THE 1971-1972
GRADUATE CATALOG
GEORGE MASON COLLEGE
of the
University of Virginia

Published July 1, 1971
Fairfax, Virginia
22030
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GENERAL INFORMATION

Calendar
Correspondence Directory
Statement of Purpose
History of George Mason College
History of the University
### Session of 1971-72

#### First Semester

**Tuesday, August 31**  
Preregistered students pick up assigned schedules in Recorder's Office

**Wednesday, September 8**  
Graduate Registration

**Monday, September 13**

**Tuesday, September 14**  
First day of classes

**Monday, September 20**  
Last day for adding new courses

**Friday, October 22**  
Last day for dropping a course without incurring a grade of F

**Wednesday, November 24**  
Last day for June Degree Applications

**Friday, November 12**  
Patriot’s Day

**Thursday, November 25**  
Thanksgiving recess

**Sunday, November 28**

**Wednesday, December 1**  
Second semester schedule of classes may be obtained at Receptionist’s desk

**Thursday, December 16**  
Students see Adviser and file pre-registration request in Recorder’s Office

**Friday, December 17**

**Saturday, December 18**  
Christmas Recess

**Sunday, January 2**

**Tuesday, January 11**  
Pre-registered students pick up assigned schedules

**Wednesday, January 12**  
Reading Day

**Thursday, January 13**  
Examinations

**Friday, January 21**

#### Second Semester

**Tuesday, February 1**  
Registration for students who did not pre-register and new students

**Wednesday, February 2**  
First day of classes

**Wednesday, February 9**  
Last day for adding new courses for all students

**Thursday, March 16**  
Last day for dropping a course without incurring a grade of F

**Saturday Noon, March 25**  
Spring Recess

**Sunday, April 2**

**Monday, April 3**  
Last day for Summer Degree Applications

**Friday, April 14**  
George Mason Day

**Friday, April 28**  
Applications for renewal of scholarships and loans due

**Monday, May 1**  
First semester schedule of classes may be obtained at Receptionist’s desk
**GENERAL INFORMATION**

**Thursday, May 11 through** Students see Adviser and file pre-registration request in Recorder's Office

**Friday, May 12**

**Monday, May 15** Masters' Theses Due in Office of Graduate Dean

**Monday, May 22 through** Examinations

**Tuesday, May 30**

**Sunday, June 4** Commencement

**Summer Session 1972**

**Monday, June 12** First Term Begins

**Thursday, July 13** First Term Ends

**Tuesday, July 18** Second Term Begins

**Thursday, August 17** Second Term Ends

*These dates are tentative; details and final dates for the Summer Session are published in a separate bulletin.

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### 1971

<table>
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<th>OCTOBER</th>
<th>NOVEMBER</th>
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### 1972

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http://catalog.gmu.edu
Correspondence Directory

Inquiries to the College should be addressed as indicated below

Admissions .......................... Graduate Admissions Office
Biology Program ........................ Department Chairman
Catalog .................................. Graduate Admissions Office
Graduate Studies ........................ Graduate Dean
Education Programs ........................ Department Chairman
Financial Aid and Placement .................. Director
Financial Matters ........................ Business Manager
Graduate Teaching and Research Assistantships .... Graduate Dean
History Program .......................... Department Chairman
Mathematics Program ........................ Department Chairman
Student Affairs .......................... Dean of Students
Summer Session ........................ Dean of Summer Session
Transcripts ................................ Recorder

GEORGE MASON COLLEGE, FAIRFAX, VIRGINIA 22030

Visitors are always welcome at the College, and prospective students are especially encouraged to visit the campus, preferably while the College is in session. Administrative offices are open Monday through Friday, but hours vary, and it will be best to make appointments in advance.
George Mason College, as a branch of the University of Virginia, subscribes to the Statement of Institutional Purpose adopted by the University in 1964; thus, the College strives to be "a community of scholars having as its central purpose the enrichment of the human mind by stimulating and sustaining a spirit of free inquiry directed to an understanding of the universe and man's role within it." George Mason College is dedicated to the instruction of all qualified students, to the advancement of knowledge, and to the provision of public service especially to the communities of Northern Virginia. The major concern of the College is the student, for whom it tries to provide a free and stimulating academic atmosphere for intellectual growth. The College also provides experiences which are intended to arouse the student's intellectual curiosity, sharpen his awareness of the possibilities of life and deepen his understanding of himself and his world. It also affords him an opportunity to prepare for a responsible role in society. The College, well aware of the rapidity of change, seeks, by constant re-examination of its methods and goals, to provide the most meaningful education possible for its students.
George Mason College is the outgrowth of an extension center for higher education established in Northern Virginia in 1948 by the University of Virginia. In 1956 the University’s Board of Visitors 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 of the University. The first four buildings opened September, 1964.

In March, 1966, the General Assembly authorized George Mason to become 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, and graduate programs began in September, 1970.

In an attempt to meet the State’s long-range mandate, the 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.

The Master Plan for George Mason College, approved in 1968, provides for a University of 15,000 by 1985. The University will be divided into six semi-autonomous colleges each with about 2,500 students. Each college will have a particular academic emphasis and will contain classrooms, dormitories and a student center. Certain facilities, such as the library, research laboratories, administrative and athletic centers will be shared by all colleges.

Today George Mason College is planning for its future role as a major center of learning in Northern Virginia.
History of the University

The University of Virginia was chartered by the General Assembly in 1819 under the sponsorship of Thomas Jefferson. It officially opened for instruction on March 7, 1825.

Thomas Jefferson, the University's founder, not only designed and supervised construction of the original buildings and grounds, but interviewed and selected the first faculty and served as first Rector of the Board of Visitors, the governing body of the institution. Other statesmen who served on the Board were James Madison and James Monroe.

Since its opening, the University has prided itself on maintaining a spirit of intellectual freedom and academic excellence. On the eve of the Civil War, the University was second only to Harvard in size of faculty and student body among American universities. The University of Virginia was kept open during the Civil War and Reconstruction, a unique accomplishment among Southern state universities. After the Civil War, it became the first educational institution in the United States to institute an honor system, a system of elective courses and a graduate school of arts and sciences.

