission of thesis professor.

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**BIOL 525 LEADING A BIOLOGY LAB COURSE - 4 semester hours**

This course is designed to provide experience leading in a biology lab course. Persons who enroll in Biology 525 will attend the course lectures, observe and participate in an organization and planning session each week and supervise a laboratory course during the semester. This course is available to students in the second year of the program who have completed at least 18 graduate credit hours. All students are required to take this course once (thesis option) and it may be taken twice for credit (non-thesis option).

**BIOL 526 EXPERIMENTAL EMBRYOLOGY - 3 semester hours**

Experimental morphology of growth and development: Fertilization, organ differentiation, and regeneration. The first part of the course will deal with classical experiments and concepts.

**BIOL 526 EXPERIMENTAL EMBRYOLOGY LABORATORY – 1 semester hour**

A laboratory course required to be taken in conjunction with the BIOL 526 Experimental Embryology lecture course. This course will involve exercises related to selected lecture topics.

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**Corequisite:** BIOL 526 Experimental Embryology lecture

**BIOL 533 INTRODUCTION TO NEUROSCIENCE – 3 semester hours**

This course is a general introduction to the field of neuroscience. The course provides a foundation in the basic operating principles of neural tissue. The course moves from a focus on the basic element of nervous systems, the neuron, to studying how simple sensory, motor, and learning capacities arise from the operations of neural networks.

**BIOL 537 ORAL AND/OR WRITTEN COMPREHENSIVE EXAM - 0 semester hours**

A requirement of the non-thesis M.S. option to be taken during the last semester. A candidate for the Master of Science degree must pass satisfactorily an examination arranged by his/her chairperson or committee. The examination may be oral or written or both, and will cover the biology major and minor areas of study.

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**BIOL 542 ADVANCED BIOCHEMISTRY - 3 semester hours**

A study of the principal types of biochemical activities of the microorganisms: (1) respiration, fermentation, photosynthesis and different types of phosphorylation, (2) metabolism of proteins, nucleic acids and general properties and activities of enzymes, and (3) physical and chemical factors affecting biochemical activities.

**Prerequisite:** CHEM305/307 Organic Chemistry I or permission of the instructor.

**BIOL 546 ADVANCED IMMUNOBIOLOGY - 3 semester hours**

An advanced treatment of current theory and its application to various aspects of immunobiology; antibody specificity, antigen antibody reactions, immediate and delayed hypersensitivity, immunological tolerance and autoimmunization are among the topics covered.

**Prerequisite:** BIOL 443 Immunology and Serology, BIOL 443 Immunology and Serology Laboratory and a course in biochemistry or the equivalent.

**BIOL 548 MOLECULAR BIOLOGY - 3 semester hours**

A study of the principles of biological organization and activities on the molecular level. Analysis of the important events in terms of established principles of physics and chemistry. Basics structures and functions of important classes of biological molecules such as proteins, enzymes, RNA and DNA will be emphasized.

**Prerequisites:** One semester of genetics.

**PSYCHOLOGY**

The Department of Psychology offers graduate study leading to both Master's and Doctoral degrees. Students working toward the Master of Science (MS) degree may choose a concentration in either General Psychology or Clinical Psychology. Students working towards the Doctor of Philosophy (PhD) in Health Psychology will focus on Clinical Health Psychology or Behavioral and Community Health Sciences (BCHS).

**Master of Science Degree**

Students who are interested in becoming community college teachers or researchers, or in pursuing further study toward the doctorate are advised to select the concentration in General Psychology. In addition, those who are interested in pursuing doctoral work in School Psychology can take Educational Psychology courses through the

general Psychology concentration. If students' vocational goals include working in therapy or assessment services, they should pursue the Clinical Psychology concentration.

**Admission Requirements**

**\*Students are admitted to the Psychology department during the Fall semester only.**

**\*\*Graduate Record Examination (GRE) scores are required as part of the application packet and prior to receiving an offer of admission.**

**Unconditional Admission.** In addition to the general requirements for admission to the College of Graduate Studies, the Department of Psychology requires:

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a) a minimum of 15 semester hours in Psychology, including at least one course in each of the following: 1) social, personality, cognitive, or developmental Psychology, 2) research methods, quantitative methods, or experimental Psychology, and 3) physiological Psychology. Students desiring admission to the Clinical Psychology concentration must also have an undergraduate course in abnormal psychology;

b) a 3.00 grade point average (on a scale of 4.00 points) in Psychology or major area;

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c) an overall undergraduate grade point average of 2.8 (on a scale of 4.00 points).

d) completed supplemental application (located on the psychology department's website), including a written personal statement.

e) three current letters of recommendation from professors, employers, and/or other professionals qualified to assess the applicant's ability to complete graduate studies. Two letters should be from professors or psychologists.

