GRADUATE PROGRAMS OFFERED

Master of Arts

Economics
English
History
Psychology
Spanish

Master of Arts in Teaching
History

Master of Science

Biology
Mathematics

Master of Education

Elementary Education
Guidance and Counseling
Reading
School Administration
School Supervision
Secondary Education

Master of Business Administration
George Mason University is an Equal Employment Opportunity and Affirmative Action institution. The University is committed to the principle that access to study or employment at the University and all benefits, privileges, and opportunities afforded by the University should be accorded each person—student, faculty member, or staff member—according to individual merit and regardless of race, color, religion, sex, or national origin. Furthermore, the University is pledged to the promotion of this principle in every phase of the University's operations and to the use of procedures necessary to insure adherence to this principle.

George Mason University is accredited by the Southern Association of Colleges and Schools as a university approved to offer graduate programs at the master's level.

The information contained herein and any other information conveyed to students or to prospective students is subject to change at any time by the appropriate University official.
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GRADUATE ACADEMIC CALENDAR 1974-75

First Semester

Monday, August 19............ Tuition and fees due for prebilled students
Tuesday, August 27............ Advising and registration for degree students only (registration 4:30-7:30 p.m.)
Wednesday, August 28........ Advising and registration for any graduate student (registration 4:30-7:30 p.m.)
Thursday, August 29.......... Advising and registration for all students not yet registered (9:30 a.m.-3:30 p.m.)
Friday, August 30 through
Monday, September 2..... Labor Day recess
Tuesday, September 3....... First day of classes
Tuesday, September 17..... Last day for adding new courses
Friday, September 27........ Last day for filing winter degree applications in Office of the Registrar
Monday, October 14.......... Last day for dropping a course without incurring a grade of F
Friday, November 8......... Patriots' Day
Monday, November 25....... Spring semester Schedule of Classes and preregistration/registration calendar published

Thursday, November 28
   through Sunday,
   December 1............... Thanksgiving recess
Monday, December 2       Advising and preregistration for spring semester (degree students only: see preregistration calendar in Schedule of Classes)
   through Friday,
   December 6............... Winter masters' theses due in Office of the Graduate Dean
Friday, December 6......... Last day of classes
Thursday, December 12.....
Monday, December 16
   through Saturday,
   December 21.............. Examinations
Sunday, December 22
   through Tuesday,
   January 14............... Christmas recess
Second Semester

Thursday, January 9...........Tuition and fees due for prebilled students

Wednesday, January 15      Advising and registration (for time and
    and Thursday. priorities, see registration calendar in
       January 16.................(Schedule of Classes)

Friday, January 17...........Winter commencement

Monday, January 20...........First day of classes

Friday, January 31..........Last day for adding new courses

Friday, February 7..........Last day for filing spring degree applications in Office of the Registrar

Friday, February 28.........Last day for dropping a course without incurring a grade of F

Saturday, March 22
   through Sunday,

March 30......................Spring recess

Tuesday, April 15............Recommended filing date for financial aid applications for summer 1975

Friday, April 18.............George Mason Day

Monday, April 21............Fall semester Schedule of Classes and preregistration/registration calendar published

Friday, April 25............Spring masters' theses due in Office of the Graduate Dean

Friday, April 25.............Last day for filing summer degree applications in Office of the Registrar

Monday, April 28
   through Friday,
   May 2......................Advising and preregistration for fall semester (degree students only: see preregistration calendar in Schedule of Classes)

Thursday, May 1.............Recommended filing date for financial aid applications for 1975-76 session

Thursday, May 8.............Last day of classes

Monday, May 12 through
   Saturday, May 17........., Examinations

Thursday, May 22..........Spring commencement
**Summer Session 1975**

*Wednesday, May 28 and
Thursday, May 29........ Registration for first term

*Monday, June 2 through First term, except graduate Education
   Wednesday, July 2 courses

*Monday, June 16 through First term, graduate Education courses
   Thursday, July 17........ only

*Monday, July 7............. Registration for second term

*Tuesday, July 8 through Second term, except graduate Education
   Wednesday, August 6... courses

*Friday, July 11............. Summer masters’ theses due in Office of
   the Graduate Dean

*Monday, July 21 through Second term, graduate Education courses
   Wednesday, August 13... only

*Saturday, August 9........ Summer commencement

*These dates are tentative; details and final dates for the Summer Session are
  published in the Summer Session catalog which will be available on February 15, 1975.

| 1974 |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |
| 31 |  |  |  |  |

| 1975 |
|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |
| 31 |  |  |  |  |
HISTORY OF THE UNIVERSITY

George Mason University is the outgrowth of an extension center for higher education established in Northern Virginia in 1948 by the University of Virginia. In 1956 the Board of Visitors of the University of Virginia authorized the establishment of a co-educational two-year branch college to supplement extension offerings in Northern Virginia. This branch opened in September, 1957, in temporary quarters at Bailey's Crossroads. It had 17 students and was called The University College.

The City of Fairfax purchased 150 acres for a permanent branch campus and donated it to the University of Virginia in 1959. Early the following year, the branch was named for the Virginia statesman, George Mason, and was given the status of a community college.

In March, 1966, the General Assembly authorized the expansion of George Mason University into a four-year degree-granting institution and gave it the long-range mandate to expand into a university of major proportions. Consequently, the first senior class received degrees in June, 1968. Graduate programs began in September, 1970, and the first graduate degrees were conferred in June, 1971.

In an attempt to meet the state's long-range mandate, the George Mason College Board of Control, supported by the citizens of Alexandria, Falls Church, Arlington and Fairfax County, worked to acquire 422 additional acres. Thus by July, 1970, the size of the campus had reached 572 acres. In January, 1972, the George Mason College Foundation, Inc. acquired the former Fairfax High School on Route 50 in Fairfax County and this facility is now known as the North Campus.

The Rector and Visitors of the University of Virginia recommended to the Governor of the Commonwealth of Virginia that George Mason College be separated from its parent institution in February, 1972. The enabling legislation was passed by the General Assembly, signed by the Governor, and on March 1, 1972, the former branch of the University of Virginia became an independent institution under the name of George Mason University.

ABOUT THE UNIVERSITY

George Mason University, the state-supported regional university for Northern Virginia, offers a wide range of undergraduate and graduate degree programs at two convenient locations. The University's Main Campus is located just south of the City of Fairfax at Route 123 and University Drive. The North Campus is located on U.S. Routes 50, 29 and 211 within the City. Both campuses are 16 miles from downtown Washington, D.C.
George Mason University serves commuting students from all parts of Northern Virginia and is easily accessible for Washington and suburban Maryland students as well. The City of Fairfax provides George Mason with the college-town atmosphere traditional to Virginia's institutions of higher learning.
Since 1964, when George Mason opened its first four academic buildings on the Main Campus, expansion has been rapid. Today, the University serves more than 5,000 day and evening students through its College of Arts and Sciences, its College of Professional Studies, and its Graduate School. Summer sessions provide courses for more than 2,400 students.

Although George Mason is Northern Virginia's regional university, it serves commuting students from all parts of the Washington area. More than one-third of the student body is over 25 years of age, and more than 80 percent of the University's students are employed on either a part-time or full-time basis.

In the development of George Mason's 576-acre Main Campus, careful attention has been paid to the preservation of as much of the natural beauty of the area as possible—particularly the many wooded areas. Parking is located on the perimeters of the campus, and buildings are surrounded by groves of trees and park-like recreational areas.

Several new buildings, including a major academic building, an addition to the University Union, and a five-story addition to the Charles Rogers Fenwick Library, are under construction. The academic building, when completed in September 1975, will house the College of Professional Studies. The library addition is the first of six such modules tentatively scheduled to be built at two-year intervals. The newly completed University Union, a physical education building, library, lecture hall, and several modern classroom buildings are situated on the Main Campus.

The College of Arts and Sciences is located on the Main Campus, and the College of Professional Studies is temporarily situated on the University's 16-acre North Campus. The former Fairfax High School serves as the University's North Campus.

Planning is currently under way for the construction of the second phase of the new academic building, the second addition to the library, an administrative center, and a science research building.

Counseling, financial aid, job placement, career planning, and health insurance are among the services available to students. Although the University provides no on-campus housing, its Office of Career Planning, Placement, and Financial Aid can assist students in finding suitable housing in the vicinity.

Campus clubs, student publications, student government, and intramural and intercollegiate athletics offer students a variety of activities from which to choose.

University library services are provided on both campuses. An open stack arrangement encourages direct access to the collections, which number 100,000 volumes and 150,000 microform units. Approximately 1800 current periodicals are received. The library is a selective depository for United States Government publications. Services available to students and faculty at both campus locations include inter-library loan for needed items the library does not own.
Students who study at the University also have the research and cultural resources of Metropolitan Washington at their disposal. Many specialized libraries and the collections of the National Archives, the Library of Congress and the Smithsonian Institution are easily accessible.

**STUDENT SERVICES**

**Living Accommodations.** The Placement Office located in the University Union, provides assistance in locating suitable housing in the vicinity of the University for students living away from home. The University provides no housing facilities of its own at present.

**Insurance.** George Mason University has no provisions for rendering health services to students. It is the individual student’s responsibility to arrange for needed health services. A combined hospitalization and accident policy is available to students at George Mason University. This policy provides 24 hour coverage including vacation periods. Applications and brochures are available in the Office of the Dean of Students.

**Career Planning and Placement.** The Office of Career Planning, Placement and Financial Aid assists students in developing career plans and obtaining full time employment upon leaving the University. The major services offered by the office include (1) job referrals; (2) individual and group counseling on vocational decision-making and job hunting skills; (3) an extensive occupational and graduate school library; (4) employer recruitment program; (5) special career seminars, job fairs; (6) permanent credential files which can be made available to prospective employers.

These services are also available to alumni on a continuing basis.

Part-time and summer employment information is made available to students through listings posted on a bulletin board in the University Union by the Placement Office. Referrals are made after consultation with a placement interviewer. Effort is made to assist students in obtaining employment that will provide experience in the students’ study areas.

**Counseling.** The University Counseling and Psychological Services Center provides specialized psychological services in educational-vocational testing and counseling, and in personal adjustment counseling. These services aid the student in exploring his interests, personality, and achievement level and assist him in making the most of his opportunities for academic and personal development while in college. The Center is staffed by professionally trained psychologists and counselors. There is no charge for Center services. Appointments are recommended.
Honor System. Until 1972 George Mason University was part of the University of Virginia. As such, the Honor System takes its beginnings back to 1842. As originally formulated in 1842, the Honor System at the University applied only to final written examinations. Through its more than a century of continuous use, the pledge has been extended to all academic work submitted for credit, statements made to the faculty, and other declarations of good faith or intent. Considered reprehensible under the System are lying, cheating, plagiarism, and stealing.

George Mason University established its Honor System on May 14, 1962. It is recognized and approved as an integral part of the University. The essence of the Code is that a student’s word, as a member of the University, can be accepted in academic matters without question as truth and that any violation of a student’s word is an offense against the Honor Code.

All students and faculty in the university have the duty as participating members of this community to report to a member of the Honor Committee any alleged violations of the Honor Code. This duty is of importance not only because it enforces the Honor Code, but also because it gives each student the opportunity to express his respect for personal integrity and an honest academic community.

The Honor Code is independent of the Student Government and the University administration. The Honor Code is directly responsible to the student body and will not be influenced by any one segment of the University.

The Honor Committee is a group of students elected from the student body whose primary and indispensable duty is to instill the concepts and spirit of the Honor Code within the student body. The secondary function of this group is to sit as a hearing committee on all alleged violations of the code.

Entering students participate in an orientation given by the Honor Committee. A statement of willingness to conform to and uphold the Honor System is included in the application form for admission to George Mason University.

Campus Ministry Association. The Campus Ministry Association is an ecumenical group of clergy and concerned laymen of Judaico-Christian orientation whose objective is to provide opportunities for service as well as religious, educational and social activities for the University community. It is sponsored presently by the Christian (Disciples), Christian Science, Episcopal, Lutheran, Presbyterian, Roman Catholic and United Methodist Churches. Others are cordially invited to participate. The Association draws on the resources of United Ministries to Higher Education and the Council of Churches of Greater Washington.

Chaplains are on campus daily for discussion and counseling with all members of the University community. A counseling and seminar room is available in the University Union.
STUDENT REGULATIONS

Conduct. George Mason University is a community of scholars in which the ideals of freedom of inquiry, freedom of thought, freedom of expression, and freedom of the individual are sustained. It is committed to preserving the exercise of any right guaranteed to individuals by the Constitution. However, the exercise and preservation of these freedoms and rights require a respect for the rights of all in the community to enjoy them to the same extent. Actions which deprive others of the community to be heard, involve takeovers of buildings that materially and substantially disrupt the educational process, incarceration of or assaults on persons, destruction of property and rifling of files, are incompatible with the nature and function of educational institutions. A student enrolling in the University assumes an obligation to conduct himself in a manner compatible with the University’s function as an educational institution. To fulfill its functions of imparting and gaining knowledge, the Code of Virginia (Section 23-9:2) confers upon the University the responsibility for maintaining order within the University and the right to exclude those who are disruptive of the educational process. Further amplification of the Standards of Conduct can be found in the Student Information Handbook.

Motor Vehicles. The privilege of operating and parking a motor driven vehicle at George Mason University is extended to all students, subject to the following procedures:

Vehicles must be registered with the Department of Security. At time of registration the student must certify that (a) the vehicle has a valid state registration and valid insurance from a recognized insurance company evidencing coverage for public liability in conformance with the laws of the Commonwealth of Virginia; (b) the student has a valid state driver’s license, and (c) the student understands that he or she will be governed by University Motor Vehicle and Traffic Rules and Regulations, a copy of which will be furnished at time of registration of vehicle. A fee of $1.00 will be charged for the first vehicle registered by the student. After the initial vehicle registration, the student may register two additional (family) vehicles without charge. Every registered vehicle shall display in full view the University’s vehicular registration decal, which shall be affixed immediately upon issuance to the left half of the rear bumper. The decal is valid for the period September 1-August 31 of the specified year.

Firearms. The unauthorized possession, storage, display, or use by students of any kind of ammunition, firearms, fireworks, explosives, air rifles, air pistols or other lethal instruments is prohibited on University property. Any questions regarding this regulation should be directed to the Department of Security.
Solicitors and Salesmen. Solicitors and salesmen, except on official business with the University, are not permitted on the campus without permission of the Business Office.

Non-Academic Events and Publications. Organizations or groups of students wishing to use University facilities for non-academic matters must obtain approval of the Dean of Students. Each request must indicate the name of the organization, the type of event for which the facility is intended and be registered in advance with the Office of the Dean of Students.

George Mason University students may publish and/ or disseminate publications on campus which are not funded by the Publication Board, if they are not in violation of State or local ordinances. Students should exercise this option responsibly. The University assumes no responsibility for the contents of the material published and/ or disseminated. Distribution of publications on campus does not signify that the University necessarily approves or supports the contents of the publications.

Change of Status and Address. Each student is required to notify the Office of the Registrar of any change of home address, telephone number, change of the name or address of parent or guardian, or change of legal name. When a student’s legal name is changed, the Office of the Registrar reserves the right to require a certified copy of documents authorizing the change. Such documents will be kept in the student’s permanent file.
Admission

Admission Categories
Application Procedures
Application Dates
Admission Requirements
Transfer of Credit
Re-Admission

http://catalog.gmu.edu
ADMISSION CATEGORIES

If an applicant is admitted to the Graduate School, he will be given degree, provisional, non-degree, or guest matriculant status.

A degree student is one who has met all University and department entrance requirements and is pursuing, full-time or part-time, a master's degree at George Mason University.

A provisional student is one who has been offered temporary, provisional status while attempting to meet entrance requirements. Applicants may request provisional status for any of several reasons such as a deficiency in entrance requirements, including lack of required documents, or because their academic work is not current. The provisional student may complete no more than three graduate courses in that status; on completing three graduate courses, the provisional student will be evaluated by his department and the Graduate Dean. He may then be accepted as a degree student if he presents a satisfactory score on either the Graduate Record Examination or the Admission Test for Graduate Study in Business, as appropriate, or if he has earned an average of 3.25 or better in his graduate study. The provisional status of a student who has not demonstrated acceptable academic ability will be terminated. Graduate credits earned in this status may normally be applied toward a graduate degree, with the approval of the department concerned and the Graduate Dean. Provisional status is offered on the recommendation of the department concerned, with approval of the Graduate Dean.