During this century, the University has consistently expanded its student enrollment and, during the past 15 years, has established a number of independent graduate and professional schools. To meet an increased demand for advanced education, the University also has founded several colleges in other parts of the state; George Mason College in Northern Virginia is one of these.
CAMPUS AND FACILITIES

Location
Facilities
Student Life
Student Services
Regulations
George Mason College 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; yet the campus is just 16 miles from downtown Washington.
Facilities

THE CAMPUS

The seven buildings on the present George Mason College campus are the nucleus of the future university. The four original buildings, which were opened in September 1964, are linked by covered walkways and grouped around a quadrangle. Since George Mason became a four-year degree-granting institution in 1966, three new buildings have been opened: a lecture hall containing an auditorium and classrooms, a library, and a large classroom building. In addition, illuminated parking facilities have been provided.

Unity of campus architecture is achieved by red brick walls and white linear accents. All the buildings are air conditioned and are of modern design and construction. There are up-to-date laboratory facilities for physical sciences, language laboratories and a closed circuit TV system. A student activities center, temporarily located on the ground floor of the South Building, includes a cafeteria, bookstore and student offices. These facilities essentially complete College I in the long-range plan for George Mason University. The first college is designed to accommodate 2,500 students. Plans are in progress for the initiation of a second college of similar size in 1972.

A physical education building is under construction. Additional facilities now being planned include a student union, an addition to the library, a large academic building for College II, and a greenhouse for biological studies. The Master Plan calls for the completion of six colleges by 1985 on the 570 acre campus. These colleges will be able to provide graduate and undergraduate programs for 15,000 or more students.

LIBRARY

The Charles Rogers Fenwick Library is situated at the southeastern side of the present complex of campus buildings. The building, completed in late 1967, is the first increment of a larger complex planned to provide library services for a rapidly expanding institution. In keeping with its role as the appropriate focus for the dominant intellectual and cultural interests of the College, the building is of classically simple design. At present it is equipped to seat approximately 300 patrons and house approximately 60,000 volumes.

Books are usually selected to support the curricula of the College; however, materials of enduring value and general interest are also acquired.
CAMPUS AND FACILITIES

The present collection includes over 47,000 books and 7,500 bound periodicals as well as over 5,000 pamphlets, maps, and microfilms. Approximately 900 current periodicals are received. The library is also a selective depository for publications of the United States Government.

The College library has become increasingly the laboratory in which much of the student’s work is done—instead of a single volume, the whole library is now his textbook. Independent research projects are encouraged as well as critical or creative work in the expectation that all students will learn to use primary sources. To further widen acquaintance with books, the library at George Mason College utilizes an open-shelf arrangement which permits direct access to nearly all of the books in the collection and encourages browsing or study.

Loan arrangements with the Alderman Library in Charlottesville make it possible to draw on the many volumes of the parent institution. The vast resources of the nearby Library of Congress are open to students interested in specialized fields. Inter-library loans are made from the many libraries in the Washington area. The resources of Virginia’s academic and special libraries, as well as other collections in the United States, are available for rapid loans via teletype service. The library is open ninety hours per week.

Student Life

For information on student life which covers campus activities and athletics, see the Undergraduate Catalog.

Student Services

LIVING ACCOMMODATIONS

A file of housing available in the vicinity of the College for students interested in accommodations is maintained by the College, but the College has no housing facilities of its own at present.

INSURANCE

George Mason College 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

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available to students at George Mason College. This policy provides twenty-four hour coverage including vacation periods. Applications and brochures are available in the Financial Aid and Placement Office.

PLACEMENT SERVICE

For the benefit of the students, the College maintains a job placement office.

COLLEGE COUNSELING CENTER

The 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. The Center is staffed by a professionally trained psychologist. There is no charge for Center services.

HONOR SYSTEM

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, and stealing.

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

Students who enforce the Honor System are not spying; they are in their own eyes and in those of their fellows performing a solemn duty, protecting their individual liberties and the reputation of the student body. If they should fail to investigate suspicious circumstances, they would themselves be guilty of a breach of responsibility and, consequently, of honor.

The Honor Committee is composed of students elected each year by members of the student body. Upon entering the College, all new students attend formal and informal meetings at which students discuss the meaning of the System; smaller groups then meet with members of the Honor Committee who answer individual questions about the System.
CAMPUS AND FACILITIES

Before initial registration at the College is complete, each student is required to sign a card indicating he understands, accepts and will abide by the conditions set forth in the Honor Code. A statement of willingness to comply with the Honor System is also included in the application form for admission to George Mason College.

CAMPUS MINISTRY ASSOCIATION

The Campus Ministry Association is an ecumenical group of clergy and concerned laymen of Judaic-Christian orientation whose objective is to provide opportunities for service as well as religious, educational and social activities for the College community. It is presently sponsored 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 College community. A counseling and seminar room is available in the Library building.

Regulations

CONDUCT

George Mason College 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 opportunity to be heard, involve take overs 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 College assumes an obligation to conduct himself in a manner compatible with the College’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 College the responsibility for maintaining order with the College and the right to exclude those who are disruptive of the educational process. Further amplification of the Standards of Conduct will be found in the Student Handbook.
GEORGE MASON COLLEGE

MOTOR VEHICLES

Students who use the College parking area must register their car(s) with the College Security Office. Such registration includes proof of insurance coverage, valid operator’s license and vehicle state registration card. Each vehicle must display on the left rear bumper the decal obtained for $1.00 from the Security Office at time of registration. If more than one car in a family is to be used by the student, each car must be registered. Decals for the second and subsequent cars are furnished without charge. A copy of campus parking rules is available in the Security Office.

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 College property. Any questions regarding this regulation should be directed to the Campus Security Office.

NON-ACADEMIC EVENTS AND PUBLICATIONS

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

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

CHANGE OF STATUS AND ADDRESS

Each student is required to notify the Recorder 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 Recorder’s Office reserves the right to require a certified copy of documents authorizing such change. Such documents will be kept in the student’s permanent file.
VOLUNTARY WITHDRAWAL

An official application form to withdraw must be obtained from the Recorder's Office, 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 Recorder, the Librarian, Business Office, and if the student is enrolled in a laboratory course, by the chairman of the science department. When complete, the withdrawal form must be deposited with the Recorder.

When a student withdraws 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 College.