**Conditional Admission.** Applicants can be granted conditional admission under the general provisions of the College of Graduate Studies whenever the requirements in a), b), and/or c) above are not met, if additional program slots are available. Applicants also must have a minimum grade point average of 2.8 in the undergraduate major, a 3.00 grade point average during last two years of undergraduate course work, and/or a minimum total Graduate Record Examination (GRE) score of 291 (900 on the old scale) in order to be admitted with conditional status in Psychology.

**Change of Status.** In order to achieve unconditional status and advance to candidacy, students must 1) complete all undergraduate prerequisites listed on the Program Card by the major advisor; 2) earn a B average, with no grade below C, in the first 15 graduate-level hours of their planned program of study; and 3) successfully complete of PSYC

528 with a B or better.

### Program Requirements

#### Clinical Psychology Curriculum

##### **Required Courses: (36hrs)**

PSYC 510: Pro-Seminar (3)  
 PSYC 517: Advanced Psychopathology (3)  
 PSYC 508: Psychotherapy I: Theories (3)  
 PSYC 519: Psychotherapy II: Techniques (3)  
 PSYC 520: Psychological Assessment I: Intelligence & Achievement (3)  
 PSYC 521: Psychological Assessment II: Personality (3)  
 PSYC 522: Practicum I: Assessment Lab (3)  
 PSYC 523: Practicum II (3)  
 PSYC 524: Practicum III (3)  
 PSYC 528: Experimental Psychology (3)  
 PSYC 530: Ethics (3)  
 PSYC 599: Research & Thesis (3)

##### **Electives: (9hrs)**

##### Possible Electives:

PSYC 507: Pre-practicum - Multicultural Therapy  
 PSYC 512: Human Growth & Development  
 PSYC 513: Educational Psychology  
 PSYC 518: Psychopathology of Childhood  
 PSYC 527: Personality Theory  
 PSYC 529: Crisis Intervention  
 PSYC 531: Group Therapy  
 PSYC 532: Diagnosis and Treatment of Substance Use Disorders

**Total hrs: 45**

#### General Psychology Curriculum

##### **Required Courses: (27hrs)**

PSYC 510: Pro-Seminar (3)  
 PSYC 514: Social Psychology (3)  
 PSYC 512: Human Growth & Development (3)  
 PSYC 527: Personality Psychology (3)  
 PSYC 528: Experimental Design (3)  
 PSYC 532: Substance Use Disorders (3)  
 PSYC 580: Statistical Methods I (3)  
 PSYC 581: Statistical Methods II (3)  
 PSYC 599: Research & Thesis (3)

**Electives: (3hrs)**

**Total hrs: 30**

**Continuing Status.** Continuing status is dependent upon maintaining a cumulative GPA of at least 3.0, with no more than two grades of C (including grades of U), as well as a favorable review by the departmental graduate faculty committee. For anyone with a grade below C, continuing status is subject to further departmental review. Each

student will be evaluated annually. This evaluation will include academic performance, departmental contribution and professionalism. The student should complete coursework with a grade of "B" or higher. Students are required to show good standing in the program. Thus, in the event of any concern, written documentation will be given to allow adequate time for the student to adjust the behavior in question.

### Doctor of Philosophy

Graduate study in Health Psychology has a strong research focus on behavioral risk factors that impact health, such as stress, at-risk sexual practices, drug use, sedentary lifestyles, smoking, noncompliance with treatment regimens, etc. This program focuses on health service provision disparities in minority communities for diseases such as mental health, cardiovascular disorders, diabetes, and hypertension, as well as effective health promotion education and planning for those communities. The doctoral program in Health Psychology has two specialized areas of study: Clinical Health; and Behavioral and Community Health Sciences (BCHS). The Clinical Health specialization will prepare students to work in applied settings, such as hospitals, physical rehabilitation settings, outpatient clinics, and other health services settings as members of multidisciplinary teams. The BCHS specialization will train students to conduct research and to develop and implement community interventions. Both areas of study will emphasize research and grant-writing, as well as offer opportunities for students to develop teaching skills.

### Admission Requirements

To be considered for admission to the Health Psychology Doctoral Program, a student must:

1. Have a minimum graduate grade point average of 3.00 on a scale of 4.0. Applicants with post-baccalaureate work, including those with Master's degrees, must have a minimum graduate GPA of 3.5.
2. Have a combined minimum GRE verbal and quantitative test score of 297 (1000 on the old scale). The GRE is required for all applicants, including those with a Master's degrees.
3. Complete a supplemental application (located on the psychology department's website).
4. Submit a written personal statement (not to exceed three pages, double spaced) that describes your personal background, academic experience and future goals (professional and educational);
5. Submit official transcripts for all undergraduate and graduate course work;

6. Submit three current letters of recommendation from professors, employers, and other professionals qualified to assess the applicant's ability to complete doctoral studies. At least two letters should be from professors and/or psychologists.