A non-degree student is one who has been admitted to pursue graduate study but not a master's degree. A non-degree student may later apply for degree student status by petitioning his department, which will make its recommendation to the Graduate Dean. To be considered for degree status, the non-degree student must present either a satisfactory score on the Graduate Record Examination or the Admission Test for Graduate Study in Business, as appropriate, or present a grade point average of 3.25 or more on at least nine hours of graduate work. If the student later decides to work toward a degree, he cannot be assured that courses taken as a non-degree student will be counted toward the degree. Therefore, most graduate students are encouraged to apply for admission to a degree program. A maximum of 12 graduate credit hours earned while a non-degree student may be applied toward a degree, if approved by the student's department and the Graduate Dean.

A guest matriculant is a visiting student from another institution who has been approved to enroll for one semester at George Mason University. A guest matriculant must have been officially admitted to another recognized graduate school and certified by his Dean as being in good standing. An application for temporary admission as a guest matriculant may be obtained from the Graduate Dean's Office.
An undergraduate student with the permission of his adviser, the chairman of the department offering the courses, the course instructor, and the Dean of the Graduate School may be permitted to enroll in graduate course work for grade and if successful, apply the credit so gained toward his undergraduate degree. The student should consult with the chairman of the department for identification of graduate course work which can be taken for undergraduate credit.

An undergraduate in his last semester of course work may request approval from the Dean of the Graduate School to register for reserve graduate credit. This request must be made in writing to the Dean prior to registration. Such a student should have a 3.0 average in his major department, and his department will be consulted by the Dean.

Students who wish to take undergraduate courses only, even though they have bachelors’ degree, should not apply to the Graduate School, but to the Office of Undergraduate Admissions.

Approval of Credits
Upon Change of Student Status

Credits earned by students in the provisional or non-degree status may be used subsequently in meeting degree requirements if recommended by the faculty adviser and department chairman, and approved by the Dean of the Graduate School. Students admitted in these categories are therefore strongly urged to obtain faculty guidance before beginning coursework. Credits cannot be applied towards a master’s degree unless they are specifically approved for that purpose.

APPLICATION PROCEDURES

Initial correspondence concerning application for admission to the Graduate School should be addressed to the Graduate Admissions Office, George Mason University, 4400 University Drive, Fairfax, Virginia 22030 (telephone 323-2104). An application form will be provided upon request. A non-refundable fee of $10.00 must be attached when the completed application form is submitted. It is the responsibility of the applicant to make certain that his admission file is complete in every respect. The University assumes no obligation to inform him about missing documents or credentials.

APPLICATION DATES

To be assured of consideration, applications for admission to the Graduate School of George Mason University should be received at the University no later than June 1 for the Fall Semester; April 1 for the Summer Session; December 1 for the Spring Semester.
ADMISSION REQUIREMENTS

In general, all applicants must have a bachelor's degree from an accredited institution and a grade point average of 2.75 on a 4.0 scale in the last two years of undergraduate work (or exceptional compensatory qualifications). To be acceptable, a transcript must be sent directly by the Registrar of the institution previously attended to the Graduate Admissions Office. All applicants must meet the specific requirements listed in this catalog under the individual graduate program.

Each applicant for degree status must have official transcripts submitted of all undergraduate and graduate work previously taken.

For degree applicants, letters of recommendation are required by most departments.

Degree applicants must present satisfactory scores on the Graduate Record Examination (Aptitude Test) or on the Admission Test for Graduate Study in Business. Some departments also require the Advanced Test of the Graduate Record Examination in the proposed field of specialization.

The Counseling Center of George Mason University administers these tests. Information concerning these testing programs and applications to take the tests may be obtained from the Counseling Center, 4400 University Drive, East Building, Room 134, Fairfax, Virginia 22030 (telephone 323-2165) or from Educational Testing Service, Box 995, Princeton, New Jersey 08540 or from Box 1520, Berkeley, California 94701.

**Graduate Record Examinations.** During 1974-75 the Graduate Record Examinations will be administered on the following dates:

<table>
<thead>
<tr>
<th>Testing Dates</th>
<th>Closing Dates for Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>October 26, 1974</td>
<td>October 1, 1974</td>
</tr>
<tr>
<td>December 14, 1974</td>
<td>November 19, 1974</td>
</tr>
<tr>
<td>January 18, 1975</td>
<td>December 31, 1974</td>
</tr>
<tr>
<td>February 22, 1975</td>
<td>January 28, 1975</td>
</tr>
<tr>
<td>* April 26, 1975</td>
<td>April 8, 1975</td>
</tr>
<tr>
<td>* June 21, 1975</td>
<td>June 3, 1975</td>
</tr>
</tbody>
</table>

*Not administered at George Mason University on these dates.
Admission Test for Graduate Study in Business. During 1974-75 the ATGSB will be administered on the following dates:

<table>
<thead>
<tr>
<th>Testing Dates</th>
<th>Closing Dates for Registration</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 22, 1974</td>
<td>October 12, 1974</td>
</tr>
<tr>
<td>January 25, 1975</td>
<td>January 4, 1975</td>
</tr>
<tr>
<td>March 22, 1975</td>
<td>March 1, 1975</td>
</tr>
<tr>
<td>July 12, 1975</td>
<td>June 21, 1975</td>
</tr>
</tbody>
</table>

Applicants from Abroad

Applicants whose native language is not English must present evidence of proficiency in English by satisfactorily completing the Test of English as a Foreign Language. It is administered in this country and in foreign countries by the Educational Testing Service four times a year. Inquiries may be directed to our Counseling Center or to TOEFL, Educational Testing Service, Princeton, New Jersey 08540.

TRANSFER OF CREDIT

With the approval of the appropriate department chairman, George Mason University will accept graduate credits earned at another university. Normally six hours of transfer credit is applicable toward a master’s degree, except as specified below for the Consortium of Northern Virginia institutions. A minimum grade of B must have been earned in each course presented for transfer credit.

A maximum of 12 semester-credit hours earned at institutions which are members of the Consortium for Continuing Higher Education in Northern Virginia may be transferred to graduate degree programs at George Mason University, with approval of the Graduate Dean. As stated above, a maximum of six semester-hours may be transferred from accredited institutions not members of the Consortium. However, a maximum of 12 semester-hours from all sources prevails, i.e., 12 semester-hours from Consortium members reducible by up to six hours from non-Consortium members.

The decision as to acceptability of work taken elsewhere and presented for transfer credit to a graduate program is the responsibility of the appropriate department chairman, subject to approval of the Graduate Dean. Transfer of credit is allowed only for graduate courses which were applicable towards a graduate degree at the institution where the courses were completed.

Credit may be considered for transfer, upon the request of the student, at the time of admission as a degree student, or at other specific times established by the department.
Undergraduate courses taken at other institutions are not transferable for credit to graduate programs within George Mason University. Provision is made, however, for graduate students in the University to count a limited number of hours in approved upper-division undergraduate University courses toward degree requirements. The student should consult the chairman of his graduate department for specific information about the limitation on hours and the approved courses.

**RE-ADMISSION**

A student whose study at the University is interrupted for any reason for a period of two semesters or more (exclusive of summer sessions) must apply for re-admission through the Graduate Admissions Office. If such re-admission is approved, the student is subject to the academic regulations and requirements in effect at the time of his re-admission.
Registration

Registration Procedures

Tuition and Fees

Financial Aid

Veterans Affairs

Summer Session
REGISTRATION

Registration. For each registration the student, in consultation with his adviser, prepares a schedule of courses designed to fit his individual needs. The course approval form must be signed by the faculty adviser before registration. Each registering student must also complete and sign the Information Card. Information requested on this card is used to set up the student’s master record and for numerous statistical reports. George Mason University does not discriminate with regard to race, color, sex, religion, or national origin; the information requested is for reports the University provides to federal authorities and to other agencies collecting data on equal opportunity for education or employment. The card carries the following statement which must be signed by the student: “I voluntarily enroll as a student of George Mason University with a serious desire to reap the benefits of its institution and hereby agree to conform to its rules and regulations, in testimony whereof I subscribe my name.” A student failing to complete this card is not a Registered Student. At course registration, degree students will be given preference over the non-degree students if the number of applicants exceeds the enrollment limits.

To be registered as a graduate student, an applicant must register for an academic load of which at least half is for graduate credit. Registration in the Graduate School is permissible only after the student has been notified of his admission by the Dean of the Graduate School.

Time and Priorities. The dates, hours and place of registration will be stated in the Schedule of Classes, which is available well in advance of each registration.

Delayed Registration. Any student who fails to present himself at the time specified for registration will not be permitted to matriculate unless he can explain his delay to the satisfaction of the Graduate Dean or his representative. If admitted after explanation, the student will be charged a delayed-registration fee of $5.00-$15.00, a part of which may be waived by the Graduate Dean for proper cause.

Student Identity Card. As an integral part of the registration process, each student is issued without charge an identity card. This card serves as the student’s official University identification. It must be presented to borrow library materials, and may be required for admission to University events or when using University facilities after normal operating hours. This card is issued for the student’s use, is not transferable, and must be validated at registration each semester.

Student Responsibility. The responsibility for being properly registered rests with the student, who should inform himself concerning all regulations and procedures required by the program of study he is pursuing. Regulations are not waived nor are exceptions granted because students plead ignorance of the regulations.
TUITION AND FEES

<table>
<thead>
<tr>
<th></th>
<th>In-State Students</th>
<th>Out-of-State Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Fee</td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
<tr>
<td>Tuition, Full-time</td>
<td>$315.00</td>
<td>$675.00</td>
</tr>
<tr>
<td>(12 semester-hours or more) per semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition, part-time</td>
<td>$27.00</td>
<td>$57.00</td>
</tr>
<tr>
<td>(11 semester-hours or less) per semester, per hour</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comprehensive Fee, per semester</td>
<td>$30.00*</td>
<td>$30.00*</td>
</tr>
<tr>
<td>Building Fee, per semester</td>
<td>$25.00*</td>
<td>$25.00*</td>
</tr>
<tr>
<td>Laboratory Breakage Deposit (Chemistry only)</td>
<td>$5.00</td>
<td>$5.00</td>
</tr>
<tr>
<td>Diploma Fee (Graduates only)</td>
<td>$5.00</td>
<td>$5.00</td>
</tr>
<tr>
<td>Special Registration Fee</td>
<td>$15.00**</td>
<td>$15.00**</td>
</tr>
</tbody>
</table>

*Students enrolled for six semester-hours or less are required to pay one-half of the Comprehensive and Building Fees.

**Any student not in attendance at George Mason University who is preparing a thesis under the active supervision of a member of the faculty, or who wishes to return to receive a degree or take an examination, pays a $15.00 registration fee for that semester and is exempt from all other fees.

Any person who is undertaking any form of academic study with George Mason University including supervised research, must be registered as a student and pay the prescribed fees.

Payment of Tuition and Fees. Tuition and fees are due and payable at the Business Office on or before August 19, 1974 and January 9, 1975. No student is permitted to register for classes until satisfactory financial arrangements have been made with the Business Office (Cashier).

All students are urged to make payments (whether by mail or in person) by personal check, money order or bank draft.

Deferred Payment Plan. There is a deferred payment plan available for students whose tuition for the semester exceeds $150.00. The student must pay all fees and at least one-third of the tuition as the initial payment, with the remaining tuition payable in two equal installments. Bills for installment payments will not be prepared. It is the student's responsibility to ensure payment of his installments on or before the due dates published.

Failure to make any tuition payment on or before due date results in a late charge of $5.00 per day, up to three days. Students who have not made payment within three days following due date will be placed on financial probation for a period of ten calendar days. If satisfactory arrangements have not been completed by the end of the probationary period, the student will be suspended for the remainder of the semester.

Checks. Checks in payment of tuition, fees, fines or other obligations to the University should be made payable to George Mason University. Second party checks are not acceptable; pay checks from local business firms payable to the student are the exception to this rule.

Any check returned to the University by the bank will result in a $5.00 penalty fee for the payer. Further, the student who fails to make good such check within five calendar days following notification by the Business Office will be suspended.

A student whose check is returned by the bank marked “Insufficient Funds” will be subject to the prescribed late penalty of $5.00 per day if he fails to make the check good on or before the deadline for the payment in question.

Withholding Academic Credit. Transcripts of record will be withheld from students and former students who have failed to meet their official financial obligations. This includes traffic and library fines.

Refunds. A student withdrawing within five week days following registration shall have tuition and comprehensive fee refunded in full; however, $10.00 will be withheld to cover the administrative cost of registration.

Tuition only will be refunded on a graduated scale for subsequent voluntary withdrawals.

Classification as a Virginia Student

To be classified as a Virginia resident it is mandatory that the applicant, or father, whichever applies, shall have been domiciled in the State of Virginia for one full year immediately preceding the beginning of the semester, and shall have filed Virginia State Income Tax for this same period. Dependents living with their families, or being supported by same, have the domicile of the father or other legal guardianship created only by widowhood, adoption, or divorce. Any student in doubt about his status as a Virginia resident should contact the Office of Admissions.

Other Required Fees

Transcript Fee. A fee of $1.00 is charged for each transcript of record when requested by the student. Payment must accompany the request.

Motor Vehicle Registration Fees. All students who desire to park their vehicles on University property must register them with the University’s security office and pay a fee of $1.00 for a parking decal. (See Regulations on Motor Vehicles.)
FINANCIAL AID

George Mason University has a limited amount of financial aid available which is administered by the Office of Career Planning, Placement, and Financial Aid. This assistance consists of scholarships, grants, loans, and employment. Financial aid awards are based primarily upon financial need and secondarily upon scholarship.

New and currently enrolled students should obtain an application for financial aid from the Office of Career Planning, Placement and Financial Aid and apply as soon as possible. In addition, a "Parents' Confidential Statement" or "Student's Financial Statement" in support of the application for financial aid must be filed with the College Scholarship Service. Students may consult with a member of the office staff for financial aid counseling and further information. The following submission dates are suggested for financial aid applications:

- 1974-75 Session ........................................ May 1, 1974
- Summer 1975 ............................................ April 15, 1975
- 1975-76 Session ........................................ May 1, 1975

Federal Programs

George Mason University participates in federally supported programs of student financial aid. The following programs are available to eligible students:

**National Direct Student Loan.** These are low-interest, long-term loans, available to qualified students according to their demonstrated financial need. Applications are handled through the Financial Aid Office, and require the submission of a need analysis statement through the College Scholarship Service. Repayment begins nine months after completion of the graduate program. Amounts up to $2500 a year are available for graduate students. These funds are usually reserved for full-time students, although exceptions may be made for extraordinary circumstances.

**College Work-Study Programs.** A program under which qualified students with demonstrated financial need are placed in part-time employment related to their field of study, for which they may earn up to the total amount of their award, at the rate of $2.00 to $3.00 per hour. These jobs may be on- or off-campus, and the form of application is the same as for National Direct Student Loans.

**U.S. Loan Program for Cuban Students.** Cuban nationals living in the United States who are unable to receive support from sources within Cuba as a result of actions of the Cuban government, and who have demonstrated financial need, are eligible for this program. The terms are similar to those of National Direct Student Loans.
State Loans and Grants

The State of Virginia provides scholarships (non-repayable) and loans for qualified students with demonstrated financial need, the conditions which are similar to those of the National Direct Student Loan.

In-Service Training Program for Teachers. Through the various Division Superintendents of Schools throughout the State of Virginia, a candidate may establish eligibility to receive state funds for graduate study closely related to his field of work. The candidate may use the funds to take previously approved courses at any of a number of colleges or universities throughout the State.

Guaranteed Student Loan Program. The State Education Assistance Authority, through participation agreements with lending institutions of the State, enables those institutions to make long-term personal loans to students to help pay their college and vocational school expenses. These loans are guaranteed to the extent of 90 percent of their principal by the Authority. The educational institution the student is planning to attend analyzes the economic capacity of the family and recommends to the bank an appropriate amount of loan. Where need is apparent, and the loan is within the amount recommended by the educational institution, the federal government will absorb the interest of 7 percent per annum during the time the student is in school. Repayment of the loan begins nine months after the student completes his academic program. The total loan may amount to as much as $2500 per year, not to exceed $10,000 in aggregate, for graduate work.

Other Programs

Fulbright-Hays Awards. Funds for pre-doctoral study or research abroad are available through this program. Candidates are nominated by a committee of the faculty. Further information concerning this program is available through Dr. Angela Khoury, George Mason University Fulbright program adviser.