ENFORCED WITHDRAWAL

The College may impose enforced withdrawal as a penalty for habitual idleness, or any other fault which prevents the student from fulfilling the purposes of enrollment.
ENTERING THE GRADUATE PROGRAM

Nature of Announcements
Classification of Graduate Students
Admission Requirements
Registration
Fees
Financial Aid
Veterans’ Affairs
Summer Session
Nature of Announcements

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 College authority.

Classification of Graduate Students

The classification of graduate students is as follows:

1. DEGREE STUDENTS: Students who meet all college and departmental entrance requirements and who are either part-time or full-time candidates for a master's degree at George Mason College.

2. NON-DEGREE STUDENTS: Students who hold the baccalaureate degree from an accredited institution and who meet the grade point requirements of the College and of the department in whose courses they wish to enroll, but who are not candidates for a master's degree at George Mason College.

Both degree and non-degree students are subject to the same regulations concerning dismissal and probation.

At course registration, degree students will be given preference over the non-degree students if the number of applicants exceeds the enrollment limits.

Non-degree students may apply for master's degree candidacy at a later date by meeting all the stated entrance requirements.

Admission Requirements

Application should be made to the Graduate Admissions Office of George Mason College on "Application for Graduate Program" forms which are provided upon request. A non-refundable fee of $10.00 must be attached when the completed application form is submitted.

To be assured of consideration, applications for admission to the Graduate Programs at George Mason College should be received at the College no later than: June 1 for the Fall Semester (term); April 1 for the Summer Session; December 1 for the Spring Semester (term).

In general, applicants should have the following:

1. A bachelor's degree from an accredited institution.
2. A grade point average of 2.75 on a 4.0 scale in the last two years of undergraduate work, or exceptional compensatory qualifications.

3. Satisfactory scores in the Graduate Record Examination (area examination when specified).

4. Recommendations (3) furnished by the applicant where required.

In addition, all applicants must meet specific requirements listed in this catalog under the individual Graduate Programs. The application for admission should be accompanied by a full transcript of all undergraduate and graduate records. Admission decisions will be made in the department in which the Graduate Program is offered.

DEGREE STUDENTS: Applicants for this classification shall complete the graduate application form and provide all documents required in items 1 through 4 described above.

NON-DEGREE STUDENTS: Applicants for this classification shall complete the graduate application form and provide transcripts of all College work, both graduate and undergraduate.

DISCRIMINATION PROHIBITED

George Mason College complies with Title VI of the Civil Rights Act of 1964 and does not discriminate on the basis of race, color, sex, religion, or national origin.

ADMISSION FROM ANOTHER COLLEGE

With the approval of the department chairman, George Mason College will accept graduate credits transferred from another university. Applicable toward a master’s degree is a maximum of twelve (12) semester-hours of transfer credit from the University of Virginia system, OR a maximum of six (6) hours of transfer credit from other accredited institutions, OR a combination of transfer credit from the University of Virginia system and other accredited institutions. In this latter case, the total hours transferred may not exceed twelve and no more than six hours may be offered from other institutions. A minimum grade of B must have been earned on each course presented for transfer credit.

The decision as to acceptability of work taken elsewhere and presented for transfer credit to a graduate program should be left to the appropriate department chairman, subject to approval of the Graduate Dean.
ENTERING GEORGE MASON COLLEGE

MEDICAL REPORT

All students approved for admission to a regular session of the College must complete the medical form and meet all requirements contained therein.

Registration

Each registering student must complete and sign in full 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 College does not discriminate with regard to race, color, sex, religion, or national origin; the information requested is for reports the College 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 subscribe myself a student of George Mason College. I enroll in the College with a serious desire to reap the benefits of its instruction and 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.

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 college identification. It must be presented to borrow library materials, and may be required for admission to college events or when using college 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.
**Fees**

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<td>Tuition, part-time (11 semester-hours or less) per semester, per hour</td>
<td>22.00</td>
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<tr>
<td>Comprehensive Fee, per semester</td>
<td>30.00*</td>
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<tr>
<td>Laboratory Breakage Deposit</td>
<td>5.00</td>
<td>5.00</td>
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<tr>
<td>Diploma Fee (Graduates only)</td>
<td>5.00</td>
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<tr>
<td>Registration Fee (non-resident student only)</td>
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**NON-RESIDENT FEES**

Any student not in residence at George Mason College who is preparing a dissertation 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 College including supervised research, must be registered as a student and pay the prescribed fees.

**CLASSIFICATION AS A VIRGINIA STUDENT**

In order to be considered a Virginia student for any given semester, it is necessary that the applicant shall have been domiciled in the State of Virginia for at least one year immediately preceding the beginning of that semester and must have been a bona fide income taxpayer to the State of Virginia for one year immediately preceding the commencement of the semester. Any student in doubt about his status as a Virginia resident should contact the Office of the Business Manager.

**PAYMENT OF TUITION AND FEES**

Tuition and Fees are due and payable at the Business Office on or before August 25, 1971 and January 26, 1972. No student is permitted to

*Students enrolled for six semester-hours or less are required to pay one-half the Comprehensive Fee.

**See Application, p. 32.
register for classes until satisfactory financial arrangements have been made with the Business Office (Cashier). Those who pay after the "due date" will be charged a late fee of $5.00 per day not to exceed three days.

All students are urgently requested to make payments (whether by mail or in person) by personal check, money order or bank draft if at all possible. Checks should be made payable to George Mason College. Second-party checks are not acceptable; pay checks written by local business firms are the exception to this rule.

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

All payments received in the mail are stamped in at the Business Office on a date-time machine. This date is used when determining whether the student has or has not met the payment on time, and NOT the post office cancellation date.

DEFERRED PAYMENT PLAN

There is available a plan whereby students may pay all fees and one-third tuition as the initial payment and pay the remaining tuition in two equal installments:

First Semester: Second and third payments due October 11 and November 11.
Second Semester: Second and third payments due March 6 and April 6.

Failure to make installment 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 probation period the student will be suspended for the remainder of the semester.

WITHHOLDING ACADEMIC CREDIT

Grades and transcripts will be withheld from students and former students who have failed to meet their official financial obligations.

REFUNDS

A student withdrawing within five class 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.
GEORGE MASON COLLEGE

Tuition only will be refunded on a pro rata scale for subsequent voluntary withdrawals. The refund period ends two months from the last registration day for the semester. No refunds will be made when the student withdraws involuntarily.