### Program Requirements

Completion of the Ph.D. Health Psychology Clinical Health area of study requires 96 credit hours. This includes 45 credit hours of core courses (including thesis and dissertation credits), 45 credit hours in clinical health psychology (including 12 credits of clinical health practica), and 6 credit hours of electives. Completion of the Ph.D. Health Psychology Behavioral and Community Health Sciences area of study requires 76 credit hours. This includes 45 credit hours of core courses (including thesis and dissertation credits), 31 credit hours in the community health science area (including 4 credits of community health psychology practica).

**Clinical Health Area of Study** – The Clinical Health area of study complements the department's current Master's Program in Clinical Psychology. This area of study focuses on understanding how biological, behavioral, and social factors influence health and illness. Graduates of the program are expected to demonstrate the following competencies:

- Demonstrate understanding in the breadth of psychology, its history of thought and development, its research methods, and its applications according to the *American Psychological Association's* program accreditation requirements. (Students will be exposed to courses in the following areas: biological, cognitive and affective, and social aspects of behavior; history and systems of psychology; psychological measurement; research methodology; and techniques of data analysis.)
- Demonstrate knowledge in clinical and health psychology in the following areas: individual differences in behavior; human development; dysfunctional behavior or psychopathology; and professional standards and ethics.
- Complete psychological assessments to assist in the diagnosis, treatment, and rehabilitation of physical illness and psychological disorders.
- Develop psychotherapeutic interventions to cope with physical and mental illness and to promote healthy lifestyles.

- Identify meaningful research questions in clinical health psychology, design research studies incorporating a biopsychosocial model to address those research questions, and implement research to advance the field of psychology in the area of health and illness.
- Provide clinical services in medical, community, and other health settings.

### Behavioral and Community Health Sciences (BCHS) Area of Study

– The BCHS area of study focuses on research in the areas of health promotion and disease prevention by examining related psychological, social, emotional and behavioral factors in physical and mental health. This area of study includes a strong emphasis on research in social conditions such as cultural influences, family relationships and social support. Areas of interest include health systems and services, health policy and community based research and services. Graduates of the program are expected to demonstrate the following competencies:

- Conduct psychological, behavioral and community research to advance the understanding of behavioral and physiological response to illness, healthy attitudes, beliefs and behaviors related to wellness (in areas such as HIV/AIDS, cardiovascular health, obesity, stress and coping, diabetes, etc.)
- Analyze social/ behavioral and public health theory, concepts and methods to conduct complex health programs
- Develop and implement community-based research and interventions based on community needs
- Build coalitions in a variety of community and academic settings
- Analyze current policy needs and legislative processes as a tool to advancing programs, health interventions, and positive health outcomes
- Develop individual, community and structural collaborative efforts for health interventions at multiple tiers

- Assess community needs, services and considerations for professional health services
- Provide services to local communities, including cost-effectiveness studies, evaluation methods, and other needed assistance and expertise

### Summary Requirements

Those admitted with a master's degree will undergo a credit audit to determine which of their credits will be accepted. All required courses at the 600 level or above will have to be completed at VSU. If an applicant with a master's degree completed a program with a non-thesis option, they will be required to complete a thesis-level project during their first year. The course titles for the Health Psychology curriculum are listed below. A sample course sequence and complete descriptions for all of the courses in the graduate inventory can be found in Appendix A. All courses have been approved by the appropriate VSU curriculum committees.

### HEALTH PSYCHOLOGY CLINICAL AREA OF STUDY SUMMARY

#### Core for both areas of study (48 hrs.)

PSYC530: Ethics and Professional Standards of Practice (3)  
 PSYC533: Introduction to Neuroscience (3)  
 PSYC581: Statistical Methods in Health Psychology I (3)  
 PSYC582: Statistical Methods in Health Psychology II (3)  
 PSYC597: Teaching of Psychology (3)  
 PSYC603: Health Psychology (3)  
 PSYC609: History and Systems (3)  
 PSYC612: Research Methods in Clinical and Health Psychology (3)  
 PSYC701: Health Psychology: Psychotherapy Methods and Interventions (3)  
 PSYC705: Health Education and Behavioral Science (3)  
 PSYC599: Research & Thesis (6)  
 PSYC899: Doctoral Dissertation (12)

#### Clinical Core Requirements (45 hrs.)

PSYC508: Psychotherapy I: Theories of Psychology (3)  
 PSYC517: Advanced Psychopathology (3)  
 PSYC519: Psychotherapy II: Techniques in Psychology (3)  
 PSYC520: Psychological Assessment I: Intelligence and Achievement Testing (3)  
 PSYC522: Psychological Assessment I: Lab (3)  
 PSYC521: Psychological Assessment II: Personality and Projective Testing (3)

PSYC704: Clinical Psychopharmacology (3)  
 PSYC706: Professional Issues in Behavioral Medicine Consultation (3)