The George Mason University Foundation, Inc. Limited funds are available from this source for scholarships or loans for eligible students, especially those for whom other programs are inappropriate. Applications are made through the Office of Career Planning, Placement, and Financial Aid.

Emergency Loan Programs. Short-term, interest-free loans are available to students for emergency situations. Applications for these loans are made through the Financial Aid Office.

Graduate Assistantships. Certain funds are available to graduate students in this category. Applications are made directly to the academic department involved.
Other forms of aid are available to graduate students from a variety of sources. Extensive information about these specific programs is available through the Office of Career Planning, Placement, and Financial Aid.

VETERANS AFFAIRS

The Office of the Registrar is the University’s liaison with the Veterans Administration concerning educational benefits for veterans and their dependents. Application forms for educational benefits may be obtained from the Office of the Registrar or the Veterans Administration Regional Office.

For graduate students registered during the regular session, the University considers 9 to 12 semester hours of graduate work to be a full-time load, 8 hours to be a three-quarters load, 6 hours to be a half-time load, and 3 hours a quarter-time load. In the accelerated summer terms, lower numbers of hours are equated to full and partial loads; these rates may be obtained from the Office of the Registrar.

SUMMER SESSION

Information concerning George Mason University Summer Session is presented in a separate publication which is available in February. It is anticipated that a number of graduate courses will be available every summer.
Academic Regulations

Credit and Grades

• Academic Probation and Dismissal
• Auditors
• Adding and Dropping Courses
• Withdrawal from the University
• Permission to take Courses Elsewhere

Grade Reports and Examinations

Degree Requirements
CREDIT AND GRADES

Grades and Grade Points. A candidate for a master's degree at George Mason University is required to present a minimum of 30 hours of graduate credit, in addition to the requirements as specified for a particular degree and by a particular department. A grade point average of 3.0 must be maintained. Grade points (GP) for each semester-hour are assigned on the following scale: A, 4 points; B, 3 points; C, 2 points; D, 1 point; and F, zero points.

If additional work is taken beyond 30 hours, a "B" average must be maintained for all work taken for graduate credit. A report of "Incomplete" for a graduate course will be changed by the Registrar to a failing grade if the course work is not completed by the end of the next semester (exclusive of the summer session). Incomplete marks in thesis courses are not subject to this time limit.

Academic Probation and Dismissal. A student who, at the end of any semester, fails to maintain a "B" average will be placed on academic probation. (A semester is a period during which academic credit and grades are earned and entered into a student's record.) The student placed on probation must recover to a "B" average in grade points within two semesters of work taken at George Mason University or be liable to dismissal from the program. Both degree and non-degree students are subject to the same regulations concerning probation and dismissal. A student who falls nine grade points or more below a "B" average at any time after the first semester of study will be subject to dismissal. For purposes of determining probation and dismissal, credit earned outside the University will not be counted.

Academic Load. During the regular session, a minimum full-time academic load for students is nine semester-hours. A normal full-time academic load for students is 12 semester-hours in the regular session. During the Summer Session, a normal full-time academic load for students is nine semester hours for the entire summer session. Permission of the department chairman is required to exceed the normal load.

Auditors. Under certain circumstances a student may be given permission by the appropriate department chairman to audit a course. However, a student may not at a later date take for credit a course which he has previously audited. The usual University fees apply to audit status. Additional information regarding audit status may be obtained from department chairmen.

Adding and Dropping Courses. In order to drop or add a course, a student must obtain the written permission of the chairman of the department in which the dropped or added course is taught. Forms for this purpose may be obtained from the department secretaries. The last
day for adding courses shall be no later than 14 calendar days after and including the first day of classes.

The last day to drop a course without incurring an “F” shall be six calendar weeks after and including the first day of classes.

A student who discontinues a course without proper permission will receive a grade of “F” in that course. All of the required signatures must be obtained on or before the deadlines shown in the Calendar.

Attendance. Students are expected to attend the class periods of the courses for which they are registered.

Withdrawal from the University. An official withdrawal form must be obtained from the Office of the Registrar, and must be approved in writing by the Graduate Dean or his representative. To clear the student’s record, the application must then be endorsed by the Registrar, the Librarian, the Business Office, and if the student is enrolled in a laboratory course, by the chairman of the appropriate department. When complete, the withdrawal form must be deposited with the Registrar.

When a student withdraws from the University after the last day for dropping a class, each of his instructors is asked to indicate whether the student withdrew passing or withdrew failing. The student’s permanent record is marked accordingly.

Failure to comply with the above regulations will subject the student to suspension from the University.

Enforced Withdrawal. The University may impose enforced withdrawal as a penalty for habitual idleness, or any other fault which prevents the student from fulfilling the purposes of enrollment.

Permission to Take a Course Elsewhere. When a student is already enrolled in George Mason University, permission to take a course elsewhere must be secured from the Graduate Dean prior to registering at the other institution. Forms for this purpose are available through department chairmen.

Petitions. Student requests, including those for exceptions to published rules, may be made by petition to the Dean of the Graduate School. These requests should be initiated by the graduate student. They must include the signature and approval of the student’s adviser and the department chairman. Student Request Forms for such purpose are available in departmental offices.

Completion of Undergraduate Preparatory Courses. Graduate students are expected to complete all undergraduate prerequisite or preparatory courses before acceptance into a graduate program. A maximum of one such undergraduate course, however, may be taken during the student’s first semester in the graduate program. The grade for this course will be used to calculate the student’s grade point average for the semester in which the course is taken, as well as for subsequent calculations but the credit hours will not be used in the computation of total hours required for the graduate degree.
GRADE REPORTS AND EXAMINATIONS

Grade Reports. Grade Reports are sent to the students at the end of each semester.

Examinations. Written examinations are held at the end of each semester on the work of that semester. Courses which are predominantly laboratory work are not entitled to an examination during the regular examination period. In such courses an examination may be given in the last regularly scheduled laboratory period. No changes may be made in the announced examination schedule unless approved in writing by the chairman of the department in which the course is offered.

In certain graduate courses the assessment of student performance may be more closely related to written and/or oral papers, and because of the more intensive and continuous demands which should be placed upon students, it would appear appropriate to provide a degree of flexibility in connection with graduate examinations. Therefore, after consultation with his department chairman, the individual faculty member may exercise his judgment regarding the use of a formal examination at the end of the course.

Absence from Examinations and Special Examinations. Absence from examination will not be excused except for sickness on the day of the examination, or for other cause approved by the Graduate Dean. If such absence is unexcused or the examination not taken within ten days, the grade on the course is entered as "F." A student whose absence from an examination is excused may take a special examination within the ten-day period on a date to be arranged between the student and the instructor in charge of the examination.

DEGREE REQUIREMENTS

To qualify for a master's degree, a candidate must have been accepted as a degree student, be in good standing, and have satisfied all departmental requirements. Specific departmental degree requirements are listed under the respective graduate programs. In general, the candidate must acquire a minimum of 30 semester-hours of graduate credit, and maintain a 3.0 or "B" average in all courses attempted. At least 18 semester-hours of course work must be completed after the candidate has been admitted to the status of a degree student. A comprehensive examination and a thesis may also be required by some departments. Candidates for graduate degrees currently enrolled are subject to those academic regulations in force at the time of their admission (or re-admission).

Residence. Normally, at least 24 semester-hours must be completed at George Mason University, except as noted under Transfer of Credit.
on p. 21. A completed degree program must include a minimum of 18 semester-hours of course work taken by the candidate at George Mason University as a degree student.

Thesis. All candidates for degrees requiring preparation and presentation of a thesis acceptable to their supervisory committees should secure copies of "A Guide for Preparing Master's Theses," which will be available to them in the Office of the Dean of the Graduate School. Theses must be deposited with the proper authorities on or before the date specified in the Calendar published in the Graduate Catalog.

The University participates in the services offered by University Microfilms, Incorporated, a corporation specializing in the reproduction of theses on microfilm. Additional information concerning this program may be obtained from the Dean of the Graduate School or from the department chairmen.

Time Limit. A limit of five years from the date of first registration is set for completion of all course and thesis work for students who begin their work at George Mason University. For students who present acceptable transfer credit, remaining course and thesis work must be completed within four years from the date of first registration at George Mason University.

Application. Students who expect to complete graduation degree requirements must secure an Application for Degree form from the Office of the Registrar and return it completed to the Office of the Registrar by the date designated on the Academic Calendar. There is a $5.00 diploma fee which is payable at the time the student submits his Application for Degree.

Second Master's Degree. Course credits already submitted in fulfillment of requirements for a master's degree may not ordinarily be submitted in fulfillment of degree requirements for a second master's degree at George Mason University. For exceptional reasons, a maximum of six semester-hours of credit may be allowed, upon the recommendation of the department chairman and with the approval of the Graduate Dean.

Commencement. Commencement exercises provide an opportunity for students and their families to share in the experience of the conferral of academic degrees. Degree candidates who do not desire to participate in the formal graduation ceremonies must notify the Office of the Registrar at least 24 hours prior to the date and time of the ceremony.
Graduate Programs

Biology
Business Administration
Economics
Education
English
History
Mathematics
Psychology
Spanish
DEPARTMENT OF BIOLOGY

Professor Emsley (Chairman)
Associate Professor Stanley Wall
Assistant Professors Hinton, Kelso, Skog, Wilson

Master of Science in Biology

The prime objective of the biology graduate program is to offer to qualified students advanced knowledge of recent developments in biology. The courses are designed to appeal to two types of persons:

1. Established biology teachers or other professionals who are interested in furthering their careers. Human ecology is the central theme of this program.
2. Research-oriented students who expect to seek first employment on the strength of the Master of Science degree, or who hope to proceed to the Doctor of Philosophy degree at another institution. For these students, the areas of speciality will include systematics, physiology and genetics.

Through the use of seminars and independent investigation, greater emphasis will be placed upon original thought and familiarization with current literature than in the undergraduate program. Therefore, students enrolled in upper-division undergraduate courses for graduate credit will be expected to cover the work in greater depth than their undergraduate colleagues.

A candidate may gain up to eight hours of credit in relevant approved courses in the Department of Mathematics, or in one of the physical sciences, but only with the permission of the department chairman concerned.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general admission requirements listed on pp. 20-22, the applicants for graduate work in Biology must have an undergraduate degree in biology (or have taken 24 hours of biology courses) with a grade point average of 3.0 (B) or better in all biology courses taken.

For admission to candidacy for the Master of Science degree in Biology (i.e., degree status) the applicant must:

1. Provide evidence of having fulfilled the course requirements for the Bachelor of Science degree with major in biology at George
Mason University, or their equivalent, namely: Inorganic and Organic Chemistry, General Biology, Cell Biology, General Genetics and Ecology.

2. Have taken the Graduate Record examination including the Biology area examination.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pp. 35-36, the candidate for the Master of Science degree in Biology must:

1. Acquire not less than two semester-hours of credit in Biology 591: Current Topics in Biology.
2. Complete the required 30 semester-hours of graduate work with not more than two approved upper-division undergraduate courses.
3. Satisfy the departmental examiners in a comprehensive examination to be taken at the conclusion of all formal course work.

UNDERGRADUATE COURSES

The following upper division undergraduate courses have been approved for graduate credit toward the M.S. in Biology. Catalog descriptions appear in the Undergraduate Catalog:

342: Plant Morphology. (4)
344: Plant Taxonomy. (4)
411: Advanced Genetics. (4)
412: Microbial Genetics. (4)
413: Selected Topics in Genetics. (3)
441: Plant Anatomy. (4)
448: Symbiology. (4)
462: Advanced Cellular Physiology. (4)
464: Plant Physiology. (4)
465: Histology. (4)
471: Evolution. (3)
473: Field Studies in Biology. (4)
481: Selected Topics in Vertebrate Zoology. (4)

Graduate Courses

511: Human Genetics. (3)
Prerequisite: Biology 311 or the equivalent. A study of the inheritance of man. Emphasis will be on current problems, including genetic control of metabolic diseases, the effects of radiation and chemical agents in the environment, and directed genetic change. Three lecture hours.
521: Origin of the Cultivated Plants and Their Impact on Man and Society. (3)
Prerequisite: One upper-division botany course, Biology 311 or equivalent, or permission of instructor. The geographic origins of the major economic plants of the world, their economic and cultural significance from prehistoric to modern times, and modern economic and nutritional problems of food distribution. Three lecture hours.

531: Food, Energy and Insects. (3)
Prerequisite: A previous course in entomology or permission of instructor. The history and future of man’s competition with insects in the fields of agriculture and medicine. Three lecture hours.

532: Animal Behavior. (3)
Prerequisite: Biology 324 or permission of instructor. A study of the ecological aspects of animal behavior. Three lecture hours.

544: Advanced Plant Systematics. (3)
Prerequisite: Biology 344 or equivalent. A study of the morphology and speciation of the more complex families such as Poaceae, Cyperaceae and Asteraceae. The lab emphasizes identification of specimens and acquaintance with taxonomic literature. One lecture hour, four laboratory hours.

545: Freshwater Ecology. (4)
Prerequisite: A course in ecology. The physical and chemical features of freshwater lakes and streams and the relationship to the biota. Local streams and lakes will be investigated. Three lecture hours, three laboratory hours.

546: Marine Ecology. (4)
Prerequisite: A course in ecology. The physical and chemical features of marine environments and the relationship to the biota. Extended field trips will be made to localities on the Chesapeake Bay and Atlantic Ocean. Three lecture hours, three laboratory hours.

552: Selected Topics in Zoogeography. (3)
Prerequisites: Biology 271, 471, or permission of instructor. Students will prepare a seminar and a short research paper on a zoogeographic problem involving either fossil or extant organisms. Emphasis will be placed on vertebrates. Three lecture hours.

555: Selected Topics in Plant Biology. (3)
Prerequisites: Eight semester-hours of credit in Introductory Biology, one upper division course in botany, and permission of instructor. Problems in contemporary botany will be discussed. The topic will depend upon the specialty of the instructor. Three lecture hours.

562: Problems in Development. (3)
Prerequisite: A previous course in embryology or developmental biology or permission of the instructor. Readings and seminars utilizing the current literature in developmental biology. Emphasis is placed on major problems including those of morpho-genetic movements, differentiation, regeneration, aging and malignancy. The student becomes familiar with experimental organisms and systems of unique value in developmental biology. Three lecture hours.

566: Comparative Physiology. (4)
Prerequisite: A course in invertebrate zoology or permission of instructor. A comparison of physiological mechanisms in vertebrates and invertebrates. An introduction to pigmentation, bio-electricity and sensory phenomena. Emphasis will be on devising experiments, collecting data and the interpretation of results. Three lecture hours, three laboratory hours.
571: Human Evolution and Ecology. (3)
A materialistic study of the evolution of man and his prehistoric, historic and contemporary relationship with the natural environment. *Three lecture hours.*

573: Evolutionary Taxonomy. (4)
*Prerequisite:* A previous course in evolution equivalent to Biology 471 or permission of instructor. A study of modern methods and principles of animal classification, and their application to systematic problems in the laboratory. *Three lecture hours, three laboratory hours.*

591: Current Topics in Biology. (1)
One seminar hour each week.

599: Thesis. (6)
A laboratory or field investigation conducted under the supervision of a member of the faculty. The number of semesters beyond two over which work on the project may be extended will be at the discretion of the supervisor.
DEPARTMENT OF BUSINESS ADMINISTRATION

Associate Professors Tongren, Zieg
Assistant Professors Marchione, Seely, Sood, Steinhauer
Acting Assistant Professors Gomolka, Siff
Lecturers Bartlett, Falken, Lenz, Marrella, Rans, Stimson

Master of Business Administration

This program is designed to provide a high level of professional education in the several functional areas of business administration. It is intended that this graduate program will serve:

1. Students who have recently earned the baccalaureate degree, either at George Mason or at other colleges, and who wish to continue their education at the master’s level.
2. Persons employed in business and government who hope to further their professional careers by earning a degree at the master’s level.
3. Students who intend to continue toward the D.B.A. degree at some other institution.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, the applicants for the Master of Business Administration must:

1. Successfully pass the Admission Test for Graduate Study in Business. Normally, a score of 500 or better is required.
2. Submit three letters of recommendation from professors with whom the applicant has studied or from others directly familiar with his professional competence.