OTHER REQUIRED FEES

Deposits

Each student enrolled in a laboratory course is required to purchase from the Cashier at the time of registration one Laboratory Card priced at $5.00. This is intended to cover breakage or loss of equipment by the student. As such loss(es) occur, the card is "punched" for the cost of the item in question. Unused portions of the card will be redeemed upon presentation to the Cashier at the end of the second semester (but no later than June 30, 1972).

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 College property must register them with the College Security Office and pay a fee of $1.00 for a parking decal. (See Regulations on Motor Vehicles, page 16).

Financial Aid

George Mason College has a limited amount of financial aid available for graduate students which is administered by the Financial Aid Office.

To apply for aid, a student who has been accepted for admission to George Mason College should consult with the Financial Aid Officer and then file an application. It is also necessary to file a "Parents' Confidential Statement" with the College Scholarship Service in Princeton, New Jersey or a "Student's Confidential Statement" with the College Scholarship Service in Berkeley, California.

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ENTERING GEORGE MASON COLLEGE

Although awards are made for one year beginning in the fall, a limited number of applicants for the spring semester may be considered and applications should be submitted by November 24.

FEDERAL FINANCIAL AID PROGRAMS

George Mason College participates in several federally supported programs of student financial aid. The following are available to eligible graduate students.

The National Defense Student Loan Program

The College makes available to qualified students loan funds from the federally-sponsored National Defense Student Loan Program. Terms and requirements for these loans are available in the Financial Aid Office. A borrower from this fund who becomes a full-time teacher in an elementary or secondary school or in an institution of higher education may have a portion of his total loan cancelled.

The College Work-Study Program

There are available funds to provide work opportunities to full-time students from low-income families who need earnings from part-time work to help meet college expenses. An aid applicant, who is eligible for this assistance and who indicates a desire and willingness to work and the ability to maintain a satisfactory academic standing while working in the College, will be considered for Work-Study job placement.

U.S. Loan Program for Cuban Students

Long-term, low-interest-bearing loans are available to Cuban nationals residing here who are unable to receive support from sources within Cuba as a result of actions by the Cuban government and who are without sufficient resources in the United States to finance their education. A borrower from this fund may have a portion of his total loan cancelled if he becomes a teacher in public or non-profit elementary or secondary schools or institutions of higher education.

STATE FINANCIAL AID PROGRAMS

The State of Virginia makes available three sources of financial aid for Virginia residents who are enrolled as full-time students.
Virginia Loans

The State provides funds to be used for long term, low interest loans for eligible students.

Virginia Scholarships

These scholarships are for students who demonstrate financial eligibility, and have established a record of academic and personal achievement.

State Teachers' Scholarship Loans

These scholarships are loans in the amount of $350.00 per year which are cancelled at a fixed rate for each year of teaching in Virginia schools after graduation. Applicants must be Virginia residents, be recommended by the Teacher Education Committee, and meet the qualifications set by the State Board of Education. Application forms are available in the Financial Aid Office, and should be returned no later than April 21 for the following academic year.

SCHOLARSHIPS

Certain funds donated to the George Mason College Foundation, Inc., are designated for scholarships and are held in trust by the Foundation. Income from these gifts is used for general scholarships. This fund is administered by the Financial Aid Office on behalf of the Foundation.

Fulbright-Hays Awards

Students seeking information regarding these awards which provide funds for pre-doctoral study or research abroad should contact Dr. Angela Khoury, George Mason College Fulbright Program Adviser. Faculty members nominate promising students.
ENTERING GEORGE MASON COLLEGE

Woodrow Wilson Foundation

The Woodrow Wilson Foundation provides funds for graduate fellowships to students planning college teaching careers in a liberal arts field. Seniors interested in applying for these highly competitive grants must be nominated by one of their professors in October. Consult your departmental adviser or the local Woodrow Wilson campus representative for further information.

EMERGENCY LOAN FUND

The McLean Kiwanis Club has made funds available from which a student may borrow up to $50.00 for a period of thirty days for emergency situations. Inquiries should be made at the Business Office.

Veterans’ Affairs

The Recorder’s Office is the College’s liaison with the Veterans Administration in matters concerning educational benefits to veterans and their dependents.

Application forms for educational benefits may be obtained from the Recorder’s Office or the Veterans Administration Regional Office.

For graduate students, the College considers:
- a full time load=9-12 hours
- ⅔ load=8 hours
- ⅓ load=6 hours
- ⅔ (1/3) load=3 hours

An information sheet is available upon request to those entitled to educational benefits.

Summer Session

Information concerning George Mason College Summer Session is presented in a separate publication which is available in March.

It is anticipated that a number of graduate courses will be available every summer.
ACADEMIC REGULATIONS

Credit and Grades
Reports and Examinations
Graduation Requirements

ROBERT C. KRUG
Dean of the Graduate Program
ACADEMIC REGULATIONS

Credit and Grades

GRADIENT AND GRADE POINTS

A candidate for the Master's degree at George Mason College is required to present a minimum of 30 hours and 90 grade points, in addition to the requirements as specified for a particular degree and by a particular department. The grade points (GP) for each semester-hour are assigned on a scale of A=4, B=3, C=2, D=1 and F=0.

If additional work is taken beyond 30 hours, a "B" average must be maintained for all work taken for graduate credit.

ACADEMIC PROBATION

A student who, at the end of any semester*, fails to maintain a "B" average will be placed on academic probation. The student must recover to a "B" average in grade points within two semesters* of work taken at George Mason College or be liable to dismissal from the program.

ACADEMIC DISMISSAL

A student who falls to 9 grade points or more below a "B" average at any time during the program of study will be dismissed. For purposes of probation and dismissal, transfer credit outside the University of Virginia system will not be counted.

SEMESTER-HOUR AND COURSE LOAD

A minimum full-time academic load for students is nine semester-hours, and the maximum full-time academic load for students is 12 semester-hours.

AUDIT

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 College fees apply to audit status. Additional information regarding audit status may be obtained from departmental chairmen.

*a semester is defined as a period from which academic credit and grade are earned and entered into the student's record.
CHANGE OF COURSES

In order to drop and/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 taken. Forms for this purpose may be obtained from the departmental secretaries. The last day for adding courses shall be no later than seven 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.

Grade Reports and Examinations

REPORTS

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 recognizing 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 him and the instructor in charge of the examination.

