THE 1970-1971
CATALOG
GEORGE MASON COLLEGE
of the
University of Virginia

Published June 1, 1970
Fairfax, Virginia
22030
"... I charge them on a father's blessing never to let the motives of private interest or ambition induce them to betray, nor the terrors of poverty and disgrace, or the fear of danger or of death, deter them from asserting the liberty of their country and endeavoring to transmit to their posterity those sacred rights to which themselves were born."

ADMONITION TO HIS SONS BY GEORGE MASON IN HIS WILL, 1792

"... I am closing the last scenes of life by fashioning and fostering an establishment for the instruction of those who are to come after us. I hope its influence on their virtue, freedom, fame, and happiness, will be salutary and permanent."

THOMAS JEFFERSON
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GENERAL INFORMATION

Calendar
Correspondence Directory
Statement of Purpose
History of George Mason College
History of the University of Virginia
Calendar

SESSION OF 1970-71
First Semester

Tuesday, September 8 ........... Orientation for Faculty and Students;
Schedule Changes for Pre-Registered Students
Wednesday, September 9 ........ Advising and Registration of Transfer Students and Returning Students who did not Pre-Register. English and Foreign Language Placement Examinations
Thursday, September 10 ........ Advising and Registration of New Freshmen, A - L
Friday, September 11 ........... Advising and Registration of New Freshmen, M - Z
Monday, September 14 ........... First Day of Classes
Monday, September 21 .......... Last Day for Adding New Courses
Friday, October 23 ............. Last Day for Dropping a Course Without Incurring a Grade of F
Friday, October 30 ............. Last Day for June Degree Applications
Friday, November 6 ............ Mid-Term Progress Reports Due from Faculty
Friday, November 13 ........... Patriot's Day
Monday, November 16 .......... Distribution of Mid-Term Progress Reports
Thursday, November 26 through Thanksgiving Recess
Sunday, November 29
Saturday, December 19 through Christmas Recess
Sunday, January 3
Wednesday, January 13 ........... Reading Day
Thursday, January 14 through Examinations
Friday, January 22

Second Semester

Monday-Tuesday, February 1-2 ......... Registration
Tuesday, February 2 .......... English and Foreign Language Placement Examinations
Wednesday, February 3 ........... First Day of Classes
Tuesday, February 9 ........... Last Day for Adding New Courses
Friday, March 12 ........... Last Day for Summer Degree Applications
Tuesday, March 16 ........... Last Day for Dropping a Course Without Incurring a Grade of F
Saturday Noon, March 27 through Spring Recess
Sunday, April 4
Friday, April 16 .............. George Mason Day
Friday, April 30 ............ Applications for Renewal of Scholarships and Loans Due
GENERAL INFORMATION

Monday, May 24 *through* Examination
Tuesday, June 1
Sunday, June 6 *Commencement*

**Summer Session 1971**

<table>
<thead>
<tr>
<th>Thursday, June 10*</th>
<th>First Term Begins</th>
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<tr>
<td>Friday, July 16*</td>
<td>First Term Ends</td>
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<tr>
<td>Monday, July 19*</td>
<td>Second Term Begins</td>
</tr>
<tr>
<td>Friday, August 20*</td>
<td>Second Term Ends</td>
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*These dates are tentative; details and final dates for the Summer Session are published in a separate bulletin.*

**1970**

<table>
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<th>OCTOBER</th>
<th>NOVEMBER</th>
<th>DECEMBER</th>
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<td>29 30</td>
<td>27 28 29 30 31</td>
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**1971**

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<thead>
<tr>
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<th>FEBRUARY</th>
<th>MARCH</th>
<th>APRIL</th>
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<tr>
<th>MAY</th>
<th>JUNE</th>
<th>JULY</th>
<th>AUGUST</th>
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<td>30 31</td>
<td>23 24 25 26 27 28 29</td>
<td>27 28 29 30</td>
<td>29 30 31</td>
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Correspondence Directory

Inquiries to the College should be addressed as indicated below:

- Academic Programs and Policies: Dean of the College
- Admissions: Director of Admissions
- Athletics: Director of Athletics
- Catalog: Director of Admissions
- Financial Matters: Business Manager
- Gifts and Bequests: Chancellor
- Placement Services: Dean of Students
- Public Relations and Development Program: Chancellor
- Scholarships: Dean of Students
- State Technical Services Representative: George Chamberlain
- Student Affairs: Dean of Students
- Summer Session: Director of Summer Session
- Transcripts: Registrar

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.
GENERAL INFORMATION

"To participate in public service and community education through special divisions and institutes as opportunities for such service are provided;

"To provide programs of continuing education;

"To establish appropriate new programs, schools and degrees and to undertake such advanced and special research as the educational requirements of the Commonwealth of Virginia and the nation may indicate;

"To serve as the intellectual and cultural center of Northern Virginia through special programs, lectures, drama, music and library services."

LORIN A. THOMPSON
History of George Mason College

George Mason College is the outgrowth of an extension center established some 20 years ago in Northern Virginia by the University of Virginia. The University's Board of Visitors authorized establishment of a two-year branch college in 1956 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 a site of 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.

A master plan for George Mason was prepared in 1960 to accommodate the requirements of a two-year college serving a maximum of 2,500 students. The first group of four buildings was completed and opened in September, 1964. At that time, George Mason had a faculty of 36 and a student body of 359.

The General Assembly in March, 1966, authorized George Mason to become a four-year degree-granting college and gave it the long-range mandate to expand into a university of major proportions.

Growth was immediate and rapid. During the past three years, both faculty and student body have nearly tripled. By 1970 George Mason had 131 faculty members and approximately 1,950 students. The first senior class received BA degrees in June, 1968. Now BS degrees are offered as well. Two additional buildings have been constructed. Five more will be added within the next two years. Additional land has been purchased so that the College has 570 acres on which to build.

A new master plan for long-range development has been completed and approved by University and State officials. This plan calls for George Mason's growth into a university of 15,000 enrollment by 1985. The university will be divided into six semi-autonomous colleges with about 2,500 students each. Each college will have a particular academic emphasis and each 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 university colleges.

Today George Mason is planning for its future as a major center of learning in this part of the country.
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 six buildings on the present George Mason College campus are but a nucleus of what the College soon will become.

Four classroom-laboratory buildings are linked by covered walkways and grouped around a quadrangle. These were the original George Mason buildings, opened in September, 1964, when the school was still a junior college.

Since George Mason was authorized to become a four-year degree-granting institution in 1966, two new buildings have been opened: a lecture hall, containing an auditorium and classrooms, and a modern library.

All are red brick structures, with white linear accents, to capture the spirit of the University of Virginia’s Jeffersonian architecture while taking advantage of modern design and construction techniques. All of the buildings are air-conditioned. There are up-to-date laboratory facilities for physical sciences, a language laboratory 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.

During the next two years, four additional buildings will be constructed: a physical education building, a student union and two dormitories. Under construction is the Arts and Sciences Building which will be occupied in 1970.

This will complete College I in the long-range plan for George Mason University. The first college will accommodate 2,500 students. It is hoped that a second college, of similar size, can be phased in by 1973.

By 1985, six colleges should be completed. They will provide graduate and undergraduate facilities for about 15,000 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. The present collection includes over 35,000 books and 5,000 bound periodicals as well as 5,000 pamphlets, maps, and microfilms.
CAMPUS AND FACILITIES

Approximately nine hundred 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 wide 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 eighty-five hours per week.

Student Life

ACTIVITIES

Students at George Mason College participate in the activities of the Student Government and elections for these offices are held in the spring. Students also administer the Honor System of the College, and elections for positions on the Honor Committee are held once a year.

In order to be eligible to hold an elected or appointed office in any student organization or activity of either a governmental, athletic, or managerial character, a student must have no less than a cumulative 2.000 average. It is the responsibility of the individual student, holding an office, to notify his organization or activity when his cumulative average is less than 2.000. A student on probation will be ineligible to participate in any athletic or other activity representing the College on either an intercollegiate or club level and will be ineligible to serve as a working staff member of any student organization. Authority is vested in the Dean of the College, however, to remove the restriction on activities, in whole or part, for individual cases of academic probation.

There are many student organizations registered with the Student Government that cover a variety of student interests and activities. A list of these student organizations is kept by the Dean of Students.

Student publications comprise a yearbook, newspaper and literary magazine.

Participation in student activities is limited to bona fide registered students.
ATHLETICS

The intercollegiate athletic program offers competition between the College and various colleges in Virginia, Maryland and other states on the East Coast. Intercollegiate competition is conducted in basketball, baseball (fall and spring), soccer, cross-country, tennis and golf. The College is a member of two national athletic organizations — National Collegiate Athletic Association and National Association of Intercollegiate Athletics. Under their auspices freshmen are eligible for varsity competition. The College participates in the Potomac Intercollegiate Conference. Other conference members are Frostburg State, Bowie State, St. Marys, and Coppin State from Maryland and District of Columbia Teachers College and Gallaudet College from the District of Columbia. Competition outside the conference is furnished by American University, University of Richmond, Georgetown University, George Washington University, Randolph Macon College, University of Delaware, United States Coast Guard Academy, and others. The Athletic Council has general supervision over the intercollegiate athletic program.

The intramural program enables each student to participate voluntarily in sports of his own choosing. Facilities are available for tennis, badminton, volleyball, paddle tennis, basketball and softball. The Intramural Council, composed solely of students, conducts the intramural program.

The College as a member of the N. C. A. A. and N. A. I. A. abides by all the rules of these organizations.

Athletic Council

The Athletic Council is composed of two students and six faculty members. The purpose of the Council is to act in an advisory capacity to the Chancellor of the College in all matters pertaining to intercollegiate athletics and to carry out the functions assigned to the Council by the Chancellor.

Intramural Council

The Intramural Council is composed of two students, one male and one female, from each class with the Intramural Director serving in an ex-officio capacity only. The Council is responsible for the promotion, supervision and conduct of the intramural program.
CAMPUS AND FACILITIES

Student Services

LIVING ACCOMMODATIONS

The Placement Office maintains a file of housing available in the vicinity of the College for students interested in accommodations, but the College maintains no housing facilities of its own.

INSURANCE

A combined hospitalization and accident policy is available to all registered students at George Mason College. This policy provides coverage for twelve months and is effective from September 14, 1970. Enrollment in this insurance program is optional. The twenty-four hour coverage includes vacation periods and the annual premium is $20.00. Applications and brochures are available in the Financial Aid and Placement Office.

PLACEMENT SERVICE

The Placement Office is interested in assisting students in finding full time employment upon graduation, and to assist alumni on a continuing basis. The career placement program emphasizes personal counseling sessions; the use of occupational information; and participation in our recruitment program and career days. In addition this office helps students to find part-time and summer work.

Occupational choices should be thought about from the time one enters college. A counselor is available to assist students in considering various alternatives, and finding proper sources of information. This office maintains an Occupational Library for student use, which contains occupational and employer information, as well as guides to graduate programs and testing information.

Recruiters, representing business, government, and school boards, will be visiting the campus throughout the year. While seniors are particularly urged to arrange for a number of interviews, it is also wise for other interested students to participate. A student may also establish a permanent credentials file which can be made available to prospective employers, or used as a basis for job placement.

Information concerning part-time, temporary and summer jobs is made available to students by means of listings posted on a bulletin board, and through consultation with an employment counselor.
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 or administration, 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 faculty members and students discuss the meaning of the System; smaller groups then meet with members of the Honor Committee who answer individual questions about the System. 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

An Ecumenical Center located off campus, sponsored by the Christian, Lutheran, Episcopal, Presbyterian, Roman Catholic and United Methodist Churches through the Campus Ministry Association provides a service to all students at the College. The Center provides pastoral counseling and its facilities include meeting rooms for campus organizations, study rooms and recreational facilities.

Regulations

CONDUCT

The College reserves the right to suspend, enforce the withdrawal of, or expel a student whose conduct is in its judgment unsatisfactory. Any
CAMPUS AND FACILITIES

A student participating in or inciting a riot or an unauthorized or disorderly assembly is subject to suspension.

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.

FIREARMS

The possession, storage, and use of any kind of ammunition, firearms, fireworks, explosives, air rifles, and air pistols is prohibited on College property.

NON-ACADEMIC EVENTS AND PUBLICATIONS

Organizations or groups of students wishing to use College facilities for non-academic matters must obtain permission 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 who wish to publish and/or distribute on-campus, without charge, any publication have automatic permission to do so provided they register and file a copy of the material prior to distribution with the Office of the Dean of Students. Students should exercise this permission with responsibility. The contents of the material published and/or distributed is the direct and sole responsibility of the individual student registering such material. The College assumes no responsibility for the contents of the material published and/or distributed. Permission for distribution does not imply that the College approves or supports the contents of the publication.

George Mason College students who wish to sell on-campus any publication must first obtain the approval of the Dean of Students.

WITHHOLDING ACADEMIC CREDIT

Grades and transcripts will be withheld from students and former students who have failed to meet their official financial obligations.
CHANGE OF 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 his or her 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 Dean of the College. A student under twenty-one years of age must have parental approval for such withdrawal. To clear the student's record, the application must then be endorsed by the Librarian, Business Office and the Registrar. 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.

READMISSION AFTER VOLUNTARY WITHDRAWAL

Readmission to the College is not automatic; after absence of a semester or longer, a former student must apply for readmission to the Dean of the College. A student who withdraws with “WF” in half or more of his courses must qualify for readmission in the same way as a suspended student. A student who withdraws with “WP” in half or more of his courses and whose grade point average is more than 2.000 can be readmitted by the Director of Admissions. A student who withdraws with “WP” in half or more of his courses and whose grade point average is less than 2.000 may be required by the Dean of the College to attend the Summer Session and complete satisfactorily a prescribed number of approved courses; his readmission will be considered on the basis of his previous record as well as his Summer Session courses.

ENFORCED WITHDRAWAL

The College may impose enforced withdrawal as a penalty for habitual delinquency in class, habitual idleness, or any other fault which prevents the student from fulfilling the purposes implied by registration in the College.
ENTERING GEORGE MASON COLLEGE

Nature of Announcements
Admission Requirements
Registration
Fees
Financial Aid
Veterans’ Affairs
Nature of Announcements

The information contained herein and any other information conveyed to students or to prospective students is subject to change at anytime by the appropriate College authority.

Undergraduate Admission Requirements

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

To be assured of consideration, applications should be submitted no later than June 1. Students with honor grades in secondary school and good Scholastic Aptitude Test scores taken in May of their junior year may qualify for early admission decisions on the basis of a three-year record. Regular admission decisions will normally be made after the first-semester grades of the senior year and all necessary prescribed test scores have been received by the Admissions Office. Admission is contingent upon satisfactory completion of the requirements discussed in this section and successful completion of the senior year of high school.

Both men and women will be admitted to George Mason College under the same regulations.

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, religion, or national origin.

ADMISSION FROM SECONDARY SCHOOL

Arts, Sciences, and Elementary Education

For admission to the arts, sciences, and elementary education programs, an applicant must present not less than fifteen (15) units of high school work in the following academic fields:
ENTERING GEORGE MASON COLLEGE

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<td>English</td>
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<td>Mathematics</td>
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<td>Foreign Language</td>
<td>2 units</td>
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<td>Social Studies</td>
<td>1 unit</td>
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<tr>
<td>Laboratory Science—Biology, Chemistry, or Physics</td>
<td>1 unit</td>
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<tr>
<td>Electives</td>
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<td>Minimum Total</td>
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Two-Year Engineering

For admission as a student in the two-year engineering program, an applicant must present sixteen (16) units from high school in the following fields:

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<tbody>
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<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3½ units³</td>
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<tr>
<td>History</td>
<td>1 unit</td>
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<tr>
<td>Science</td>
<td>2 units⁴</td>
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<tr>
<td>Electives</td>
<td>5½ units⁵</td>
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The experience of the College has shown that certain subjects are more useful to the engineering student and their inclusion in the high school programs of applicants is strongly recommended. These subjects include: additional mathematics, American and modern European history, English and American literature, physics, chemistry, biology, geography, foreign languages, and mechanical drawing.

All candidates for admission are required to take the Scholastic Aptitude Test given by the College Entrance Examination Board. December or January tests are recommended. Applicants must register at least three weeks before the testing date by mailing a registration form and fee to a College Board Office*, or through your area high school. The examination will be given in various test centers distributed throughout the United States and overseas. Both descriptive information about the test and registration blanks are available without cost to applicants. Requests should be addressed to either of the Board’s offices.*

*Address of the College Board Offices: Box 592, Princeton, New Jersey, 08540, or Box 1025, Berkeley, California, 94701.

1. These units must be selected from Algebra I, Algebra II, geometry, trigonometry, probability, and elementary calculus.
2. No credit is allowed for less than two units in a foreign language.
3. These units must be two of algebra, one of plane geometry and ½ unit of advanced mathematics—trigonometry, solid geometry, or advanced algebra.
4. Chemistry and physics are recommended.
5. Not more than four units of vocational subjects relevant to engineering will be accepted.
The Language Department strongly suggests that students in the arts, sciences, and elementary education programs take the language achievement tests of the College Entrance Examination Board. Scores of these tests may be used for advanced placement of students by the Language Department.

The Admissions Office considers each applicant individually, using as its criterion for selection the following:

1. Evidence of good character and acceptable social habits.
2. Evidence of academic achievement and promise, with acceptable facility in the use of the English language and understanding the fundamental mathematical processes.

The Admissions Office relies upon the secondary school record, examination results, and recommendation from the schools for its basic information. A personal interview is not required unless requested by the Director of Admissions. The following general requirements are set forth for the guidance of students looking toward college admission.

The applicant must be at least sixteen years of age, a graduate of an accredited high school or preparatory school with graduation based on no fewer than fifteen entrance units, or in special cases, have approved equivalent secondary school preparation. Applicants should rank in the upper half of their secondary school class.

In every case the applicant must have general character recommendations from his school. Achievement in activities as well as scholarly attainment will be considered in determining admission.

In summary, a completed application includes (1) a properly completed application form, (2) a non-refundable application fee of $10.00 accompanying the application, (3) a transcript of grades from secondary school and all colleges attended, and (4) a record of the scores on the Scholastic Aptitude Test for the College Entrance Examination Board.

Candidates who are approved for admission must notify the College not later than May 15th whether they wish to accept or reject this offer. *Failure to comply may adversely affect your reserved space for attendance.*

The College reserves the right to withdraw any offer of admission if applicant fails to satisfy all requirements prior to closing of spring or fall registration.

**ADMISSION FROM ANOTHER COLLEGE**

George Mason College accepts qualified students by transfer from other colleges. An applicant for admission who has attended an institution of collegiate rank for any period of time should request the registrar of each institution he has attended to send an official transcript of his record to the Office of Admissions, George Mason College. A complete secondary school record will also be required. Normally, transfer students will be expected to meet the College's requirements governing initial admission.

http://catalog.gmu.edu
ENTERING GEORGE MASON COLLEGE

from high school. An applicant may be considered for transfer only if he is entitled to an honorable dismissal without social or academic probation and only if he has an average of at least “C” in the institution from which he wishes to transfer. A student who has been suspended or dropped from another institution for scholastic deficiency or other reasons can not be considered for admission. Transfer students should note the requirements shown on page 39 under the heading Credits Earned At Other Colleges.

All transfer students must present Scholastic Aptitude Test scores of the College Entrance Examination Board before approval for admission may be formalized.

MEDICAL REPORT

All students approved for admission are required to complete a health form provided by the College and must furnish evidence of immunizations against smallpox and tetanus within the last 10 years, and a chest x-ray within six months prior to matriculation.

Registration

Applicants seeking membership in the College, having been accepted for admission by proper admitting authority, should present themselves to the Dean of the College or his authorized representative on the date specified in the Announcements of the College. Applicants must also attend and participate in the orientation program announced in the calendar. Each new and returning student is given written instructions for the registration procedure. He is responsible for following and completing the process properly. The student who fails to do this will not be a Registered Student.

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, 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 Dean of the College 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 Dean of the College for proper cause.

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 (12 through 16 semester-hours) per semester</td>
<td>265.00</td>
<td>625.00</td>
</tr>
<tr>
<td>Tuition, in excess of 16 semester-hours per semester, per hour</td>
<td>16.00</td>
<td>40.00</td>
</tr>
<tr>
<td>Tuition, part-time (11 semester-hours or less) per semester, per hour</td>
<td>22.00</td>
<td>52.00</td>
</tr>
<tr>
<td>Comprehensive Fee, per semester</td>
<td>30.00*</td>
<td>30.00*</td>
</tr>
<tr>
<td>Laboratory Breakage Deposit</td>
<td>5.00**</td>
<td>5.00**</td>
</tr>
<tr>
<td>Physical Education Fee (Golf only)</td>
<td>12.00</td>
<td>12.00</td>
</tr>
<tr>
<td>Diploma Fee (Seniors Only)</td>
<td>5.00</td>
<td>5.00</td>
</tr>
</tbody>
</table>

CLASSIFICATION AS A VIRGINIA STUDENT

A student is classified in-state if the parent or legal guardian has been domiciled in the State of Virginia for one full and continuous year prior to registration AND has paid Virginia State Income Taxes for the same period of time. It is the domicile of father/guardian and his payment of income taxes that is basic in determining classification as a Virginia student. The mother’s domicile applies only when guardianship or custody shifts by virtue of father’s death, legal separation or divorce.

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

**Biology and Chemistry only. One deposit covers either or both. Same Laboratory card may be used for both semesters.
PAYMENT OF TUITION AND FEES

The payment of tuition and fees is considered a part of the registration process, and is due and payable at the Business Office on or before the dates set forth for registration. No student is permitted to attend class until satisfactory financial arrangements have been made with the Business Office. Those registering and/or paying after the final day of registration will be charged a late fee of $5.00 per day, up to three days. All students are urgently requested to make all payments (whether by mail or in person) by personal check or bank draft, if at all possible. Checks should be made payable to George Mason College. Second-party checks are not acceptable; paychecks written by local business firms are the exception to this rule.

Normally, all students accepted for admission will receive advance billing for the full-time rate. However, failure to receive a bill for tuition and fees does not in any manner lessen the responsibility of the student to make such payment. Mailing payments in advance is highly recommended as a major step in reducing the long lines on the day(s) of registration.

Any check returned to the Business Office 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.