#### *Developmental aspects of behavior (3hrs)*

PSYC512: Human Growth and Development (3)

#### *Cognitive aspects of behavior – Choose one (3 hrs)*

PSYC513: Educational Psychology (3)  
 PSYC515: Learning Theory (3)

#### *Social aspects of behavior – Choose one (3 hrs)*

PSYC514: Social Psychology (3)  
 PSYC715: Social and Cultural Aspects of Health and Illness (3)

#### Clinical Practicum (12hrs):

PSYC620: Clinical Practicum I (1)  
 PSYC621: Clinical Practicum II (2)  
 PSYC720: Health Psychology Practicum (3)  
 PSYC721: Advanced Clinical Practicum (3-6)

Pre-doctoral Internship (No credit)

#### Electives (3 hrs.)

Total: 96 hours

### HEALTH PSYCHOLOGY: BEHAVIORAL & COMMUNITY HEALTH SCIENCES AREA OF STUDY SUMMARY

#### Core for both areas of study (48 hrs.)

PSYC530: Ethics and Professional Standards of Practice (3)  
 PSYC533: Introduction to Neuroscience (3)  
 PSYC581: Statistical Methods in Health Psychology I (3)  
 PSYC582: Statistical Methods in Health Psychology II (3)  
 PSY 597 – Teaching of Psychology (3)  
 PSYC603: Health Psychology (3)  
 PSYC609: History and Systems (3)  
 PSYC612: Research Methods in Clinical and Health Psychology (3)  
 PSYC701: Health Psychology: Psychotherapy Methods and Interventions (3)  
 PSYC705: Health Education and Behavioral Science (3)  
 PSYC599: Research & Thesis (6)  
 PSYC899: Doctoral Dissertation (12)

#### BCHS Core Requirements (33)

PSYC512: Human Growth & Development (3)  
 PSYC532: Diagnosis and Treatment of Substance Use Disorders (3)  
 PSYC703: Assessment and Evaluation of Community Health Programs (3)  
 PSYC711: Research Seminars in Health Psychology (3)

PSYC714: Epidemiology of Health Behaviors/Community Epidemiology (3)  
 PSYC715: Social and Cultural Aspects of Health and Illness (3)  
 PSYC720: Health Psychology Practicum (3)

Choose two of the four courses below:

PSYC713: Health Services Administration (3)  
 PSYC517: Advanced Psychopathology (3)  
 PSYC527: Personality (3)  
 PSYC514: Social Psychology (3)

Choose one of the three courses below

PSYC513: Educational Psychology (3)  
 PSYC515: Learning Theory (3)

PSY 711 – Research Seminars in Health Psychology: Topic Specific

Total: 78 hours

### Course Descriptions

#### **PSYC 508 PSYCHOTHERAPY I: THEORIES OF PSYCHOLOGY - 3 semester hours**

An overview of the major theories in psychology. Emphasis on the application of theories to the conceptualization of psychological disorders and practice of therapy.

**Prerequisite:** Admission into the graduate psychology program or permission of instructor

#### **PSYC 510 PRO-SEMINAR - 3 semester hours**

Designed to give students an orientation to graduate study in psychology and to introduce them to the professional problems of the field. Required of all graduate students in psychology.

#### **PSYC 511 ADVANCED GENERAL PSYCHOLOGY - 3 semester hours**

A seminar in general-theoretical psychology designed to assist the student in developing basic psychological concepts and orientations. Students are required to read extensively and to report on research literature with the aim of developing skill in writing reviews of literature in the various areas of psychology.

#### **PSYC 512 HUMAN GROWTH AND DEVELOPMENT - 3 semester hours**

The study of the principles of physical, mental, emotional and social growth of the individual and their implications for the learning process.

#### **PSYC 513 EDUCATIONAL PSYCHOLOGY - 3**

#### **semester hours**

The application of psychological principles to teaching, learning, and classroom management. Review and analysis of research on learning, motivation, and assessment of pupil progress. A unit on test construction is included.

#### **PSYC 514 SOCIAL PSYCHOLOGY - 3 semester hours**

Exploration of group dynamics and interpersonal influence. Mass communication, social attitudes, conformity, obedience, leadership, and normative behavior. Research projects on these and similar topics.

#### **PSYC 515 LEARNING THEORY - 3 semester hours**

A critical analysis of the major theories of learning, and a review of the current literature on learning and memory.

#### **PSYC 517 ADVANCED PSYCHOPATHOLOGY - 3 semester hours**

This course teaches students the scientific and theoretical basis for understanding and treating psychological disorders. The underlying causes and courses of the disorders, as well as various treatment methods, are explored.

**Prerequisite:** Undergraduate Abnormal Psychology  
**Course or permission of the instructor.**

#### **PSYC 518 PSYCHOPATHOLOGY OF CHILDHOOD - 3 semester hours**

A study of deficits, injuries, learning disabilities, developmental difficulties as well as qualities of interpersonal relationships associated with disordered behavior in children.