Degree Requirements

RESIDENCE

At least 24 semester-hours must be completed at George Mason College unless the student has transferred from within the University of Virginia System. In the case of a transfer from within the University of Virginia System, 18 hours of credit from George Mason College is acceptable.

ACADEMIC

To qualify for a master’s degree, a candidate must be in good standing and have satisfied all departmental requirements. Specific departmental degree requirements are listed in the chapter on Graduate Programs under the respective departments. In general, the candidate must acquire a minimum of 30 semester-hours of graduate credit in an area of study, maintain a 3.0 (B) average in all courses attempted, and pass a comprehensive examination, and complete a thesis if either or both of these are required in the program.

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 Program. Theses must be deposited with the proper authorities on or before the date specified in the Calendar published in the Graduate Catalog.
MICROFILM

The College will participate 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 Program 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 work for students who begin their work at George Mason College. For students who present acceptable transfer credit of six or more hours, remaining course work must be completed within four years from the date of first registration at George Mason College.

APPLICATION

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

NON-RESIDENT FEES

Any student not in residence at George Mason College who is preparing a dissertation 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 College including supervised research, must be registered as a student and pay the prescribed fees.

COMMENCEMENT

Commencement exercises provide an opportunity for students and their families to share in the experience of the conferral of academic degrees. This ceremony represents the culmination of a phase in the formal education of the individual. Degree candidates who do not desire to participate in the formal graduation ceremonies must notify the Recorder's Office at least twenty-four hours prior to the date and time of the ceremony.
GRADUATE PROGRAMS

Master of Arts
  History

Master of Arts in Teaching
  History

Master of Education
  Elementary Education
  Secondary Education
  School Administration (1972)
  School Supervision (1972)

Master of Science
  Biology
  Mathematics
Master of Arts (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.

In the first year of the program, accent will be placed on the study of the history of the United States and of Latin America. A limited amount of work will be possible in European history as well, although a full offering in this field will not be available until succeeding years.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pages 19, 20, 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

In addition to fulfilling the general degree requirements listed on pages 31, 32, the candidate for the Master of Arts degree in history must successfully complete the following:

1. Three semester-hours in History 497 or 498, whichever is appropriate to his field of concentration.
2. Three semester-hours in a research seminar in his field of concentration (chosen from History 511, 512, 521, 522, 531, 532).
3. Study of a foreign language (two years at the college level). 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.)

4. Six semester-hours in History 590, a thesis accepted by at least two members of the graduate faculty in history.

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

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 and 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 pages 19, 20, 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 that 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 pages 31, 32, the candidate for the Master of Arts in Teaching of history must successfully complete the following:

1. Twenty-four semester-hours in history, including three credits in History 497 or 498.
2. Twelve semester-hours in education, including Education 567 and 583.
3. A comprehensive examination administered by the faculty.

The candidate must also qualify for the Virginia College Professional Certificate (or its equivalent) in history prior to the award of the degree.

Master of Education

This program is designed for:

1. College graduates who wish to teach in elementary and secondary schools.
2. Elementary and secondary school teachers who wish to improve their competence.
3. Elementary and secondary school teachers who wish to qualify as school administrators.
4. Elementary and secondary school teachers who wish to qualify as school supervisors.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pages 19, 20, the candidate must:

1. Possess a temperament appropriate for the teacher as required by Virginia Certification Regulations.
2. Submit recommendations as follows:
   
a. College graduates who wish to teach: Submit recommendations by three persons qualified to judge professional promise.
b. Elementary and secondary school teachers who wish to improve their competence: Submit recommendations by three persons qualified to judge professional competence.
GRADUATE PROGRAMS

c. School personnel who wish to qualify as school administrators: Have three years of successful teaching experience, a portion of which must be at the level where qualification is desired. Be recommended by three professional educators in the position of principal, supervisor, or administrator, including at least one who has observed the candidate’s teaching.

d. School personnel who wish to qualify as school supervisors. Have completed three years of successful teaching experience, a portion of which must be at the level where qualification is desired. Be recommended by three professional educators in the position of principal, supervisor, or administrator, including at least one who has observed the candidate’s teaching.

3. If a certified teacher, provide evidence of qualification for the Virginia Collegiate Professional Certificate or its equivalent.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pages 31, 32, the candidate must:

1. Complete nine (9) semester-hours of undergraduate professional education, if without course work in professional education.
2. Complete the requirements for the Virginia Collegiate Professional Certificate or its equivalent.
3. Complete the graduate program in which enrolled.
4. Pass a comprehensive examination covering the graduate program in which enrolled.

MASTER OF EDUCATION PROGRAMS

The following program outlines are presented in order to give the 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.
## Preparation for Elementary School Teaching

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Education Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>I. Foundations of Education</td>
</tr>
<tr>
<td></td>
<td>Education 501, 502, 503, or 505</td>
</tr>
<tr>
<td></td>
<td>II. Study of Students and Learning</td>
</tr>
<tr>
<td></td>
<td>Education 525, 526, or 527</td>
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<td></td>
<td>III. Curriculum and Instruction</td>
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<tr>
<td></td>
<td>Education 401, 405, 407, and 419 or</td>
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<td></td>
<td>Education 402, 406, 408, and 420</td>
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<td></td>
<td>IV. Internship</td>
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<td></td>
<td>Education 575 or 576</td>
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<td></td>
<td>V. Electives</td>
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<tr>
<td></td>
<td>Education 507, 531, 533, 538, 565,</td>
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<tr>
<td></td>
<td>590 or 591 or in other disciplines</td>
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<td></td>
<td><strong>Total</strong></td>
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</tbody>
</table>

## Preparation for Secondary School Teaching

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Education Courses</th>
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<tbody>
<tr>
<td></td>
<td>I. Foundations of Education</td>
</tr>
<tr>
<td></td>
<td>Education 501, 502, 503 or 505</td>
</tr>
<tr>
<td></td>
<td>II. Study of Students and Learning</td>
</tr>
<tr>
<td></td>
<td>Education 525, 526, or 527</td>
</tr>
<tr>
<td></td>
<td>III. Curriculum and Instruction</td>
</tr>
<tr>
<td></td>
<td>Education 416 and 421</td>
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<tr>
<td></td>
<td>IV. Internship</td>
</tr>
<tr>
<td></td>
<td>Education 577</td>
</tr>
<tr>
<td></td>
<td>V. Electives</td>
</tr>
<tr>
<td></td>
<td>Education 507, 531, 533, 565, 590</td>
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<tr>
<td></td>
<td>or 591, and at least six semester-</td>
</tr>
<tr>
<td></td>
<td>hours in their teaching field or in</td>
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<tr>
<td></td>
<td>a discipline related to it</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
</tr>
</tbody>
</table>
## Elementary School Teaching