DEFERRED PAYMENT PLAN

There is a plan available whereby students may pay all fees and one-third of the tuition on or before day of registration, and pay the remaining tuition in two equal installments:

First Semester — Second and third payments due October 9 and November 6.
Second Semester — Second and third payments due March 2 and April 30.

Students desiring to avail themselves of this part-payment plan must appear in person at the Cashier desk on or before registration day and sign a payment contract.

Failure to make installment payment on or before due date results in a late charge of $5.00 per day, up to three days. Any student failing to make payment within ten calendar days following due date is suspended and may not attend classes until he has been officially reinstated and, additionally, pays a reinstatement fee of $5.00. (No student may be reinstated who remains suspended in excess of two weeks).
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.

Tuition only will be refunded on a pro rata scale for subsequent voluntary withdrawals. The refund period ends two months from 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 in Biology or Chemistry 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 25, 1971).

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 17.)

Financial Aid

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

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. In addition, a "Parents' Confidential Statement" or "Student's Confidential Statement" in support of application for financial aid must be filed with the College Scholarship Service.

All new applications for financial aid (with the exception of the State Teachers Scholarship) and applications for the renewal of financial aid, are due by May 1. 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 must be submitted by December 1.

SCHOLARSHIPS

George Mason College Foundation, Inc.

General funds which have been donated to the George Mason College Foundation, Inc. and designated for scholarship endowment are held in trust by the foundation. Income from these gifts is used for general scholarships.

Funds have been contributed to the Foundation by members of the Lynch family of Northern Virginia; by Mrs. F. Sheild McCandlish in memory of her husband, F. Sheild McCandlish and her uncle, R. Walton Moore; by friends of Judge E. Calvin Van Dyck in tribute to his many services to Northern Virginia; by the Northern Virginia Service League; and by numerous other civic organizations, industrial and business establishments. This fund is administered by the Financial Aid Office on behalf of the Foundation.

Undergraduate Scholarships

These funds are made available by the General Assembly for scholarships for undergraduate Virginia residents who demonstrate financial need and have established a record of good personal character and citizenship.

State Teachers' Scholarship Loan Program

These scholarships are in the nature of 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 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 academic year, and prior to January 21 for the second semester only.

FEDERAL FINANCIAL AID PROGRAMS

George Mason College participates in several federally supported programs of student financial aid. The following are available to eligible 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 Educational Opportunity Grant Program

The federal government makes available a limited number of direct grants to undergraduate students with exceptional financial need who require such assistance to attend college and who show academic promise. To receive this grant, a matching scholarship or loan must be awarded to the student.

The College Work-Study Program

The federal government makes available funds to provide work opportunities to 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
ENTERING GEORGE MASON COLLEGE

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 this total loan cancelled if he becomes a teacher in public or non-profit elementary or secondary schools or institutions of higher education.

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.

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.

Veterans eligible for educational benefits under Public Law 89-358 (Peacetime G.I. bill) must make application to their nearest VA Regional Office for approval of their program and to receive authorization for benefits. It is important that this be done in advance of taking up residence so that programs may be approved before funds are needed. Application forms for educational benefits are available from the Recorder’s Office, or at the Veterans Administration Regional Office.

Persons eligible for benefits under Public Law 634 (War Orphans Program) must also make application to their nearest Veterans Administration Regional Office. Upon approval of the benefits and enrollment at the College, the Recorder’s Office assists the eligible persons in their relations with the Veterans Administration.

Eligibility for full-time institutional training of fourteen semester-hours, three-quarter time consists of ten to thirteen semester-hours, half-time consists of seven to nine semester-hours. Payments to students enrolled for less than half-time are computed on the basis of tuition fees and charges. Payments for attendance at summer sessions are determined on the basis of an accelerated program.
ACADEMIC REGULATIONS

Introduction
Credit and Grades
Reports and Examinations
Deficiencies
Standing
Declaration of a Major
Second Bachelor’s Degree
Honors

"A college or university is reflected in the eyes of people in different ways—to some, it is academic programs; to others, it is students; to still others, it may be buildings. These separate images must merge and, in the ultimate analysis, the university is people."

DR. ROBERT C. KRUG
Dean of the College
ACADEMIC REGULATIONS

Introduction

Primary responsibility for familiarizing himself or herself with the regulations and academic policies of George Mason College rests with each student. This responsibility includes informing one's self of all rules, regulations, and requirements; for fulfilling all course and degree obligations in proper sequence and with satisfactory scholarship; and for complying in a timely and proper manner with all procedures and requirements of George Mason College that pertain to him or her. If doubt should arise with regard to any matter, it is the responsibility of the student to consult his faculty adviser or the Dean of the College.

In the implementation of academic regulations the Associate Dean of the College may act as the designated representative of the Dean of the College.

While the College appreciates the need on the part of many students to assume part-time employment in order to meet their living expenses, it emphasizes that such outside commitments must not take priority over academic responsibilities. Accordingly, it is strongly urged that a student who is employed over 20 hours a week not attempt a full-time academic load, and that a student who is employed over 40 hours a week not attempt more than six semester-hours. A student who fails to observe these guidelines may expect no special consideration for academic problems arising from the pressures of outside employment.

Credit and Grades

GRADES AND GRADE POINTS

College course work is measured in terms of quantity and quality. The semester-hour is the unit of credit and the number of semester-hours of credit is a measure of quantity. The grade is a measure of quality. The College recognizes four grades above passing: "A," "B," "C," and "D." Grade "F" signifies that the work was failed. In those instances in which a student otherwise passing a course is for some cause beyond his reasonable control unable to complete the work of that course on schedule, the instructor may assign a temporary grade of "I" (Incomplete). Any "I" grade not removed from the record by the end of the following semester will be automatically changed to "F".

To compute an average of the quality of work for a semester or for an entire program, grade points for each semester-hour are assigned on a scale of 4 for "A," 3 for "B," 2 for "C," 1 for "D," and 0 for "F." A grade point score is computed by multiplying the value of the letter grade by the number of credits for the course. As an example, a student receiving an "A" in the first semester of English (a three-semester-hour course), receives twelve grade points. The grade point average is computed
by dividing the number of grade points earned by the number of semester-hours attempted.

Academic achievement of a student in a course is rated as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 - 100</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69</td>
</tr>
<tr>
<td>F</td>
<td></td>
</tr>
</tbody>
</table>

(Credit rating)

CREDIT WITHOUT GRADE

Each student who is a candidate for a degree at George Mason College, having earned a minimum of fifty-four semester-hours and being in good academic standing, may elect to take not more than two one-semester courses for credit but without grade. The courses selected may not be within the field of major concentration and may not be advanced in satisfaction of any degree requirement except that requiring a total of 120 semester-hours of credit for graduation and may not include a course for which a previous grade of “F” has been received. To gain admission to a course under this provision, a student must meet the stated prerequisites for entry and secure in advance of enrollment permission of the instructor. Any student so enrolled will be regarded as a regular member of the class for all academic purposes, and to receive hours of credit toward graduation must demonstrate, in the judgment of the instructor, attainment of a passing level of achievement. Students who are majoring in the field shall be given enrollment priority over students entering for credit without grade. Hours earned in such courses will not enter into determination of the student’s grade point average.

SEMESTER-HOUR AND COURSE LOAD

A semester-hour, the unit in which courses are measured, is defined as one hour per week of lecture recitation or not less than two hours per week of laboratory work throughout a semester. Although twelve semester-hours per semester represents a minimum full-time load, a student is expected to carry not less than fourteen nor more than seventeen semester-hours of work except under the following conditions: special permission to carry a reduced number of hours (less than 12) may be granted by the Dean of the College or his representative for such reasons as necessary outside employment or ill health. A load in excess of seventeen hours must be approved by the Dean of the College or his representative.
ACADEMIC REGULATIONS

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.

REPEATING A COURSE

A student who has passed a course with a grade of "D" or better is not permitted to repeat that course. With the approval of the department chairman in which the course is taught, a student may audit a course which he has previously taken and passed. However, appropriate College fees will apply for the course to be audited.

CHANGE OF COURSES

In order to drop and/or add a course, a student must obtain the written permission of his faculty adviser and 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.

ATTENDANCE

Students are expected to attend the class periods of the courses for which they are registered. Absence from several meetings of a course may operate to limit a student's achievement and may result in a lower grade; however, absence from a course per se may not be considered reason for awarding a lower grade than the student's achievement in that course may warrant.
Reports and Examinations

MID-TERM PROGRESS REPORTS

Progress reports will be due from the faculty at the end of the eighth week of classes in the first semester. These reports will be processed and distributed by the end of the ninth week so that six weeks of the semester will remain during which time a student noted to be in academic difficulties may act to repair his standing. The progress reports will show for each course a symbol of “U” or “S”. The symbol “U” will be used for reporting a standing estimated to be that normally associated with the letter grades of “D” or “F”. All freshmen and all students on academic probation will receive a mid-term progress report during the first semester of the academic year; other students will receive mid-term progress reports during the first semester only in a course in which the instructor estimates the student is earning a ‘D” or “F.”

REPORTS

Reports are sent at the end of each semester to the parent or guardian of each student unless the student is over 21 years of age or married, in which case the reports are sent directly to the student.

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 Dean of the College.

ABSENCE FROM EXAMINATIONS AND SPECIAL EXAMINATIONS

Absence from examination will not be excused except for sickness on the day of the examination attested by a physician’s certificate, or for other cause approved by the Dean of the College. 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
ACADEMIC REGULATIONS

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.

RE-EXAMINATION

Re-examinations are not permitted, but students otherwise in good standing are permitted to repeat a course which they have failed.

Deficiencies

PROBATION AND SUSPENSION FOR ACADEMIC DEFICIENCY

A student who maintains a grade point average of 2.000 for all work attempted is in good academic standing within the University of Virginia system. A student who is not making satisfactory progress is placed on probation when his cumulative grade point deficiency falls below the level set by the College. He will be suspended from the College if his performance continues to be unsatisfactory or if he displays grossly inadequate performance during a single semester. A table of academic deficiencies used at George Mason College to determine the liability of a student to academic probation or suspension may be obtained from the office of the Dean of the College. 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. The grade points earned for a course are computed by multiplying the value of the letter grade by the course semester-hours. The cumulative grade point average is obtained by dividing the total number of points earned to date by the total number of hours attempted.

The following practices guide the imposition of probation or suspension:

Probation

(1) An academic average of 2.000 is required for graduation. Probation is used to warn the student that his performance is below that necessary for him to achieve the necessary grade point average for graduation. It is desirable for the student to remove his probation in one semester.

(2) In order to be eligible to hold an elected or appointed office of either a governmental, athletic, or managerial character in any student organization or activity, a student must have no less than a cumulative 2.000 average. A student on probation will be ineligible to participate in
any athletic or other activity representing the College on either an intercollegiate or club level and will be ineligible to serve as a working staff member of any student organization recognized by the College. Authority is vested in the Dean of the College, however, to remove the restriction on activities, in whole or part, for individual cases of academic probation.

(3) The academic record of a student who has been placed on probation is stamped "probation." The record of a student to whom rule (2) or (3) in the section below has been applied shall be stamped "special probation."

(4) The student who is carrying less than twelve semester-hours of work and whose total of hours attempted at George Mason College including the current semester is less than twelve semester-hours shall have his record marked "special probation" or "probation," whichever is appropriate, if his cumulative grade point average is below 1.000.

Suspension

(1) Suspension is a state of enforced withdrawal from the College and is imposed upon any student whose cumulative grade point average falls below an acceptable level. In addition, a student shall be suspended who has been on probation (or special probation as defined below) for three consecutive semesters, except as provided below.

(2) No student on probation shall be suspended at the end of a semester in which he earns a grade point average for that semester of 2.000 or higher.

(3) No freshman will be placed on suspension without having been on probation for the immediately preceding semester.

(4) The record of a student to whom rule 2 or 3 of this section has been applied shall be stamped "special probation" and that designation shall have the same effect as "probation."

(5) A student who has failed to earn at least six grade points in a regular semester, no matter what his grade point total, shall be suspended, except that freshmen shall not be subject to this rule.

Readmission After Suspension

(1) Normally, a student on suspension for the first time may establish his eligibility for special readmission only if he attends the Summer Session of this College and displays satisfactory progress by earning a minimum of eight semester-hours, on which he achieves an average grade of "C" while passing all work attempted. If the student chooses to carry more than eight hours, all work attempted must be passed, and the student must achieve an average grade of "C" on all work attempted. Courses taken to establish eligibility for readmission to George Mason College must be approved by the Dean of the College.

(2) Under special circumstances, a student on suspension for the first time may petition for readmission after the lapse of one calendar
ACADEMIC REGULATIONS

year, provided that he demonstrate that his circumstances have so changed as to make likely the successful continuation of his college program.

(3) A student who has been readmitted under either of these procedures will be placed on probationary status (as described under item 2, Probation, p. 35 during the semester following his special readmission.

(4) A student who has been reinstated after suspension and is subsequently suspended again may petition for readmission only after the lapse of two calendar years.

Effect of Attending Summer Session

The student's academic status shall not change as a result of his attending the Summer Session at George Mason College. However, in cases of students requiring certification of good standing for participation in activities or for transfer to another school, the Registrar is authorized to determine the student’s standing on the basis of all hours attempted at George Mason College.

Standing

FOREIGN LANGUAGE PLACEMENT

All students who have studied French, German, or Spanish in high school and who intend to continue in the same language at George Mason College must take a language placement test. The placement tests for students entering in the fall of 1970 will be administered during registration week at a time to be announced. Students should take the placement test unless they are positive that they will not continue the language begun in high school.

Students offering one year of a high school language who begin that language over again at George Mason College will receive a grade and degree credit for both semesters. If a student offering two years of a high school language is placed in the first year of that language, he will receive a grade but no degree credit for the first semester, but will receive both a grade and degree credit for the second semester. Students offering three or four years of a high school language will not be allowed to take the first year of this language for degree credit; however, if they are placed in the second year of that language at George Mason College, they will receive grade and degree credit for both semesters. Students, who have previous training in a foreign language but who have not studied this language during the four years prior to registration at George Mason College, shall be allowed to take the first year of the language for credit. In the event that a student has received college credit in a foreign language but wishes to repeat all or part of that course work at George Mason College, the
student may not receive credit more than once for the same course.

Some students will have made progress in learning a language but may not qualify to go into the second year level. For students whose placement scores indicate this level of accomplishment, the College offers at convenient times such courses as French 103 and Spanish 103, which are one-semester reviews of the content of the first college year of language instruction.

ADVANCED PLACEMENT PROGRAM WITH CREDIT

First semester freshmen entering George Mason College who have completed advanced level courses in secondary schools and who have passed College Board Placement Examinations with scores of 5, 4, or 3, may enroll for those higher level courses for which the department concerned determines them to be qualified. Those who have ratings of 5 or 4 will be granted up to a maximum of thirty hours credit (without grades). Those who have ratings of 3 may be granted up to thirty hours credit (without grades) upon recommendation of the department concerned and with the approval of the Dean of the College, but the total number of hours granted may not in any instance exceed thirty. In all instances, advanced credit earned in this manner by entering freshmen will be counted toward or will fulfill any pertinent college or departmental graduation requirement. Students receiving advanced credits will be eligible immediately to enter the next higher level courses for which they possess the prerequisites.

ADVANCED PLACEMENT PROGRAM WITHOUT CREDIT

Entering first semester freshmen who do not qualify under the above provisions may establish their eligibility for admission to higher level courses on the basis of placement examinations prepared and administered by those departments desiring to participate. Transfer students may qualify to meet graduation requirements or requirements for a major field in courses listed in the catalog by examinations given by departments. All such examinations shall conform to College policy, shall be adequate to evaluate the competence and preparation of students in their respective areas, and shall afford a reliable basis for assigning students to advanced courses.
ACADEMIC REGULATIONS

CREDIT AND ADVANCED PLACEMENT
BY EXAMINATION

Proficiency examinations are offered to incoming freshmen degree candidates in a number of courses normally taken during the first two years. Examinations in courses in English, foreign languages, history, and mathematics will usually be announced by the appropriate departments. The foreign language placement test for incoming freshmen also serves as a proficiency examination. A satisfactory score on such an examination will afford a student credit for the course in question.

On the basis of examinations administered to candidates presenting some evidence of qualification, regularly enrolled students may be granted up to thirty semester-hours of undergraduate credit for other courses in the George Mason College curriculum. Credit is recorded for grades of "C" or above, but does not affect the student's grade point average. In addition:

1. A student may not earn credit by examination in a course in which he is enrolled beyond the time allotted for adding courses in that semester, or in a course which he has already audited or failed at George Mason College.

2. A student may not earn by examination part of the thirty hours which transfer students are required to complete at George Mason College to earn a degree.

3. Credit may not be earned by examination in foreign language at the 100 level but may be earned for foreign language courses at the 200 and 300 level.

These examinations will conform to College policies, be adequate to evaluate the competence of students, and afford a reliable basis for assigning students to more advanced courses.

CREDITS EARNED AT OTHER COLLEGES

The credits of students transferring from other institutions will be tentatively evaluated upon registration. In general, credits are accepted from institutions that are accredited by the appropriate regional association provided they carry a grade of "C" or better and are comparable to courses offered at George Mason. If such institutions are not accredited, the transcript information may be used for purposes of advanced placement, and transfer credit as such will be recommended after the performance of the student at George Mason has been established. A maximum of forty semester-hours will be transferred for extension work from regionally accredited institutions, and a maximum of six semester-hours may be transferred from correspondence courses sponsored by regionally accredited institutions. Permission to take courses at other colleges and universities, in extension centers, and by correspondence must be approved in advance by the Dean of the College.

A student who expects to take summer courses at other colleges and to transfer credit to this College must submit his request to the Dean of
the College by June 1. Catalog numbers and descriptions of courses shall be submitted with the request.

Military service courses represent special cases and generally no credit is given.

A student may not assume that credit will be given for work at other institutions until he has an official signed statement from the office of the Dean of the College.

It is the responsibility of the student to see that the Recorder's Office receives an Official Transcript of work taken elsewhere before his record here can be credited.

CLASS STANDING

The minimum number of credits required for advancement to each class is as follows: sophomore, twenty-four semester-hours; junior, fifty-four semester-hours; senior, eighty-four semester-hours. A minimum of one hundred twenty semester-hours is required for graduation.

Declaration of a Major

SELECTION OF MAJOR

In order to plan a sound academic program the student should select a major as soon as practical, and this selection should be made no later than four weeks before the end of the sophomore year. For the declaration of a major, the student should confer with his departmental chairman and/or faculty adviser and file the necessary form.

CHANGE OF MAJOR

A student who wishes to change a major from that which he has previously declared should obtain the necessary form from his faculty adviser.

DOUBLE MAJOR

A student who desires to graduate from George Mason College with a Bachelor of Arts degree in two subjects having established degree programs must meet departmental requirements for admission to the
ACADEMIC REGULATIONS

major in both fields. He must present at the time of his request a cumulative grade point average of at least 2.800.

The applicant should present to the chairmen of the departments involved a program showing in detail the curriculum he will pursue to graduation. This program must be approved by the departments involved and by the Dean of the College. The departments involved and the Dean must also approve all changes made thereafter.

In order to graduate with a double major, a student must complete all departmental requirements for both subjects. The student may begin the program at any time that permits its completion prior to the date of the student's contemplated graduation.

Second Bachelor's Degree

A second bachelor's degree may be earned, either concurrently or sequentially, by completing all requirements for that degree and by presenting on the degree application an additional thirty semester-hours of credit earned at George Mason College and not presented toward the first degree.

Honors

THE DEAN'S LIST

A student in the College is placed on the Dean's List of Distinguished Students if he has passed at least fourteen semester-hours of work in the preceding semester, without failure in any course, and with an average grade in all courses of at least "B."

GRADUATION WITH DISTINCTION

George Mason College will recognize a student as graduating with distinction who has a grade point average of 3.000, with high distinction a student with grade point average of 3.500, and with highest distinction a student with a grade point average of 3.800, based on all work taken within the University of Virginia system, and such recognition shall be limited to students who have had sixty hours or more within the University of Virginia system. (This distinction shall appear on the graduation program and on the student's transcript.)
ACADEMIC PROGRAMS

General
Graduate Studies
Summer Session
Major Programs
ACADEMIC PROGRAMS

Various academic programs are available to students at George Mason College. Courses of study leading to the Bachelor of Arts degree are available with majors in twelve areas: biology, business and public administration, chemistry, economics, English, French, history, mathematics, physics, psychology, Spanish, and sociology. Courses of study leading to the Bachelor of Science degree with majors in biology, mathematics, physics, a Bachelor of Science in Chemistry (B.S.Chem.), and a Bachelor of Science in Education (B.S. Ed.) with the major in elementary education are also available.

General

Information concerning graduate programs is presented in a separate publication which may be obtained upon request.

Graduate Studies

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

Summer Session

Major Programs

BIOLOGY

The arousal of the social conscience over pollution, uncontrolled population growth and the desecration of our natural heritage, has brought Biology to the frontier of national interest. Whether as professional biologists, or as interested citizens, biological technology will influence our lives to an increasing extent over the next few decades. It is towards a greater understanding of the responsibility of man and towards the ability to become involved in modern problems that our teaching is directed.

BUSINESS AND PUBLIC ADMINISTRATION

The rise of new industries with their products of commerce and the development and implementation of vast programs sponsored by state and national institutions require an ever-increasing supply of administrative talent on many different levels.
CHEMISTRY

Studies in this field provide basic training, both theoretical and experimental, in the four main branches of chemistry— inorganic, organic, analytical, and physical. It will prepare students for further studies in chemistry and related scientific fields including medicine. It will also provide fundamental training for careers in chemical industry, government scientific programs, and allied areas.

ECONOMICS

This program offers the student who is majoring in economics a realistic and workable knowledge of economics and complementary courses such as business and economic statistics and mathematics. The program in economics will provide undergraduate education leading to the baccalaureate degree for careers requiring such a degree, such as positions with business and government. The program will also prepare students for teaching economics at the high school level as well as for those who desire to pursue graduate level education leading to higher degrees.

ELEMENTARY EDUCATION

The program includes courses and activities designed to: (1) obtain certification in Virginia as a teacher of Grades 1-7, (2) meet standards developed by regional and national agencies for accreditation of teacher programs, and (3) meet other qualitative standards considered important, including an academic field of concentration. Positions for which students qualify through this program comprise the majority of all public school positions, and afford opportunity for developing many specialities through future graduate study.