#### **PSYC 519 PSYCHOTHERAPY II: TECHNIQUES IN PSYCHOTHERAPY - 3 semester hours**

Develop skills in intake interviewing, mental status exams, diagnostic interviewing, and other therapeutic techniques in psychotherapy. Role playing and other exercises are used to facilitate the student's understanding the theories underlying the therapeutic practices.

**Prerequisites:** PSYC 517, Advanced Psychopathology; PSYC 508, Psychotherapy I

#### **PSYC 520 PSYCHOLOGICAL ASSESSMENT I: INTELLIGENCE AND ACHIEVEMENT TESTING - 3 semester hours**

Focuses on supervised intellectual and achievement assessment of children and adults. Relevant literature on the concepts of intelligence and test construction is required reading. Practice in report writing is required.

**Prerequisite:** Admission into the graduate clinical or educational psychology program or permission of instructor

**PSYC 521 PSYCHOLOGICAL ASSESSMENT II:  
PERSONALITY AND PROJECTIVE TESTING  
- 3 semester hours**

A study of the administration, scoring, and interpretation of personality and projective assessment instruments, and the rationale underlying the construction of each.

**Prerequisite:** PSYC 520, Psychological Assessment I

**PSYC 522 PRACTICUM I - 3 semester hours**

Prerequisite: PSYC 517, Advanced Psychopathology; PSYC 520, Psychological Assessment I

**PSYC 523 PRACTICUM II - 3 semester hours**

Prerequisite: PSYC 508, Psychotherapy I; PSYC 522, Practicum I

**PSYC 524 PRACTICUM III - 3 semester hours**

Prerequisite: PSYC 523, Practicum II

**PSYC 525 INTRODUCTION TO COMMUNITY  
CLINICAL PSYCHOLOGY - 3 semester hours**

History and social implications of the de-hospitalization movement. Nature, organization, and delivery of community-based mental health services.

**PSYC 526 MOTIVATION - 3 semester hours**

A study of the dynamics behavior as viewed from various theoretical standpoints. Analysis of such concepts as instinct, need, value, conscious and unconscious motive.

**PSYC 527 PERSONALITY THEORY - 3 semester  
hours**

A critical analysis of the major theories of personality development.

**PSYC 528 EXPERIMENTAL DESIGN AND DATA  
ANALYSIS IN PSYCHOLOGICAL RESEARCH - 3  
semester hours**

A course providing a broad survey of methodologies and special problems in psychological research. The focus on selection and application of techniques and interpretations of results, rather than on computational procedures *per se*. Topics covered include experimental and quasi-experimental design, nonparametric statistics, psychological tests, statistics and selected multivariate methods. The course also allows the student to develop competency in the use of mainframe and microcomputer statistical packages.

**Prerequisite:** The equivalent of one course in undergraduate statistics.

**PSYC 529 CRISIS INTERVENTION STRATEGIES -  
3 semester hours**

A course designed to primarily give students an opportunity to learn how to select and utilize psychological knowledge for the determination of appropriate strategies for crisis intervention situations. Students are expected to demonstrate the strategies learned. The course is supplemented by field work in selected agencies.

**Prerequisite:** Admission into the graduate psychology program or permission of instructor

**PSYC 530 ETHICS AND PROFESSIONAL  
STANDARDS OF PRACTICE - 3 semester hours**

Seminar reviews ethical principles and practice issues relevant to psychology. Prerequisite: Admission into the graduate psychology program or permission of instructor

**PSYC 531 INTRODUCTION TO GROUP THERAPY  
- 3 semester hours**

A review of basic group psychotherapy.

**Prerequisite:** Admission into the graduate psychology program or permission of instructor

**PSYC 532 DIAGNOSIS AND TREATMENT OF  
SUBSTANCE USE DISORDERS - 3 semester hours**

Basic diagnostic and treatment practices for treating persons with substance abuse disorders. A review of the major categories of psychoactive drugs, as well as the medical, psychological and social impact of each substance use. **Prerequisite:** Admission into the graduate psychology program or permission of instructor

**PSYC 533 INTRODUCTION TO NEUROSCIENCE - 3  
semester hours**

An introduction to the research methodology of neuroscience, and an investigation of the neural basis of sensation, cognition, learning, and psychological disorders.

**PSYC 581 STATISTICAL METHODS IN HEALTH  
PSYCHOLOGY I - 3 semester hours**

Quantitative methods for graduate students in psychology. Collection, storage, retrieval, analysis and interpretation of health data. Design and analysis of health related surveys and experiments. Emphasizes inferential techniques and focuses on the application of these methods to health psychology research. Students learn to manipulate data using statistical software.