DEPARTMENTAL DEGREE REQUIREMENTS

A candidate must fulfill the general degree requirements listed on pp. 35-36, in addition to the following:

1. The master’s program in business administration consists of thirty-three semester hours of course work for those candidates
who have completed their undergraduate work in business administration, including the following undergraduate courses:

- Introductory Accounting: 6 hours
- Statistics: 3-6 hours
- Introductory Marketing: 3 hours
- Introductory Finance: 3 hours
- Business Law: 3 hours
- Principles of Management: 3 hours
- Principles of Economics: 6 hours

Candidates who have completed their undergraduate work in another discipline must complete the courses listed above prior to acceptance in the MBA program. These candidates should consult an MBA adviser to determine if undergraduate work previously taken will fulfill any of the core requirements.

2. **MBA Core.** Each candidate must complete the following MBA core courses unless, in the opinion of the Business Administration Department, the candidate has had previous work at the graduate level and may be granted exemption:

   - BA 501 Managerial Accounting
   - BA 511 Cases in Financial Administration
   - BA 521 Cases in Managerial Marketing
   - BA 591 Cases in Organizational Behavior
   - BA 595 Business Policy

**Note:** Provisional students should complete six of their first nine hours from core courses BA 501, 511, 521 and 591.

3. **Specialty Areas.** Each candidate must also complete at least two three-hour courses in one of the following areas:

   - Financial Management
   - Administrative Management
   - Marketing Management and Research
   - International Business
   - Managerial Economics
   - Quantitative Methods

4. A maximum of six hours of elective credit, in another graduate program of this University, will be allowed provided it is in a related field and has the prior approval of the Business Administration Department.

5. A maximum of six semester hours of graduate credit will be accepted under this program for approved undergraduate.
BUSINESS ADMINISTRATION

upper level courses taken at George Mason University while the student is registered in the Master of Business Administration program.

6. No credit is granted for work done in absentia or without formal instruction.

7. Upon completion of 27 hours of course work, including the MBA core and specialty requirements the student may elect one of the following options to fulfill the final six hours of the 33 hour requirement for the degree:

(a) Thesis. A maximum of six credit hours will be permitted for writing of the thesis.
(b) Additional course work and research. The student will take one (3 credit hour) additional course on an elective basis, and must take the Seminar in Business Research (3 credit hours).

UNDERGRADUATE COURSES

The following upper division undergraduate courses have been approved for graduate credit. Catalog descriptions appear in the Undergraduate Catalog.

412: Marketing Management. (3)
433: Advanced Financial Management. (3)

Graduate Courses

501: Managerial Accounting. (3)
The use of accounting data for corporate financial planning and control. Topics included are profit planning, relevant costing, budgeting, measurement of performance and product costing. Lecture and discussion.

502: Financial Accounting Theory. (3)
Theoretical and conceptual foundations examined. Current literature and theories studied to provide coverage of postulates, assumptions and standards underlying measurement criteria and practices of financial accounting. Lecture and discussion.

511: Cases in Financial Administration. (3)
Applying the theories of finance to the formulation and application of policies. Internal financial analysis; financial forecasting; management of assets, rate-of-return; capital formation. Lecture and discussion.

512: Security Analysis. (3)

515: Federal Taxation and Business Planning. (3)
Analysis of federal taxation of business enterprises. Consideration of organizations,
acquisitions, mergers, spinoffs, and other divestitures, from viewpoint of profit planning, cash flow and tax deferral. Emphasis on tax problems of corporations. Lecture and discussion.

521: Cases in Managerial Marketing. (3)
The application of qualitative and quantitative techniques in approaching various marketing situations. Emphasis on the use of marketing research, product planning, pricing and target market determination. Case discussion; readings.

522: Marketing Seminar. (3)
Selected problems in contemporary marketing. Developing new market segments. Independent research projects and computer marketing games. Lecture, discussion, and laboratory.

531: Computer Systems for Management. (3)
Study of computers and their effect on management process. Approaches to analysis, design, implementation and use of computer information systems. Both hardware and software. Lecture and laboratory.

541: Seminar: Personnel Administration. (3)

551: Quantitative Management. (3)
Quantitative approach to managerial decision making. Systems analysis and model development, using statistical decision theory, linear programming and multivariate methods, are applied to business problems. Lecture and laboratory.

552: Management Science. (3)
Introduction to operations research techniques and their application to managerial decision making. Computer simulation, Markov processes, queuing theory, inventory models, PERT and CPM, mathematical programming. Research, lecture, and laboratory.

561: Managerial Economics I. (3)
The use of economic theory as it applies to specific business situations and decisions. Production levels, price determination, costs competition, profits, supply/demand. Lecture and discussion.

562: Managerial Economics II. (3)
The application of economic analysis to business management; government economic policy; the use of national economic statistics; interpreting economic trends and developments; forecasting. Current economic problems and their effect on business. Lecture, cases, and discussion.

571: Theory and Policies of International Business. (3)
Management of international business operations as segments or subsidiaries of U.S. firms. Problems of political stability, operations in developing countries, influences of U.S. trade and foreign policies. Lecture and discussion.

572: International Business Management. (3)
Prerequisite: Business Administration 571. Analysis and discussion of problems in international business. Emphasis on international market entry and expansion; financial considerations in the international context; and operating policies and procedures of multi-national companies. Lecture, cases, and discussion.
BUSINESS ADMINISTRATION

591: Cases in Organizational Behavior. (3)
Study and application of principles of individual and group behavior to the solution of human problems in organizations. Relationships with superiors and subordinates in formulating and accomplishing personnel policies. Case discussion; readings; and research.

592: Purchasing and Materials Management. (3)
Principles and practices of purchasing and materials management for the private firm, within the broader context of an industrial materials management system. Governmental procurement practices examined to a limited degree. Case discussion, readings, and research.

593: Seminar in Comparative Business Management. (3)
Comparative analysis of business practices and management systems in different countries and under different economic, social and political systems. Generic characteristics of management and business enterprises as modified in varying environments. Seminar reports and term paper.

594: Entrepreneurial Behavior. (3)
Study of independent organization builders and their companies. Description of entrepreneurial behavior, and entrepreneurial types. Case discussion, readings and research.

595: Business Policy. (3)
Prerequisite: Completion of 24 semester hours. Examines entrepreneurial functions in business: determination of the field of business in which the firm will operate, its goals, corporate strategy to reach these goals, and major policies to implement the corporate strategy. Cases, readings, and discussion.

598: Seminar in Business Research. (3)
Study of research design plans, methodologies, data collection and analyses and their application to business research projects. Student will prepare a written report covering an approved research topic in the area of his major.

599: Thesis. (6)
DEPARTMENT OF ECONOMICS

Professor Snavely (Chairman)
Associate Professors Bloch, Hayn, Phillips
Assistant Professors Chung, Cohen, Hymson, Solomon, Wiest
Lecturers Cassidy, Cummings, Marlin, Wilson

Master of Arts in Economics

This program is designed to provide students with the fundamentals of economic analysis and with specialized knowledge of the various fields offered. The program is designed to serve:

1. Students with recent baccalaureate degrees who wish to become qualified for employment with the numerous institutions, both public and private, in the metropolitan area and elsewhere that hire economists.
2. Individuals presently employed in business and government who desire to further their professional careers through graduate training in economics.
3. Students who intend to continue their advanced education toward a Ph.D. in economics at other institutions of higher learning.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, the applicant will normally be expected to hold a baccalaureate degree in economics. A student with an undergraduate major in a field other than economics may be admitted to the program if his record demonstrates sufficient background in economics and allied fields. The Department requires that undergraduate deficiencies be made up by completion of appropriate remedial work taken without graduate credit.

DEPARTMENTAL DEGREE REQUIREMENTS

The student must meet all the general requirements for a degree as listed on pp. 35-36. In addition, the master's program in economics requires 30 semester hours of graduate credit, with a thesis option for which up to six semester-hours of credit may be granted. All students are required to take at least six semester-hours of graduate theory. Those electing the non-thesis option are required to take Economics 545, Econometrics (I), a three credit-hour course. In special circum-

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stances the department chairman may allow a student to apply up to six semester-credits toward the required 30 credits from electives chosen from graduate courses in business administration and government.

Graduate Courses

501: Microeconomic Theory. (3)

505 (formerly 503): Welfare Economics. (3)
The topics covered include Pareto optimality, social welfare functions, the voting paradox, indivisibilities, consumer surplus, output and price policy in public enterprise. Qualifications of the basic welfare theorem caused by noncompetitive market structures, external economies and diseconomies and secondary constraints. As time permits, Kaldor, Hicks, Sraffa, Arrow, Little, Bergson and Samuelson will be discussed.

507: Monetary Theory and Policy. (3)
Theory of money, financial assets, and economic activity. Theory of the mechanisms through which central banking affects economic activity and prices. Analysis of the demand for money and its relationship to economic activity. The development of monetary theory with emphasis on current theories and controversies in the field.

513 (formerly 502): Macroeconomic Theory. (3)
Classical, neoclassical, Keynesian and post-Keynesian theories of income and employment determination. Theories of inflation and growth. The demand for money and its implications for the effectiveness of monetary vs. fiscal policy.

516 (formerly 504): Macrodynamics and the Economics of Technical Change.
Classical and modern growth theories including "golden rule paths." The causes of business cycles and an analysis of the NBER's efforts in measuring and predicting cycles. Qualitative and quantitative aspects of technical change at the microeconomic and macroeconomic levels. Recent developments in large macroeconomic forecasting models.

517 (formerly 511): Seminar in Monetary Theory and Policy. (3)
Selected topics of current interest will be discussed.

520 (formerly 514): Labor Economics. (3)
Formal models of labor demand, supply, utilization and wage determination. The determination of factor shares in an open economy. The theory of collective bargaining and the impact of trade unions on wage rates and resource allocation. The measurement, types, and causes of unemployment. Benefit-cost analysis of manpower training and development projects.

521 (formerly 515): Seminar in Labor Economics. (3)
An intensive study of union and management decision-making processes, the government's role in labor negotiations and dispute settlement, the economic analysis of discrimination and poverty, and the effectiveness of wage-price controls.

533 (formerly 510): Public Finance. (3)
Theoretical and institutional analysis of government expenditures, taxation, debt
management and intergovernmental fiscal relations. Allocative and distributional effects
of alternative tax and subsidy techniques. Principles of benefit-cost and cost-effectiveness
analysis for government decisions.

541: Mathematical Economics I. (3)
Among the topics to be covered are set theory, functions, differential calculus, integra-
tion, series, and matrix algebra, with the special emphasis on the economic applications.

542 (formerly 532): Mathematical Economics II. (3)
Mathematical treatment of economic theories. Static and dynamic analysis of macro-
models. Input-output analysis. Optimization techniques such as Lagrangian multipliers,
linear programming, non-linear programming and game theory. General equilibrium
theory: existence, uniqueness, and stability.

544 (formerly 530): Econometrics I. (3)
Techniques of estimating relationships among economic variables. Introduction to mul-
tiple regression and problems associated with the single equation model—autocorrelation,
multicollinearity, and heteroskedasticity.

546 (formerly 531): Econometrics II. (3)
Econometric models and simultaneous equation systems. The problems of identification
of parameters and least squares bias. An analysis of alternative estimation methods and
block recursive systems.

552 (formerly 540): Advanced Regional and Urban Economics. (3)
Location theory and spatial distribution of economic activity; application of analytic
methods such as economic base theory, input-output techniques, and industrial com-
plex analysis to problems of regional and urban development, environmental quality, and
natural resource management. Analysis of government policies toward urban renewal,
transportation, land-use patterns, pollution and other problems.

555 (formerly 512): Resource Economics. (3)
Introduction to benefit-cost and cost-effectiveness analysis in the context of resource
management in the public sector. Emphasis on the development of water resources by the
public sector and the experience of the Army Corps of Engineers and Bureau of Reclama-
tion in project selection. Problems of uncertainty, time horizon considerations, joint
costs, multiple benefits, non-quantifiable benefits and costs.

560 (formerly 518): Economic Development. (3)
An analysis of the forces contributing to and retarding economic progress in developing
countries. The role of foreign trade, economic integration, foreign investment,
multinational corporations and technological transfers. Development strategies, includ-
ing balanced vs. unbalanced growth, import substitution and planning.

563 (formerly 519): Seminar on Latin American Development. (3)
An examination of economic characteristics and recent economic development of Latin
America. Topics include industrialization and import substitution; the rural sector and
agrarian reform; population and unemployment; foreign trade, and economic integra-
tion; development finance, foreign investment and assistance.

570 (formerly 524): Industrial Organization and Public Policy. (3)
An analysis of the structure of American industry and its underlying determinants.
Analysis of the joint impact of structure and conduct on industrial performance in light
of theory and empirical evidence. The development of rational anti-trust policy and an
analysis of the impact of past and present anti-trust policies on structure and perform-
ance.
ECONOMICS

573 (formerly 525): Seminar in Industrial Organization. (3)
Topics will be selected from the following: the centrifugal and centripetal forces affecting aggregate and industry concentration; the impact of market structure on the rate of innovation; concentration and oligopolistic price behavior; constraints on oligopolistic pricing; vertical integration; traditional antitrust policy, regulation and state ownership.

581 (formerly 545): History of Economic Thought. (3)
The development of economic analysis. Major figures in the history of economic thought and the tools of analysis they created. Major emphasis on the classical, neoclassical and Keynesian theories.

590 (formerly 535): International Trade and Finance. (3)
The international mechanism of adjustment: price, exchange rates, income changes, and direct as well as indirect controls. The theory of trade: comparative costs and the gains from trade. Commercial policy and customs unions. Private and public capital transfers. The role of the International Monetary Fund, World Bank, and other international agencies.

598: Directed Reading and Research. (3)

599: Thesis. (3-6)
Those students who take Economics 598 and then elect the thesis option will receive three credits for Economics 599 upon completion of the thesis. Those students who do not take Economics 598 will receive six credits for Economics 599 upon completion of the thesis.
DEPARTMENT OF EDUCATION

Professors Snyder (Chairman), Brown-Azarowicz, Eaves, Joy, Montebello, Schindler
Associate Professors Bindel, Edgemon, Evans, Gilstrap, Kilby, Martin, Schuchman, D. Smith, J. Smith
Assistant Professors Austin, Carroll, Duck, Dzama, Gray, Keller, Krotee, Major, Metcalf, Perkes, Shelton, Snoddy, Wilson
Lecturers Armstrong, Bouey-Yates, Bowen, Brown, Gair, Hobson, Hurt, Sigal, Tankard, Wagner

Master of Education Programs

The Department of Education offers the Master of Education degree in the following fields: Elementary Education, Secondary Education, School Administration, Guidance and Counseling, Reading, and School Supervision.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22 the applicant must:

1. Possess a temperament appropriate for the teacher as required by Virginia Certification Regulations.
2. Meet specific requirements as specified for the program desired. The specific entrance requirements for each program are shown immediately preceding the program outline.

Students admitted provisionally will normally be required to complete a course in Area I, II, or III of the sample programs before being considered for admission as degree students.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements on pp. 20-22 the candidate must:

1. Complete the graduate program in which enrolled.
2. Pass a comprehensive examination covering the graduate program in which enrolled.
EDUCATION

Program Outlines

The following program outlines are presented in order to give a prospective applicant an idea of the type of program he might pursue. It is emphasized that there is considerable flexibility when a program is designed for an individual student.

Students having an interest in research may elect a program requiring the preparation of a thesis. Students electing a thesis must include within the requirements for their program the following courses: Education 590, 591 and 593. Students are not limited to the elective courses shown in the sample programs but may choose other courses. Each student must develop a program in consultation with his adviser and secure the approval of the Department of Education.

MASTER OF EDUCATION IN ELEMENTARY EDUCATION

A. Preparation for Early Childhood [NK-3] or Elementary Teaching [4-7]

This program is designed to prepare holders of the bachelor's degree for professional certification as teachers in grades NK-3 or 4-7. Information concerning the George Mason University program for the Virginia Collegiate Professional Certificate may be found in the Undergraduate Catalog.

Entrance Requirements

The applicant must:

1. Meet the general education requirements for the Virginia Collegiate Professional Certificate or its equivalent in another jurisdiction.
2. Meet the requirements for and be admitted to the George Mason University Teacher Education Program.
3. Submit recommendations by three persons qualified to judge professional promise.

Students who do not meet the requirements in 1 and 2 above should apply for admission as Special Undergraduate students, instead of as graduate students.