ENGLISH

Studies in this field provide basic education in language and literature and prepare students to meet state and national needs for teachers, to enter graduate schools, and to enter writing positions in national agencies, in mass media, and in entertainment media. The major in English has also been traditionally a popular field of concentration for students seeking a general liberal arts education.
ACADEMIC PROGRAMS

FRENCH

The major in French language and literature prepares the student to meet state and national needs for high school teachers and for persons skilled in French in governmental and business positions requiring a knowledge of French. Many French major students normally enter graduate studies in French language and literature. The major in French has also been traditionally one of the fields of concentration appropriate for students seeking a general liberal arts education.

HISTORY

Governmental services, both state and federal, have evolved in order to meet the complex needs of today’s society. Graduates of this program, having had the benefit of a broad study of events and their effects upon institutions, are needed to (1) develop more effective programs, (2) guide and interpret the laws man makes for himself, and (3) instruct the succeeding generation.

MATHEMATICS

The B.A. program in mathematics is quite flexible and allows the student to prepare himself for a career as a mathematician in industry, government or secondary school teaching. The B.S. program is more ambitious and structured and is recommended for those students who want a strong mathematics background for graduate studies or research and development positions.

PHYSICS

The Department of Physics currently offers two degrees for the physics major. Those students who intend to pursue graduate studies or seek employment in government or industrial research laboratories should elect a B.S. degree. Those students who intend to teach in secondary schools, or pursue a career as a science technician or scientific information specialist would select the B.A. degree.

PSYCHOLOGY

This program offers the student who is majoring in psychology a wide background in the approaches to the understanding of behavior. This objective will be met by introducing the methodological procedures employed by psychologists and by applying these procedures to the
significant substantive areas of modern psychology. The staff of the department is also committed to providing these offerings within the framework of the liberal arts tradition by examining the interdisciplinary aspects of psychology. Students will be strongly advised to elect related areas of study such as biology, philosophy, and sociology, in addition to completing the thirty-five hour requirement for the degree. In this way the major program will provide students with the broad preparation required for graduate study in psychology as well as a versatile, broadly based program for the terminal degree student.

SOCIOLOGY

The student who majors in sociology is offered a comprehensive program designed to provide understanding of human interaction, group dynamics, social institutions, cultural and social relationships, social work and other related social phenomena. The program is developed in a liberal arts context with the student given guidance in undertaking relevant courses in other disciplines in addition to the requirements for a major in sociology. Thus, the student may acquire the necessary preparation for graduate study in sociology, or social work, or he may pursue a broadly based program if he terminates his college work with the baccalaureate degree.

SPANISH

The major in Spanish language and literature prepares the student to meet state and national needs for high school teachers of Spanish and for persons skilled in Spanish in government and business. Many Spanish students enter graduate studies in Spanish language and literature. The major in Spanish language and literature is also one of those appropriate for students seeking a general liberal arts education.
DEGREE REQUIREMENTS

General
Bachelor of Arts
Bachelor of Science
Bachelor of Science in Chemistry
Bachelor of Science in Education
Engineering
Transfer within the University
Professional School Entrance Requirements
General

The student should consult his faculty adviser and the Chairman of the Department in which the major is offered in order to plan a sound academic program and meet the general degree requirements stated below and specific requirements within a major field.

RESIDENCE REQUIREMENTS

At least thirty of the total semester-hours presented on the degree application must be completed at George Mason College; and these shall include at least twelve semester-hours of advanced-level courses in the major program. Moreover, except with special permission of the Dean of the College, the student's final thirty hours of college study must be completed here.

ACADEMIC ACHIEVEMENT

To qualify for a baccalaureate degree a student must be in good standing and must have satisfied all requirements for his program. In addition, he must have maintained a 2.000 (C) average in his major, and an average grade of 2.000 (C) on all courses presented for the degree.

A Graduation Appeals Committee has been established to consider appeals in writing from students who may be two grade points and/or one semester-hour short of meeting degree requirements and to report recommendations to the faculty.

APPLICATION

Students who expect to complete graduation degree requirements in 1971 must secure an Application for Degree Form from the Recorder's Office, complete, and return it 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.

Students are required to attend the Commencement Exercise at which their degrees are to be conferred. Requests to be excused from such attendance should be made in writing to the Dean of the College.
DEGREE REQUIREMENTS

Bachelor of Arts

I. Arts and Literature ................................................. 12-36
   a. English Composition (0-6)
   b. Literature (6)
      This requirement must be met by taking any one of the two-semester sequences of literature courses offered at the 200 level carrying the "English" designation.
   c. Art, music, philosophy (6)
      Music 113, 114, 115, 116, 181, 182, 183, 184, 251 and applied courses such as music lessons or art studio courses may not be used to meet this requirement.
   d. Foreign language requirement (0-18)
      Depending upon placement, each student must present three years in one foreign language, including one year in third-year literature courses, or two years each of two different foreign languages.

II. Social and Behavioral Sciences .................................. 12
    Disciplines included are grouped as follows:
    Group A: anthropology, psychology, sociology
    Group B: economics, government, history
    Six semester-hours are required from each group.

III. Mathematics and Natural Sciences ............................ 11
     Mathematics, geology, physics, astronomy, biology, chemistry. Eight of the required semester-hours must be in a two-semester sequence requiring laboratory work. The remaining three semester-hours may be met by the completion of a course in mathematics or in another science.

IV. Non-Western Culture ............................................. 6
    Six credits must be earned in courses devoted to non-Western culture.
    For the present, the following courses are designated as meeting this requirement:
    a. Anthropology 102: Social Anthropology
    b. Art 221: History of Ancient Art
    c. English 393: Far Eastern Literature in Translation
    d. History 241, 242: A Survey of East Asian Civilization
       History 261, 262: Survey of African Civilization
       History 281, 282: Survey of Middle Eastern Civilization
       History 328: Rise of Russia
       History 329: Modern Russia and The Soviet Union
       History 361: Latin-American History: The Colonial Era
    f. Religion 221: Comparative Religion: The Near East
       Religion 222: Comparative Religion: The Orient
    The courses meeting this requirement may also be presented in partial fulfillment of requirements stated in Sections I and II.
V. Major .........................................................30-42
   Credits as specified by fields.

VI. Total minimum semester-hours ..............................120

The new graduation requirements for the B.A. degree became effective for all freshmen who entered in the fall of 1968 or who enter thereafter and for all transferring students graduating in June 1972 or later. Students enrolled prior to September 1968 and transfer students who will graduate before June 1972 may elect to fulfill either the new or old (1967-1968 catalog) requirements.

Bachelor of Science

I. At least twelve semester-hours in the major field beyond the minimum requirement for the B.A. degree in that field, the total number of hours in the major not to exceed 54.

II. At least one course beyond the 201-202 level in one language; or the 201-202 level in one language plus at least one year in another.

III. At least 12 semester-hours of electives exclusive of the natural sciences and mathematics.

IV. Semester-hours in mathematics as specified by fields.

V. At least 12 semester-hours in English.

VI. Total minimum semester-hours, 120.

Bachelor of Science in Chemistry

Students are required to fulfill the general requirements for the Bachelor of Science degree as well as specific requirements specified on page 66.

Bachelor of Science in Education

Because of the nature of this program, specific items are not listed here but are shown in detail including the minimum requirement of 124 semester-hours on pages 69 and 70.
DEGREE REQUIREMENTS

Engineering

(Two Years Only)

This program is designed for students planning to transfer to other colleges and universities. Students, who undertake the engineering program at George Mason College, should plan on an additional three years being required at the University of Virginia and possibly at other colleges to which they may transfer in order to complete the baccalaureate degree in engineering. See Chapter VII, page 102.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101-102: Composition</td>
<td>6</td>
</tr>
<tr>
<td>Chemistry 101-102: General Chemistry</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 113, 114: Analytical Geometry and Calculus I, II</td>
<td>8</td>
</tr>
<tr>
<td>Engineering 183, 184: Graphics</td>
<td>4</td>
</tr>
<tr>
<td>Engineering 185: Statics</td>
<td>2</td>
</tr>
<tr>
<td>Engineering 186: Dynamics</td>
<td>2</td>
</tr>
<tr>
<td>Physics 113, 114: General Physics I, II</td>
<td>4</td>
</tr>
<tr>
<td></td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 213, 214: Analytical Geometry and Calculus III, IV</td>
<td>6</td>
</tr>
<tr>
<td>Physics 213, 214: General Physics III, IV</td>
<td>6</td>
</tr>
<tr>
<td>Physics 215, 216: General Physics III, IV Laboratories</td>
<td>4</td>
</tr>
<tr>
<td>Engineering 207: Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 208: Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 285: Electric Circuits</td>
<td>3</td>
</tr>
<tr>
<td>Engineering 302: Electronics</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>29</td>
</tr>
</tbody>
</table>
Transfer within the University

Students who wish to transfer to Charlottesville or to University Colleges within the University system should contact the particular school in which they are interested for application forms and information.

Professional School Entrance Requirements

LAW

To be admitted to the School of Law of the University of Virginia an applicant must have received his Bachelor's degree. The School of Law has recommended the following subjects for a pre-legal curriculum: English, Latin, French, German, Spanish, Italian, history, natural science, mathematics, accounting, political science, economics, psychology, public speaking. The pre-legal requirements may be met as a part of the program for the Bachelor of Arts degree.

MEDICINE

The minimum requirement for admission to the School of Medicine of the University of Virginia is ninety semester-hours of academic courses, although completion of the curriculum leading to the degree of Bachelor of Arts is encouraged. Courses in inorganic chemistry, organic chemistry, biology, physics, and English are required, but concentration in the sciences is not essential. Medicine is concerned with a variety of social and community problems, and a broad cultural background is considered desirable.

The pre-medical course for each student should be planned in keeping with his interests. Development of an efficient method of study and habit of reasoning is more important than the selection of subjects. Requirements may be met within the programs leading to the degree of Bachelor of Arts.

Properly prepared students may help satisfy admission requirements to other schools of law and medicine as well as schools of dentistry, pharmacy and veterinary medicine by taking the general basic courses required for admission.
COURSES OF INSTRUCTION

Introduction

Department of Behavioral Sciences
Department of Biology
Department of Chemistry
Department of Education
Department of English
Department of Foreign Languages
Department of History
Department of Humanities
Department of Mathematics
Department of Physics
Department of Social Sciences
Introduction

The number and variety of courses will be increased as needed. 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.

Course numbers in the 100 series are customarily taken by freshmen, the 200 series by sophomores, the 300 series by juniors, and the 400 series by seniors.

The number designations of the course descriptions below have the following significance:

A single number (as History 222) indicates that the course is complete within a single semester, and that the semester course may be taken separately with credit toward a degree.

A double number separated by a hyphen (as Biology 101-102) indicates that the course extends throughout a session of two semesters, that both semesters must be completed before the course may count toward a degree, and that the first semester is prerequisite to the second semester. A student may not take the second semester of a hyphenated course unless he has received either transfer credit for the equivalent of the first semester or advanced placement from the department concerned.

A double number separated by a comma (English 323, 324) indicates that the course extends throughout a session of two semesters and that either semester may be taken by itself. Unless otherwise specified, the first semester is not prerequisite to the second semester.

In general, an odd number (as Biology 101) indicates that the course is given in the first semester of the session; an even number (Biology 102) indicates that the course is given in the second semester.

The credit in semester-hours is shown in brackets in each course description [3].
COURSES OF INSTRUCTION

Department of Behavioral Sciences

Associate Professor Mandes
Assistant Professors Cohen, E., Cohen, S., McKeithen, Tavani
Instructor MacConkey
Lecturers Hartley, Hiller, Mellinger, Robins, Wakefield

PSYCHOLOGY

Requirements for the Major

The major program in psychology culminates in a Bachelor of Arts degree. In addition to the general requirements for that degree set forth in the academic regulations of the College, thirty-five semester-hours in psychology including Psychology 321, 322, and 411 must be presented. Students are strongly advised to elect relevant courses in biology, philosophy, sociology, and anthropology in addition to these requirements.

Not more than forty-two hours in psychology may be submitted in fulfillment of the degree program, but hours of credit in excess of that number may be counted toward graduation as elective hours.

Courses

101-102: GENERAL PSYCHOLOGY. [3-3]
Prerequisite to all other courses in Psychology. Psychology 101 or permission of instructor is required for Psychology 102. An examination of the principles of behavior and of certain of the experimental data supporting them. Maturation of behavior; learning; motivation; emotion, sensory and perceptual processes; thinking; personality; measurement of ability; organic bases of behavior; small group behavior, and other social factors affecting behavior.

201: SOCIAL PSYCHOLOGY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A study of man's development in a social matrix, stressing particularly interpersonal behavior. The topics presented include socialization, cultural behavior, group norms, group roles, types of leadership, intragroup status, and attitude formation.

202: PERSONALITY THEORY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. An introduction to classical and contemporary theories of personality and a comparative evaluation of major theories in terms of relevant research studies. Journal and other literature is used to introduce research methods and problems.
203: PSYCHOLOGY OF CHILDHOOD. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A study of the process of human development from conception to adolescence. Genetic factors and environmental influences as they interrelate to shape physical, intellectual, emotional and social growth are considered. Pertinent psychological theories and the research findings upon which they are based are presented.

204: PSYCHOLOGY OF ADOLESCENCE. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A study of the biological and cultural changes accompanying adolescence and the effect of these changes on emotional, intellectual, and physical growth; social development and heterosexuality; adolescent personality; problems of adjustment; civic competence and juvenile delinquency; emancipation from parents, and vocational choice.

301: ABNORMAL PSYCHOLOGY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A study of factors underlying human behavior and the relationships between these factors and abnormal behavior. Special emphasis is placed upon the dynamics of maladjustment which result in neuroses and psychoses.

302: ABNORMAL PSYCHOLOGY. [3]
Prerequisite: Psychology 301 or permission of instructor. A study of the development of abnormal behavior patterns. Also considered are present-day methods of diagnosis, treatment and prevention of serious mental disorders such as psychosomatic disorders, the psychoses, character disorders and mental retardation.

307: PHYSIOLOGICAL PSYCHOLOGY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. Biology is desirable but not required as a prerequisite. A systematic examination of the physiological mechanisms and processes, neural and chemical, underlying behavior.

308: PSYCHOLOGY OF MOTIVATION. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A survey of contemporary approaches to motivational theory in terms of such concepts as instinct, drives, reward and punishment, curiosity and exploration, frustration and conflict, and selected acquired sources of motivation.

313: PSYCHOLOGY OF LEARNING. [3]
Prerequisite: Psychology 101-102. A survey of the basic principles of human and animal learning, with attention to factors which influence memory, discrimination, and problem solving.

315: PSYCHOLOGY OF PRODUCTIVITY AND SATISFACTION. [3]
Prerequisite: Psychology 101-102 or permission of instructor. This course will concern those facets of psychological research which have been effectively applied to improved production and satisfaction of the individual. It will integrate research findings in industrial psychology and related fields of study.
COURSES OF INSTRUCTION

318: PERSONNEL MEASUREMENT. [3]
Prerequisite: Psychology 101-102 or permission of instructor. This course will deal with the theoretical basis, construction, utilization and interpretation of all important personnel measurement devices. Primarily, the application blank, interview, and performance rating scale will be examined.

321: STATISTICAL METHODS IN EXPERIMENTAL PSYCHOLOGY. [4]
Prerequisite: Psychology 101-102 and nine additional hours in psychology. A methodological approach to experimental psychology. The use of statistical inference techniques and experimental design found in contemporary psychological inquiry are examined. Three class hours, four laboratory hours.

322: EXPERIMENTAL PSYCHOLOGY. [4]
Prerequisite: Psychology 321 or permission of instructor. A content approach to experimental psychology. Lecture topics include classical and contemporary studies in sensation and perception, animal and human learning, concept formation, and psycholinguistics. Laboratory experiments will provide students with semi-independent research experience with these topics. Three class hours, three laboratory hours.

401: PSYCHOLOGICAL TESTS AND MEASUREMENTS. [3]
Prerequisite: Psychology 101-102 or permission of instructor. An examination of principles underlying the theory, interpretation, and administration of psychological tests for evaluating personality attributes as employed in schools, industry, and clinics. A survey of representative tests in the fields of intelligence, achievement, aptitude, interests and personality is undertaken.

402: PSYCHOLOGY OF BUSINESS AND INDUSTRY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. An examination of the application of psychological principles and methods to problems commonly encountered in business and industry.

411: HISTORY AND SYSTEMS OF PSYCHOLOGY. [3]
Prerequisite: Psychology 101-102 and six additional hours of psychology. A survey of the development of psychology from its earliest antecedents to the present. The historical continuity of important issues and ideas is stressed, and basic questions regarding the nature of psychological inquiry are discussed.

415: HUMAN FACTORS ENGINEERING. [3]
Prerequisite: Psychology 101-102 or permission of instructor. This course will investigate the complex man-to-man and man-to-machine interactions found in industry today. It will involve an understanding of those techniques utilized for the proper assignment of functions between man and machine. Extensive empirical research findings and their theoretical basis will be examined.
GEORGE MASON COLLEGE

428: TEST CONSTRUCTION. [3]
Prerequisite: Psychology 401 or permission of instructor. This course will examine those techniques utilized in the construction of a psychological test for industry. It will delve into both the theoretical and applied aspects of industrial test construction. Emphasis will be placed upon those specialized techniques used for the construction of the selection and promotion tests.

431: PERCEPTION. [3]
Prerequisite: Psychology 101-102 or permission of the instructor. An investigation of the experimental psychology of perception with an emphasis on current theories and research.

480: SEMINAR IN PSYCHOLOGY. [2]
Prerequisite: Enrollment is restricted to senior majors in psychology. This course may be taken for credit only once by a student. Topics of contemporary interest in psychology will be offered through individual class reports and group discussion. The topic to be studied will vary from semester to semester.

499: INDEPENDENT STUDY IN PSYCHOLOGY. [3]
Prerequisite: Psychology 322, a "B" average in psychology, and a research proposal approved in advance of enrollment by the instructor and the chairman of the department. Open to senior majors only. Investigation of a psychological problem according to individual interest with stress on research methods.

SOCIOLOGY

Requirements for the Major

Students majoring in sociology must satisfy the area requirements set for the Bachelor of Arts degree at George Mason College. In addition, they must present thirty-three hours of work in sociology, to include Sociology 101, 303 and 483. Six hours of statistics must be completed in addition to the thirty-three hours of sociology mentioned above. Students are advised to elect relevant courses in anthropology, biology, philosophy and psychology in addition to these requirements.

Not more than forty-two credit hours in sociology may be submitted for the degree requirements. Additional credit hours in sociology may be counted as elective hours on the degree application form.

Courses

101: INTRODUCTORY SOCIOLOGY. [3]
An introduction to basic sociological concepts. Aspects of human behav-
COURSES OF INSTRUCTION

ior; individual and group interaction; social mobility and stratification; status and class; race relations; urbanism; crime and criminology; social change and reform.

102: MODERN SOCIAL PROBLEMS. [3]
Prerequisite: Sociology 101 or permission of instructor. A sociological analysis of the problems of modern society, including those related to stratification, urbanism, family and kinship, cultural change, and deviant behavior.

201: MARRIAGE AND THE FAMILY. [3]
Prerequisite: Sociology 101 or permission of instructor. A study of marriage and the family in contemporary America. Premarital behavior and courtship, marital adjustment; socialization of children. Lectures and discussions.

232: SOCIOLOGY OF URBAN COMMUNITIES. [3]
Prerequisite: Sociology 101 or permission of instructor. An analysis of the urban community: historical development, demography, and ecology of metropolitan areas; urbanism as a way of life; the emergence of suburbia as a sociological phenomenon.

252: INTRODUCTION TO SOCIAL SERVICE. [3]
Prerequisite: Sociology 101 and 102. An introduction to the principles and methods of social work and to the philosophy, values, functions, methods, and values of social service as a profession.

301: CRIMINOLOGY. [3]
Prerequisite: Sociology 101 or permission of instructor. An analysis of the nature, genesis, organization, and personal and social consequences of crime and criminal behavior; an examination of theories of punishment and treatment of criminals and prevention of crime; police and court systems, prisons, and reformatories.

302: SOCIOLOGY OF DELINQUENCY. [3]
Prerequisite: Sociology 101 or permission of instructor. An inquiry into the types, causes, treatment and prevention of delinquent behavior.

303: SOCIOLOGICAL RESEARCH METHODOLOGY. [3]
Prerequisite: Business Administration 261-262 or permission of instructor. An introduction to empirical design in sociological research. Historical development, research design, sampling, methods of gathering data, sociometric scales, analysis and interpretation of results, and research reporting are examined.

304: SOCIOLOGY OF INDUSTRY. [3]
Prerequisite: Sociology 101 or permission of instructor. An introductory survey of industrial sociology stressing: the relationship between industry and society; industry and the community; work groups and work relations, the role of workers in work groups; and the social organization within industry.
307: SOCIOLOGY OF COLLECTIVE BEHAVIOR. [3]  
Prerequisite: Sociology 101 or permission of instructor. An analysis of crowds, mobs, and publics. The structure and function of social movements distinguished from other forms of collective behavior are examined. Includes examination of leadership in various types of collective behavior.

308: SOCIOLOGY OF RACE RELATIONS AND MINORITIES. [3]  
Prerequisite: Sociology 101 or permission of instructor. Sociology 102 is desirable. An examination of ethnic and nationality minority groups in modern society with particular emphasis on the Negro in the United States.

363: ORGANIZATION OF COMMUNITY RESOURCES. [3]  
Prerequisite: Sociology 252 or permission of instructor. An analysis of the community organization as a planning process to meet human needs and to prevent social ills. A view of the role of the professional, the citizen participant and the power structure in community decision-making.

382: EDUCATION IN CONTEMPORARY SOCIETY. [3]  
Prerequisite: Sociology 101 or permission of instructor. The study of education as a social institution. Its function as a socializing agency for social stability and social change, the influences of social class elements on the educational process, and the social organization of the U.S. public school system are emphasized.

401: SOCIAL STRATIFICATION. [3]  
Prerequisite: Sociology 101 or permission of instructor. An examination of theories of and research in social stratification. Attention is given to western and nonwestern systems of social differentiation, with emphasis on selected bases of occupational and other social structures, of social mobility, and status relations in society.