**Semester Hours**

<table>
<thead>
<tr>
<th>I. Foundations of Education</th>
<th>Education 501, 502, 503, 505, 507, or 509</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. Study of Students and Learning</td>
<td>Education 525, 526, 527, 531, 533, or 538</td>
<td>3</td>
</tr>
<tr>
<td>III. Curriculum and Instruction</td>
<td>Education 550, 552, 557, 558, 559, 561, 563, or 565</td>
<td>6</td>
</tr>
<tr>
<td>IV. Seminar</td>
<td>Education 582</td>
<td>3</td>
</tr>
<tr>
<td>V. Electives</td>
<td>Education 590, 591, 592, or 593 and in other disciplines</td>
<td>15</td>
</tr>
</tbody>
</table>

**Total** 30

## Secondary School Teaching

**Semester Hours**

<table>
<thead>
<tr>
<th>I. Foundations of Education</th>
<th>Education 501, 502, 503, 505, 507, or 509</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>II. Study of Students and Learning</td>
<td>Education 525, 526, 527, 531, 533, or 539</td>
<td>3</td>
</tr>
<tr>
<td>III. Curriculum and Instruction</td>
<td>Education 551, 553, 565, and 566, 567, 568, or 569</td>
<td>6</td>
</tr>
<tr>
<td>IV. Seminar</td>
<td>Education 583</td>
<td>3</td>
</tr>
</tbody>
</table>
V. Electives
   Education 590, 591, 592, or 593, and at least nine semester-hours in their teaching field or in a discipline related to it ........................................ 15

Total 30

*School Administration

I. Foundations of Education
   Education 501, 502, 503, 505, 507, or 509 ........................................ 3

II. Study of Students and Learning
   Education 525, 526, 527, 533, 538, or 539 ........................................ 3

III. Curriculum and Instruction
   Education 550 or 551, 552 or 553, 555 or 556, and 557 ................. 12

IV. Internship
   Education 580 or 581 ............................................................... 6

V. Electives
   Education 590, 591, or 592 ......................................................... 6

Total 30

*School Supervision

I. Foundations of Education
   Education 501, 502, 503, 505, 507, or 509 ........................................ 3

II. Study of Students and Learning
   Education 525 ................................................................. 3

*Planned for 1972-73 Academic Year
III. Curriculum and Instruction
   Education 550 or 551, 552 or 553, 554, 555, or 556 ................................................... 12

IV. Internship
   Education 578 or 579 ................................................. 6

V. Electives
   Education 590 and 531 or 591 ........................................ 6

Total 30

Master of Science (Biology)

The prime objective of the biology graduate program is to offer to qualified students advanced knowledge of recent developments in biology. Initially, 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. For them, the central theme will be the biology of man and his environment.
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 chairmen concerned.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pages 19, 20, the applicants for the Master of Science Degree in Biology must have an undergraduate degree in biology with a grade point average of 3.0 (B) or better in all biology courses taken.

http://catalog.gmu.edu
DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pages 31, 32, the candidate for the Master of Science Degree in Biology must:

1. Provide evidence of having fulfilled the course requirements for the Bachelor of Science degree with major in biology at George Mason College, or their equivalent, namely: Inorganic and Organic Chemistry, General Biology, Cell Biology, General Genetics and Ecology.
2. Acquire not less than two semester-hours of credit in Biology 591: Current Topics in Biology.
3. Complete the required 30 semester-hours of graduate work with not more than two approved upper division undergraduate courses.

Master of Science (Mathematics)

The mathematics graduate program is designed to give graduate instruction to those who seek the Master's Degree as the terminal degree as well as to those who intend to continue toward the Ph.D. degree at some other institution.

DEPARTMENTAL ENTRANCE REQUIREMENTS

In addition to fulfilling the general entrance requirements listed on pages 19, 20, applicants for the Master's Degree in Mathematics must have successfully completed undergraduate mathematics courses similar to the following George Mason College courses: Mathematics 315 and 316 (Advanced Calculus); 321 (Abstract Algebra); and 322 (Linear Algebra). The applicant must also submit three letters of recommendation.

DEPARTMENTAL DEGREE REQUIREMENTS

In addition to fulfilling the general degree requirements listed on pages 31, 32, the candidate for the Master of Science Degree in Mathematics must:

1. Complete the required 30 hours of graduate work with no more than 12 hours of approved 400 level courses.
2. Attend two semesters of seminar or write a thesis. No more than 6 credit hours will be allowed for the thesis.
COURSES OF INSTRUCTION

Introduction

Department of Biology

Department of Education

Department of History

Department of Mathematics
Introduction

The number and variety of courses will be increased as needed. Courses marked with an asterisk are proposed for the future. No course listed in the schedule of classes will be offered for which there is insufficient enrollment. A schedule of classes will be available before registration at the start of each semester. The College reserves the right to change the schedule and to adjust individual section enrollments as required.

The credit in semester hours is shown in brackets after each course title [3].

Department of Biology

Professor Emsley (Chairman)
Associate Professors Stanley, Wall
Assistant Professors Andrykovitch, Bradley, Flint, Kelso, Shaffer

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

342: PLANT MORPHOLOGY. [4]
411: ADVANCED GENETICS. [4]
412: MICROBIAL GENETICS. [4]
462: ADVANCED CELLULAR PHYSIOLOGY. [4]
471: EVOLUTION. [3]
473: FIELD STUDIES IN BIOLOGY. [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.