**PSYC 582 STATISTICAL METHODS IN HEALTH  
PSYCHOLOGY II - 3 semester hours**

An introduction to multivariate tests, such as MANOVA, structural equation modeling, and multiple regression.

**PSYC 599 RESEARCH AND THESIS - 3 to 6 semester  
hours**

Prerequisites for all 600+ level courses: Admission into the doctoral psychology program or permission of instructor.

**PSYC 603 HEALTH PSYCHOLOGY - 3 semester hours**

An introduction to health psychology that provides a general overview of the discipline of health psychology, including its origins, concepts and methods. A number of types of intervention efforts will be explored, including risk factor modification, secondary preventive/rehabilitative efforts for chronic illness and community/ public health interventions. Some of the major areas and topics in health psychology are explored. Students will acquire skills and knowledge that should enhance their critical thinking and their understanding of the relationship of cognition, emotion, motivation, and behavior on health.

**PSYC 609 HISTORY AND SYSTEMS - 3 semester hours**

Covers the history and various systematic theories of psychology. Explores the conceptual foundations of psychology from its inception to the present day.

**PSYC 612 RESEARCH METHODS IN CLINICAL AND HEALTH PSYCHOLOGY - 3 semester hours**

Analysis of the role of research in clinical and health psychology and experimental design issues in psychotherapy research. Students are expected to be familiar with research methodology designs and ethics in psychological research. Prepare individual research proposals for critical evaluation.

**Prerequisites:** PSYC581 - Statistical Methods I; PSYC582 – Statistical Methods II

**PSYC 620 CLINICAL PRACTICUM I - 1 semester hours**

This course is the first doctoral level practicum. It prepares students for the first external practicum placement in the Counseling Center and subsequent community practica as well as introduces them to the practical side of Clinical Health Psychology.

**PSYC 621 CLINICAL PRACTICUM II - 2 semester hours**

Students will develop skills in individual psychotherapy with children and/or adults clients/patients.

**PSYC 701 HEALTH PSYCHOLOGY: METHODS AND INTERVENTIONS - 3 semester hours**

An introduction to health psychology that provides a general overview of the discipline of health psychology, including its origins, concepts, and methods. A number of types of intervention efforts will be examined, including risk factor modification, secondary preventive/rehabilitative efforts for chronic illness, and community/ public health interventions. Major areas and topics in health psychology will be explored.

**PSYC 702 NEUROPSYCHOLOGICAL ASSESSMENT - 3 semester hours**

This course covers the theory and practical use of major neuropsychological assessment devices. Students are taught to administer and interpret major neuropsychological tests and batteries. The focus of the course is on practical knowledge, report writing and neuropsychological clinical practice.

**PSYC 703 ASSESSMENT AND EVALUATION OF COMMUNITY HEALTH PROGRAMS - 3 semester hours**

The student will focus on community needs assessment and evaluating changes in community services, programs, and community status. Establishes a scope of evaluation efforts and methods for designing and conducting program evaluation and research in community settings. Analyzes parameters of effective consultative relationships. The use of community and behavioral analysis as a basis for establishing objectives, determining appropriate methods for interventions, carrying out planned programs and evaluating behavioral change outcomes.

**PSYC 704 CLINICAL PSYCHOPHARMACOLOGY - 3 semester hours**

This course covers the general principles underlying the use of drugs to treat the major classes of mental illness. This will include antipsychotics (conventional and atypical), antidepressants, anxiolytics, mood stabilizers, and other psychotropic medications. Mechanism of action, drug interactions, and pertinent aspects of differential diagnosis will be discussed. Psychiatric aspects of general medical conditions will be presented.

**PSYC 705 HEALTH EDUCATION AND BEHAVIORAL SCIENCE - 3 semester hours**

An introduction to the underlying principles and theories of health education and behavior change for public health.

**PSYC 706 PROFESSIONAL ISSUES IN BEHAVIORAL MEDICINE CONSULTATION - 3 semester hours**

The objective of this course is to focus on issues facing clinical health providers and other health consultants in traditional and non-traditional health care settings. Themes focus on malpractice risks related to health services, including managed health care; privacy, consent and access to hospital records; quality assurance, quality control and mechanisms of review; interdisciplinary relationships, hospital privileges, multiple codes of ethics/legal constraints and hierarchical levels of professional responsibility for medical regimens; consultation services with diverse and under-served populations; and anticipating future directions in behavioral health and illness.

**PSYC 711 RESEARCH SEMINARS IN HEALTH PSYCHOLOGY – SEMINAR - 3 semester hours**

Lecture series - The student will interact with professionals in the field and discuss relevant topics in health psychology. Each guest speaker will discuss the impact of

behavior and the influence of health and disease in relation to their topic area. Emphasis will be placed on analyzing current research and programs in health psychology and communicating effectively with health professionals.