483: SOCIOLOGICAL THEORY. [3]  
Prerequisite: Sociology 101. The sociological tradition will be explored through readings and discussions of ideas drawn from the writings of selected sociological thinkers, such as Comte, Marx, Weber, Durkheim and others.

ANTHROPOLOGY COURSES

101: HUMAN EVOLUTION AND PREHISTORY. [3]  
The origin and evolution of man based upon the fossil record; the status of modern racial groupings; the history of human society from the earliest times to the rise of the civilizations in the old and new worlds.
COURSES OF INSTRUCTION

102: SOCIAL ANTHROPOLOGY. [3]
The comparative study of culture (including language) and the social institutions of mankind with particular reference to primitive and peasant societies. Certain aspects of Western culture will be considered from this perspective.

211: PRE-COLUMBIAN CIVILIZATIONS OF THE AMERICAS. [3]
A survey of indigenous high civilizations in the Central Andes and Mesoamerica. Inca, Mayan, and Aztec imperial cultures are contrasted with one another and with the Hispanic colonial empire.
Department of Biology

Professor Emsley (Chairman)
Associate Professors Stanley, Wall
Assistant Professors Adelman, Andrykovitch, Bradley, Shaffer
Acting Assistant Professor Flint
Instructors Heath, Parks, Withers

REQUIREMENTS FOR THE MAJOR

B.A. Degree.-A minimum of thirty-two semester-hours in biology is required for the B.A. degree with a major in biology. The courses selected must include the core consisting of 113-114: Biological Science; 283: Cell Biology; 311: General Genetics; and 445: Ecology; and will normally be taken in the first, second, third and fourth years of study respectively. Biology credit may be gained in Physiological Psychology and Introductory Biochemistry. General Chemistry is required and Organic Chemistry, Physical Chemistry and Introductory College Physics and Calculus are recommended.

B.S. Degree.—To receive a B.S. degree with a major in biology a minimum of forty-four semester-hours in biology is required. The same core courses, taken in their respective years, are required as for the B.A. degree, but Organic Chemistry is required in addition to General Chemistry. Biology credit may be gained in Physiological Psychology and Introductory Biochemistry. Physical Chemistry, Introductory College Physics, Calculus and Introductory Statistics are recommended.

COURSES

103-104: MAN AND HIS ENVIRONMENT. [4-4]
Biological science for non-majors. A sequence of eight topics in biology that are relevant to the problems facing modern man: theories of the origin of life, energy and environment, survey of living organisms, plant and animal communities, vertebrate organization, the mechanisms of inheritance, evolution, the species man. Three lecture hours, three laboratory hours. Neither semester may be combined with 101-102, or 113-114 for fulfillment of the science requirement. Only twelve semester-hours of credit may be earned in 100 level Biology courses. Students who have taken Biology 101-102: General Biology, are not eligible to take this course.

113-114: BIOLOGICAL SCIENCE. [4-4] or [2-2 if credit has been previously earned in 103-104]
An introductory course for intending biology majors and pre-professionals in the life sciences. The study of living organisms, their origin and types; the principles of metabolism, growth, reproduction, heredity, adaptation, and evolution. Three lecture hours, three laboratory hours.
Only twelve semester-hours of credit may be earned in 100 level Biology courses. Special note: Though General Biology: 101-102 will not be of-
COURSES OF INSTRUCTION

Offered in September 1970 or thereafter as a two-semester sequence, subject to adequate demand 102 may be offered for those students who have already gained credit in 101. Students who have taken Biology 101-102: General Biology, are not eligible to take this course.

221: VERTEBRATE ZOOLOGY. [5]
Prerequisite: Biology 101-102 or 113-114, or permission of instructor. A study of the evolution, natural history, and structural and functional adaptations of the major groups of vertebrates. The laboratory emphasizes the comparative anatomy of the shark and cat and provides an introduction to vertebrate histology. Three lecture hours, six laboratory hours.

244: TAXONOMY OF FLOWERING PLANTS. [4] (Offered in alternate years)
Prerequisite: 8 semester-hours of credit in 100 level Biology or permission of the instructor. A study of the principles of classification and identification of flowering plants (Anthophyta) with emphasis on the local flora. Three lecture hours, three laboratory hours.

245: PLANT COMMUNITIES. [4]
Prerequisite: 8 semester-hours of credit in 100 level Biology or permission of the instructor. Plant associations and formations and their successions in North America. Three lecture hours, three laboratory hours.

281: MICROBIOLOGY. [4]
Prerequisites: Biology 101-102 or 113-114, and 283, or permission of the instructor. Fundamentals of the morphology, physiology, and biochemical characteristics of bacteria, rickettsia, and viruses. Three lecture hours, three laboratory hours.

283: CELL BIOLOGY. [4]
Prerequisites: Biology 101-102 or 113-114, Chemistry 101, or permission of instructor. The study of cellular structure and function including cellular fine structure, metabolism, growth, active transport, and cellular regulation. Three lecture hours, three laboratory hours.

311: GENERAL GENETICS. [4]
Prerequisites: Biology 101-102 or 113-114, 283, or permission of the instructor. A study of the basic principles of heredity and the modern developments in the field. Three lecture hours, three laboratory hours.

322: PATTERNS OF ANIMAL DEVELOPMENT. [4]
Prerequisites: Biology 101-102 or 113-114, and 283, or permission of instructor. The early development and organogenesis of animals with a discussion of the phenomena of fertilization, induction, growth, and differentiation. The laboratory presents the developmental patterns of major groups of animals with emphasis on the echinoderm, mollusk, insect, frog, and chicken. An introduction to some techniques of experimental embryology is included. Two lecture hours, six laboratory hours. Students who have taken Biology 222: Vertebrate Embryology, are not eligible to take this course.
331: INVERTEBRATE ZOOLOGY. [4]
Prerequisite: Biology 101-102 or 113-114, or permission of instructor. Survey of the invertebrate phyla, excluding insects, to show the morphology, phylogeny, and general biology of these groups. Three lecture hours, three laboratory hours.

332: INSECT BIOLOGY. [4]
Prerequisite: 8 semester-hours of credit in 100 level Biology or permission of instructor. A survey of the insects including taxonomy, morphology, physiology, behavior, and ecology. The laboratory emphasizes experimental methods. Three lecture hours, three laboratory hours.

342: PLANT MORPHOLOGY. [4] (Offered in alternate years)
Prerequisite: Biology 101-102 or 113-114 or permission of instructor. Origin and development of organs and tissue systems of plants, with phylogenetic comparisons beginning with mosses and liverworts and continuing with vascular plants. Three lecture hours, three laboratory hours.

343: ALGAE AND FUNGI. [4]
Prerequisite: Biology 101-102 or 113-114 or permission of instructor. An introduction to the biology of the algae and fungi with emphasis on their morphology, nutrition and ecology and on their evolutionary relationships. The laboratory will also deal with the culture, collection, identification, and preservation of these forms. Three lecture hours, three laboratory hours.

362: MAMMALIAN PHYSIOLOGY. [4]
Prerequisites: Biology 101-102 or 113-114, 283, Chemistry 102, or permission of instructor. A general survey of the anatomy and function of the mammalian organ systems. Three lecture hours, three laboratory hours.

411: ADVANCED GENETICS. [4]
Prerequisite: Biology 311 or the equivalent. Advanced classical, physiological and population genetics with emphasis on problems in current research. Three lecture hours, three laboratory hours.

412: MICROBIAL GENETICS. [4] Prerequisites: Biology 101-102 or 113-114, and 281, or permission of instructor. An introduction to genetic principles and methodology applicable to microorganisms. The chemical nature, fine structure, and function of the gene as revealed by the study of microorganisms. Three lecture hours, three laboratory hours.

Prerequisites: Biology 101-102 or 113-114, 283, and 311, or permission of instructor. The physical environment, energy flow, populations as units of structure and function, the dynamics of communities and succession. The laboratory work will include a study of some ecosystems in the Northern Virginia area. Three lecture hours, three laboratory hours.

462: ADVANCED CELLULAR PHYSIOLOGY. [4]
Prerequisites: Biology 101-102 or 113-114, 283, Chemistry 101-102;
COURSES OF INSTRUCTION

corequisite or prerequisite: Chemistry 214; or permission of instructor. Study of the fundamental physiological properties and correlated anatomy of cells. Three lecture hours, three laboratory hours.

464: PLANT PHYSIOLOGY. [4]
Prerequisites: Biology 101-102 or 113-114, 283, or permission of instructor. The function of plant cells and plant organ systems with emphasis on water relationships, photosynthesis, mineral nutrition, and growth development. Three lecture hours, three laboratory hours.

471: EVOLUTION. [3]
Prerequisites: Biology 101-102 or 113-114, 283, and Biology 311, or permission of instructor. A study of the process of evolution with emphasis on the role of genetics, the properties of populations, and upon population differentiations. Three lecture hours.

473: FIELD STUDIES IN BIOLOGY. [4]
Prerequisite: 8 hours of credit in 100 level Biology or permission of instructor. A course for the biology teacher, or the natural historian, on the identification and biology of plants and animals in the Northern Virginia area. Three lecture hours, three laboratory hours.

497-498: SPECIAL PROBLEMS IN BIOLOGY. [2-2]
Prerequisite: Enrollment is restricted to senior majors in biology with permission of the instructor. A laboratory or field investigation under the guidance of a member of the staff. Students who have taken Biology 499: Special Problems in Biology, are not eligible to take this course.
Department of Chemistry

Professors Walter (Chairman), Krug
Associate Professor Feinstein
Assistant Professors Cozzens, Mushrush
Instructors Eassa, Hawkins
Lecturer Loeb

Requirements for the Major

B.A. Degree.—A minimum of thirty-two semester-hours in chemistry is required for a B.A. degree with a major in chemistry. These must include Chemistry 101-102, 213-216, 321, 331, 332, 336, and 337. The language requirement is satisfied by German or French, although German is recommended for those planning a professional career in chemistry. Additional minimum requirements include Mathematics 113, 114, 213 and Physics 101-102.

B.S. in Chemistry Degree.—Minimum course requirements are:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>44</td>
</tr>
<tr>
<td>English</td>
<td>12</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>18</td>
</tr>
<tr>
<td>Mathematics</td>
<td>14</td>
</tr>
<tr>
<td>Physics</td>
<td>14</td>
</tr>
<tr>
<td>Electives</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

Students are required to complete the equivalent of Language 202 in either German or Russian and an additional year in a second language, either German, Russian, or French. Required courses in chemistry must include those indicated for the B.A. degree plus Chemistry 422, 441, and 445.

Courses

101-102: General Chemistry. [4-4]
A survey of the basic facts and principles of chemistry including atomic and molecular structure, the gas laws, kinetics, equilibrium, electrochemistry, and nuclear chemistry. The properties and uses of the more important elements and their compounds. Students majoring in science, engineering, or mathematics should choose this course. Three lecture hours, three laboratory hours.
COURSES OF INSTRUCTION

103-104: INTRODUCTORY COLLEGE CHEMISTRY. [4-4]
A terminal course in chemistry designed for non-science majors. A survey of the principles and application of chemistry. Less quantitative than Chemistry 101-102 with more application of chemical principles to everyday living. Three lecture hours, three laboratory hours.

213-216: ORGANIC CHEMISTRY. [4-5]
Prerequisite: Chemistry 101-102. The theoretical, synthetic, industrial and biological aspects of the chemistry of carbon compounds. 213: Three lecture hours, three laboratory hours; 216: three lecture hours, six laboratory hours.

321: ELEMENTARY QUANTITATIVE ANALYSIS. [4]
Prerequisite: Chemistry 101-102. Chemical principles with particular emphasis on ionic equilibria. The laboratory work consists of gravimetric, volumetric and instrumental methods illustrating the principal types of quantitative determinations. Two lecture hours, six laboratory hours.

331: PHYSICAL CHEMISTRY I. [3]
Prerequisite: Chemistry 101-102, Mathematics 113, 114. Prerequisite or corequisite: Physics 101-102. This course and Chemistry 332 constitute a year-long survey of physical chemistry covering topics such as thermodynamics, equilibria, kinetics, solution properties, elementary quantum theory, electrochemistry, atomic and molecular structure, and nuclear chemistry. Three lecture hours.

332: PHYSICAL CHEMISTRY II. [3]
Prerequisite: Chemistry 331. Continuation of Chemistry 331. Three lecture hours.

336: PHYSICAL CHEMISTRY LABORATORY I. [1]
Prerequisite or corequisite: Chemistry 331. Quantitative experimental study of physical chemical principles. This course and Chemistry 337 constitute a yearlong introduction to laboratory practices and theories of experimental physical chemistry. Three laboratory hours.

337: PHYSICAL CHEMISTRY LABORATORY II. [1]
Prerequisite or corequisite: Chemistry 331. Continuation of Chemistry 336. Three laboratory hours.

422: INSTRUMENTAL ANALYSIS. [4]
Prerequisite: Chemistry 321; prerequisite or corequisite: Chemistry 331 or permission of instructor. A study of the application of physiochemical methods to analytical chemistry, i.e., the quantitative study of chemical reactions by use of modern analytical instrumentation. It offers the student an introduction to the theory and practice of emission spectroscopy; ultraviolet, visible, and infrared absorption spectroscopy; electrical methods of analysis; gas chromatography; nonaqueous studies; and ion exchange. Two lecture hours, six laboratory hours.
432: ATOMIC AND MOLECULAR STRUCTURE. [3]  
Prerequisite: Chemistry 331, 332. An introduction to modern theories of the nature of the chemical bond and application of these theories to the dynamics of chemical systems. Studies are made of the various experimental techniques which are applied to the elucidation of molecular structure. Three lecture hours.

441: INORGANIC CHEMISTRY. [3]  
Prerequisite: Chemistry 213-216, 321. Descriptive chemistry of inorganic elements and compounds is used to demonstrate principles and periodic relationships. Emphasis is on structure and bonding as related to properties. Three lecture hours.

445: INORGANIC PREPARATIONS AND TECHNIQUES. [3]  
Prerequisite: Chemistry 321. Application of the techniques of inorganic chemistry to the preparation and purification of selected substances. One lecture hour, six laboratory hours.

451, 452: SPECIAL PROJECTS IN CHEMISTRY. [2, 2]  
Prerequisite: Senior standing in chemistry and permission of the instructor. An introduction to chemical research or development. Will include literature search, conferences, and laboratory. Written and oral technical reports are required. Six hours weekly.

461: INTRODUCTORY BIOCHEMISTRY. [3]  
Prerequisite: Chemistry 213-216. Chemistry and intermediary metabolism of carbohydrates, lipids, proteins, and nucleic acids. Interrelations among the carbon, nitrogen, and energy cycles. Three lecture hours.
COURSES OF INSTRUCTION

Department of Education

Professors Gibson (Chairman), Joy
Associate Professors Azarowicz, Eaves, Snyder
Assistant Professors Aebischer, Austin, Murrell, Richardson, Spuhler
Acting Assistant Professor Gray
Instructor McAdams

REQUIREMENTS FOR PROSPECTIVE TEACHERS

The Teacher Education Program admits students on an individual selective basis and provides for continuous review of their progress to assure that those graduating as teachers can be fully recommended for their role in directing the learning activities of children and youth. This program is designed to produce teachers who upon completion of the Bachelor's degree will qualify for the Virginia Collegiate Professional Certificate, and will otherwise be well fitted to make a successful beginning as a professional teacher.

Formal application to enter the Teacher Education Program is to be made in that semester prior to enrollment in the third professional course (Education 312 or 321), and an individual's admission to the program must be granted by the Teacher Education Committee before registration in those courses.* In granting admission to the program this Committee will give consideration to emotional balance, personality, leadership qualities, ability in oral expression, moral character, and freedom from disqualifying physical and health conditions, as stipulated in part in Virginia "Certification Regulations for Teachers", page 3, as follows:

I. Applicant must be a citizen of the United States, must be at least 18 years of age, and must possess good moral character.

II. Applicant must have good health and no disqualifying physical or emotional handicaps. Evidence of fitness to teach from the standpoint of health may be required from a qualified physician.

Qualification for admission also includes a 2.000 grade point average. Continuing review of qualifications as a teacher is conducted throughout the program to include interview and appropriate tests in Education 301, and a 2.100 grade point average for enrolling as a student teacher.

*For special students who hold a degree and seek certification, the professional sequence includes 28 hours for elementary (Ed. 301, 311, 312, 409, 410, 415, 417 and Health 301), and 18 hours for secondary (Ed. 301, 311, 321, 411 and 421), or substitute transfer credit.
**TEACHING IN HIGH SCHOOL**

The program for *teachers in high school* requires the completion of eighteen (18) semester-hours of work as follows: Education 301, 311, 321, 421, and 411 (Student Teaching). In addition to or as a part of B.A. requirements in the College, work taken must include American history, two (2) semester-hours of health, two (2) semester-hours in physical education, and twelve (12) semester-hours in a combination of science and mathematics. Also recommended are courses in economics and speech.

**TEACHING IN ELEMENTARY SCHOOL**

The program for *teachers in elementary school* is indicated in the listing of requirements given in a typical recommended sequence, as follows, totaling 124 hours or more in the degree of Bachelor of Science in Education.

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman</strong></td>
<td><strong>2nd Semester</strong></td>
</tr>
<tr>
<td>Eng. 101</td>
<td>Eng. 102</td>
</tr>
<tr>
<td>Psych. 101</td>
<td>Psych. 102</td>
</tr>
<tr>
<td>For. Lang. (101 or 201)</td>
<td>For. Lang. (102 or 202)</td>
</tr>
<tr>
<td>History 101 (or 102)</td>
<td>Hist. 121 (or 122)</td>
</tr>
<tr>
<td>Econ. 101</td>
<td>Geography</td>
</tr>
</tbody>
</table>

**Sophomore**

| Eng. 201 or 203 | Eng. 202 or 204 |
| For. Lang. (201 or 301) | For. Lang. (202) or concentration |
| Health 210      | Music 251      |
| Natural Science | Natural Science |
| Art 101         | Speech 151     |

**Junior**

| English, 300 level | Math. 372 |
| Math 371          | Ed. 311   |
| Ed. 301*          | Ed. 312   |
| For. Lang. (301)** or concentration | Ed. 409 (314) |
| Elec. or concentra- | Elec. or concentra- |
| **tion**          | **tion**   |

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*Should be taken in the preceding semester if 63rd hour of credit is to be earned in that semester. If taken in preceding semester, recommend Ed. 311 be taken in first semester of Junior year, and Speech 151 be postponed to second semester of Junior year.

**The foreign language requirements for the B.S. in Education degree may also be met by two years in one language plus one year in a second language.
COURSES OF INSTRUCTION

Summer

Recommended for enrichment or for courses in field of concentration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed. 401 #</td>
<td>8</td>
</tr>
<tr>
<td>Ed. 417 (313)</td>
<td>3</td>
</tr>
<tr>
<td>Ed. 415 (315)</td>
<td>3</td>
</tr>
<tr>
<td>Health 301</td>
<td>2</td>
</tr>
</tbody>
</table>

Senior

Elective or concentration

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed. 410 #</td>
<td>15</td>
</tr>
<tr>
<td>Ed. 417 (313)</td>
<td>15</td>
</tr>
<tr>
<td>Ed. 415 (315)</td>
<td>15</td>
</tr>
<tr>
<td>Health 301</td>
<td>15</td>
</tr>
</tbody>
</table>

Every prospective elementary teacher must have a field of concentration that includes thirty (30) semester-hours of course work, or the equivalent including advanced placement. Hours needed in addition to courses which may be taken in meeting the above requirements are listed by field as follows:

- Biology (Chemistry) ........................................ 22
- Chemistry (Mathematics) ................................. 22
- English ...................................................... 12
- Foreign Language ............................................. 15
- History ....................................................... 24
- Mathematics ................................................... 24
- Natural Science (must include eight (8) semester-hours in each of three sciences) .................. 19
- Physics (Mathematics) ........................................ 22
- Psychology ..................................................... 21
- Social Studies (recommended from Anthropology 101, 102, Economics 102, Geography, Government 103, History, Psychology 203, 308, 313, 401) 12

COURSES

Education

Courses listed herein comprise the undergraduate program. However, all courses carrying 400 numbers exclusive of Ed. 410 and 411 may be taken for graduate credit when included as a part of an approved program, by students admitted to the graduate program, who have registered for graduate credit in a given course, and whose grade earned in the course permits its use as graduate credit.

# Ed. 410, Student Teaching, is an all-day program. Other courses offered this semester will meet daily in that half of the semester alternate with student teaching.
301: EDUCATION FOUNDATIONS AND PRINCIPLES. [3]
Prerequisite: Sufficient hours of credit to total 63 by end of semester in which this course is taken. Historical and philosophical foundations of education; the relationship between the educational institution and other institutions; the political, economic, sociological and educational implications of current educational problems; the relationships between educational objectives, the structure of the educational system, and curricula.

311: EDUCATIONAL PSYCHOLOGY. [3]
Prerequisite: Education 301. Deals with concepts of intelligence; motivation of pupils; learning theory; evaluation of pupil progress; and the development of personality, social and emotional behavior, attitudes and skills of the pupil.

312: TEACHING METHODS IN THE ELEMENTARY SCHOOL. [3]
Prerequisite: Admission to Program of Teacher Education; corequisite: Education 311. Deals with the organization and direction of learning experiences provided for children in the elementary schools with emphasis upon balance in a good school day; develops understanding of approaches used in teaching, and in planning for teaching, with special consideration given to the fields of social studies and art.

321: TEACHING METHODS IN THE SECONDARY SCHOOLS. [3]
Prerequisite: Admission to Program of Teacher Education; corequisite: Education 311. Deals with organization and direction of learning experiences provided for youth in secondary schools; develops understanding of approaches used in teaching, and in planning for teaching.

409 (314): TEACHING OF READING AND LANGUAGE ARTS. [3]
Prerequisite or corequisite: Education 312. Methods of teaching the communication skills: reading, writing, vocabulary development, grammar, and speech, with emphasis upon normal children ages 6-13, Grades 1-7.