532: ANIMAL BEHAVIOR. [3]
Prerequisite: A previous course in ecology, ethology or permission of instructor. A study of the behavior of animals under natural or
COURSES OF INSTRUCTION

semi-natural conditions. Emphasis will be on the causation, function, development, and evolution of behavior. *Three lecture hours.*

545: FRESHWATER ECOLOGY. [4]  
**Prerequisite:** A course in ecology. Examination of freshwater streams and lakes, emphasizing their physical and chemical features and the relationship of the biota to these features. Field investigations of local streams and lakes will be conducted. *Three lecture hours, three laboratory hours.*

546: MARINE ECOLOGY. [4]  
**Prerequisite:** A course in ecology. Examination of marine environments; the relationship of the biota to their physical and chemical features. Extended field trips will be made to points on the Chesapeake Bay and the Atlantic Ocean. *Two lecture hours, six laboratory 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]  
**Prerequisites:** previous course in evolution equivalent to Biology 471 or permission of instructor. The characters upon which animals are classified, sexual selection, and the application of modern concepts to systematic problems. *Three lecture hours, three laboratory hours.*

591: CURRENT TOPICS IN BIOLOGY. [1]  
One seminar hour each week.

599: SPECIAL PROBLEMS IN BIOLOGY. [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 Education

Professors Snyder (Chairman), Joy
Associate Professors Azarowicz, Eaves, Martin
Assistant Professors Carroll, Coleman, Moretz, Schuchman
Lecturer Evans

The following upper division undergraduate courses may be taken for graduate credit as a part of an approved program of a graduate student. Not more than twelve semester-hours of credit in these courses may be counted toward the Master of Education Degree. Catalog descriptions appear in the undergraduate catalog.

401: Teaching Methods in the Kindergarten and Primary Grades. [3]
405: Children's Literature for the Kindergarten and Primary Grades. [3]
406: Children's Literature for the Intermediate Grades. [3]
407: Teaching of Reading and Language Arts in the Kindergarten and Primary Grades. [3]
408: Teaching of Reading and Language Arts in the Intermediate Grades. [3]
419: Teaching of Science in the Kindergarten and Primary Grades. [3]
420: Teaching of Science in the Intermediate Grades. [3]
421: Instructional Media. [3]

GRADUATE COURSES

Foundations of Education

501: History of Education in Western Culture. [3]
A critical historical analysis of old world backgrounds influencing education in the United States.
COURSES OF INSTRUCTION

502: HISTORY OF EDUCATION IN AMERICA. [3]
An examination of the development of the American educational system with emphasis on the areas of aims and purposes, curriculum; methods and facilities; staffing, organization, administration, financing and control; equality of opportunity, adaptability to changing times, and church-state relationships.

503: PHILOSOPHY OF EDUCATION. [3]
A critical examination of selected ancient and contemporary philosophies and their impact upon educational thought and practice. A study of the controversial aspects of various philosophies of education.

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 AND 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.

Study of Students and Learning

525: ADVANCED HUMAN GROWTH AND DEVELOPMENT. [3]
Prerequisite: Collegiate Professional Certificate or equivalent. 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. Emphasis is placed on development through adolescence.

526: ADVANCED EDUCATIONAL PSYCHOLOGY. [3]
Prerequisite: Collegiate Professional Certificate or equivalent. An advanced course relating to learning theory, motivation, personality development, social and emotional behavior, and student attitudes.

527: EVALUATION OF STUDENT PROGRESS. [3]
Prerequisite: Collegiate Professional Certificate or equivalent. Evaluation of the progress of the learner through observation of performance and through objective and essay tests; concepts of test theory.

531: EDUCATIONAL AND PSYCHOLOGICAL MEASUREMENT. [3]
Prerequisite: Education 528. Techniques and principles used in the
construction, standardization, and evaluation of personality and ability measures for practice and research. Quantification of human judgment for measurement purposes.

533: MENTAL HEALTH IN THE SCHOOL PROGRAM. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. 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]
Prerequisite: Education 528. Detailed study of individual analysis and appraisal techniques. Development of systematic case studies. The use of individual tests.

538: GUIDANCE IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. Principles and practices of guidance in the elementary school. Major emphasis is placed on developmental needs.

539: GUIDANCE IN THE SECONDARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. Principles and practices of guidance in the secondary school. The role of the teacher in the guidance program.

Curriculum and Instruction

550: CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. 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]
Prerequisite: Collegiate Professional Certificate or its equivalent. Development of the curriculum in the secondary school, historical backgrounds, present programs, development of new programs, and evaluative methods and procedures.

552: SUPERVISION OF ELEMENTARY SCHOOL INSTRUCTION. [3]
Prerequisite: Teaching experience and Education 550. 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.

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553: SUPERVISION OF SECONDARY SCHOOL INSTRUCTION. [3] 1
Prerequisite: Teaching experience and Education 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 EDUCATIONAL PROGRAMS. [3] 1
Prerequisite: Education 552 or 553. The techniques and devices employed in the evaluation of 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] 1
Prerequisite: Collegiate Professional Certificate or its equivalent and teaching experience. The organization and administration of the elementary school with emphasis on the principalship. Responsibilities for educational leadership, curriculum development, public relations, personnel relationships, school business management, and the school plant.

556: SECONDARY SCHOOL ORGANIZATION AND ADMINISTRATION. [3] 1
Prerequisite: Collegiate Professional Certificate and teaching experience. The organization and administration of the secondary school with emphasis on the principalship. Responsibilities for educational leadership, curriculum development, public relations, personnel relationships, school business management, and the school plant.

557: PERSONNEL ADMINISTRATION. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent and teaching experience. The organization of personnel services. The development of policies governing selection, orientation, placement, remuneration, and transfer and separation of personnel. The maintenance of morale among professional and non-professional personnel.

558: SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. An advanced course in the methods, materials, content, and organization of social studies programs in the elementary schools.

559: TEACHING READING IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. An advanced course in the principles, techniques, and materials for developmental reading programs in the elementary grades. Emphasis is placed upon comprehension skills, vocabulary skills, study skills, innovative programs, tests and testing, differentiated instruction, and the implications of research.

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561: LITERATURE IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. An advanced course relating to the historical development of children's literature, types, principles of critical analysis, study of classes in children's literature, and a survey of recent literature. Study of changes in the reading habits of children. Techniques of presentation to children to include the use of media.

562: MUSIC IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: A course in music for the elementary teacher or equivalent or permission of the instructor. An advanced course for elementary teachers in the principles and practices of music for children. Includes fundamentals of music, classroom applications, musical creativity, intelligent listening, historical aspects, and current publications and materials.

563: SCIENCE IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Collegiate Professional Certificate or its equivalent. An advanced course in the subject matter, the methodology, the materials involved in teaching of Physics and Chemistry to elementary school children. Emphasis will be given to the knowledge necessary to understand present-day concepts in these areas.