Program Outline

<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>I.</td>
<td></td>
</tr>
<tr>
<td>Historical, Philosophical, and Sociological Foundations....</td>
<td>3</td>
</tr>
<tr>
<td>Education 501, 502, 503, 505, 507</td>
<td></td>
</tr>
</tbody>
</table>
II. Psychological Foundations ........................................... 3
   Education 525, 526

III. Research ............................................................ 3
     Education 590

IV. Area of Specialization: ............................................. 18
    Education 401, 403, 407, 419, 575 or
    Education 402, 404, 408, 420, 576

V. Electives: ............................................................. 3
    Education 582 or other approved courses

Total 30

B. Early Childhood and Elementary Teaching for Certified Teachers
   This program is designed to improve the competence of teachers who have completed a basic program in preparation for teaching.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level in elementary education by the State of Virginia or another jurisdiction.
2. Submit recommendations by three persons qualified to judge professional competence.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
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</tr>
</thead>
</table>
|                | 1. Historical, Philosophical, and Sociological Foundations .... 3
|                | Education 501, 502, 503, 505, 507 |
|                | 2. Psychological Foundations: ........................................... 3
|                | Education 525, 526, 527, 533 |
|                | 3. Research: ............................................................ 3
|                | Education 590 |
|                | 4. Area of Specialization: ............................................. 15 |
|                | 1. Education 550, 558, 559, 561, 562, 563, 564, 565, or
|                | 625 ................................................................. 6 |
|                | 2. Education 582 .......................................................... 3 |
3. In one of the following areas: 

a. Early Childhood and Elementary Teaching
   Education 558, 559, 561, 562, 563 or 564
b. Historical and Philosophical Foundations
   Education 501, 502, 503, 505, 509
c. Psychological Foundations
   Education 525, 526, 527, 528, 531, 533, 538, 591
d. Reading
   Education 559, 601, 605, 607
e. Educational Technology
   Education 565, 625
f. Supervision
   Education 552 and 554

V. Electives (including other disciplines) .................................. 6  
   Total .............................................................................. 30

MASTER OF EDUCATION IN SECONDARY EDUCATION

A. Preparation for Secondary School Teaching

This program is designed to prepare holders of the bachelor's degree for professional certification as secondary school teachers, grades 7-12, in specific subject areas. Information concerning the George Mason University program for the Virginia Collegiate Professional Certificate may be found in the Undergraduate Catalog.

Entrance Requirements

Same as for Preparation for Early Childhood (NK-3) or Elementary Teaching (4-7), p. 52.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Education 501, 502, 503, 505, 507</th>
<th>Education 525, 526</th>
<th>Education 590</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Historical, Philosophical and Sociological Foundations</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>II. Psychological Foundations:</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>III. Research:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
IV. Area of Specialization: ................................................. 12
   Education 416, 421, 577

V. Electives: ................................................................. 9
   Must include at least 6 semester hours in the teaching field or in a discipline related to it and 3 hours from Education 583, 566, 567, 568, 569 or 604.

   Total 30

B. Secondary School Teaching for Certified Teachers

This program is designed to improve the competence of teachers who have completed a basic program in preparation for teaching and who hold the Virginia Collegiate Professional Certificate or its equivalent.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level in secondary education by the State of Virginia or another jurisdiction.
2. Submit recommendations by three persons qualified to judge professional competence.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>I. Historical, Philosophical and Sociological Foundations: ...... 3</td>
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<tr>
<td>Education 501, 502, 503, 505, 507</td>
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<tr>
<td>II. Psychological Foundations: .................................. 3</td>
</tr>
<tr>
<td>Education 525, 526, 527, 533</td>
</tr>
<tr>
<td>III. Research: .................................................. 3</td>
</tr>
<tr>
<td>Education 590</td>
</tr>
<tr>
<td>IV. Area of Specialization: ...................................... 9</td>
</tr>
<tr>
<td>Education 583 and Education 551, 565, 567, 568, 569 or 604</td>
</tr>
<tr>
<td>V. Electives: .................................................... 12</td>
</tr>
<tr>
<td>Must include at least 9 semester hours in the teaching field or in a discipline related to it.</td>
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<tr>
<td>Total 30</td>
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</tbody>
</table>

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EDUCATION

MASTER OF EDUCATION IN SCHOOL ADMINISTRATION

This program is designed to enable qualified individuals to become school administrators at the elementary or secondary school level.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level by the State of Virginia or another jurisdiction.
2. Have completed two years of successful teaching experience, a portion of which must be at the level where qualification is desired.
3. Be recommended by three professional educators in the position of principal, supervisor, or administrator indicating the potential of the applicant for school administration, including at least one who has observed the applicant’s teaching.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>I. Historical, Philosophical, and Sociological Foundations: ...</td>
<td>3</td>
</tr>
<tr>
<td>Education 501, 502, 503, 505</td>
<td></td>
</tr>
<tr>
<td>II. Psychological Foundations: ........................................</td>
<td>3</td>
</tr>
<tr>
<td>Education 525, 526, 527, 533</td>
<td></td>
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<tr>
<td>III. Research: ...............................................................</td>
<td>3</td>
</tr>
<tr>
<td>Education 590</td>
<td></td>
</tr>
<tr>
<td>IV. Area of Specialization: ..............................................</td>
<td>21</td>
</tr>
<tr>
<td>Education 550 or 551; 552 or 553; 555 or 556</td>
<td></td>
</tr>
<tr>
<td>Education 507, 570, and 580 or 581</td>
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<tr>
<td>Total</td>
<td>30</td>
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</tbody>
</table>
MASTER OF EDUCATION IN GUIDANCE AND COUNSELING

This program is designed to enable qualified individuals to become guidance counselors at the elementary or secondary school level.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level by the State of Virginia or another jurisdiction.
2. Have completed two years of successful teaching experience, a portion of which must be at the level where qualification is desired.
3. Be recommended by three professional educators in the position of principal, supervisor, or administrator, regarding the potential of the applicant for the field of guidance and counseling.
4. Be interviewed by the program coordinator and recommended for acceptance.

Program Outline

<table>
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<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td></td>
<td>Historical, Philosophical, and Sociological Foundations:</td>
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<td></td>
<td>Education 501, 502, 503, 505, 507</td>
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<tr>
<td></td>
<td>Psychological Foundations:</td>
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<td></td>
<td>Education 525, 526, 533</td>
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<td></td>
<td>Research:</td>
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<td></td>
<td>Education 590</td>
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<tr>
<td></td>
<td>Area of Specialization:</td>
</tr>
<tr>
<td></td>
<td>a. Education 528, 536, 538 or 539, 636, 637, 639</td>
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<tr>
<td></td>
<td>b. Education 531, 550 or 551, 591</td>
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<td></td>
<td>Total</td>
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</tbody>
</table>
EDUCATION

MASTER OF EDUCATION IN READING

This program is designed to permit qualified individuals to become reading specialists at the elementary or secondary school level.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level by the State of Virginia or another jurisdiction.
2. Have completed two years of successful teaching experience.
3. Be recommended by three professional educators in the position of principal, supervisor, or administrator, including at least one who has observed the applicant’s teaching.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Education</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>501, 502, 503, 505, 507</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>525, 526, 533</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>590 and 531 or 591</td>
<td></td>
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<tr>
<td>21</td>
<td>559 or 604, 601, 602, 603, 605 or 607, 608 or 609</td>
<td></td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td>33</td>
</tr>
</tbody>
</table>

MASTER OF EDUCATION IN SCHOOL SUPERVISION

This program is designed to enable qualified individuals to become school supervisors at the elementary or secondary school level.

Entrance Requirements

The applicant must:

1. Provide evidence of certification at the Collegiate Professional level by the State of Virginia or another jurisdiction.
2. Have completed two years of successful teaching experience, a portion of which must be at the level where qualification is desired.
3. Be recommended by three professional educators in the posi-
tion of principal, supervisor or administrator, including at least one who has observed the applicant’s teaching.

Program Outline

<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td></td>
<td>I. Historical, Philosophical, and Sociological Foundations:</td>
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<td></td>
<td>Education 501, 502, 503, 507</td>
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<tr>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>II. Psychological Foundations:</td>
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<tr>
<td></td>
<td>Education 525, 526, 533</td>
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<td></td>
<td>3</td>
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<td></td>
<td>III. Research:</td>
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<tr>
<td></td>
<td>Education 590</td>
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<td>3</td>
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<td></td>
<td>IV. Area of Specialization:</td>
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<tr>
<td></td>
<td>Education 550 or 551, 552 or 553, 555 or 556;</td>
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<tr>
<td></td>
<td>Education 554, 625 and Education 578 or 579</td>
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<td></td>
<td>21</td>
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<td>Total 30</td>
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</tbody>
</table>

UNDERGRADUATE COURSES

A maximum of 12 semester hours of the following undergraduate courses may be taken for graduate credit as part of an approved program for a graduate student preparing to teach.

Education 401: Teaching Methods in Early Childhood. (3)
Education 402: Teaching Methods in the Intermediate Grades. (3)
Education 403: Developmental Reading in Early Childhood. (3)
Education 404: Developmental Reading in the Intermediate Grades. (3)
Education 407: Diagnostic Reading and Language Arts in Early Childhood. (3)
Education 408: Diagnostic Reading and Language Arts in the Intermediate Grades. (3)
Education 416: Teaching Methods in the Secondary Schools. (3)
Education 419: Teaching Science in Early Childhood. (3)
Education 420: Teaching of Science in the Intermediate Grades. (3)
Education 421: Instructional Media. (3)

Graduate Courses

Prerequisites: All graduate education courses, with the exception of Education 575, 576, 577, and 650, have the following basic prerequisite: Collegiate Professional Certificate or equivalent, or permission of the Department.
EDUCATION

Specific additional prerequisites pertaining to each course are listed with the course description.

500: In Service Educational Development (2,3,4,6)
Prerequisites: Employment as an administrator, supervisor, or teacher by sponsoring school division, acceptability to the University. Offered upon request of a school division or other educational agency. Considers problems of professional education personnel in one or more areas. The course may take any appropriate form such as a seminar, workshop, or practicum. May be repeated. If applicable to a specific degree program, up to six semester hours may be accepted toward a degree by the University.

501: History of Education in Western Culture (3)
A critical historical analysis of old world backgrounds influencing education in the United States.

502: History of Education in America (3)
An examination of the development of the American education system.

503: Philosophy of Education (3)
A critical examination of selected ancient and contemporary philosophies and their impact upon educational thought and practice.

505: Social Problems in Education (3)
An appraisal of the changing role of the American school system in society, relationships to other institutions, the social purpose of the school, and major social problems involving the school and possible solutions.

507: School-Community Relations (3)
The principles, philosophy, practices, and agencies involved in developing and maintaining desirable relationships between schools and the communities they serve.

509: Professional Ethics, Relationships, and Negotiations (3)
An exploration of the philosophical, sociological, economic, and psychological bases for professional ethics, relationships, and negotiations.

525: Advanced Human Growth and Development (3)
An advanced course relating to human development throughout the life span including the development of the child through education, the unfolding of human abilities in terms of personal adjustment and achievement.

526: Advanced Educational Psychology (3)
An advanced course relating to learning theory, motivation, personality development, social and emotional behavior and student attitudes.

527: Evaluation of Student Progress (3)
Teacher evaluation of the progress of the learner through observation of performance and through measurement devices in the classroom. Teacher interpretation of standardized tests given in the schools.

528: Group Processes for Education Personnel (3)
A study of the nature and structure of groups, the group process, group leadership, and group membership. The course will deal with the application of knowledge about groups to practical situations in educational settings.
531: Educational and Psychological Measurement (3)
Techniques and principles used in the construction, administration and quantification of human judgment for evaluation purposes; interpretations of standardized tests of personality and ability.

533: Mental Health in the School Program (3)
Mental health problems in the school emphasizing control of the school environment as an influence on mental health. Dynamics of behavior, personal and social maladjustments.

536: Analysis of the Individual (3)
Prerequisites: Education 531, 538 or 539. Detailed study of individual analysis and appraisal techniques for guidance and counseling. Development of systematic case studies.

538: Theories, Principles and Practices of Guidance in the Elementary School (3)


550: Curriculum Development in the Elementary School (3)
Development of the curriculum in the elementary school, historical backgrounds, present programs, development of new programs, methods of implementing new programs, and evaluative methods and procedures.

551: Curriculum Development in the Secondary School (3)
Development of the curriculum in the secondary school, historical backgrounds, present programs, development of new programs, methods of implementing new programs, and evaluative methods and procedures.

552: Supervision of Elementary and Secondary School Instruction (3)
Prerequisites: Teaching experience, and Education 550 or 551. The nature and purposes of supervision, recent trends in theory and practice, teacher participation in organization and planning, techniques and practices of supervision, and the training of supervisors.

554: Evaluation of Instruction (3)
Prerequisites: Teaching experience, and Education 552. The techniques and devices employed in the evaluation of instruction, educational programs, schools, and school systems. Trends in the development of evaluation techniques. Accreditation and self-study techniques.

555: Elementary School Organization and Administration (3)
Prerequisites: Teaching experience, and Education 550. The organization and administration of the elementary school with emphasis on the principalship.

556: Secondary School Organization and Administration (3)
Prerequisites: Teaching experience, and Education 551. The organization and administration of the secondary school with emphasis on the principalship.

557: Personnel Administration (3)
Prerequisites: Teaching experience, and Education 555 or 556. The organization of personnel services, the development of policies governing selection, orientation, placement, remuneration, and transfer and separation of personnel.

558: Social Studies in the Elementary School (3)
Prerequisite: A basic course in teaching social studies in the elementary school. An advanced course in the methods, materials, content, and organization of social studies programs in the elementary schools.
EDUCATION

559: Teaching Reading in the Elementary School (3)
Prerequisite: A basic course in teaching reading in the elementary school. An advanced course in the principles, techniques, and materials for developmental reading programs in the elementary grades.

561: Literature in the Elementary School (3)
Prerequisite: A basic course in children’s literature. An advanced course relating to children’s literature.

562: Music in the Elementary School (3)
Prerequisite: A basic course in music for the elementary school. An advanced course for elementary teachers in the principles and practices of music for children.

563: Science in the Elementary School (3)
Prerequisite: A basic course in teaching science in the elementary school. An advanced course in the subject matter, the methodology, the materials involved in teaching of physics and chemistry to elementary school children.

564: Art in the Elementary School (3)
Prerequisite: A basic course in art for the elementary school teacher. An advanced course designed to present elementary teachers with skills and knowledge necessary for the development of arts programs in various media and materials.

565: Production of Instructional Materials (3)
Prerequisite: A basic course in instructional media. A course designed to prepare teachers with the basic knowledge needed to produce inexpensive teaching materials. Planning, production techniques, and evaluation standards are emphasized. Students are given an opportunity to work on individual projects in their own subject field.

566: Instructional Problems in Secondary Education (3)
Prerequisite: Teaching experience. An advanced course designed to develop competence in new and innovative techniques in teaching and the associated problems.

567: Social Studies in the Secondary School (3)
Prerequisite: A basic course in secondary school teaching methods. An advanced course in the methods, materials, content, and organization of social studies programs in the secondary schools.

568: Science and Mathematics in the Secondary School (3)
Prerequisite: A basic course in secondary school teaching methods. An advanced course in the methods, materials, content, and organization of science and mathematics programs in the secondary schools.

569: Language Arts in the Secondary School (3)
Prerequisite: A basic course in secondary school teaching methods. An advanced course in the methods, materials, content, and organization of Language Arts programs in the secondary schools.

570: School Law (3)
This course is designed to provide the background in school law required by school administrators, supervisors, counselors, and others requiring familiarity with school law.

Prerequisites: Admission to preparation phase of program and certification requirements except for internship, or permission of Department. A full time program of at least ten weeks’ duration in a public school, involving the study of pupils, observation of teaching, preparation of instructional materials, teaching at the appropriate level, and
participation in other school activities as required or needed. Attendance at periodic seminars is required.

575: Internship In Early Childhood Teaching. (6)
576: Internship In Intermediate Grade Teaching. (6)
577: Internship In Secondary School Teaching. (6)

578, 579: Practicums in School Supervision
Prerequisites: Admission to and completion of graduate program in supervision except for practicum. A program of supervisory practice and participation in school activities conducted in a public school system at a level consistent with the qualification desired. A total of six semester hours is normally required.

578: Practicum In Elementary School Supervision. (2-6)
579: Practicum In Secondary School Supervision. (2-6)

580, 581: Practicums in School Administration (2-6)
Prerequisites: Admission to and completion of graduate program in administration except for practicum. A program of administrative practice and participation in administrative activities conducted in a public school system at a level consistent with the qualification desired. A total of six semester hours is normally required.