410: STUDENT TEACHING IN THE ELEMENTARY SCHOOL. [8]
Prerequisites: Education 409 (314), ninety-three semester-hours counting toward degree, grade points in George Mason College and University credit in total and in professional education equalling 2.100 for each semester-hour enrolled in. An organized program including observation of children and of teaching, participation in the teacher's activities subsidiary to teaching, and actual teaching. Conducted in a public school, the experience provided will be in a grade consistent with the certification sought by the individual prospective teacher. Full day for one-half semester.

411: STUDENT TEACHING IN THE SECONDARY SCHOOL. [6]
Prerequisites: Education 321, ninety-three semester-hours counting toward degree, grade points in George Mason College and University credit in total and in professional education equalling 2.100 for each semester-hour enrolled in. An organized program including observation of pupils and teachers in high school, participation in teachers' activities, subsidiary to teaching, and actual teaching. Conducted in a public school, the experience provided will be in a grade and subject field(s) consistent with the certifi-
COURSES OF INSTRUCTION

cation sought by the individual prospective teacher. *Half-day for one semester or full day for one-half semester.*

412: HUMAN DEVELOPMENT. [3]
Prerequisites: For undergraduate credit, Ed. 301; For Graduate credit admission to graduate program and 9 hours of professional education completed concurrently. Principles of development covering the entire life span, with emphasis upon childhood and adolescence. The development of the child through education; the unfolding of human abilities in terms of both personal adjustment and achievement, and in the realms of both psychological and physical maturation.

415 (315): A SURVEY OF CHILDREN’S LITERATURE. [3]
Prerequisite or corequisite: Education 409 (314). Survey of children’s literature, including historical development, types, representative authors and illustrators, and principles of critical analysis through study of selected works. Includes study of reading habits and interests of children Grades 1-7, together with techniques for story telling and the presentation of literature to children.

417 (313): EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION. [3]
Prerequisite or corequisite: Education 409 (314). An overview of the subject matter, curriculum sequence, materials, and procedures involved in the science program in the elementary school.

421 (322): INSTRUCTIONAL MEDIA. [3]
Prerequisite or corequisite: Education 321 or 409 (314). An introductory course which deals with the use of instructional media in the teaching-learning situation. The process of communication provides the base from which selection, evaluation, and utilization of media are examined.

Health

210: PERSONAL AND COMMUNITY HEALTH. [2]
This course is designed to develop knowledge, understanding, attitudes and desirable practices related to personal and community health.

301: HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY TEACHER. [2]
Prerequisites: Health 210 and two semester-hours of physical education or equivalent, and admission to the Program in Teacher Education. This course applies only to the Bachelor of Science in Education Degree. An overview of the fundamentals of movement, activity areas, sequence, methods and organization in physical education for children in the elementary school. Includes safety, school health services, and conditions of healthful school living.
Physical Education

A variety of activities taught for physical conditioning and recreational values. Instruction in the techniques, rules, and strategy of play in three hours of activity each week. Can not be counted within the 120 hours necessary for the B.A. degree. May be counted within the 124 hours required for the B.S. in Education degree.

101: SOCCER AND VOLLEYBALL. [1] For Men

102: BASEBALL AND PADDLE TENNIS. [1] For Men

121: FLAG FOOTBALL AND BASKETBALL. [1] For Men


123: TENNIS. [1] For Men

111: BASKETBALL AND SOCCER. [1] For Women

112: SOFTBALL AND BADMINTON. [1] For Women

131: VOLLEYBALL AND FIELD HOCKEY. [1] For Women


133: TENNIS. [1] For Women

140: GOLF. [1] Co-Educational, (Student fee, $12.00)
COURSES OF INSTRUCTION

Department of English

Professors Jackson (Chairman), S. Brown
Associate Professors Holton, Karlson
Assistant Professors L. Brown, Garson, Walls
Acting Assistant Professor Sakurai
Instructors Carter, Claiborne, Gallehr, Houck, Lowderbaugh, Palmieri, Quintus
Lecturers Ames, Delaney, Derr, Duffner, McMurtry

ENGLISH

Requirements for the Major

Students majoring in English must complete thirty hours of course work beyond sophomore English, including English 351, 352, and six hours from English 354, 357, 358, 361, 362. It is recommended that seniors take English 451 or 461.

Courses

101-102: COMPOSITION AND INTRODUCTION TO LITERATURE. [3-3]
Expository writing, ranging from paragraphs to essays of some length and complexity. Study of the logical, rhetorical, and linguistic structure of expository prose. The methods and conventions of preparing research papers, and introduction to analysis and appreciation of major literary types.

203, 204: WESTERN LITERARY MASTERWORKS. [3, 3]
Prerequisite: English 101-102. Study in translation of some of the great works of Western civilization by such writers as Homer, Sophocles, Euripides, Dante, Voltaire, Flaubert, Galdos, Dostoievski, Tolstoy, Mann, Camus, Brecht, Hesse, and Sartre.

205, 206: READINGS IN ENGLISH AND AMERICAN LITERATURE. [3, 3]
Prerequisite: English 101-102. Study of English and American literature by types. English 205 provides study of selected English and American novels, short stories, and essays. Such fiction writers as Fielding, Lawrence, Hemingway, Joyce, Twain, Burgess and Barth are studied, and such essayists as Bacon, Thoreau, Baldwin, and Orwell. English 206 is a study of selected English and American poetry and drama; such dramatists as Marlowe, Shakespeare, Shaw, O'Casey, O'Neill, and Albee are read, and such poets as Donne, Keats, Whitman, Frost, Eliot and Auden.
251, 252: SURVEY OF ENGLISH LITERATURE. [3, 3]
Prerequisite: English 101-102. Study of the important literary movements and works of English literature, from beginnings to the present. Prospective English majors are encouraged to take this sequence.

The student will normally select and complete English 203, 204 or 205, 206 or 251, 252. After completing one semester of one course, the student may not shift to another course without permission of the Department of English.

English 101-102 and 203, 204 or 205, 206 or 251, 252 are prerequisites for all English 300 and 400 courses.

341: CHAUCER. [3]
A study of the major works of Chaucer, with emphasis on The Canterbury Tales.

345: ENGLISH LITERATURE OF THE SIXTEENTH CENTURY. [3]
Study of the poetry and prose of the early Renaissance in England.

351, 352: SHAKESPEARE. [3, 3]
Twenty selected plays. First semester emphasizes histories and comedies; second semester, tragedies and romances.


355: MILTON. [3]
Study of Milton’s major works, with emphasis on Paradise Lost. Not offered in 1970-71.

357: THE AUGUSTAN AGE. [3]
Study of the development of English literature from the late seventeenth century to the middle of the eighteenth century, with emphasis on works of Swift and Pope.

358: THE AGE OF JOHNSON. [3]
Study of the development of English literature of the late eighteenth century; readings from Dr. Johnson and his contemporaries with attention to the pre-Romantics.

361, 362: ENGLISH POETRY AND PROSE OF THE NINETEENTH CENTURY. [3, 3]
A study of the major poets and essayists of the nineteenth century. The first semester deals with the Romantic writers, the second with Victorian. Not offered in 1970-71.

365: CONTEMPORARY ENGLISH POETRY AND PROSE. [3]
Reading and analysis of works by major English poets and prose writers from 1900 to the present.
COURSES OF INSTRUCTION

The history of the English novel with intensive critical reading of representative works. English 371 concerns the English novel from its beginnings through the mid-nineteenth century and deals with such writers as Fielding, Sterne, Austen, Emily Bronte, Thackeray, and Dickens. English 372 concerns the English novel from the mid-nineteenth century to the present and deals with such authors as Hardy, Conrad, Bennett, Forster, Lawrence, Joyce, Woolf, Huxley, Greene, Cary, Powell and Golding.

373: ENGLISH RENAISSANCE DRAMA. [3]
A study of major dramas and dramatists of the English Renaissance, exclusive of Shakespeare.

375, 376: CONTEMPORARY DRAMA. [3, 3]
An intensive study of representative plays of contemporary dramatists of Europe and America, with emphasis on dramatic styles such as realism, expressionism, and existentialism. Among the authors studied are Ibsen, Strindberg, Hauptmann, Shaw, O’Neill, O’Casey, Sartre, Lorca, Ionesco, and Brecht.

381: COLONIAL AND FEDERALIST AMERICAN LITERATURE. [3]
Study of the works of authors of the first 200 years of American literature, including Edwards, Franklin, Irving, Cooper, and Bryant.

382: LITERATURE OF THE AMERICAN RENAISSANCE. [3]
A study of the major writers of the American Renaissance (1830-1865), with emphasis on the works of Emerson, Thoreau, Hawthorne, Melville, Whitman, and Poe.

384: DEVELOPMENT OF THE AMERICAN NOVEL. [3]
Study of the American novel from its beginnings to World War II, with intensive critical reading of representative works. The course deals with such authors as Cooper, Melville, Hawthorne, Twain, James, Dreiser, Hemingway, Faulkner, and Wolfe. Not offered in 1970-71.

385: CONTEMPORARY AMERICAN POETRY AND PROSE. [3]
Reading and analysis of major American poets and prose writers from 1900 to the present.

391: GENERAL LINGUISTICS. [3]
Introduction to general linguistics: phonics, phonemics, morphology, and syntax.

Introduction on historical principles to the development of the English language, including study of the Indo-European family of languages, Old English, Middle English, foreign influences on English, and the American dialect.

393: FAR EASTERN LITERATURE IN TRANSLATION. [3]
The study of selected masterpieces of Chinese and Japanese literature, in

440: SELECTED STUDIES IN MAJOR ENGLISH AND AMERICAN WRITERS. [3]
Study in depth of two or more selected English or American novelists, poets, or dramatists, as announced.

451: INTRODUCTION TO LITERARY CRITICISM. [3]
This course is intended primarily for English majors in their senior year. Others may be admitted with permission of the instructor. Study of the major critical theories and techniques of the twentieth century. Exercises in critical analysis.

461: CREATIVE WRITING AND ADVANCED COMPOSITION. [3]
Theory and practice of expository prose; guidance in creative writing.

462: SEMINAR IN CREATIVE WRITING. [3]
*Prerequisite: permission of instructor.* Intensive study of the theory and practice of creative writing. Intended for students already writing original fiction, poetry, or drama.

JOURNALISM COURSES

201: INTRODUCTION TO JOURNALISM. [3]
Principles of and practice in news writing, editing, and layout. Includes review of the effect of American journalism on our history.

SPEECH COURSES

151: PRINCIPLES OF EFFECTIVE SPEAKING. [3]
An introduction to the techniques of effective oral presentation, emphasizing impromptu and extemporaneous speaking.

152: PUBLIC SPEAKING. [3]
*Prerequisite: Speech 151.* A study of principles and types of public address, with emphasis on expository and persuasive speaking. Intensive practice in composition and delivery.

251: INTRODUCTION TO GROUP CONFERENCE. [3]
Introduction to group conference, with development of participant and leadership skills. Preliminary study of group dynamics. Participation in practice conferences.
COURSES OF INSTRUCTION

Department of Foreign Languages

Associate Professor Arriola
Assistant Professors Brooks, Bufill, Cordero, Elstun, Evans,
    Font, Golinkin, Rodriguez, Sehrt
Instructors LeBeau, LePage, Lynch, Urso
Lecturers Clemens, Grimes, Hobson, Sneed, Wekerle

FRENCH

Requirements for the Major

The major in French is intended to develop participating students' ability to speak, read, and write French and to increase their knowledge of French literature, history, and culture. On completion of the major, students should be able to meet requirements for a high school teaching certificate, do graduate work in French, or qualify for government positions requiring a knowledge of French.

Twenty-four semester-hours of work in advanced French courses (not to include French 301, 302) are required for the major. French 303 is required for major students. In order to be eligible to major in French, a student should have at least a "C" average in his previous French courses.

Courses

101-102: ELEMENTARY FRENCH. [3-3]
Essentials of grammar; reading, oral and aural training. French is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

103: REVIEW OF ELEMENTARY FRENCH. [3]
An intensive review of the French grammar, syntax, and pronunciation normally taught in French 101-102. Designed for students entering with two years of secondary French but with inadequate control of the language to register in French 201. Students may not receive credit for both French 101-102 and 103. One additional hour per week is required in the language laboratory.

201-202: INTERMEDIATE FRENCH. [3-3]
Prerequisite: French 101-102 or equivalent. Advanced reading and grammatical study; oral and written exercises or reports. French is used in the classroom. One additional hour per week is required in the language laboratory.

301, 302: INTRODUCTION TO FRENCH LITERATURE. [3, 3]
Prerequisite: French 201-202 or equivalent. Readings in selected works of French literature. French is used in the classroom.
303, 304: FRENCH CONVERSATION AND COMPOSITION. [3, 3]
Prerequisite: French 202. Intended primarily for French majors, French 303 is required in the major program. Topical conversation and frequent written and oral reports. Both semesters provide instruction in speaking and writing French, but speaking ability is emphasized in French 303 and writing ability is stressed in French 304. (Not intended to satisfy degree requirements in foreign language.)

305: FRENCH LITERATURE OF THE RENAISSANCE. [3]
Prerequisite: French 301, 302. Renaissance poetry and prose, with emphasis on the works of Rabelais and Montaigne.

307, 308: FRENCH LITERATURE OF THE SEVENTEENTH CENTURY. [3, 3]
Prerequisite: French 301, 302. A study of the major works of literature of the French classical period, with emphasis on the works of Corneille, Descartes, Pascal, Moliere, Racine, and La Fontaine.

309, 310: MAJOR FRENCH NOVELISTS OF THE NINETEENTH CENTURY. [3, 3]
Prerequisite: French 301, 302 or permission of instructor. Study of the major works of such authors as Hugo, Zola, Balzac, Stendhal, Flaubert, Maupassant, and Huysmans.

311, 312: FRENCH LITERATURE OF THE NINETEENTH CENTURY. [3, 3]
Prerequisite: French 301, 302 or permission of instructor. The poetry and theater of the romantic, realist, and symbolist periods; emphasis on study of the works of Baudelaire and Rimbaud.

315: FRENCH CULTURE AND CIVILIZATION. [3]
Prerequisite: French 201-202 or permission of instructor. A study of the intellectual history of France and of the development of the major trends in French culture, arts, and sciences. (Not intended to satisfy degree requirements in foreign language.)

317, 318: FRENCH LITERATURE OF THE TWENTIETH CENTURY. [3, 3]
Prerequisite: French 301, 302 or permission of instructor. Study of the principal literary trends and authors in French literature since 1900. In French 317, such authors as Proust, Gide, Claudel, and Valery are studied; in French 318, such authors as Malraux, Sartre, Camus, Robbe-Grillet, Ionesco, and Beckett.

320: LINGUISTICS OF THE FRENCH LANGUAGE. [3]
Prerequisite: French 301, 302. A course in the linguistics of the French language, including phonemics and morphology.

321: FRENCH STYLISTICS. [3]
Prerequisite: French 301, 302. Methods and terminology for critical analysis of French style; reading of texts and writing of exercises.
COURSES OF INSTRUCTION

405, 406: FRENCH LITERATURE OF THE EIGHTEENTH CENTURY. [3, 3]
Prerequisite: French 301, 302 or permission of instructor. Study of the literature of the Age of Enlightenment in France. Marivaux and Beaumarchais are studied; in French 406, emphasis is placed on works of Montesquieu, Voltaire, Rousseau and Diderot. Given in French.

GERMAN COURSES

101-102: ELEMENTARY GERMAN. [3-3]
Introductory training in the speaking, understanding, reading, and writing of German. German is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

201-202: INTERMEDIATE GERMAN. [3-3]
Prerequisite: German 101-102 or equivalent. Training in the speaking, understanding, reading and writing of German. German is used in the classroom. One additional hour per week is required in the language laboratory.

301, 302: INTRODUCTION TO GERMAN LITERATURE. [3, 3]
Prerequisite: German 201-202 or equivalent. Readings in selected works of German literature. German is used in the classroom.

401, 402: GERMAN LITERATURE SINCE GOETHE. [3, 3]
Prerequisite: German 301, 302 or permission of department. Introduction to German literature since Goethe. German 401 gives instruction in the prose, drama, and lyric poetry of such writers as Heine, Hebbel, Buchner, Stifter, Storm, and Meyer; German 402 analyzes works of such writers as Hauptmann, Hofmannsthal, Rilke, Mann, Kafka, Brecht, Grass, Boll, Celan and Eich.

Prerequisite: German 301, 302 or permission of instructor. Study of the literature of German Classicism from the Enlightenment to 1830. Emphasis in the first semester is on works of Lessing, Herder, and the younger Goethe; the second semester provides study of Goethe's later works and the major writings of Schiller and Holderlin.

SPANISH

Requirements for the Major

The major in Spanish is intended to develop students' oral and written ability with the language, their reading proficiency, and their knowledge of the literature, culture, and history of Spain and of Spanish-
speaking North and South America. On completion of the major, the student should be able to meet state requirements for a secondary teaching certificate, do graduate study in Spanish, or qualify for government positions requiring a knowledge of Spanish.

Twenty-four semester-hours in advanced Spanish courses (not including Spanish 301, 302) are required for the Spanish major. The student who intends to major in Spanish may enroll in Spanish 305, 306 in place of Spanish 301, 302. The major student will find it useful to complete some of these related courses: English 391 (General Linguistics), English 203, 204 (Western Literary Masterworks), and History 361, 362 (Latin-American History).

Courses

101-102: ELEMENTARY SPANISH. [3-3]
Essentials of grammar; reading; oral and aural training. Spanish is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

103: REVIEW OF ELEMENTARY SPANISH. [3]
An intensive review of the Spanish grammar, syntax, and pronunciation normally taught in Spanish 101-102. Designed for students entering with two years of secondary school Spanish but with inadequate control of the language to register in Spanish 201. Students may not receive credit for both Spanish 101-102 and 103. One additional hour per week is required in the language laboratory.

201-202: INTERMEDIATE SPANISH. [3-3]
Prerequisite: Spanish 101-102 or equivalent. Advanced reading and grammatical study; oral and written work. Spanish is used in the classroom. One additional hour per week is required in the language laboratory.

All 300- and 400-level courses except Spanish 320 are given in Spanish.

301: INTRODUCTION TO SPANISH LITERATURE AND CIVILIZATION. [3]
Prerequisite: Spanish 201-202 or equivalent. Introduction to Spanish literature, with study of Spanish history and culture.

302: INTRODUCTION TO SPANISH-AMERICAN LITERATURE AND CIVILIZATION. [3]
Prerequisite: Spanish 201-202 or equivalent. Introduction to Spanish-American literature, with study of the history and culture.

303, 304: ADVANCED COMPOSITION AND CONVERSATION. [3, 3]
Prerequisite: Spanish 202. The course is designed to develop fluency in the spoken language and the ability to write compositions in Spanish. Spanish
COURSES OF INSTRUCTION

303 is intended to improve speaking ability and give some instruction in writing; instruction in writing is emphasized in Spanish 304, and further instruction in speaking is given. (Not intended to satisfy degree requirements in foreign language.)

305, 306: SURVEY OF SPANISH LITERATURE. [3, 3]
Prerequisite: Spanish 201-202. A survey of major movements and authors of Spanish literature, from early times to the present, in the major genres. Additional collateral readings.

307, 308: LATIN-AMERICAN LITERATURE. [3, 3]
Prerequisite: Spanish 201-202. A survey of the development of the poetry, novel, drama, essay and short story in Spanish America from the colonial period to the present. Spanish 307 includes study of the development of literature in the Spanish American nations from colonial times until the twentieth century; Spanish 308 includes study of twentieth century literature. Collateral readings. Recommended for Spanish majors.

309, 310: LITERATURE OF THE GOLDEN AGE. [3, 3]
Prerequisite: Spanish 301, 302 or 305, 306. Advanced study of major literary works of the Spanish Golden Age (1517-1680), with emphasis on the works of Cervantes, Lope de Vega, Tirso de Molina, Ruiz de Alarcon, Quevedo and Calderon.

313, 314: SPANISH LITERATURE OF THE NINETEENTH CENTURY. [3, 3]
Prerequisite: Spanish 301, 302 or 305, 306. A study of the major works of nineteenth-century Spanish literature. The first semester covers works of such authors as Duque de Rivas, Zorilla, Antonio de Alarcon, and Galdos; the second semester studies the works of such figures as Becquer, Alas, Blasco Ibanez and Ruben Darío.

320: LINGUISTICS OF THE SPANISH LANGUAGE. [3]
Prerequisite: Spanish 301, 302 or 305, 306. Study of the phonology, morphology, and syntax of the Spanish language. The course is intended for students planning to teach Spanish or enter graduate work in Spanish.

403, 404: CONTEMPORARY SPANISH LITERATURE. [3, 3]
Prerequisite: Spanish 305, 306. A study in depth of main works of Spanish literature from the "generation of '98" to the present, with emphasis on works of Unamuno, Valle-Inclan, Baroja, A. Machado, Benavente, Azorín, Lorca, Cela, Buero, and Goytisolo.

410: CERVANTES. [3]
Prerequisite: Spanish 301, 302 or 305, 306. A study of the major works of Cervantes, with emphasis on Don Quixote.
Department of History

Assistant Professors Pugh (Acting Chairman), Hawkes, Pacheco, Rinehart, Spindler, Smith
Acting Assistant Professor Soder
Instructors Cohen, M., Jensen
Lecturers, Ahlberg, Deshmukh, Hutcheon, Tsow

REQUIREMENTS FOR THE MAJOR

Students desiring to receive the Bachelor of Arts degree in history shall present thirty-three hours of history and must include at least three hours of historiography or senior seminar. At least eighteen hours of the total presented for the degree must consist of work in the 300 or 400 series. Not more than forty-two hours may be counted toward completion of the program, but hours of history in excess of that number may be presented as elective hours to be counted toward graduation. The history major should plan a diversified program of varied historical fields (e.g., U.S., Europe, Latin America, Asia).

COURSES

(Course numbers in parenthesis show former catalog listing.)

101, 102: HISTORY OF WESTERN CIVILIZATION. [3, 3]
The historical development of western institutions, ideas, and cultures from antiquity to modern times. Emphasis will be given to the origin and development of those institutions and ideas that have been incorporated into American traditions.

121: FORMATION OF THE AMERICAN REPUBLIC. [3]
The social, political, economic, and intellectual growth of American institutions from colonization through the Civil War. Emphasis is placed on the formation of the Union and its subsequent industrial, social, and political growth to 1865.