**PSYC 713 HEALTH SERVICES ADMINISTRATION  
- 3 semester hours**

This course focuses on planning, organization, administration, management and policy analysis of health care systems and health programs. Long range strategic planning, reporting program performance, promoting programs, reviewing policy and recognizing appropriate laws and regulations relating to public health. Emphasis on management tasks and styles, decision making and building effective coalitions and teams.

**PSYC 714 EPIDEMIOLOGY OF HEALTH  
BEHAVIORS/ COMMUNITY EPIDEMIOLOGY - 3  
semester hours.**

Distribution and determinants of disease, disabilities and death in human populations; the characteristics and dynamics of human populations, and the natural history of disease and the biologic basis of health. **Prerequisite:** PSYC 603 - Health Psychology

**PSYC 715 SOCIAL AND CULTURAL ASPECTS OF  
HEALTH AND ILLNESS - 3 semester hours**

Investigate physical, social, emotional and intellectual factors influencing health behaviors. Identify major responsibilities of the health educator in the practice of health education. Assessment of psychosocial, cultural and situational factors in the voluntary behavior change process. Analysis of communication pathways, influence and power, social norms and social marketing, coordinating provisions of health education services, and roles of institutions in relation to learning and the behavior change process. Special attention will be given to addressing cultural competence in healthcare settings.

**PSYC 720 HEALTH PSYCHOLOGY PRACTICUM -  
3 semester hours**

Practicum training is designed to provide students with a practical application of their skills and training. Supervised experiences ranges from assessment, consultation, and intervention in a health care setting to applied community based participatory experience in a variety of settings

**PSYC 721 ADVANCED CLINICAL PRACTICUM - 3-  
6 semester hours**

Students choose specialized training experiences from a variety of community settings. This practicum can be taken more than once.

## **MASTER OF INTERDISCIPLINARY STUDIES**

The Master of Interdisciplinary Studies (MIS) program is designed for students who prefer to pursue a clearly defined disciplinary program of study rather than the professional or traditional graduate program. Instead of concentrating in just one field of study, the student can combine three or more disciplines selected from the College of Education, the College of Humanities and Social Sciences, the College of Engineering and Technology, the College of Natural and Health Sciences, and the College of Agriculture. Candidates for the MIS degree must complete a 39-hour curriculum.

Before entering the MIS program, students must identify three or more disciplines in which they wish to pursue graduate study. Once accepted into the program, each student will be assigned an advisor who will help the student plan the kind of curriculum needed to officially satisfy the program requirements. The number of graduate courses to be completed within each chosen discipline is determined by the department, the student's advisor, and the student. After all course work is completed the student must complete three (3) semester hours of a master's project or thesis.

### **ADMISSIONS REQUIREMENTS**

1. Must have earned a bachelor's degree from an accredited college/university.
2. Submit completed application, application fee, and official copies of undergraduate transcript(s) (and transcripts from college/university for any transfer credit used toward the bachelor's degree).
3. Grade point average of 2.6 on a 4.0 scale.
4. Have recent GRE scores sent the College of Graduate Studies. The GRE must be taken before admission.
5. Submit completed MIS application to:  
Office of Admission  
P.O. Box 9080  
Virginia State University, VA 23806

- ABRAHAM, Arthur ..... Professor, History  
B.A., (Hons.), University of Durham U.K.; M.A., University of Sierra Leone; Ph.D., University of Birmingham,  
U.K.
- ADEYEMI, Cheryl M. .... Associate Professor, Mathematics  
B.S., M.A., The Ohio State University; M.S., Ph.D., Illinois State University.
- AGRAWAL, Krishan Murari ..... Professor, Mathematics  
B.S., M.S.A., College of Mathura; M.Se., Agra University; M.Se., Ph.D., University of Windsor.
- ALKEBULAN, Paul ..... Associate Professor, History  
B.A., University of California, Berkley, M.A., California State University, Hayward; Ph.D. University of  
California, Berkley.
- BAWUAH, Kwadwo ..... Professor, Economics  
B.A., Bethany College; MBA, Eastern Illinois University; Ph.D., Virginia Polytechnic Institute and State University.
- BEAVERS, Michelle M. .... Assistant Professor, Educational Administration and Supervision  
B.S., M.Ed., Ph.D., Virginia Commonwealth University.
- BERNARD, Kenneth J. .... Professor, Mathematics  
B.S. Niagara University, M.A., Ed.D., University of Rochester.
- BEY, Leon W. .... Professor, Health, Physical Education and Recreation  
B.S., Virginia State University; M.S., Ph.D., University of Nebraska-Lincoln.
- BLOUET, Olwyn ..... Professor, History  
B.A., University of Sheffield; M.A., Ph.D., University of Nebraska-Lincoln.
- BLUE, Bennis M. .... Assistant Professor, English.  
B.S., Virginia State University; M.A., North Carolina Central University; Ph.D., The Ohio State University.
- BOYD-STARKE, Kimberly ..... Assistant Professor, Educational Administration and Supervision.  
B.A., Spelman; M.A., GA School of Professional PSYCology; M.S., Ph.D., Virginia Commonwealth University.
- BROOKS-BUCK, Judith ..... Associate Professor, Educational Administration and Supervision  
B.A., Bennett College; M.Ed., Ph.D., University of Virginia.
- BROWN, Larry C. .... Professor, Biology  
B.A., Olivet Nazarene University; M.S., Ed.D., Ball State University.
- BROWN-COBB, Renia E. .... Associate Professor, Psychology  
B.S., Virginia Commonwealth University; M.Ed., Ph.D., James Madison University.
- CHEN, Hui ..... Associate Professor, Computer Science  
B.E., China University of Mining and Technology; M.S., University of Science and Technology of China; M.S.,  
Ph.D., University of Memphis; Ph.D., Chinese Academy of Science.
- CHEN, Wei-Bang ..... Assistant Professor, Computer Science  
B.S., National Yang-Ming University; M.S., National Yang-Ming University; M.S., University of Alabama at  
Birmingham; Ph.D., University of Alabama at Birmingham.
- CHEW, Richard ..... Assistant Professor, History  
B.A., Bucknell University; M.A., Ph.D., College of William and Mary.
- CHRISTIAN, SILAS H. .... Assistant Professor, Educational Administration and Supervision  
B.A., M.Ed., Tuskegee University; Ph.D., University of Missouri
- CLARK, Vernessa ..... Associate Professor, Psychology  
B.S., Virginia State University, M.S., Ph.D., Howard University.