580: Practicum In Elementary School Administration. (2-6)
581: Practicum in Secondary School Administration. (2-6)

582: Seminar in Elementary School Teaching (3)
Prerequisite: Admission to and completion of graduate program for elementary teachers except for seminar. A study of the selected problems in teaching. Typical problem areas are: Science, reading, mathematics, social studies, physical education, the slow learner, the gifted, the delinquent, and arts and crafts.

583: Seminar in Secondary School Teaching (3)
Prerequisites: Admission to and completion of graduate program for secondary teachers except for seminar. A study of selected problems in teaching. Typical problem areas are: the slow learner, the gifted, the delinquent, reading, curricular activities and teaching problems within the subject area of the student.

590: Methods of Educational Research (3)
The developments, the research problems and hypotheses, constructs and variables in experimental and descriptive studies, sampling techniques, principles of research design, types of research studies, research tools, analysis and interpretation of research findings, and the development of research proposals.

591: Educational Statistics (3)
The bases of statistical inference, sample variance and chi-square distribution, analysis of variance and factorial analysis, sampling from binomial and multinomial populations, and distribution free methods of analysis.

592: Problem (3)
Prerequisites: Education 590 or 591. A problem of interest to the student utilizing accepted research methods under the supervision of a member of the graduate faculty.

593: Thesis (6)
Prerequisites: Education 590 and 591. The study of a significant problem of interest to the student utilizing accepted research methods under the supervision of a member of the graduate faculty.
EDUCATION

594: Special Topics (3)
Prerequisites: Admission to a degree program and completion of nine semester hours of course work for graduate credit. By arrangement. May be repeated. Various subjects, principally by directed study, discussion, and research.

601: Remedial Reading (3)
Prerequisite: Education 559 or 604. Designed for those who wish to specialize in reading. Includes the nature and cause of reading difficulties, the organization of remedial reading programs, remedial techniques, utilization of teacher aids and learning centers, psychological and health services, innovative methods and materials, and report writing.

602: Physical and Psychological Factors in Reading (3)
Prerequisites: Admission to graduate program in reading, Education 559 or 604, and Education 603. An advanced course designed to acquaint teachers with the physical and psychological factors involved in the reading process, clinical diagnosis, and remediation.

603: Diagnostic and Evaluative Techniques in Reading (3)
Prerequisites: Admission to graduate program in reading, Education 601, and Education 591 or 531. A technical course in diagnosing reading problems. Designed to include procedures in testing, scoring, and evaluation of standardized and informal tests, individual and group tests, physical and psychological tests, and techniques of reporting the test results.

604: Teaching Reading in the Secondary School (3)
A course for teachers in the secondary or in the intermediate schools. Areas studied include: reading in the content areas, reading problems, causes, diagnosis, remediation, skills and speed reading.

605: Teaching Reading to the Culturally Disadvantaged (3)
Prerequisite: Education 559 or 604. A course designed to develop competencies in reading methods for the disadvantaged. Emphasis will be placed upon personal commitment and ability with the disadvantaged child, methods, techniques, innovative designs for teaching, problem areas, linguistic differences, pre-reading skills and the psychological development of the child.

607: Teaching Reading to the Gifted (3)
Prerequisite: Education 559 or 604. A course dealing with the higher levels of reading attainment. Content will include speed reading, critical reading, advanced study skills, intellectual needs of the gifted, and literature and materials for enrichment programs.

608: Practicum in Reading (3 or 6)
Prerequisites: Admission to and completion of graduate program in reading except for practicum. The student will work under faculty supervision in a variety of remedial procedures in the Reading Center with both individuals and groups.

609: Internship in Reading (3)
Prerequisites: Admission to the graduate program in reading, and Education 559, 601 or 602, 603, 604, 605 or 607, and 608. A program of supervised teaching and participation as a reading specialist in a public school system. Emphasis will be given to consultative techniques.

625: Utilization of Educational Technology in Instruction (3)
A consideration of the effective utilization of educational technology in the teaching-learning situation.
636: Techniques of Counseling (3)
Prerequisites: Education 531, 536, 538 or 539. Development of skills, competences, techniques, procedures, and approaches used in counseling.

637: Occupational and Vocational Counseling (3)
Prerequisites: Education 531, 536, 538 or 539. Principles, methods, and techniques of preparing and presenting occupational and vocational information to students at the appropriate educational levels.

638: Organization and Administration of a Guidance Program (3)
Prerequisites: Education 538 or 539. Principles of organizing and administering a guidance program with emphasis on the role and functions of school personnel in various organizational programs, and major services of the adequate guidance program.

639: Practicum in Guidance and Counseling (3)
Prerequisites: Admission to and completion of the graduate program in guidance and counseling except for practicum. Designed for the purpose of application and practice of guidance functions in a school setting.

652: Survey of Special Education (3)
Overview of the field of special education, exceptional children and youth. This course is designed to acquaint prospective teachers with the needs, programs, and problems in the teaching of the exceptional, intellectually, physically, socially, and emotionally handicapped.

653: Remedial Mathematics (3)
Prerequisite: Education 652. A course for those who will teach Special Education classes. Areas covered will include: remedial techniques, methods, materials, teaching designs for the slow learner and the emotionally disturbed, motivation and evaluative procedures.

UNDERGRADUATE COURSES

The following upper level undergraduate courses are acceptable for graduate credit towards the Master of Education degree:

Biology: 311, 342, 344, 412, 413, 441, 445, 448, 462, 464, 471, 473, 481
Business Administration: 312, 412, 433
Chemistry: 331, 332, 336, 337, 422, 432, 441, 445, 461
Geography: 301, 302, 303, 304
German: 361, 362, 405, 406, 409, 411, 420, 425, 526
History: 401, 411, 412, 421, 422, 433, 438, 443, 453, 464, 471, 473
Psychology: 401, 404, 410, 411, 412
Sociology: 302, 308, 382, 411
Spanish: 320, 400, 401, 403, 404, 407, 408, 410, 412
DEPARTMENT OF ENGLISH

Professors Sundell (Chairman), Baxter, S. Brown, Jackson
Associate Professors Garson, Gras, Karlson, Molin, Walls
Assistant Professors L. Brown, Keith, Kelley

Master of Arts in English

The graduate program in English is designed to be sufficiently flexible to provide professional training in the study of English and American literature to students with widely differing aims. Those it should serve primarily may be grouped in the following categories:

1. Persons who wish to become candidates for the doctorate in English at another institution after earning their master’s degrees.
2. Prospective teachers of English in secondary schools and community colleges.
3. Teachers who wish to improve their professional competence.

DEPARTMENTAL ENTRANCE REQUIREMENTS

Applicants must fulfill the general entrance requirements listed on pp. 20-22. Those with undergraduate majors in disciplines other than English are encouraged to apply for admission, but they may be required to make up deficiencies by taking appropriate undergraduate courses without graduate credit. Although the Department does not require letters of recommendation, it will accept as many as three in support of applicants who believe such letters essential to a clear presentation of their qualifications.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pp. 35-36, candidates must satisfy the following departmental requirements:

1. Complete 30 semester-hours of credit in graduate courses in English. Six of these hours may be in approved undergraduate courses, and another six hours may be in Thesis. With the approval of the Department, six hours of graduate credit in courses in related disciplines may be substituted for six hours in English.
2. Pass English 501, Literary Scholarship, normally in the first or second semester of study.

3. Pass a qualifying examination administered by a committee of the Department and developed by that committee in consultation with the student. Each committee will design a specific examination in accordance with the student’s aims and program of study. The student should take the initiative in requesting the Chairman of the Department to establish his examining committee, but in no case should the student delay beyond the semester in which he expects to complete 21 hours of credit.

4. If the student has not already successfully completed 12 hours of undergraduate credit in a foreign language, he must either do so or demonstrate the equivalent proficiency by passing an examination administered by the Department of Foreign Languages.

SAMPLE PROGRAMS

The following sample programs are illustrative, not prescriptive. To develop a program suited to his particular aims, the student should consult with his departmental adviser.

Sample Program for a Student Planning to Continue to the Doctorate

501: Literary Scholarship. [3]
505: Literary Theory and Criticism. [3]
520: Descriptive Linguistics. [3]
540: Studies in Nineteenth Century English Literature. [3]
545: Studies in Twentieth Century English Literature. [3]
565: Seminar in Shakespeare. [3]
575: Seminar in a Major Figure in English Literature After 1800. [3]
599: Thesis. [3, 3]

Sample Program for a Student Planning to Teach in a Secondary School or Community College

501: Literary Scholarship. [3]
510: Proseminar in Literature Instruction. [3]
515: Proseminar in Composition Instruction. [3]
520: Descriptive Linguistics. [3]
540: Studies in Nineteenth Century English Literature. [3]
545: Studies in Twentieth Century English Literature. [3]
565: Seminar in Shakespeare. [3]
580: Seminar in a Major Figure of American Literature. [3]
Sample Program for a Student Desiring to Enhance His Enjoyment of Literature

501: Literary Scholarship. [3]
525: Studies in English Medieval Literature. [3]
530: Studies in English Renaissance Literature. [3, 3]
540: Studies in Nineteenth Century English Literature. [3]
565: Seminar in Shakespeare. [3]
575: Seminar in a Major Figure of English Literature after 1800. [3]

UNDERGRADUATE COURSES

The following undergraduate courses have been approved for graduate credit. Catalog descriptions appear in the Undergraduate Catalog.

English 442: Studies in English and American Literary Topics, Periods or Genres
English 444: Selected Major English and American Writers Before 1900
English 446: Selected Major English and American Writers of the Twentieth Century
English 451: Introduction to Literary Criticism

Graduate Courses

501: Literary Scholarship. (3)
The methods and purposes of literary research, including study of library methodology, use of critical bibliographies, techniques of textual criticism, and the evaluation of various approaches to literary history.

505: Literary Theory and Criticism. (3)
The major theories of literature and methods of analyzing and evaluating literary works.

510: Proseminar in Literature Instruction. (3)
The methods of teaching literature. Includes the study of various methods of literary analysis and of the most effective ways of developing student responses to literature, with some classroom practice.

515: Proseminar in Composition Instruction. (3)
The methods of teaching expository writing. Includes consideration of the planning of courses, practice in teaching and in grading papers, and study of the laboratory method of instruction.

520: Descriptive Linguistics. (3)
An introduction to the terminology and methodology of modern linguistic science, and a detailed structural analysis of English phonology, morphology, and syntax.
525: **Studies in English Medieval Literature. (3)**
Selected literary authors, works, or movements, generally excluding Chaucer, from between 1300 and 1500, studied in Middle English. Specific content will vary from semester to semester and will be announced before registration. A maximum of six hours may be earned.

530: **Studies in English Renaissance Literature. (3)**
Selected literary authors, works, or movements, generally excluding Shakespeare and Milton, of the English Renaissance. Specific content will vary from semester to semester and will be announced before registration. Recent examples are *Renaissance Tragedy* and *Seventeenth-Century Prose*. A maximum of six hours may be earned.

535: **Studies in Eighteenth Century English Literature. (3)**
Selected English literary authors, works, or movements of the eighteenth century. Specific content will vary from semester to semester and will be announced before registration. A recent example is *Sexual Motifs in Eighteenth Century Poetry, Prose, and Drama*. A maximum of six hours may be earned.

540: **Studies in Nineteenth Century English Literature. (3)**
Selected English literary authors, works, or movements of the nineteenth century. Specific content will vary from semester to semester and will be announced before registration. Recent examples are *Major Victorian Poets and Novels of Maturation*. A maximum of six hours may be earned.

545: **Studies in Twentieth Century English Literature. (3)**
Selected English literary authors, works, or movements of the twentieth century. Specific content will vary from semester to semester and will be announced before registration. A recent example is *The "Theatre of Cruelty" in Recent British Drama*. A maximum of six hours may be earned.

550: **Studies in Seventeenth and Eighteenth Century American Literature. (3)**
Selected literary authors, works, or movements of colonial and early federalist America. Specific content will vary from semester to semester and will be announced before registration. A maximum of six hours may be earned.

555: **Studies in Nineteenth Century American Literature. (3)**
Selected American literary authors, works, or movements of the nineteenth century. Specific content will vary from semester to semester and will be announced before registration. A maximum of six hours may be earned.

560: **Studies in Twentieth Century American Literature. (3)**
Selected American literary authors, works, or movements of the twentieth century. Specific content will vary from semester to semester and will be announced before registration. A recent example is *Literature of the Twenties*. A maximum of six hours may be earned.

565, 566: **Seminar in Shakespeare. (3,3)**
Intensive study of the achievement of Shakespeare and the major critical approaches to his work. English 565 concentrates on the comedies; 566 concentrates on the tragedies.

570: **Seminar in a Major Figure of English Literature Before 1800. (3)**
Intensive study of the work of a major figure of English literature between 1066 and 1800. Specific content will vary from semester to semester and will be announced before registration. Recent examples are *Chaucer and Milton*. A maximum of six hours may be earned.
ENGLISH

575: Seminar in a Major Figure of English Literature After 1800. (3)
Intensive study of the work of a major figure of English literature since 1800. Specific content will vary from semester to semester and will be announced before registration. A recent example is Wordsworth. A maximum of six hours may be earned.

580: Seminar in a Major Figure of American Literature. (3)
Intensive study of the work of a major figure of American literature. Specific content will vary from semester to semester and will be announced before registration. A recent example is Mark Twain. A maximum of six hours may be earned.

599: Thesis. (3,3)
DEPARTMENT OF HISTORY

Professor Cassara (Chairman), Boothe
Associate Professors Cavanaugh, Harsh, Moseley, Pugh, Saeed.
Spence, Spindler
Assistant Professors Gleissner, Jensen, Pacheco, Soder

Master of Arts in History

This program is designed to help students achieve a greater understanding of the discipline of history and to master the methodology of the historian. Since this is a research oriented program, it can be useful to students who plan to become candidates for the Ph.D. at another institution.

Students may concentrate on the history of the United States, Europe or Latin America.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, applicants for the Master of Arts degree in History should have majored in history at the undergraduate level. Students with undergraduate majors in fields other than history may be admitted, if their records demonstrate strong background in history and studies closely related to it. The Department may require that undergraduate deficiencies be made up in courses without graduate credit.

Other Requirements:

1. Satisfactory scores in the Graduate Record Examination, including the area examination in history.
2. Two letters of recommendation from professors of history with whom the applicant has studied or from others directly familiar with his professional competence.
3. Language proficiency, where appropriate to the student’s field of concentration, may be required as a prerequisite for admission to the program. (See general language requirements under Departmental Degree Requirements below.)

DEPARTMENTAL DEGREE REQUIREMENTS

The candidate for the Master of Arts degree in History must complete successfully the following:

1. Three credits in History 500 (to be taken within the first nine hours of course work).
HISTORY

2. Twelve credits in a field of concentration; fields of concentration presently offered are U.S. history, Latin American history, and European history. These credits must include three hours in a research seminar chosen from History 509, 511, 512 (U.S.); 521, 522 (Latin America); or 531, 532 (Europe).

3. Nine credits in a second field in history.

4. Study of a foreign language (completion of a college-level intermediate course or the equivalent). This requirement may be met by proficiency examination administered by the Department of Foreign Languages. (Such an examination must be passed successfully before a student will be allowed to complete more than 15 credit hours of course work.)

5. A comprehensive examination administered by the faculty. (The examination will cover the student’s area of concentration and one other field in history.)

6. Six credits in History 590, a thesis in the student’s field of concentration.

The Master of Arts degree in History requires a minimum of 30 hours of graduate credit.

Master of Arts in Teaching (History)

The program leading to the degree of Master of Arts in Teaching is designed to help teachers extend their knowledge of bibliography and current trends in historical thinking and to improve their effectiveness in presenting history in the classroom. Narrow specialization is avoided by allowing great latitude in choice of courses. Study in the methodology of teaching social studies is included in the program.

The Master of Arts in Teaching is a terminal degree.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, applicants for the degree of Master of Arts in Teaching should have majored in history. Applicants with undergraduate majors in fields other than history may be admitted if their records demonstrate strong background in history and studies closely related to it. The Department may require that undergraduate deficiencies be made up in courses without graduate credit.
Other Requirements

1. Satisfactory scores in the Graduate Record Examination, including the area examination in history.
2. Two letters of recommendation from professors of history with whom the applicant has studied or from others directly familiar with his professional competence.

DEPARTMENTAL DEGREE REQUIREMENTS

The candidate for the Master of Arts in Teaching must successfully complete the following:

1. Twenty-four credits in history, including three credits in History 500 (to be taken within the first nine hours of course work.)
2. Twelve credits in education, including Education 567 and 583.
3. A comprehensive examination administered by the faculty.