122: DEVELOPMENT OF MODERN AMERICA. [3]
History of the United States from 1865 to the present. Territorial expansion; Reconstruction and reaction; imperialism; industrialism, individualism, and opportunity; the time of social protest; the era of war and prosperity; economic collapse and the New Deal; the end of isolation; the sources and problems of world leadership and power.
COURSES OF INSTRUCTION

241, 242: A SURVEY OF EAST ASIAN CIVILIZATION. [3, 3]
A survey of the history of China, Japan, Korea, and Vietnam from the pre-historic period to the present.

261, 262: SURVEY OF AFRICAN CIVILIZATION. [3, 3]
A survey of the history and cultural development of Africa and the African peoples from earliest times to the emergence of new African states from colonial domination. Particular attention is paid to Africa south of the Sahara, its unique and diverse cultural traditions, its relations with and effect on the rest of the world, as well as the contribution of the African heritage to the United States.

281, 282: SURVEY OF MIDDLE EASTERN CIVILIZATION. [3, 3]
A survey of the history of the major civilizations of the Middle East with particular attention to cultural, intellectual, social and political developments.

301: HISTORY OF THE ANCIENT WORLD. [3]
Prerequisite: Six hours of history. A survey of the history of classical Greece and Rome, with particular attention to their cultural traditions, spiritual values, intellectual development, and political structures; early Christianity, its roots in Judaism and Greek thought, and growth within the context of the Roman Empire; the decay of the Western Empire; the early history of the Byzantine State.

302 (201): MEDIEVAL EUROPEAN HISTORY. [3]
Prerequisite: Six hours of history. Medieval history from the fall of Rome: barbarization of the West; growth of the Church, rise of Islam; the Carolingian empire; Moslem and Greek cultures; development of feudalism; feudal particularism; empire and papacy; development in education, arts, and architecture; the crusades. To 1200 A.D.

303 (202): MEDIEVAL EUROPEAN HISTORY. [3]
The Middle Ages from the thirteenth century; triumph of the papacy; church and state and the growth of opposition to the papacy; the Hundred Years War; decline of the Church; Renaissance and Reformation; expansion of secular culture; society, commerce, and exploration to the beginning of the sixteenth century.

306: RENAISSANCE AND REFORMATION. [3]
Prerequisite: Six hours of history. The history of late medieval and Renaissance Italy with particular attention to literature, art, and philosophy; Humanism; the Renaissance Papacy of northern Europe in the late fifteenth and sixteenth century; Reformation; Counter-Reformation; science, thought, and art; dynastic and religious wars to 1648.

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307: EUROPE FROM LOUIS XIV TO THE CONGRESS OF VIENNA. [3]
Prerequisite: Six hours of history. The history of western Europe from 1648 to 1815: transition of political, economic, and social institutions to their modern forms; secularized products of religious revolt; expansion of European influence; scientific and philosophical revolutions; the Enlightenment; the French Revolution and Napoleonic Wars.

308: NINETEENTH CENTURY EUROPE. [3]
Prerequisite: Six hours of history. The history of Europe from the Congress of Vienna to the outbreak of World War I: political and diplomatic developments; social and economic change; growth of liberalism, nationalism, and revolutionary ideologies; industrialization, technology, and materialism; cultural norms; unification movements and Irridentism; imperialism; the failure of diplomacy and the collapse of the European state system.

309 (405): HISTORY OF EUROPE SINCE 1914. [3]
Prerequisite: Six hours of history. A survey of major political changes in Europe since 1914 with emphasis upon broad patterns of ideological conflict.

310 (408): HISTORY OF SPAIN AND PORTUGAL. [3]
Prerequisite: Six hours of history. Development of Spain and Portugal from prehistoric times to the present, noting particularly factors related to their former empires in America.

314: HISTORY OF GERMANY. [3]
Prerequisite: Six hours of history. History of the political, diplomatic, economic, social and cultural development of Germany from the dissolution of the Holy Roman Empire to the present.

323 (331): ENGLAND THROUGH THE REVOLUTION OF 1688. [3]
Prerequisite: Six hours of history. The development of modern England from the time of the Roman invasion through the Revolution of 1688. Roman Britain; Anglo-Saxon England; the Norman Conquest; the Angevin empire; town and country life; constitutional development; social, economic, and religious growth; Catholicism versus Protestantism; King against Parliament; Civil War and Interregnum; Restoration and the Revolution.

324 (332): ENGLAND FROM THE REVOLUTION OF 1688. [3]
Prerequisite: Six hours of history. History of England from 1688 to the present. Stuart England; political leadership; the Napoleonic era; growth of industrialization and its social and economic consequences; the period of reform; foreign affairs and imperialism, 1865-1905; the transition from Empire to Commonwealth; the role of Britain in the mid-twentieth century.

325 (431): TUDOR AND STUART ENGLAND. [3]
Prerequisite: Six hours of history. A history of England from the Battle of Bosworth Field to the accession of George I.

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COURSES OF INSTRUCTION

328 (441): RISE OF RUSSIA. [3]
Prerequisite: Six hours of history. An examination of the political, social, and cultural experience of Russia from the appearance of the Kievan state to the age of Pushkin.

329 (442): MODERN RUSSIA AND THE SOVIET UNION. [3]
Prerequisite: Six hours of history. An analysis of Russian Civilization in the nineteenth and twentieth centuries, focusing on the failure of Tsarism, the revolutionary response, and the development of the Soviet Union.

333 (221): FRONTIER HISTORY OF AMERICA. [3]
Prerequisite: Six hours of history. The history of the expansion, exploration, settlement, and building of the frontier, with emphasis on problems of defense, communication, finance and markets; the development of institutions; the cultural and political influence of the frontier.

Prerequisite: Six hours of history. An inquiry into the cultural and intellectual currents in America to 1865. The Puritan mind and its legacy; the Enlightenment in America; American nationalism; the rise of social democracy; development of American liberalism and conservatism; revivalism and other religious developments; industrialism, liberal capitalism, and the idea of progress.

342 (322): CULTURAL AND INTELLECTUAL HISTORY OF THE UNITED STATES SINCE 1865. [3]
Prerequisite: Six hours of history. American thought and society from 1865 to the present. The effects of industrialization upon basic American institutions; development of a business "credo"; the growth of radical thought in economics, politics and religion; changes in the social structure; the increasing power and influence of the state.

343, 344 (421, 422): DIPLOMATIC HISTORY OF THE UNITED STATES. [3, 3]
Prerequisite: Six hours of history. A survey of American diplomatic history from 1781 to the present. Emphasis is placed upon the domestic and external forces that have shaped American diplomacy and its conduct. The second semester begins at 1890.

345: COLONIAL AMERICA. [3]
Prerequisite: Six hours of history. An intensive study of colonial American history from its European origins through the Revolutionary War.

348 (427): AMERICAN ECONOMIC HISTORY. [3]
Prerequisite: Six hours of history. A general survey of the history of American economic thought and development from colonial times to the present with stress upon the growth of modern economic institutions and the role of economic factors in the evolution of contemporary industrial America.
Prerequisite: Six hours of history. The history of the South to the outbreak of the Civil War, with particular emphasis on the rise of sectionalism. The development of a distinct southern culture is traced through the emergence of economic, political, social, agricultural and intellectual institutions.

352: THE SOUTH SINCE 1865. [3]
Prerequisite: Six hours of history. The history of the South during Reconstruction, the Redeemer era, and the New South, with particular emphasis on race relations. The political, economic, cultural, and intellectual development of the South is traced from the aftermath of war through the South's twentieth century struggle to rejoin the mainstream of American life.

359: THE UNITED STATES IN THE TWENTIETH CENTURY. [3]
Prerequisite: Six hours of history or permission of instructor. An intensive study of the United States and its role in world affairs since World War I: post-war adjustment, false prosperity of the twenties, the great crash and depression, the New Deal, farm and labor problems, isolation and neutrality, World War II, the Cold War and containment, Korean War and problems associated with the Vietnam conflict.

Prerequisite: Six hours of history. Latin-American history to 1825, with emphasis upon indigenous Indian civilizations, transplantation of Hispanic and African cultures to the New World and the political, economic, social, and cultural results; Spanish-Portuguese explorations and conquests; colonial development of Latin America; the wars for independence.

Prerequisite: Six hours of history. The development of an independent Latin America since 1825. Emphasis is on the interactions between the United States and Latin America.

363: THE HISTORY OF ARGENTINA, BRAZIL, AND CHILE. [3]
Prerequisite: History 361, or permission of instructor. An intensive study of the evolution of Argentina, Brazil, and Chile from the Colonial Period to the present with an emphasis upon the changing social, political, and economic conditions.

364: HISTORY OF MEXICO. [3]
Prerequisite: Six hours of history or permission of instructor. Intensive study of Mexican history from the pre-Columbian era to the present, with emphasis upon the national period.

370: THE DIPLOMATIC HISTORY OF LATIN AMERICA. [3]
Prerequisite: History 362 or permission of instructor. A careful treatment of political, social and cultural relations of the Latin American states with each other, the United States, Europe and the papacy from independence.
COURSES OF INSTRUCTION

to the present. Emphasis will be placed upon the operation of a system of international power politics in Latin America.

382: EAST ASIAN CIVILIZATION IN THE TWENTIETH CENTURY. [3]
Prerequisite: Open only to juniors and seniors. History 241 must be completed before taking this course. An intensive study and analysis of the histories of China, Japan, Korea, and Vietnam since 1911.

461, 462: SENIOR SEMINAR IN HISTORY. [3, 3]
Prerequisite: Open only to senior majors in history with consent of instructor. A student may not present more than six hours of seminar for graduation credit. Intensive research on a specialized historical topic culminating in the production of a seminar paper. Subject will be determined by the instructor conducting the section, and may be obtained from him in advance.

471, 472: DIRECTED READINGS IN HISTORY. [3, 3]
Prerequisite: Open only to senior majors in history with consent of instructor. A student may not present more than six hours of directed readings for graduation credit. A rigorous examination of the literature on a specialized topic in history, to be conducted on an individual basis in consultation with the instructor.

480: HISTORIOGRAPHY. [3]
Prerequisite: Open only to senior majors in history. A student may not present more than six hours of historiography for graduation credit. Intensive reading and research into at least one of the following areas: Hist. 480A, AMERICAN HISTORIOGRAPHY; Hist. 480B, EUROPEAN HISTORIOGRAPHY.
Department of Humanities

Professor McFarlane (Chairman)
Assistant Professors Kakas, McDaniel, McDermott, Shea
Acting Assistant Professors Kanyan, Yance
Lecturer Burt

ART COURSES

101, 102: ART APPRECIATION. [3, 3]
Prerequisite: Art 101 is prerequisite for Art 102. A general introduction to the principles of aesthetics in art by means of a study in painting, sculpture and architecture from prehistoric times to the present.

103, 104: DRAWING. [3, 3]
Prerequisite: Art 103 is prerequisite for Art 104. Elementary course in representational drawing and expressive pictorial design. Six hours per week.

201, 202: OIL PAINTING. [3, 3]
Prerequisite: Art 201 is prerequisite for Art 202. A basic course in the fundamentals of oil painting. Six hours per week.

211, 212: BEGINNING LIFE DRAWING. [3, 3]
Prerequisite: Art 103 and 104, or permission of the instructor. A basic course in the fundamentals of drawing the human model. Six hours per week. Not offered in 1970-71.

215, 216: BEGINNING SCULPTURE. [3, 3]
Prerequisite: Art 103 and 104, or permission of the instructor. A basic course in the fundamentals of creating three-dimensional forms using water-base clay. Six hours per week. Not offered in 1970-71.

221, 222: HISTORY OF ANCIENT ART. [3, 3]

231, 232: HISTORY OF MODERN ART. [3, 3]
A brief review of the nineteenth century art styles, followed by an in-depth study of the aesthetics and history of art since 1900. Such styles as Expressionism, Cubism, Dadaism, Surrealism, Modern Primitivism and others will be covered. Not offered in 1970-71.
MUSIC COURSES

101: MUSIC APPRECIATION I. [3]
An introduction to music appreciation through formal and aesthetic principles. The elements of music are examined separately and as combined in various musical forms. A brief survey of Medieval and Renaissance music leads into a more intensive study of music from the eighteenth century to the present, culminating in the discrimination of contrasting styles of music.

102: MUSIC APPRECIATION II. [3]
Prerequisite: Music 101 or permission of the instructor. A study of the development of the concerto, symphony, chamber music, suite, song, opera and other large vocal forms. This development will be traced through the stylistic periods of music.

113: SIGHT SINGING AND EAR TRAINING I. [2]
Prerequisite: Some ability to read music or permission of the instructor. The student will be taught to sing a line of music without the accompaniment of an instrument. Sol-fa syllables will be used. Matching tones, major and minor scales, key signatures, intervals, rhythm. Rhythmic and melodic dictation. Three hours per week.

114: SIGHT SINGING AND EAR TRAINING II. [2]
Prerequisite: Music 113 or permission of the instructor. Continuation of Sight Singing and Ear Training I. Alto and tenor clefs. Melodic and harmonic dictation. Three hours per week.

115: HARMONY I. [3]
Prerequisite: Student must be able to read music and must have some proficiency on a musical instrument or in voice. Music notation, scales, key signatures, intervals, chords, cadences, keyboard harmony. Harmonizing soprano and bass lines in the eighteenth century chorale style.

116: HARMONY II. [3]
Prerequisite: Music 115 or permission of the instructor. First- and second-inversion chords, modulation, nonharmonic tones, figured bass, seventh chords, keyboard harmony. Analysis of Bach chorales; composition of four-part chorales in eighteenth century style.

181, 182: COLLEGE CHORUS. [1, 1]
Open to all students in the College. Performance of works from the choral repertoire. Public concerts will be given. Three hours per week.

183, 184: CONCERT BAND. [1, 1]
Open to all students in the College who possess a reasonable amount of performing ability. Public concerts will be given. Three hours per week.
203: FOLK AND TRADITIONAL MUSIC OF THE WORLD. [3]
A study of the musical structure and cultural setting of folk music among
diverse peoples, with an introduction to the traditional art music of oriental
countries.

204: INTRODUCTION TO TWENTIETH CENTURY MUSIC. [3]
Prerequisite: Music 101 or 203, or permission of the instructor. A survey
of the various styles found in twentieth century music. Tonal, atonal,
serial and experimental music, as well as the representative schools of jazz
will be studied.

251: MUSIC FOR THE ELEMENTARY TEACHER. [3]
Prerequisite: Admission to the Teacher Education Program. Fundamentals
of musicianship and development of musical appreciation and ability to a
level appropriate for the classroom teacher; principles and illustrations of
musical activities suited to children of different grade levels. One addi­
tional hour per week is required in performance practice.

331: MUSIC HISTORY AND LITERATURE I. [3]
Prerequisite: Music 101 or 115, or permission of the instructor. A study of
the development of music in Western Civilization from the modal structure
of the Greeks through the Baroque Era with historical and cultural empha­
sis of this development. Analytical listening of representative literature is
required.

332: MUSIC HISTORY AND LITERATURE II. [3]
Prerequisite: Music 331 or permission of the instructor. A study of the
development of music in Western Civilization from the Rococo to the
present day with historical and cultural emphasis of this development.
Analytical listening of representative literature is required.

PHILOSOPHY COURSES

101: INTRODUCTION TO PHILOSOPHY: MAN AND SOCIETY. [3]
Reading and informal discussion of Plato's Republic and the writings of
several recent thinkers who deal with the problems of economics, society,
and government in their relation to human welfare in general.

102: INTRODUCTION TO PHILOSOPHY: THEORY OF KNOWL­
EDGE. [3]
Discussion of basic problems concerning the nature of knowledge, with
special study of the relation of knowledge to perception, to belief, and to
language.

103: INTRODUCTION TO PHILOSOPHY: LOGIC. [3]
A study of basic concepts and techniques of deduction, emphasizing the
modern treatment of such topics as quantification and rules of inference,
COURSES OF INSTRUCTION

but with some study of the classical treatment as well. Also studied are basic principles of induction, the informal fallacies, and the uses of logic in everyday life.

201: ETHICS. [3]
Prerequisite: Sophomore standing or permission of instructor. A consideration of some basic theories of the good life. Reading and discussion of such writers as Plato, Aristotle, Butler, Mill, Kant.

203: PHILOSOPHY OF RELIGION. [3]
Prerequisite: Sophomore standing or permission of the instructor. A study of classical appeals to philosophy in support of belief in God's existence (Philo, Augustine, Anselm, Aquinas, Descartes); the fideism of Hume and the metaphysical agnosticism of Kant; the concept of religious experience in the philosophies of Hegel, Schleiermacher, and Kierkegaard; the problem of religious language in contemporary empirical philosophy.

205, 206: HISTORY OF PHILOSOPHY. [3, 3]
Prerequisite: Sophomore standing or permission of the instructor. A survey of leading thinkers from early Greek philosophy to the twentieth century. First semester: the Pre-Socratics, Plato, Aristotle, Augustine, Aquinas, and others. Second semester: Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Hegel, Bergson, Whitehead, the Pragmatists, and others.

303: PHILOSOPHY OF MIND. [3]
Prerequisite: Junior standing and six hours in philosophy, or permission of the instructor. A study of some traditional and contemporary views regarding the nature of mind, its relation to the physical world and to behavior, and the discoverability of mental processes.

304: MODERN ETHICS. [3]
Prerequisite: Junior standing and six hours in philosophy, or permission of the instructor. An examination of major trends and issues in recent moral philosophy, especially those concerning the foundation of morals, the nature of ethical language, and the problem of freedom of the will.

305: PHILOSOPHY IN AMERICA. [3]
Prerequisite: Junior standing and six hours of philosophy, or permission of the instructor. Selected studies of writers, movements, and topics from the full range of American philosophy. Readings from the works of such authors as Emerson, Thoreau, Peirce, James, Royce, Santayana, Dewey, Whitehead, Mead and others; consideration of the contributions of American writers to philosophical inquiry in such classical fields as metaphysics, ethics and epistemology, to more recent developments such as pragmatism, and generally to social and political philosophy, to logic and the philosophy of language, and to the philosophy of science.

306: RECENT AND CONTEMPORARY PHILOSOPHY. [3]
Prerequisite: Junior standing and six hours of philosophy, or permission of
"the instructor. Selected studies of philosophical topics, movements or problems of current interest; e.g., phenomenology and existentialism, analytic philosophy, the philosophy of education, philosophical problems which bear upon the study of human behavior and interaction, philosophical interpretations of natural science and its impact on modern society.

307: METAPHYSICS. [3]
Prerequisite: Junior standing and six hours of philosophy, or permission of the instructor. A study of some basic problems concerning being in general and the foundations of individual being; traditional treatments of such problems and criticism of the possibility of such knowledge. Readings from three or four leading figures such as Plato, Aristotle, Aquinas, Leibniz, Kant, Bradley, Heidegger.

RELIGION COURSES

A survey of the development of the Old Testament and intertestamental literature, with attention given to the literary, historical, and theological aspects.

The Graeco-Roman World, Hellenistic and Palestinian Judaism, Dead Sea Scrolls, New Testament origins and teachings, the early Christian Community and its faith.

221: RELIGIONS OF THE NEAR EAST. [3]

222: RELIGIONS OF THE ORIENT. [3]

241: RELIGION IN AMERICA. [3]
A survey of the religious heritage in American culture, the growth of denominations and sects; the development of theology and ethics, the interrelationship of religion and the political-social-economic life, and consideration of the modern scene.

251: CONTEMPORARY ETHICAL ISSUES. [3]
An analysis and commentary on the ethic of responsibility and situational morality in relation to the moral questions of the day, including sexual morality, the preservation of life and definition of death, wealth and stewardship, warfare and deterrence.
COURSES OF INSTRUCTION

252: RELIGION AND MODERN MAN. [3]
Prerequisite: At least one background course in anthropology, sociology or psychology, and one in philosophy or religion. The nature of man's religion, involving aspects of anthropology, sociology and psychology in religious thought and ethics; religious concepts and language in the context of a scientific and secular world.

362: CONTEMPORARY RELIGIOUS TRENDS. [3]
Prerequisite: Junior standing, and six hours of religion. A study of contemporary religious thought, including secular theology, Ecumenical trends, Protestant-Catholic relations, theonetics (God in change), religious questions in the space age; an extensive review of selected works in a seminar-type class.
Department of Mathematics

Professor Mayer (Chairman)
Associate Professors Cabell, Cole, Papp
Assistant Professors Dorey, Kiley, Sennott, Smith, Turner
Acting Assistant Professor Abbub
Instructor Mullen

REQUIREMENTS FOR THE MAJOR

Mathematics 113, 114, 213, 214, 313, 314 are not recommended for mathematics majors. Mathematics 103-104, 106, 252, 261 and 371, 372 do not count toward satisfying the requirements of a major in mathematics.

B.A. Program:
Mathematics 115, 116, 215, 216, plus 15 more hours of which at least 9 must be numbered above 300.

B.S. Program:
Mathematics 115, 116, 215, 216, 315, 316, 321, 322, plus 15 more hours of which at least 9 must be numbered above 300.
Physics 113, 114, 213, 214, 215, 216.

FOR STUDENTS WHO DO NOT MAJOR IN MATHEMATICS

Designed for the students in the social and behavioral sciences are Mathematics 103-104, 252 and 261. Students in a secondary school teacher program should choose their courses from among Mathematics 106, 113, 114, 200, 213, 214, 221, 232, 321, and 261. We advise every liberal arts major to take either Mathematics 106 or the sequence 103-104, and possibly 261. Students in the physical sciences who plan to do graduate work are advised to add to their basic calculus sequence from Mathematics 266, 313, 314, 351, 352, 411, 446, 447.

COURSES

In exceptional cases the prerequisite for a course above the calculus sequence may be waived at the discretion of the instructor.

103-104: FINITE MATHEMATICS. [3-3]
Logic, elementary set theory, elementary probability, linear programming, applications.
COURSES OF INSTRUCTION

106: CONCEPTS OF MATHEMATICS. [3]
Important ideas in mathematics and their development.

Must be taken in sequence. Analytic geometry, functions, differentiation, integration, probability, differential equations, applications.

Must be taken in sequence. Analytic geometry, functions, differentiation and integration in several dimensions, infinite series, differential equations.