564: ART IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: A course in art for the elementary teacher or equivalent or permission of the instructor. An advanced course designed to present elementary teachers with the skills and knowledge necessary for the development of arts programs in various media and materials.

565: PRODUCTION OF INSTRUCTIONAL MATERIALS. [3]
Prerequisite: Collegiate Professional Certificate and a 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: Collegiate Professional Certificate and 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: Collegiate Professional Certificate or its equivalent. 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: Collegiate Professional Certificate or its equivalent. An
COURSES OF INSTRUCTION

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: Collegiate Professional Certificate or its equivalent. An advanced course in the methods, materials, content, and organization of Language Arts programs in the secondary schools.

Seminars and Internships [6]

575: INTERNSHIP IN KINDERGARTEN AND PRIMARY GRADE TEACHING. [6]

576: INTERNSHIP IN INTERMEDIATE GRADE TEACHING. [6]

577: INTERNSHIP IN SECONDARY SCHOOL TEACHING. [6]
Prerequisite: Certification requirements except for Internship. A full time program of observation, teaching, and participation in school activities conducted in a public school on a grade level or in a subject consistent with the qualification desired.

578: INTERNSHIP IN ELEMENTARY SCHOOL SUPERVISION. [6] 1

579: INTERNSHIP IN SECONDARY SCHOOL SUPERVISION. [6] 1
Prerequisite: Completion of Graduate Program in Supervision except for Internship. A program of supervisory practice and participation in school activities conducted in a public school system at a level consistent with the qualification desired.

580: INTERNSHIP IN ELEMENTARY SCHOOL ADMINISTRATION. [6] 1

581: INTERNSHIP IN SECONDARY SCHOOL ADMINISTRATION. [6] 1
Prerequisite: Completion of Graduate Program in Administration except for Internship. A program of administrative practice and participation in administrative activities conducted in a public school system at a level consistent with the qualification desired.

582: SEMINAR IN ELEMENTARY SCHOOL TEACHING. [3]
Prerequisite: Completion of Graduate Program for Elementary Teachers except for Seminar. A study of the selected problems in teaching. Typical problems are Science, Reading, Mathematics, Social Studies, Physical Education, the slow learner, the gifted, the delinquent, and arts and crafts.

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583: SEMINAR IN SECONDARY SCHOOL TEACHING. [3]  
Prerequisite: 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, extra-curricular activities, and teaching problems within the subject areas of the student.

Research Projects, Theses, and Special Topics

590: METHODS OF EDUCATIONAL RESEARCH. [3]  
Prerequisite: Fifteen semester-hours in graduate education courses. 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]  
Prerequisite: Fifteen semester-hours in Graduate Education courses. The bases of statistical inference, sample variance and chi-square distribution, analysis of variance and factorial analysis, sampling from binominal and multi-nominal populations, and distribution free methods of analysis. Particular attention is given to the interpretation of statistics in educational writings.

592: PROBLEM. [3]  
Prerequisite: 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]  
Prerequisite: Education 590 or 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.

594: SPECIAL TOPICS. [3] [6]  
Prerequisites: Collegiate Professional Certificate and teaching experience. By arrangement. May be repeated. Various subjects, principally by directed study, discussion, and research.
COURSES OF INSTRUCTION

Department of History

Professor Cassara (*Chairman*)
Associate Professors Boothe, Pugh, Spence
Assistant Professors Gleissner, Pacheco, Soder, Spindler

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

401: COLONIAL AMERICA. [3]


433: THE UNITED STATES IN THE TWENTIETH CENTURY. [3]

438: SPANISH BORDERLANDS. [3]

443: HISTORY OF SPAIN AND PORTUGAL. [3]

453: HISTORY OF MEXICO. [3]

497: AMERICAN HISTORIOGRAPHY. [3]

498: EUROPEAN HISTORIOGRAPHY. [3]

GRADUATE COURSES

511: RESEARCH SEMINAR IN UNITED STATES HISTORY. [3]
*Prerequisite: Permission of the instructor.* Research in specialized topics using primary sources.

512: RESEARCH SEMINAR IN UNITED STATES HISTORY. [3]

521: RESEARCH SEMINAR IN LATIN AMERICAN HISTORY. [3]
*Prerequisite: Permission of the instructor.* Research in specialized topics using primary sources.

522: RESEARCH SEMINAR IN LATIN AMERICAN HISTORY. [3]

531: RESEARCH SEMINAR IN EUROPEAN HISTORY. [3]
*Prerequisite: Permission of the instructor.* Research in specialized topics using primary sources.
532: RESEARCH SEMINAR IN EUROPEAN HISTORY. [3]

541: PROBLEMS IN AMERICAN HISTORY. [3]
Readings and discussion of bibliographies, interpretations, and research trends in topics selected by the instructor.

542: PROBLEMS IN AMERICAN HISTORY. [3]

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.

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]
COURSES OF INSTRUCTION

Department of Mathematics

Associate Professors Oppelt (Program Coordinator), Cabell, Papp
Assistant Professors Childress, Dorey, Kiley, Sennott, Smith
Lecturer Chambers

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.

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

411: FUNCTIONS OF A COMPLEX VARIABLE. [3]
443, 444: APPLIED MATHEMATICS. [3, 3]
446, 447: NUMERICAL ANALYSIS AND DIGITAL COMPUTATION. [3, 3]

GRADUATE COURSES

515, 516: REAL ANALYSIS. [3, 3]

521, 522: ALGEBRA. [3, 3]
Groups, rings, fields, category theory, Galois theory.

531, 532: POINT SET TOPOLOGY. [3, 3]
Topological spaces, connectedness, compactness, compactifications, uniform spaces, function spaces.

537, 538: NON-EUCLIDEAN GEOMETRY. [3, 3]
Prerequisite: Permission of the instructor. Affine, projective, hyperbolic, parabolic, elliptical, and differential geometry; transformations and elementary combinatorics.

591, 592: SEMINAR. [2, 2]

599: THESIS. [3]
Original or compilatory work to be evaluated by a committee of three faculty members.

The following graduate courses are contemplated for Fall, 1972. COMPLEX ANALYSIS, FUNCTIONAL ANALYSIS, ALGEBRAIC TOPOLOGY, STOCHASTIC PROCESSES AND APPLICATIONS.
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