The candidate, if he intends to teach at the secondary level, must also qualify for the Virginia College Professional Certificate (or its equivalent) in history.

The Master of Arts in Teaching degree requires a minimum of 36 hours of graduate credit.

UNDERGRADUATE COURSES

The following upper-division undergraduate courses have been approved for graduate credit. Catalog descriptions appear in the Undergraduate Catalog.

401: Colonial America. [3]
406: Civil War and Reconstruction. [3]
411: Cultural and Intellectual History of the U.S.: 1600-1865. [3]
412: Cultural and Intellectual History of the U.S. Since 1865. [3]
421: Intellectual and Cultural History of Europe, 1715-1848. [3]
422: Intellectual and Cultural History of Europe, 1848 to the Present. [3]
433: The United States in the Twentieth Century. [3]
438: Spanish Borderlands. [3]
441: France Since the Revolution. [3]
443: History of Spain and Portugal. [3]
453: History of Mexico. [3]
463: The Early History of the Indo-Pakistan Subcontinent. [3]
464: Modern India and Pakistan. [3]
471: Modern China. [3]
473: Modern Japan. [3]
HISTORY

Graduate Courses

500: The Study and Writing of History. (3)
The methodology of the historian, including techniques of research, use of documentation and other sources, development of bibliography, synthesis of material.

A study of the evolution of those elements in colonial society which continue to affect contemporary American institutions and patterns of behavior.

503: The Enlightenment in America. (3)
A study of the Enlightenment as it was reflected in various aspects of American life in the 18th and early 19th centuries: government, science, philosophy, religion, education, and the arts. The writings of leading figures of the period will be examined and the impact of the Enlightenment on the development of the new American nation will be analyzed.

505: Attempts to Control the U.S. Westward Movement. (3)
A study of attempts by the East to control the West, how and by whom control was attempted, to what extent it was effective, to what extent the need for such control existed, and in what manner the West resisted Eastern domination.

507 (543): Interpretations in United States Diplomatic History. (3)
Diplomatic problems and interpretations of diplomatic changes in the course of the development of the United States as a world power. Analyses of the administration of American foreign policy and its relationship to national interests.

509: Seminar in State and Local History. (3)
An exposition of the principles and techniques of local history followed by an intensive investigation of selected aspects of the history of Fairfax County and northern Virginia utilizing area manuscript collections.

510: Race in American Life and Thought. (3)
An historical examination of the nature of American attitudes toward non-whites and of the impact of these attitudes on American life and thought. Emphasis will be placed on the origins of American views of race and their effect on our national experience.

511, 512: Research Seminar in United States History. (3,3)
Prerequisite: Permission of instructor. Research in specialized topics using primary sources.

513: Topics in the American Civil War Era. (3)
A joint project, undertaken by instructor and students, into the various aspects of a common topic in the Civil War era; includes emphasis on historiography and historical method.

515: Problems in American History. (3)
Readings and discussion of bibliographies, interpretations, and research trends in topics selected by the instructor. A maximum of six hours may be earned.

518: Latin American Cultural and Intellectual History, Nineteenth Century. (3)
Iberian background and other foreign influences; ideas of the independence leaders; mid-century Romanticism, Liberalism, and Traditionalism; secular and religious Positivism; and Marxist socialism. Intellectual developments traced in major Latin American thinkers, writers, and artists.

http://catalog.gmu.edu
520: Social Revolution in Latin America. (3)
An analysis of the revolutionary forces that are challenging traditional institutions and transforming all aspects of society in contemporary Latin America. Selected countries will be studied in depth either because of their importance in the hemisphere or because they represent the outstanding problems of the region.

521, 522: Research Seminar in Latin American History. (3,3)
Prerequisite: Permission of instructor. Research in specialized topics using primary sources.

525: Problems in Latin American History. (3)
An analysis of selected problems in Latin American history. Emphasis will be placed upon reading and discussion of historical interpretations and the development of bibliography. A maximum of six hours may be earned.

531, 532: Research Seminar in European History. (3,3)
Prerequisite: Permission of instructor. Research in specialized topics using primary sources.

535: Problems in European History. (3)
An investigation of selected problems in the history of Europe. Readings, discussions, development of bibliographies. Where possible, primary sources will be utilized. A maximum of six hours may be earned.

537: Great Britain: Empire to Commonwealth, 1870-1970. (3)
An examination of the rise of the "new imperialism" in Great Britain from 1870 to the end of the empire and the gradual formation of the Commonwealth of Nations.

539: Western Europe, 1750-1914: Aspects of the Transition from Old Regime to Modern State. (3)
An analysis of Enlightenment, revolutionary, and modernizing factors in the development of western European states, 1750-1914, with emphasis on Britain, France, and Germany.

545: The Russian Revolution and the Origins of the Soviet State. (3)
A study of the period between 1890 and 1924 with concentration on the sources of Bolshevism, the problems of the old regime as they led up to the revolutions of 1905 and 1917, the establishment of the new regime and its survival in an environment of foreign and civil war.

551: The Cultural History of Islam. (3)
Religion, art, architecture, and literature of the Arabs, the Persians, the Moors of Spain, the Timurids of Central Asia, the Mughals of India and Pakistan, and the Turks. Some important political and cultural movements in different parts of the Islamic World will also be discussed.

555: Problems in Asian History. (3)
Problems to be investigated will be announced by the instructor of the course. The class will discuss readings and historical interpretations and will compile a comprehensive bibliography on the given theme. A maximum of six hours may be earned.

581: Directed Reading. (3)
An individual reading course on a topic agreed to by a student and a faculty member.

582: Directed Reading. (3)

590: Thesis. (6)
DEPARTMENT OF MATHEMATICS

Associate Professors Oppelt (Chairman), Cabell, Draper, Kiley, Papp
Assistant Professors Bolstein, Childress, Dorey, Fisher, Saperstone,
Seidman, Sennott, Shaw

Master of Science in Mathematics

The mathematics graduate program is designed to serve those who
seek a Master of Science degree as well as those who wish to improve
their professional skills. In order to make it convenient for working
people to attend, graduate courses are offered only in late afternoon
and evening hours. The Department offers a variety of courses in
modern applied mathematics and operations research, in addition to
the standard curriculum in pure mathematics. The courses are
designed to train students in areas relevant to the needs of business,
industry, and government, as well as to provide the background for
advanced graduate work in the mathematical sciences and for
continuing education in the teaching profession. The University has a
Unitech terminal on campus with access to a CDC 6400 and an IBM
360.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements, appli­
cants for the master’s degree in mathematics must have:

A bachelor’s degree from an accredited institution.
A grade point average of 2.75 on a 4.0 scale in the last two years of
undergraduate work, or exceptional compensatory qualifications.
Satisfactory scores in the Graduate Record Examination (GRE).
Three letters of recommendation.

Undergraduate courses in Mathematics similar to those of George
Mason University: Math 315, 316—Advanced Calculus; Math 321—
Abstract Algebra, Math 322—Linear Algebra. The course Intermedi­
ate Analysis and Algebra presents the highlights of these prerequisite
courses and develops the skills necessary to enable a student to enter
courses at the graduate level.
DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements, the candidate for the Master of Science degree in mathematics must:

Complete no less than 30 hours of graduate work with a grade average of 3.0 or better.

Attend two semesters of seminar or write a thesis. No more than six credit hours will be allowed for the thesis.

Pass a comprehensive examination.

UNDERGRADUATE COURSES

The following upper division undergraduate courses have been approved for graduate credit. Catalog descriptions appear in the Undergraduate Catalog.

443, 444: Deterministic Models in Operations Research. [3, 3]
446, 447: Numerical Analysis and Digital Computation. [3, 3]

Graduate Courses

A double number separated by a comma (Mathematics 515, 516) indicates that the course extends throughout two semesters of a session and that the first semester is a prerequisite to the second. The prerequisite may be waived by the Department Chairman.

503, 504: Intermediate Analysis and Algebra. (3,3)
Development of the number system and linear algebra. The highlights of the calculus are reviewed and then developed in terms of metric spaces. Credits for this course are not applicable toward the thirty credit requirement of the M. S. in Mathematics, but can be counted toward the Master of Education degree.

511, 512: Complex Analysis. (3,3)

513, 514: Ordinary Differential Equations. (3,3)

515, 516: Real Analysis. (3,3)

521, 522: Algebra. (3,3)
Groups, rings, fields, category theory. Galois theory.
MATHEMATICS

531, 532: Point Set Topology. (3,3)
Topological spaces, connectedness, compactness, compactifications, uniform spaces, function spaces.

534: Homotopy Theory. (3)
Homotopy theory including the fundamental group, higher groups and exact sequences.

536: Homology Theory. (3)
Homology theory including simplicial homology theory, exact sequences, fixed point theorems.

537, 538: Non-Euclidean Geometry. (3,3)
Prerequisite: Permission of instructor. Affine, projective, hyperbolic, elliptical, and differential geometry; transformations and elementary combinatories.

543, 544: Mathematical Programming. (3,3)
Prerequisites: Mathematics 444 or the equivalent. Cutting plane, branch and bound algorithms for integer programming, optimization of convex functions subject to constraints, dynamic programming, and applications to problems in the management sciences.

551: Probability Theory. (3)
Axioms for a probability space, conditional probability, random variables, distribution functions, moments, characteristic functions, modes of convergence, limit theorems.

552: Applied Probability. (3)
Prerequisites: Mathematics 551 or the equivalent. Poisson processes, renewal theory, Markov chains, Semi-Markov processes, Markov decision processes. Applications to population models, queues, minimal cost decision making.

561, 562: Systems Optimization and Control. (3,3)
Prerequisites: Mathematics 551 or the equivalent. Systems of linear differential equations, optimization of linear dynamical systems, controllability and optimal control of linear systems, Gauss-Markov processes, Kalman filtering. Applications to networks, aero-space, information processing.

581, 582: Stochastic Models in Operations Research. (3,3)
Prerequisites: Mathematics 551, 552 or the equivalent. The formulation of mathematical models which characterize the behavior of complex systems arising in such areas as business management, transportation, environment and ecology, arms control and disarmament.

591, 592: Seminar. (2,2)

599: Thesis. (1-6)
Original or compulsory work to be evaluated by a committee of three faculty members.
DEPARTMENT OF PSYCHOLOGY

Assistant Professor Mellinger (Chairman)
Professors Jordan, Mandes
Associate Professors Altman, Cooper, Moretz
Assistant Professors Buffardi, Cohen, Gessner, McKeithen, Pasnak, Peng, Sanford, Tyer
Acting Assistant Professors Gurkaynak, Madero, Walters
Lecturers Crowe, Meister

Master of Arts in Psychology

This program offers students the opportunity to undertake graduate education in psychology and offers specialization in four possible areas: a) psychological tests, measurements, and assessment in clinical psychology; b) psychological tests, measurements, and assessment in developmental psychology; c) psychological tests, measurements, personnel selection and assessment in industrial psychology; and d) general experimental psychology. Students will then have the option of continuing their education toward the attainment of a doctorate at another university or seeking employment in the area of their specialization.

The program requires a minimum of 41 hours in the clinical or developmental psychology specialization, 30 hours in the industrial or general experimental psychology specialization. All graduate courses in psychology are offered in the evening.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, students specializing in psychological tests, measurement, and assessment in the clinical, developmental, or industrial areas will normally be expected to have a baccalaureate degree in psychology including courses in psychological statistics, experimental psychology, and psychological tests and measurements. Students with undergraduate majors in fields other than psychology may be admitted to the assessment specialties if they submit at least 15 undergraduate hours, including the courses mentioned above.

Applicants for the general experimental specialty will be considered on an individual basis. Although applicants will normally be expected to have studied statistics and experimental psychology, these courses are not required for admission to the program. Qualified students who did not major in psychology are encouraged to apply. Experience,
PSYCHOLOGY

publications, and special recommendations may compensate for course deficiencies. A Miller Analogies Test score may be submitted at the applicant's option.

Three letters of reference from professors of psychology with whom the applicant has studied or from others directly familiar with his professional competence are also required. The Department may also require that undergraduate deficiencies be made up in courses without graduate credit.

DEPARTMENTAL DEGREE REQUIREMENTS

The student must meet all the general requirements for a degree as listed on pp. 35-36. All candidates for the adult and child clinical assessment specializations must complete 41 semester hours of graduate credit, including the following courses: Psychology 501, 502, 503, 504, 511, 528, and 550. In addition, students specializing in adult assessment must complete Psychology 506, 512, and 516, and students specializing in child assessment must complete 508, 517, and 522.

All candidates for the industrial assessment specialization must complete 30 hours including the following courses: Psychology 501, 502, 503, 504, 507, 531, 532, 534, and 590.

All candidates in the general experimental specialization must complete 30 hours including the following courses: Psychology 501, 551, and 590. In addition, Psychology 502 is required if the candidate has not completed an undergraduate course in the history of psychology or in theories and systems of psychology. An additional course in statistics may be required.

With the approval of the department chairman, a maximum of six hours of credit in courses in disciplines related to psychology may be accepted in fulfillment of the requirements for the M.A. in Psychology degree.

UNDERGRADUATE COURSES

The following upper division undergraduate courses have been approved for graduate credit (up to six hours). Catalog descriptions appear in the Undergraduate Catalog.

411: Infant Development
412: Perceptual and Cognitive Development
414: Behavior Disorders of Childhood
420: Clinical Methods in Psychology
421, 422: Practicum in Clinical Psychology
423: Group Psychotherapy Techniques
430: Human Factors Engineering
432: Seminar in Organizational Psychology
## Typical Schedules

### Adult Clinical

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Course Title</th>
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<tr>
<td>1st</td>
<td>503</td>
<td>Exper. Method</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>504</td>
<td>Biological Foundations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>511</td>
<td>Intro. Psych. Assessment Lab</td>
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<tr>
<td>2nd</td>
<td>512</td>
<td>Advanced Assessment</td>
<td>3</td>
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<tr>
<td></td>
<td>515</td>
<td>IQ Testing</td>
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<td></td>
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<td>Lab-Adult</td>
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<tr>
<td></td>
<td>516</td>
<td>General Psychopathology</td>
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<tr>
<td>3rd</td>
<td>502</td>
<td>Advanced General II</td>
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<tr>
<td></td>
<td>506</td>
<td>Theories of Personality</td>
<td>3</td>
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<tr>
<td></td>
<td>528</td>
<td>Psychotherapy</td>
<td>3</td>
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<tr>
<td>4th</td>
<td>501</td>
<td>Advanced General I Elective</td>
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<td>550</td>
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### Child Clinical

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<td>508</td>
<td>Theories of Development</td>
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### General Experimental

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### Industrial

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<td>Industrial and Personnel Testing and Evaluation</td>
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<td>Social Psychology of Industry</td>
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<tr>
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<td>534</td>
<td>Special Problems in Human Factors Engineering</td>
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<tr>
<td></td>
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<td>Thesis</td>
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PSYCHOLOGY

Graduate Courses

501: Advanced General Psychology I. (3)
A critical review of the major topics of experimental psychology: learning, motivation, cognition, perception (the senses), thinking and problem solving.

502: Advanced General Psychology II. (3)
The problematics involved in the definition of psychology as an empirical science will be the core of this course. The influence of philosophy of science will be traced as it affected and still affects psychology as a discipline.

503: Experimental and Research Design. (3)
Prerequisite: Psychology 304, 305, 308, 309 or 311 or equivalents. Advanced experimental design and the relevant statistical analytic techniques will be reviewed. Examples of experiments in various fields of psychology will be studied.

504: Biological Foundations of Psychology. (3)
Prerequisite: Psychology 206 or equivalent. A review of the physiological basis of normal behavior. The effects of physiological changes on behavior, such as pathological and drug-induced changes and those caused by fatigue or malnutrition. Physiological changes concomitant with psychopathology.

506: Theories of Personality. (3)
Prerequisite: Psychology 220 or equivalent. A comparative review of the prevalent theories of personality with special emphasis upon their fundamental models and their similarities and differences.

507: Advanced Social Psychology. (3)
General theories of social psychology will be studied in detail, including those of K. Lewin and F. Heider.

508: Theories of Development. (3)
A survey of the major theories of infant and child development including the works of Piaget, Freud, Erikson, and Spitz.

511: Psychological Assessment. (4)
Prerequisite: Psychology 320 or permission of instructor. A study of the major instruments used in clinical assessment: their nature, problems, and predictive value; administration and scoring of the major techniques for evaluation of personality and organicity; principles of interpretation of these procedures. Three lecture hours, three laboratory hours.