200: FOUNDATIONS OF MATHEMATICS. [3]
Prerequisite: Mathematics 116. Real numbers, axiom systems, naive set theory, cardinal and ordinal numbers.

221: NUMBER THEORY. [3]
Prerequisite: Mathematics 116. Prime numbers, factorization, congruences, Diophantine equations.

232: GEOMETRY. [3]
Prerequisite: Six semester hours in mathematics. Fundamental concepts of incidence. Axioms of Euclidean geometry and the resulting theory, axioms and development of non-Euclidean and projective geometry.

252: INTRODUCTORY STATISTICS. [3]
Prerequisite: Mathematics 104 or 114. Probability distributions, correlation, variance, T-test, chi-square test.

261: INTRODUCTION TO COMPUTERS. [2]
Prerequisite: Mathematics 103 or 106. An introduction to the use of a computer, discussion of the basic underlying concepts, the study of computer languages and social scientific applications of computing.

266: INTRODUCTION TO COMPUTER SCIENCE. [2]
Prerequisite: Mathematics 114 or 116. Study of a computer system and its logic. Flow charts. A study of various languages, basic programming and its application to various problems in mathematics and the physical sciences.

313, 314: INTRODUCTION TO APPLIED MATHEMATICS. [3, 3]
Prerequisite: Mathematics 214 or 216. Vector analysis, integral transforms, partial differential equations, special functions, variational methods.

315, 316: ADVANCED CALCULUS. [3, 3]
Prerequisite: Mathematics 216. Elementary topology, limits, continuity, differentiation, integration, and series.

321: ABSTRACT ALGEBRA. [3]
Prerequisite: Mathematics 216. Theory of groups, rings, fields.
GEORGE MASON COLLEGE

322: LINEAR ALGEBRA. [3]
Prerequisite: Mathematics 321. Vector spaces, linear independence, bases, linear transformations, matrix algebra, inner product, special topics.

351: PROBABILITY. [3]
Prerequisite: Mathematics 216. Random variables, probability functions, special distributions, limit theorems, Markov chains, stochastic processes.

352: STATISTICS. [3]
Prerequisite: Mathematics 351. Estimation, decision theory, testing hypothesis, correlation, linear models and design.

371, 372: MATHEMATICS FOR THE ELEMENTARY SCHOOL TEACHER. [3, 3]
Prerequisite: Forty-five semester-hours of college credit, and admission to the program for elementary teachers. Concepts and theories underlying elementary school mathematics.

391, 392: READING AND PROBLEMS. [1-3, 1-3]
Enrollment restricted to mathematics majors. Independent study in mathematics.

411: FUNCTIONS OF A COMPLEX VARIABLE. [3]
Prerequisite: Mathematics 316. Complex numbers, functions, conformal mappings, contour integration, applications.

431: TOPOLOGY. [3]
Prerequisites: Mathematics 216 and six hours of mathematics at or above the 300 level. Metric spaces, topological spaces, compactness, connectedness.

441, 442: APPLIED MATHEMATICS. [3, 3]

446, 447: NUMERICAL ANALYSIS AND DIGITAL COMPUTATION. [3, 3]
Prerequisite: Mathematics 216. Numerical solutions of ordinary and partial differential equations, numerical differentiation and integration, significant figures, errors. Formulation of numerical problems for solution on digital computers.
COURSES OF INSTRUCTION

Department of Physics

Professor Johnston (Chairman)
Associate Professor Mielczarek
Assistant Professors Lankford, Papaconstantopoulos
Instructors Day, Flinn
Lecturers Clark, Dowe, Fedel, Lieberman

REQUIREMENTS FOR THE MAJOR

The B.S. degree requires the completion of 44 semester-hours in the major and 23 semester-hours in mathematics. The following physics courses are required for the B.S. degree: Physics 113, 114, 213, 214, 215, 216, 303, 305, 306, 402, 403, 405, 407. The remaining nine credits are to be elected from Physics 408, 410, 412, 414, 302, 207, with at least five semester credit hours from the first four courses.

The B.A. degree requires the completion of 31 semester-hours in the major and 17 semester-hours of mathematics. The following physics courses are required: Physics 113, 114, 213, 214, 215, 216, 303, 305, 306, 402 and either 407 or 302.

COURSES

101-102: INTRODUCTORY COLLEGE PHYSICS. [4-4]
A sound background of high school algebra, geometry and trigonometry is essential. A terminal course in physics intended to fulfill the natural science requirements of the College. The principles of mechanics, heat, electricity and magnetism, optics, atomic and nuclear physics. Three hours lecture, three hours laboratory or supervised work.

*113: GENERAL PHYSICS I. [2]
Corequisite: Mathematics 113. Mechanics. Two hours lecture, one hour recitation.

114: GENERAL PHYSICS II. [2]
Prerequisite: Physics 113 and Mathematics 113. Corequisite: Mathematics 114. Mechanics, heat, properties of matter. Two hours lecture, one hour recitation.

*The four-semester sequence, Physics 113, 114, 213, 214, 215, 216 is a calculus-based course in General Physics to be taken by physics, chemistry, engineering and those mathematics and science students who require a more intensive course than Physics 101 and 102.
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201: SCIENCE AND TECHNOLOGY IN THE CONTEMPORARY ENVIRONMENT. [3] (Offered both semesters.)
No prerequisite: A survey of science and technology with emphasis on their interaction with our contemporary culture. This course will include qualitative familiarization with science beneath the earth, on the earth, in near space and in outer space as it relates to our civilization. Three hours lecture.

207: THERMODYNAMICS. [3] (Same as Engineering 207)
Prerequisite: Physics 114 and Mathematics 114. Classical concepts of energy and temperature, basic definitions, first and second laws and their application to engineering systems, properties of pure substances, equations of state, analysis of thermodynamic processes.

213: GENERAL PHYSICS III. [3]

215: GENERAL PHYSICS III. (Laboratory) [2]
Prerequisite: Physics 114 or Physics 102. Experiments on mechanics and electricity. Emphasis is given on the use of the oscilloscope. Three laboratory hours.

214: GENERAL PHYSICS IV. [3]

216: GENERAL PHYSICS IV. (Laboratory) [2]
Prerequisite: Physics 114 or Physics 102. Experiments on optics and modern physics. Three laboratory hours.

302: ELECTRONICS. [4] (Same as Engineering 302)
Prerequisite: Physics 213, 215 or permission of the instructor. A lecture and laboratory course in electronics, design and operational characteristics of power supplies, amplifiers, oscillators, servomechanisms, switching, timing and digital counting circuits. Six laboratory hours; two hours lecture.

303: CLASSICAL MECHANICS. [3]
Prerequisite: Physics 214, 216 and Mathematics 214. Motion of a particle in one, two and three dimensions; systems of particles; noninertial coordinate systems, equations of Lagrange and Hamilton. Three hours lecture.

305: ELECTROMAGNETIC THEORY. [3]
COURSES OF INSTRUCTION

306: WAVE MOTION AND ELECTROMAGNETIC RADIATION. [3]
Prerequisite: Physics 305. Vibrating string, plane waves, interference, diffraction, polarization, electromagnetic waves, dispersion, relativity. Three lecture hours.

402, 403: AN INTRODUCTION TO QUANTUM MECHANICS AND ATOMIC PHYSICS. [3, 3]
Prerequisite: Physics 303, or permission of the instructor. Physics 402 is prerequisite to Physics 403. The experimental basis of quantum mechanics, the wave function, systems in one, two and three dimensions, perturbation theory, the variation principle, Hermitian operators and angular momentum, the theory of scattering. Three lecture hours.

405: STATISTICAL MECHANICS AND THERMODYNAMICS. [3]
Prerequisite: Physics 402. Statistical methods, systems of particles, thermodynamics, macroscopic parameters, the ideal gas, kinetic theory, quantum statistics, and transport processes. Three lecture hours.

407, 408: SENIOR LABORATORY IN MODERN PHYSICS. [3, 2]
Prerequisite: Senior status. Experiments in modern physics involving advanced techniques in electronics, optics, nuclear physics and solid state. Typical experiments: the Franck Hertz Experiment, Hall Effect, electron paramagnetic resonance, Mossbauer Effect. Physics 407, nine laboratory hours. Physics 408, six laboratory hours.

410: SOLID STATE PHYSICS. [3]
Prerequisite: Physics 402. Crystal structures, binding, lattice vibrations, the free electron model, metals, semiconductors, superconductivity, magnetism. Three lecture hours.

412: MATHEMATICAL PHYSICS. [3]

414: INTRODUCTORY NUCLEAR PHYSICS. [3]
Prerequisite: Physics 402. Alpha, Beta and Gamma emission and internal conversion; interactions of charged particles and Gamma rays with matter; neutrons; nuclear models and reactions; elementary theory of nuclear forces; subnuclear particles. Three lecture hours.

ENGINEERING COURSES

(Two Years Only)

Those students planning to take engineering at George Mason College can complete a two-year course and in most cases meet the prerequisite requirements at most universities for the third year. About 70
percent of the engineering students will have all of the requirements to enter the junior year at the University of Virginia. They may still be lacking a few semester-hours in their electives which may be taken during the summer or in the junior or senior year. See Chapter VI, page 51.

183: ENGINEERING GRAPHICS I. [2]
The first half of a two semester course in fundamentals of drawing. Lettering, geometric construction, multiview drawing and sketching, pictorial drawing and sketching, sectioning, auxiliary views, dimensioning and assembly drawing. One hour lecture, three hours laboratory.

184: ENGINEERING GRAPHICS II. [2]
Prerequisite: Engineering 183. Second semester topics are points, lines, planes, curved surfaces, development, and vectors. One hour lecture, three hours laboratory.

185: STATICS. [2]
Corequisite: Mathematics 113. Resolution and composition of forces by analytical and graphical methods. Analysis of forces in trusses, frames and flexible cables. Two lecture hours.

186: DYNAMICS. [2]

207: THERMODYNAMICS. [3] (Same as Physics 207)
Prerequisite: Mathematics 114 and Physics 114. Classical concepts of energy and temperature, basic definitions, first and second laws and their application to engineering systems, properties of pure substances, equation of state, analysis of thermodynamic processes.

208: PROPERTIES OF MATERIALS. [3]
Prerequisites: Chemistry 101-102, Physics 114. Concept of stress, strain, material structure, failure. Analysis of stresses in elastic and plastic solids. Application to flexure and torsion, deflections of beams and columns, combined stresses.

285: ELECTRIC CIRCUITS. [3]
Prerequisites: Engineering 186; Mathematics 114; Physics 114. Circuit applications of Ohm, Coulomb, Ampere and Faraday Laws, Kirchhoff Laws, superposition, complex impedance, Phasor diagrams, equivalent circuits, power and energy relations.

302: ELECTRONICS. [4] (Same as Physics 302)
Prerequisite: Physics 213, 215 or permission of the instructor. A lecture and laboratory course in electronics, design and operational characteristics of power supplies, amplifiers, oscillators, servomechanisms, switching, timing and digital counting circuits. Six laboratory hours; two lecture hours.
COURSES OF INSTRUCTION

Department of Social Sciences

Professor Early (Chairman)
Associate Professors Peterson, Phillips
Assistant Professors Bloch, Dominick, Gibbons, Godbold, Khoury,
Marthinuss, Tongren
Instructors Holmes, Stokes
Lecturers Bishop, Goldberg, Martinez

BUSINESS AND PUBLIC ADMINISTRATION

Requirements for the Major

The major program in Business and Public Administration culminates in a Bachelor of Arts degree and requires a minimum of 120 hours of courses. All degree requirements of the College as set forth in its academic regulations must be met.

Students entering George Mason College in September 1968 or thereafter to major in Business and Public Administration should carefully plan their schedules to include the following courses to be completed before graduation: Business Administration 101, 102, 232, 261-262, 311, 341, 421, 422, 434, and such others as they may opt to total not fewer than thirty-six hours in the major discipline.

Not more than forty-two hours may be submitted in fulfillment of the degree program, but hours of credit in excess of that number may be counted toward graduation as elective hours. Elective courses particularly related to this major are History 427 (American Economic History), Psychology 402 (Psychology of Business and Industry), and Sociology 304 (Sociology of Industry). It is recommended, however, that most hours of elective work should be devoted to subjects that will broaden and deepen the students' general education.

In addition to the 36 hours of work required in the major discipline, candidates for the Business and Public Administration degree shall also include Economics 101, 102, and 202 or 301, plus an additional three hours of economics or Government 241.

Students who enrolled in George Mason College prior to September 1968 must present the following courses: Business Administration 101, 102, 232, 261-262, 310, 434, and such other courses as they may choose...
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to total not fewer than thirty-three hours in the major discipline. Not more than forty-two hours may be submitted in fulfillment of the degree program, but hours of credit in excess of that number may be counted toward graduation as elective hours.

Elective courses particularly related to this major are History 427 (American Economic History), Psychology 402 (Psychology of Business and Industry), and Sociology 304 (Sociology of Industry). However, most hours of elective work should be devoted to subjects that will broaden and deepen the students' general education.

In addition to the 36 hours of work required in the major discipline, candidates for the Business and Public Administration degree shall also include Economics 101, 102, and 202 or 301, plus an additional three hours of economics or Government 241.

Courses

101: ELEMENTARY ACCOUNTING. [3]
An overview of the accounting cycle with emphasis on preparation of work sheets and financial statements and on accounting for sales, purchases, cash transactions, and internal control.

102: ELEMENTARY ACCOUNTING. [3]
Prerequisite: Business Administration 101 or permission of instructor. An examination of the accounting principles and methods applicable to partnerships and corporations engaged in trading and manufacturing and of the sources of capital available to them.

205, 206: INTERMEDIATE ACCOUNTING. [3, 3]
Prerequisite: Business Administration 101, 102 or permission of instructor. A detailed analysis of problems and the related theory concerning accounts normally found in financial statements. Preparation of supplementary and special reports for special accounting and managerial purposes.

212: INTRODUCTION TO DATA PROCESSING. [3]
A review of the types of systems and hardware in general use by business organizations, including mechanical and electronic processors.

231: INTRODUCTION TO BUSINESS. [3]
An introduction to the field of business administration from the viewpoint of management. The nature as well as the scope of business is studied, and
COURSES OF INSTRUCTION

its major component parts and their relationships are discussed. The qualifications for successful careers in business are given special attention.

232: BUSINESS COMMUNICATION. [3]
An introduction to the forms, practices, and problems of effective business communications. Includes inquiry into the sources and uses of business information; techniques for analyzing and evaluating data; for conducting interviews and conferences; and for developing and using creative abilities of employees. Emphasis is placed on written exercises.

251: FUNDAMENTALS OF ADMINISTRATION. [3]
Not open to majors in Business Administration. A survey course for non-business majors including principles of organization and management; personnel administration; budgeting; data processing and report preparation. Also includes basics of finance, business interest rates and insurance.

261-262: STATISTICAL ANALYSES AND TECHNIQUES. [3-3]
A non-mathematical course designed for students in diverse fields of study, emphasizing the making of statistical inferences, determining confidence intervals and testing statistical hypotheses for large and small samples: applications of the binomial, normal, student's t, chi square, and F distributions; correlation, variance and trend analysis; and the more common non-parametric tests.

301: COST ACCOUNTING. [3]
Prerequisite: Business Administration 101, 102 or permission of instructor. Cost accounting provides data for three major purposes: (1) planning and controlling routine operations, (2) nonroutine decisions, policy-making and long-range planning, and (3) inventory valuation and income determination.

302: QUANTITATIVE FACTORS IN BUSINESS. [3]
Prerequisite: Business Administration 261-262 or permission of instructor. An introduction to the use of quantitative methods for solving business problems. Limited mathematical adaptations of statistical methods and the development of simple models are involved.

309: LABOR-MANAGEMENT RELATIONS. [3]
An examination of American trade unions and of unionism. The labor contract; the bargaining processes; the philosophy of unionism; the use of bargaining techniques for non-wage issues; the legal context of labor-management relations; the responsibilities and duties of unions and management; the political-economic impact of unionism. May be counted within the thirty-three hours in economics required for the B.A. degree in economics.

311: PRINCIPLES OF MARKETING. [3]
An examination of the marketing structure and of business and economic activities involved in marketing goods. Attention is given to surveys, to distribution channels, to functions, costs and alternative policies, to social
and economic consequences, and to governmental supervision and control of the marketing of consumer and industrial goods.

312: DIGITAL COMPUTER CONCEPTS. [3]
Prerequisite: Business Administration 212 or permission of instructor. The organizational structure of computer installations; management information systems; quality control, recovery and multi-processing scheduling techniques; evaluating and installing proposed computer systems.

332: PERSONNEL ADMINISTRATION. [3]
An examination of the principles and procedures related to the recruitment and selection of a labor force, grievance and disciplinary procedures, problems involved in collective bargaining, pay policies, merit rating, promotion, training, etc., with emphasis upon their relationship to management.

341: INTRODUCTION TO BUSINESS FINANCE. [3]
Prerequisite: Economics 101, 102 and Business Administration 101 and 102 or permission of instructor. A survey of business finance with attention directed to financial problems of business firms, large and small, and to methods for solving them.

342: FEDERAL TAXATION. [3]
Prerequisite: Business Administration 101 and 102 or permission of instructor. An examination of the federal tax structure, including the economic structure of taxation, the Internal Revenue Code and the impact of judicial decisions.

346: PRINCIPLES OF INVESTMENTS. [3]
Prerequisite: Business Administration 102 and Business Administration 341 or permission of the instructor. An introduction to considerations of personal and business investments with emphasis upon tests of a good investment, sources of information, types of investments, and mechanics of purchase and sale.

351: GOVERNMENT AND BUSINESS. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. A consideration of public policies intended to resolve or mitigate problems caused by industrial and other combinations, by public utility industries, by government enterprises, and by labor-management relations.

362: PRINCIPLES OF TRANSPORTATION. [3]
A course in the basic elements of transportation related to business applications, including modes, methods, rates and regulation.

412: MARKETING MANAGEMENT. [3]
Prerequisite: Business Administration 311 or permission of instructor. The managerial aspects of marketing emphasizing the development of marketing strategies and plans and integrating the specific elements of the marketing process.
COURSES OF INSTRUCTION

421, 422: BUSINESS LAW. [3, 3]
A survey of the more important general principles of law which apply to the daily activities of business operations: discussion of concepts and principles relating to the law of contracts, bailments, agency, sales, negotiable instruments, partnerships, bankruptcy, and other topics.

431: THE SOCIAL ENVIRONMENT OF AMERICAN BUSINESS. [3]
Prerequisite: Senior class standing or permission of instructor. An introduction to the social position and responsibilities of American business and to the place of ethics and standards in its conduct.

434: BUSINESS ORGANIZATION, MANAGEMENT AND POLICY. [3]
A senior-level course designed to acquaint the student with the structure and management of various types of organizations. The principles of planning, organizing, directing, staffing and controlling are related, through case studies, to actual business situations. The cases will include material from other required subjects in the business curriculum, and will stress techniques of managerial decision-making in both large and small enterprises.

ECONOMICS

Requirements for the Major

Students majoring in economics must satisfy the area requirements set for the Bachelor of Arts degree at George Mason College. In addition they must present thirty-three hours of work in economics, to include Economics 201 and 202. Six hours of statistics must be completed in addition to the thirty-three hours of economics mentioned above.

Credit hours in economics may be earned in excess of 42, but the surplus hours must be listed as elective hours on the degree application form.

Courses

101: PRINCIPLES OF ECONOMICS. [3]
An introductory course emphasizing macroeconomic analysis. Topics considered include national income analysis, money and banking, economic growth and stability, unemployment, inflation, and the role of government in the economy.

102: PRINCIPLES OF ECONOMICS. [3]
Prerequisite: Economics 101 or permission of instructor. A course emphasizing introductory microeconomic analysis. Basic economic concepts and theories of production, value, price, and economics of the firm, and functional distribution are considered and applied under varying conditions of the market.
201: INTERMEDIATE MACROECONOMICS. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. The study of aggregate economic accounts, including the measurement of national income, determinants of levels of income and output, and causes and solutions for problems of unemployment, inflation, and economic growth.

202: INTERMEDIATE PRICE THEORY. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An examination of basic factors of price and distribution theory, including analysis of demand, costs of production, and supply relationships, and price and output determination under various market structures.

301: MONEY AND BANKING. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An examination of monetary and of commercial and central banking systems in the economic system with particular emphasis upon their relationship with American governmental programs, fiscal policies, and controls.

302: PUBLIC FINANCE. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An examination of intergovernmental financial relationships, types, incidences and consequences of taxation, other sources of governmental income, governmental expenditures and their effects, public economic enterprises, public borrowing, debt management and its economic effects.

303: ECONOMIC GROWTH AND BUSINESS CYCLES. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. Prior completion of Economics 201 and 202 is recommended. An examination of the factors contributing to sustained economic growth with additional emphasis on business fluctuations and their measurement.

304: ECONOMICS OF INDUSTRIAL ORGANIZATION. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An analysis of economic factors influencing industrial structure and of the conduct and performance of industry associated with different market structures.

305: REGIONAL ECONOMICS. [3]
Prerequisite: Economics 202 or permission of instructor. Discusses the economics of urban structure, regional development, industrial location, land utilization, and other locational factors affecting spatial preferences and patterns.

307: ECONOMICS OF DEVELOPING AREAS. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An analysis of major aspects of economic growth characteristic of developing countries. Recent theories of economic development; obstacles to development; policies and planning for development.

401: COMPARATIVE ECONOMIC SYSTEMS. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An ex-
COURSES OF INSTRUCTION

amination of the theory, programs, and practices of selected major contemporary economic systems, to include capitalism, socialism, communism, and fascism. Special attention is given to the role of planning in the western European countries.

403: DEVELOPMENT OF ECONOMIC THOUGHT. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. An examination of the main developments in economic thought from 1500 to the present with emphasis upon their historical origins, their impact on contemporary economics, and their theoretical validity.

404: INTERNATIONAL ECONOMICS. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. Government 132 is desirable. A survey of contemporary international economic relations with emphasis on the foreign economic policies of the United States, the balance of payments, international investments, foreign exchange, and international economic disequilibrium and adjustment.

406: ECONOMIC PROBLEMS AND PUBLIC POLICIES. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. A detailed study of important economic problems in light of current and proposed public policies.