- CONWAY, Ismail ..... Associate Professor, Educational Administration and Supervision.  
B.A., Hampton University; M.A., The New School for Social Research; Ph.D., University of Virginia.
- CRAWFORD, Donna ..... Associate Professor, English  
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- D'ORGEIX, Stephen C. .... Associate Professor, Biology  
B.S., University of Phoenix; Ph.D., University of California-Davis.
- DAMEVSKI, Kostadin ..... Associate Professor, Computer Science  
B.S., University of Central Oklahoma; M.S., Ph.D., University of Utah.
- DERBY, C. Nana ..... Assistant Professor, Criminal Justice  
Diploma in Education, University of Cape Coast, Ghana; M.A., Ph.D., Florida International University.
- DIMKPAH, Young O. .... Associate Professor, Economics  
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- ESEONU, Maxwell O. .... Professor, Economics  
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B.S., Ph.D., University of Virginia.
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- FLETCHER, Raymond, III ..... Professor, Mathematics.  
B.A., University of Maine at Orono; M.A., M.S., SUNY at New Paltz; Ph.D., Emory University.
- GILLIAM, Conrad M. .... Professor, Career and Technical Studies  
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- GOODWYN, Deborah ..... Associate Professor, English.  
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- GREENBERG, Byron ..... Assistant Professor, Psychology.  
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- HARRIS, Glenn C. .... Associate Professor, Biology.  
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- HARRIS, Toni ..... Assistant Professor, PSYCOlogy.  
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- HAILE, Dawit ..... Professor, Mathematics and Computer Science  
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- HILL, Oliver W., Jr. .... Professor, PSYCOlogy  
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- HODGSON, James ..... Associate Professor, Criminal Justice  
B.A., M.A., Ph.D., York University.

- HOGAN, Wesley C. .... Assistant Professor, History  
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- HOLMES, John R. .... Associate Professor, English  
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- HOPKINS, Reginald ..... Associate Professor, PSYCology  
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- HOSSAIN, Mokerrom..... Professor, Criminal Justice  
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- HUNTER, James E. .... Professor, Educational Leadership  
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- HWANG, Jae-Kwang..... Assistant Professor, Economics  
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- JAGANNADHAM, Gallakora ..... Associate Professor, Geology  
B.S., M. Tech., University of Sagar, India; M.S., Ph.D., University of North Carolina.
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- KANU, Andrew J. .... Associate Professor, Health, Physical Education, and Recreation  
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- KROHN, M. David ..... Professor, Career and Technical Studies  
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- MALCAN, Jay ..... Associate Professor, Criminal Justice  
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- MAXWELL, Delois ..... Associate Professor, Educational Administration and Supervision  
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- NEWBY, Earl F. .... Assistant Professor, Educational Leadership  
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- NORMAN, James S. .... Associate Professor, Educational Administration and Supervision  
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- NWOKE, Ben U., CMfgE..... Professor, Career and Technical Studies  
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- PHILIPSEN, Dirk ..... Associate Professor, History  
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- PROENZA-COLES, Christina ..... Assistant Professor, History  
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 B.S., Gorakhpur University, India; M.S. Indian Institute of Technology, Kanpur, India; M.S., Ph.D., Indian Institute  
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- REESE, Serena ..... Associate Professor, Health, Physical Education and Recreation  
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