512: Advanced Adolescent and Adult Assessment. (3)
Prerequisite: Psychology 511 or permission of instructor. An advanced course dealing with problems of differential diagnosis of psychoses, character disorders, neuroses and brain damage; assessment problems with adolescents and suicide indicators will also be considered.

515: The Measurement of Intelligence. (4)
Prerequisite: Psychology 320 or permission of instructor. Administration, scoring and interpretation of the major infant, child and adult intelligence tests, with emphasis on individual tests. Development of IQ tests; theories of intelligence; and current trends and developments in intellectual assessment. Three lecture hours, three laboratory hours.
516: General Psychopathology. (3)
An intensive survey of the major types of psychopathological disturbances: the causes, symptoms, and dynamics of neuroses, psychoses, character disorders, and psychosomatic disorders.

517: Child Psychopathology. (3)
An intensive survey of the major types of psychopathological disturbances of infancy and childhood.

522: Advanced Child Assessment. (3)
Prerequisite: Psychology 511 or permission of instructor. The problems involved in the diagnostic assessment of children with various handicapping conditions such as brain dysfunction, learning disabilities, retardation, and emotional disturbances.

528: Psychotherapy Techniques. (3)
A survey of the major individual and group psychotherapeutic techniques currently utilized by clinical psychologists. Emphasis will be on the application of the techniques in clinical practice.

531: Industrial and Personnel Testing and Evaluation. (3)
Prerequisite: Psychology 320. A study of the administration, scoring, and interpretation of the standard tests used by industry for the selection and assessment of personnel.

532: The Social Psychology of Industry. (3)
The problems associated with motivation, job satisfaction, and performance of personnel. Special emphasis on the effects of organizational practices.

534: Special Problems in Human Factors Engineering. (3)
A seminar course reviewing fundamental problems inherent in applying psychological knowledge and techniques to the development of man-man and man-machine systems.

550: Psychological Practicum. (3 or 6)
Practical experience in a clinical setting as assigned.

551: Methodology and Research. (3)
Prerequisite: Psychology 200, 304, 305, 308, 309, or 311 or equivalents. A survey of statistical techniques and experiments in various fields of psychology will culminate in individual experiments exemplifying proper research methods. Advanced experimental design will be reviewed.

554: Naturalistic Methods in Psychology. (3)
Prerequisite: Psychology 200 or equivalent. The theory and techniques involved in studying people in their natural environments will be explored. Primary emphasis will be on quasi-experimental designs and methods of systematic observation.

561: Advanced Animal Learning. (3)
Current research in animal learning including such topics as classical and instrumental conditioning and discrimination learning will be reviewed. Theories of animal learning will also be included.

562: Human Learning and Retention. (3)
Prerequisite: A course in learning or permission of instructor. The literature in verbal learning, transfer, and retention will be reviewed with special emphasis on recent research. Topics to be studied include paired-associate and serial learning, free recall, organization in memory, concept identification, and psycholinguistics.
PSYCHOLOGY

563: Application of Learning Principles. (3)
Prerequisite: A course in learning or permission of instructor. Detailed S-R analyses of specific study methods, intracranial stimulation in humans, selected behavior modification techniques, programmed learning, concept induction in children, and industrial applications of shaping and discrimination techniques.

564: Sensory Processes. (3)
An intensive exploration of the neural foundations of sensory experience, with special emphasis on the processing mechanisms at different levels of the various sensory pathways.

565: Seminar in Experimental Child Psychology. (3)
Prerequisite: Six hours of child psychology and a course in experimental psychology. The experimental study of child development. Seminar topics will include biogenetic factors in development, sensory processes, learning, perception, motivation, language and cognitive development.

566: Perception. (3)
Prerequisite: A laboratory course in a field of experimental psychology. Important issues related to neurophysiological, sensory, and cognitive aspects of perception will be surveyed. These topics include the general theories of Gibson, Brunswich, and the Gestaltists, and some specialized models developed in recent years, especially information-processing models.

590: Thesis. (3 or 6)

598: Directed Reading. (1)
Prerequisite: Permission of department chairman and instructor. An individual reading course on a topic agreed to by a student and a faculty member. May be repeated once. Not to be taken by students who also enroll in Psychology 590.

599: Directed Research. (2)
Prerequisite: Permission of department chairman and instructor. Individual research on a topic agreed to by a student and a faculty member. May be repeated once. Not to be taken by students who also enroll in Psychology 590.
DEPARTMENT OF FOREIGN LANGUAGES

Associate Professor Elstun (Chairman)

Spanish Faculty:
Associate Professors Aguera, Font, Garcia
Assistant Professors Brooks, Bufill, Hazera
Instructor Urso

Master of Arts in Spanish

This program offers courses in the Spanish language, literary theory and criticism, and Spanish and Spanish-American literature, culture and civilization. The degree may be terminal for those planning to teach at the secondary and community college levels, or it can provide sound preparation for students who plan to continue towards the Ph.D. at another institution.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pp. 20-22, applicants are expected to have a B.A. degree with a major in Spanish, although students with majors in related fields who know the language are encouraged to apply. The Department may require that undergraduate deficiencies be made up in courses without graduate credit.

Other Requirements:

1. A grade point average of 2.75 on a 4.00 scale in the last two years of undergraduate work or compensatory qualifications.
2. Satisfactory scores on the Graduate Record Examination (though no student will be denied admission on the basis of test scores alone).
3. Two letters of recommendation from professors of Spanish with whom the applicant has studied or from others directly familiar with his professional competence.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pp. 35-36, the candidate must meet the following departmental requirements:

1. Completion of 30 hours of course work, including Spanish 500 and Spanish 515. Six of the 30 hours may be earned in a related
SPANISH

field (e.g., Latin American history), and six may, at the student’s option, be earned in Spanish 590 (Thesis). If a student elects not to write a thesis, his program must include at least two seminars (Spanish 520 and above) in which substantial research papers are required.

2. Satisfactory performance on a written comprehensive examination.
3. Reading proficiency in one other foreign language, as demonstrated in a departmentally administered examination.

UNDERGRADUATE COURSES

Up to six of the student’s 30 hours of course work may be earned in the following upper-division undergraduate courses, which have been approved for graduate credit. Catalog descriptions appear in the Undergraduate Catalog.

320: Linguistics of the Spanish Language. (3)
400: Stylistics. (3)
401: Latin American Poetry. (3)
403, 404: Contemporary Spanish Literature. (3, 3)
407, 408: Latin American Novel and Short Story. (3)
410: Cervantes. (3)

Graduate Courses

Spanish 500: History of the Spanish Language. (3)
A scientific study, applying the concepts of transformational-generative grammar to the description and evolution of the structure of the Spanish language.

Spanish 505: Applied Spanish Stylistics. (3)
A study of creative writing, its form and expression, through text analysis from two or more selected genres: novel, essay, drama, short story and poetry. Practice in creative writing through exercises, compositions and workshops.

Spanish 510: Phenomenology of Language. (3)
A study of modern theories of language: language and existence, language and thinking, language as the giver of meaning, language as a mode of culture. Authors such as Heidegger, Ricoeur and Merleau-Ponty will be studied.

Spanish 515: Literary Theory and Criticism. (3)
Study of the nature of the literary work; analysis of contemporary critical approaches to Hispanic literature.

Spanish 520: Seminar in Medieval Spanish Literature. (3)
An intensive study of a major work or of the drama or poetry of this period. Specific content of the course will be announced before registration.

Spanish 525: Seminar in Renaissance Literature. (3)
Study of a literary movement or selected authors of the Spanish Renaissance.
Spanish 530: Seminar in the Literature of the Golden Age. (3)
Study of a literary genre or a major author of Spanish literature of the Golden Age.

Spanish 535: Seminar in Don Quixote. (3)
Intensive study of Don Quixote and the major critical approaches to the work.

Spanish 540: Seminar in Nineteenth Century Literature. (3)
A study of the social, philosophical and aesthetic preoccupations of the nineteenth century as found in the works of major writers.

Spanish 545: Seminar in Twentieth Century Poetry. (3)
Study in depth of a major poet or poets in a particular generation or movement.

Spanish 550: Seminar in Twentieth Century Drama. (3)
Study of major dramatists such as those of the Generation of 1898 (e.g., Benevente) and the contemporary theatre (e.g., Buero Vallejo).

Spanish 555: Seminar in Twentieth Century Prose. (3)
Intensive study of a major writer, theme or movement in the novel or the essay.

Spanish 560: Seminar in Spanish American Poetry. (3)
Study of three or more major poets of a given period. The literary and social atmosphere of the period will be emphasized.

Spanish 565: Seminar in Spanish American Drama. (3)
Study of three or more playwrights who have made a major contribution to the development of the theatre. Special attention will be given to social and philosophical themes.

Spanish 570: Seminar in Spanish American Prose. (3)
Study of a selected theme, movement or author in the novel, short story or essay.

Spanish 575: Seminar in Literature and Art. (3)
A comparative analysis of a literary theme or style in relation to other media (e.g., painting, architecture, film) for an integral understanding of the arts.

Spanish 580: Seminar in Literature and Society. (3)
Intensive study of a literary topic, a genre or selected authors in relation to a given economic, social or political system in Spain or Latin America.

Spanish 585: Seminar in Literature and Ideas. (3)
A study of major ideological-philosophical themes and their artistic expression in literature.

Spanish 590: Thesis. (3,3)
Individual research and writing of a thesis under the guidance and supervision of a faculty member.
University Directory

RECTOR AND VISITORS

John C. Wood
Rector

Richard A. Bishop ......................................................... Alexandria
Elias Blake, Jr. ............................................................. Reston
Harriet F. Bradley (Secretary) ......................................... McLean
Anita L. Capps ............................................................. Arlington
Alvin E. Conner, M.D. ..................................................... Manassas
A. George Cook, III ....................................................... Alexandria
John J. Corson .............................................................. Arlington
William C. Frogale ....................................................... Falls Church
John T. Hazel, Jr. (Vice Rector) ........................................ Fairfax
Carl V. Lyon ................................................................. Annandale
John W. Macy, Jr. ........................................................... McLean
Warren Joseph Pace ...................................................... Falls Church
Lutrelle Fleming Parker, Sr. ............................................ Arlington
Lester G. Sturgill ........................................................... Leesburg
Currell Hunton Tiffany .................................................. Warrenton
GRADUATE SCHOOL

Dean

William Scott Willis .................... Dean of the Graduate School and Professor of French
B.A., M.A., Doct. Univ. (Paris)

Graduate Council

Howard Ruben Bloch ..................... Associate Professor of Economics
A.B., Duke University, 1958; Ph.D., Princeton University, 1964.

Robert Francis Cozzens ................ Associate Professor of Chemistry
B.S., University of Virginia, 1963; Ph.D., University of Virginia, 1966.

Frederick James Dorey .................. Assistant Professor of Mathematics

Robert Wendell Eaves ..................... Professor of Education
A.B., University of North Carolina, 1928; M.A., George Washington University, 1933; Ed.D., George Washington University, 1940.

Maria Teresa Font ....................... Associate Professor of Spanish
Licenciado en Filosofía y Letras, Universidad de Oriente, 1960; Ph.D., University of Maryland, 1969.

James Louis Jackson ....................... Professor of English
A.B., University of Illinois, 1938; M.A., University of Illinois, 1940; Ph.D., University of Illinois, 1949.

Ronald Jacob Jensen ...................... Assistant Professor of English

Robert Charles Krug (ex officio) ...... Professor of Chemistry, Provost
B.S., University of Richmond, 1940; M.S., Pennsylvania State University, 1941; Ph.D., Ohio State University, 1944.

Eugenie Vorburger Mielczarek ............ Professor of Physics
B.S., Queens College, 1953; M.S., Catholic University, 1957; Ph.D., Catholic University, 1963.
Robert Pasnak .......................... Assistant Professor of Psychology  
B.S., University of Maryland, 1964; M.S., Pennsylvania State University, 1966; Ph.D., Pennsylvania State University, 1969.

Hale Nuckolls Tongren .......................... Associate Professor of Business Administration  

James Robert Wall .......................... Associate Professor of Biology  
B.S., Virginia Polytechnic Institute, 1951; Ph.D., Cornell University, 1955.

William Scott Willis (Chairman) .................. Professor of French, Dean of the Graduate School  
B.A., University of Virginia, 1942; M.A., University of Virginia, 1947; Doctorat de l'Universite, University of Paris, 1951.

Department Chairmen

Biology

Michael Gordon Emsley ........... Chairman of the Department and Professor of Biology  
B.Sc., Imperial College of Science and Technology, 1953; A.R.C.S. Associateship of Royal College of Science, 1953; Ph.D., University of London, 1964.

Business Administration

Richard Lord Seely ............ Acting Chairman of the Department and Assistant Professor of Business Administration  

Economics

William Pennington Snavely ........ Chairman of the Department and Professor of Economics  
B.A., University of Virginia, 1941; Ph.D., University of Virginia, 1950.
Education

James Max Snyder .................... Chairman of the Department and Professor of Education
B.S.Ed., West Virginia University, 1935; M.A., West Virginia University, 1939; Prof. Cert., American University, 1966; Ed.D., American University, 1967.

English

Michael Gordon Sundell ............... Chairman of the Department and Professor of English
B.A., Hamilton College, 1956; M.A., Yale University, 1958; Ph.D., Yale University, 1962.

History

Ernest Cassara ......................... Chairman of the Department and Professor of History
A.B., Tufts College, 1952; B.D., Tufts University, 1954; Ph.D., Boston University, 1957.

Mathematics

John Andrew Oppelt .................... Chairman of the Department and Associate Professor of Mathematics
A.B., Loyola College, 1959; M.S., University of Notre Dame, 1961; Ph.D., University of Notre Dame, 1965.

Psychology

Jeanne Cummins Mellinger ............ Chairman of the Department and Assistant Professor of Psychology
B.A., Swarthmore College, 1948; Ph.D., University of Chicago, 1952.

Spanish

[Department of Foreign Languages]

Esther Niew Elstun .................... Chairman of the Department and Associate Professor of German
ADMINISTRATION

PRESIDENT'S OFFICE

Vergil H. Dykstra, Ph.D. ........................................... President
† Sheppard B. Kominars, Ph.D. ................... Vice President for Planning
and Program Development
Louise F. Lowe, M.A. ...................... Executive Assistant to the Board
and Special Assistant to the President

ACADEMIC AFFAIRS

Robert C. Krug, Ph.D. ........................................... Provost
Leon E. Boothe, Ph.D. ............................................ Dean of the College of
Arts and Sciences
Clayton M. Schindler, Ph.D. ...................... Dean of the College of
Professional Studies
William S. Willis, Doct. Univ. (Paris) ..... Dean of Graduate School
William C. Johnston, Ph.D. ...................... Dean of the Summer Session
Ralph C. Baxter, Ph.D. ............................. Associate Provost
Helen S. Garson, Ph.D. ............................. Assistant to the Dean,
College of Arts and Sciences
Robert T. Hawkes, Jr., M.A. .............. Director of Extended Studies

FINANCIAL AFFAIRS

Henry P. Adams, B.S. ................................. Comptroller
John R. Hiltenbrand, B.S. ....................... Director of Personnel

STUDENT AFFAIRS

Robert A. Turner, M.A.T. ....................... Dean of Students
Charles A. Repp, Ed.D. ............................. Director of Financial
Aid and Placement
Kenneth E. Bumgarner, M.A. .................. Assistant Director of
Student Personnel Services

ADMISSIONS AND RECORDS

Louis J. Aebischer, Ed.S. .......................... Director of Admissions
* Lewis C. Jones, M.S.T. .......................... Assistant Director of
Admissions
Michael J. McDermott, Jr., Ph.L. ................. Registrar

† Effective July 1, 1974.
* On Leave September 1, 1973 - August 31, 1974
COUNSELING

Walter J. Moretz, Jr., Ph.D. ...................... Director of University Counseling and Psychological Services Center

CHARLES ROGERS FENWICK LIBRARY

Patrick J. Larkin, M.S.L.S. ......................... Library Director
Richard B. O'Keefe, M.S.L.S. ................... Assistant Library Director

PUBLICATIONS, DEVELOPMENT, AND INFORMATION

J. William Gephart, M.S.B.A. .................. Director of Publications and Development
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Summer Session Dean, Summer Session

Veterans Affairs Registrar

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4400 University Drive
Fairfax, Virginia 22030

Phone numbers [Use area code 703]:

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