412: QUANTITATIVE ECONOMIC ANALYSIS. [3]

420: ECONOMICS OF LABOR. [3]
Prerequisite: Economics 101 and 102 or permission of instructor. A course analyzing economic factors that determine levels of wages and employment and their economic consequences. Attention is directed to recent developments in unionism, collective bargaining, and industrial technology.

430: SEMINAR IN ECONOMICS. [3]
Prerequisite: Economics 201, 202 and permission of instructor. A course in which the more important current economic problems will be studied and discussed in seminar form.

GEOGRAPHY COURSES

101: MAJOR WORLD REGIONS. [3]
A geographic analysis of the patterns, problems, and prospects of the world's principal human-geographic regions, including Anglo-America, Europe, Far East, Latin America, and the Soviet Union. Emphasis is upon the causal factors of areal differentiation and the role geographic differences play in the interpretation of the current world scene.
102: PHYSICAL GEOGRAPHY. [3]
Distribution of the world’s landform features, climates, vegetation types, soils, and mineral resources; their characteristics, causes, and significance. Interrelationships of the natural environment. Properties of the globe and its representation in the form of maps treated in detail.

201: GEOGRAPHY OF LATIN AMERICA. [3]
Prerequisite: Geography 102 is desirable but not required as a prerequisite. A regional survey of physical resources, population, cultural characteristics, and economic activities in Latin America.

GOVERNMENT COURSES

103: INTRODUCTION TO DEMOCRATIC GOVERNMENT. [3]
An analysis and comparison of the American presidential and the British parliamentary forms of democratic governments. (Students who have taken Government 101: NATIONAL GOVERNMENT OF THE UNITED STATES are not eligible to take this course.)

132: INTRODUCTION TO INTERNATIONAL POLITICS. [3]
An examination of geographic, demographic, economic, ideological, and other factors which influence foreign policies of states; the methods of conflict and institutions of adjustment extant among states; the limitations and functions of power, diplomacy, and international law and organization.

204: AMERICAN STATE AND LOCAL GOVERNMENT. [3]
An introduction to the nature, organization, functions and problems of American state and local governments in their challenging and rapidly changing environment.

221: COMPARATIVE GOVERNMENT AND POLITICS. [3]
Prerequisite: Government 103 or permission of instructor. A comparative analysis of the backgrounds, forms, and activities of selected contemporary foreign governments, including those of England, France, West Germany, and the Soviet Union. Not offered during 1970-71.

222: COMPARATIVE GOVERNMENT AND POLITICS: LATIN AMERICA. [3]
Prerequisite: Government 221 or permission of instructor. A study of the constitutional, political, and administrative systems of Latin America with attention to the political implications of economic development, nationalism, demography, and social reform. Not offered during 1970-71.

231: FOREIGN POLICIES OF THE POWERS. [3]
Prerequisite: Government 132 or permission of instructor. Study of the foreign policies of the United States, of the other major powers, and of selected smaller powers.
COURSES OF INSTRUCTION

241: INTRODUCTION TO PUBLIC ADMINISTRATION. [3]
Prerequisite: Government 103 or permission of instructor. An examination of administrative structure and processes. Includes organization theory, administrative behavior, personnel, decision-making, communications, leadership, management, budgetary processes, and administrative responsibility.

251: THE AMERICAN POLITY. [3]
An examination of the political processes and political forces operating in the United States today.

301: PUBLIC LAW AND THE JUDICIAL PROCESS. (Area Course III) [6]
Prerequisite: Completion of Government 103 and permission of instructor by signature. Open only to juniors and seniors. An introduction to general jurisprudence, Islamic and Soviet legal systems; analysis of selected aspects of judicial organization and operation, of the role of the judiciary in policy formation, and of selected constitutional principles evolved by the United States Supreme Court.

Government Area Course III is an experimental course. It will require considerable reading and independent study for which six hours of credit may be earned, but the class will meet the usual three contact hours per week. Only serious students who are willing to assume a major responsibility for their own education should elect this course. Enrollment will be strictly limited to 20 junior and senior students to be admitted without regard to major fields of study by signature of the instructor.

331: INTERNATIONAL LAW. [3]
Prerequisite: Government 132 or permission of instructor. Not open to freshmen. A study of the origin and development of international law and of its general principles relating to such subjects as the acquisition of statehood, recognition of new governments, rights and obligations of states, territorial jurisdiction, procedures for peaceful settlement of disputes, the laws of war and neutrality, and the legal character of international organization.

332: INTERNATIONAL ORGANIZATION. [3]
Prerequisite: Government 132 or permission of instructor. A study of the origin and development of international organization from the Concert of Europe to the United Nations. Emphasis is given to aspects of extra-national organizations to illustrate the problems, powers, purposes, and limitations of their existence.

352: PUBLIC OPINION, PROPAGANDA, AND COMMUNICATION. [3]
An introduction to the nature, theories and techniques of public opinion and propaganda and to the theory, media, and problems of communications.
DEGREES, HONORS, AWARDS

Degrees Conferred
Dean’s List
Awards
DEGREES, HONORS, AWARDS

Degrees Conferred June, 1969

BACHELOR OF ARTS

Major in Biology

Michael Allen Alexander, with distinction
Carol L. Fisher
Laurent A. Gaudreault
Pearl Marie Warren, with high distinction

Major in Business and Public Administration

Alden B. Bradford
Paul T. Burke
William C. Chauncey
Nelson T. Clark, with distinction
Thomas Clark Foster, with high distinction
Edward Armand Fredette
William P. Frogale
June T. Heise, with distinction
Louis Ziotnicki Kaufman
James Stephen Kennedy
Glenn Russell Kirby, with distinction
Michael G. Koerner, with highest distinction
Christopher A. Lee
Thomas Edward Lutes
Edward L. McCormick
William Charles Mich
Joel C. Miller
Mary K. Minnies
Sandra J. Roupp, with distinction
Robert T. Sams
Edgar Schumacher
Richard H. Small
Robert B. Sprott
Robert H. Sylvester, with distinction
Jody Dennis Taylor
Ronald Francis Wells, with distinction
David B. West

Major in Chemistry

C. Victoria Clum, with distinction
Harold H. Dutton, Jr.
Major in English

Judith Wilson Ambrose
Joan A. Bentley
Sandra L. Cunningham
Emile de Planque, III
Helen Montague Foster, with high distinction
Joel A. Gabriel
Paul R. Garneau
Jerilyn B. Grim
Patricia J. Henderson, with distinction
Geraldine Winston Inge, with distinction
Gloria D. Jenkins, with distinction
Dorothy S. Krueger, with distinction
Barry W. McCahill
Joann A. McConnell
Nancy N. McGregor, with high distinction
Lennetta F. Miller
Virginia John Parrish, with high distinction
Karen Pruitt
Jacqueline Alma Reeves, with high distinction
Coty Nicholson Roach
John C. Rogers
Margaret Edna Shea, with distinction
Thomas Hal Stewart
Thomas Cleveland Tucker
Ellen E. Turtle
Ellen E. Weikel
Helen R. G. White

Major in History

Ellis Jay Alexander
Ivan W. Armijo
William Charles Bass, with distinction
Laura Leigh Beaty
William Joseph Coleman, Jr.
Gregory Stuart Coughlan
Commy Park Crawford
Roy Scott Dimock
Erin Marie Dunleavy
Carol Faye Farley
DEGREES, HONORS, AWARDS

Gail Lynn Gabriel
Marjorie J. Gibbo
Susan Hall Godson, with highest distinction
Howard M. Gooding, Jr.
Barbara B. Graham, with highest distinction
Donald W. Greenwalt
Alexander Michael Guron
Robert C. Hambleton
Jan Lowell Hanna
Patricia L. Harrison
Joseph C. Howard, III, with distinction
Keith Alan Kenny
Harold E. Knight, III
Jeffrey D. Knowlton
Susan Lanigan
Ruth M. Manning, with distinction
William R. Marcey
Robert F. Montgomery, Jr.
Richard Young Moran
Roselyne E. Muller, with high distinction
Michael A. Newton, with high distinction
Charles Lane O'Connor, with high distinction
Mary H. Pierce
Craig F. Posey
Patricia A. Price
Vincent F. Rafferty
David Readyhough
Anthony B. Riolo
James Edward Ritchie
Virginia Taylor Ruddy
Gilbert Landis Sager
Benjamin T. Saunders
Antoinette A. Scala
Susan Isabelle Shepard
William T. Stapleton
Dianne R. Tippins
Richard E. Trodden, with distinction
Beverly D. Weinbach, with high distinction
J. Calvin Williams, Jr.

Major in Mathematics

Andrea Joy Adams
Donald Thomas Alvey
Harold Vernon Dansberger, Jr.
Marylyn T. Graves, with distinction
Carolyn J. Strow, with distinction
Christine Beatrice Upright
Barbara Judith van der Vate, with distinction
Betty Ann White
Cyril A. Barch, with distinction
Sara J. Berry, with distinction
Michael J. Green
Linda Carol Grimes
Harold Chris Haas
Dennis A. Hill
Walter David Holtzclaw, Jr., with distinction
James F. Hopkins, III
Michele Marie Kershes
Kenneth M. Leber, III
Gary C. Lyman
Helen Jean Namey
Karen L. Tomlin
Michele Rose Yermack, with distinction
DEGREES, HONORS, AWARDS

Dean's List of Distinguished Students

FIRST SEMESTER 1968-69

Richard E. Ahlfield
Ellis Jay Alexander
Hazel R. Alexander
Michael A. Alexander
Donna J. Armstrong
Nancy D. Avery
Sharon L. Baker
Linda C. Bailey
Prudence M. Balestrieri
Cyril A. Barch
William C. Bass
Daniel V. Beard
Rex W. Beasley
Martha E. Beltran
Alvin T. Benson
Joan A. Bentley
Ahldor K. Berg
Sara J. Berry
Brian E. Betters
Diane Billings
David F. Blount
Carolyn M. Boyer
James B. Bradshaw, Jr.
Barbara S. Breedlove
Marie J. Brewer
Charles P. Brinkman
Barbara A. Brockert
Benjamin F. Brown
Larry F. Burnette
Constance J. Butler
Diana E. Butler
John F. Carlin, Jr.
Susanne E. Carpenter
Arthur L. Carter, Jr.
Gail C. Chase
Nelson T. Clark
Carolyn V. Clum
Laura P. Cole
Dennis Coleman
Susan E. Coleman
William J. Coleman, Jr.
George F. Congleton
Janice A. Constantine
Gregory S. Coughlan

Douglas C. Crouch
Andrew L. Cushman, Jr.
Maureen L. Daniels
Harold V. Dansberger
Marilyn T. Dargusch
Stephen P. Dargusch
Elizabeth M. Dart
Carol L. Davis
Janet M. Deeney
John D. D'Elia
Jorge O. Dengo
Miguel P. Dengo
Karen E. DeSomma
Linda E. Diaz
Don J. Dolan
Barbara H. Dreibus
Jeffrey E. Drifmeyer
Agnes W. Duncan
William R. Dykes, III
Doris Eidsness
Carol F. Egan
Michael B. Elliott
Judith E. Faith
James P. Feeney
Rebeca M. Fernandez
John J. Filan
Helen M. Foster
Robert M. Foster, Jr.
Thomas C. Foster
Diane L. Fowler
David H. Francoise
Jon S. Freda
Linda O. French
Paul R. Garces
Thomas D. Garrett
Sara L. Gieseler
Penelope D. Gilliland
Judith J. Ginther
Matthew A. Gonda
Barbara B. Graham
Wayne A. Grandy
Hathaway H. Green
Michael J. Green
Joanne D. Grefenstette
Douglas S. Gregory
Steven K. Grossman
Joy M. Gruver
Alexander M. Guron
Valerie A. Haase
Brenda J. Hall
Catherine C. Hall
James D. Harshfield
Carolyn E. Hart
Richard M. Hathaway
Benjamin W. Haun
James N. Hawkins
Robert B. Hendrick
Michael E. Hendrickson
Harry B. Heywood
Mariann E. Hilts
Enver B. Hoff
Joseph C. Howard, III
Christine F. Hughes
John D. Hughes, Jr.
Maureen L. Hunter
Scott S. Ickert
Joanne C. Jaxtheimer
Ann L. Jeffries
Barbara K. Johnson
Bruce E. Johnson
Robert B. Johnson
Irene B. Kabler
Stephen L. Keidaish
Keith A. Kenney
Kathy A. Kinney
Glenn R. Kirby
Harold E. Knight, III
Barton H. Kramer
Stephen J. Kulenguski
Nancy L. Lake
Joan D. Lawson
Michele Leikensohn
Robert E. Lilly
Thomas E. Lutes
Arlene L. Lyles
Elizabeth A. Lynch
Shirley A. Lynskey
Mary C. MacDonald
William R. Marcey
Karen A. Marsey
John W. Maurer
Christine L. May
Richard W. Maybach, Jr.
Andrew P. Mayo
William R. McAninch

John J. McCann
Michael R. McDougle
James L. McFarland
Nancy N. McGregor
Nancy L. McLendon
Sidney G. McMichael
Deborah C. McNair
Jean A. Meyer
Ada P. Miller
Joel C. Miller
Dan R. Moorefield
Sandra L. Morrow
Marcela S. Mullady
Roselyne E. Muller
Patricia Murray
Donald L. Myers
Michael A. Newton
Mark A. Olson
Katherine A. Ongalo
Dee A. Orr
William C. Osborne
Christine E. Ottersberg
Roberta A. Overman
William E. Owen
Brian G. Page
Carla J. Paolucci
Virginia J. Parrish
Carole L. Patrello
Chris A. Payne
Larry J. Peoples
David N. Petersen
Charles L. Phillips, Jr.
Mary H. Pierce
Robert P. Pitner
Barbara K. Poytress
Ann H. Prestera
Patricia A. Price
Nancy M. Proside
Robert C. Rasmussen
David Readyhough
Jacqueline Reeves
Anne K. L. Relph
Clifford C. Reynolds, III
Dennis M. Rice
Andrea J. Richter
Anthony B. Riolo
Doris M. Robinette
John C. Rogers
Donald D. Roth
Sandra J. Roupp
Richard W. Royer

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DEGREES, HONORS, AWARDS

Joelle A. Rubenstein  
Virginia T. Ruddy  
Franklin A. Ruth  
Kathleen A. Ryan  
Gilbert L. Sager  
Catalina A. Sanchez  
Susan M. Schalestock  
Ingrid K. Schierling  
Karen E. Schnetzler  
Evelyn R. Sconce  
Edith M. Seymour  
Patricia Shahan  
Margaret E. Shea  
Anne H. Shelley  
Betty K. Shewbridge  
David B. Shumate  
Carol A. Smith  
Glenn M. Smith  
Ruth C. Smith  
Sherry K. Smith  
Elizabeth J. Snyder  
Kenneth F. Solomon  
Mary M. Spaulding  
Michele S. Sperry  
William B. Stansbery  
Nora V. Stanton  
Janet Strong  
Susan J. Strong  
Timothy R. Summers  
Stephanie D. Talbot  
Randolph M. Tauss  
Jody D. Taylor  
Patricia J. Teagle  
Joseph P. Tessier  
Rose M. Tessier  
Rosanne M. Thaiss  
Carol A. Thomson  
Albert H. Tillson, Jr.  
Nandkiskor Topiwala  
Janet E. Trout  
Anthony J. Vogel  
Jane D. Wagner  
Carolyn Walters  
Pearl M. Warren  
Diane E. Wells  
Gary James Wells  
Suzanne Wheatley  
Thomas E. Wheeler  
George Whelpley, Jr.  
Helen R. G. White  
Marian L. Willette  
Dorothy F. Williams  
James Calvin Williams, Jr.  
James P. Witeck  
Glade S. Wittwer, Jr.  
Margarete N. Wolaver  
Curtis H. Wood  
Denise A. Worley

SECOND SEMESTER 1968-69

Richard E. Ahlfield  
Mary Jo Armstrong  
Mary E. Asher  
Linda C. Bailey  
Prudence M. Balestrieri  
Cyril A. Barch  
William C. Bass  
Karen E. Beach  
Martha E. Beltran  
Abderraouf Benbrahim  
Elaine C. Benen  
Alvin T. Benson  
Sara J. Berry  
Brian E. Betters  
Diane Billings  
David E. Boone  
Carolyn M. Boyer  

Patrick Brant  
Barbara S. Breedlove  
Charles P. Brinkman  
George H. Brock  
Barbara A. Brockert  
Patricia S. Brudzinski  
Barbara A. Burke  
Harvie L. Burke, Jr.  
Diana E. Butler  
Patricia M. Cain  
Lynda D. Carson  
Joyce L. Carter  
Judith L. Cloyed  
Laura P. Cole  
W. Joseph Coleman, Jr.  
Susan E. Coleman  
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Stephen P. Dargusch
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Miguel P. Dengo
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Jeffrey E. Drifmeyer
Agnes W. Duncan
Dana F. Dunlap
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Noreen M. Egan
Peter J. Eichten
Doris Eidsness
Michael B. Elliott
Delana K. Ellis
William A. Eng
Amalia M. Fernandez
John J. Filan
Patricia I. Fiskeaux
Robert M. Foster, Jr.
Terry L. Friesz
Joyce A. Fritz
Stephen R. Gaffney
Linda J. Gamble
Jessica L. Gifford
Penelope D. Gilliland
Judith J. Ginther
John B. Grabill
Barbara B. Graham
Wayne A. Grandy
Marilyn T. Graves
Daunella Green
Hathaway H. Green
Joanne D. Grefenstette
Douglas S. Gregory
Steven K. Grossman
Joy M. Gruver
Arlene H. Gutnick
James E. Guzdowski
Harold C. Haas
Valerie A. Haase
Raymond L. Hager
Brenda J. Hall
Catherine C. Hall
Patricia T. Hall
Sallie M. Hall
Robert C. Hambleton
Jan L. Hanna
James D. Harshfield
Patricia J. Henderson
Robert B. Hendrick
Michael E. Hendrickson
Karen Hermansen
Harry B. Heywood
Virginia K. Hicks
Kathryn I. Hilton
Mariann E. Hilts
Stephen W. Hitchcock
Enver B. Hoff
Durett E. Huck
Christine F. Hughes
Diana M. Hurst
Scott S. Ickert
Teresa J. Iliffe
Ann L. Jeffries
Bruce E. Johnson
Robert B. Johnson
Carol P. Kelley
Susan E. King
Kathy A. Kinney
Glenn R. Kirby
Jeffrey D. Knowlton
Barton H. Kramer
Stephen J. Kulenguski
Scott M. Lambert
Ava E. La Mee
William L. Lancaster
Robert Lilly
Janis A. Livingstone
Donna F. Loney
Nancy G. Lusk
Arlene L. Lyles
Elizabeth A. Lynch
Shirley A. Lyskas
Mary E. MacDonald
Marguerite L. Mangum
Karen A. Marsey
Maria L. Marshall
Howard E. Martfield
Richard W. Maybach, Jr.
Andrew P. Mayo
William R. McAninch
DEGREES, HONORS, AWARDS

Edward L. McCormick
Michael R. McDougle
James L. McFarlane
Nancy N. McGregor
Sidney G. McMichael
Deborah C. McNair
Susan R. McWilliams
Luis F. Mercado
Kathleen F. Meredith
Jean A. Meyer
Ada Pearl Miller
Mary C. Miller
Arlene J. Millican
Susan J. Mitchell
Arlene L. Moore
Dan R. Moorefield
Susan J. Muck
Marcella S. Mullady
Roselyn E. Muller
Jo Anne A. Murphy
Donald L. Myers
Douglas C. Niemi
Charles L. O'Connor
Mark A. Olson
Dee A. Orr
William C. Osborne
Roberta A. Overman
Thomas R. Overstreet
William E. Owen
Brian G. Page
Patrick Palmer
Carol A. Pawlowski
Chris A. Payne
Diane E. Peil
Robert M. Penn
Charles L. Phillips, Jr.
Thomas E. Phipps
Mary H. Pierce
Robert P. Pittner
Ann H. Prestera
Susan W. Pryor
William C. Pulman, Jr.
Robert C. Rasmussen
Anne K. L. Relph
Clifford C. Reynolds III
Dennis M. Rice
Brian G. Robbins
Susan B. Roberts
Ronald D. Roth
Sandra J. Roupp

Joelle A. Rubenstein
Kathleen A. Ryan
Gilbert L. Sager
Nancy Sardonia
Benjamin T. Saunders, Jr.
Ingrid K. Schierling
Thomas J. Schneiders
Karen E. Schnetzler
Catherine V. Semenuk
Edith M. Seymour
Kenneth F. Sheets
Betty K. Shewbridge
David B. Shumate
Carol A. Smith
Dana L. Smith
Glenn M. Smith
Elizabeth J. Snyder
Susan E. Snyder
William B. Stansbery
Nora V. Stanton
John C. Stouts
Susan J. Strong
Maria M. Suarez
Timothy R. Summers
Karen S. Swift
Mary M. Tackney
Stephanie De Ann Talbot
Ronald R. Tant
Randolph M. Tauss
Linda K. Taylor
Joseph P. Tessier
Rose M. Tessier
Rosanne M. Thaiss
Albert H. Tillson, Jr.
Nandkiskor Topiwala
Ghislaine Tulou
Christine B. Upright
Peter D. Van Sickels
Mary L. Velebir
Gerald R. Virgilio
Anthony J. Vogel
Jane D. Wagner
Carolyn Walters
Diane E. Wells
Suzanne Wheatley
George Whelpley, Jr.
Betty A. White
Christine D. White
Helen R. G. White
Marian L. Willette
Dorothy F. Williams
James C. Williams
Raymond L. Willingham
Glade S. Wittwer, Jr.
Margarete N. Wolaver

Curtis H. Wood
Kirk D. Wrigley
Michele R. Yermack
William Z. Zahavi
Beatrice M. Zimmer
DEGREES, HONORS, AWARDS

Awards

GEORGE MASON COLLEGE
LITERARY CONTESTS

Short Story:
First Prize: Charles L. Phillips, Jr.
Second Prize: Charles L. Phillips, Jr.

Poetry:
First Prize: Martin F. Gurri
Second Prize: Kathleen L. Dalton

ATHLETIC AWARDS 1968-1969

Most Valuable Baseball Player: Curtis H. Wood
Most Valuable Basketball Player: Scott A. Leaser
COLLEGE DIRECTORIES

Administration
Faculty
Library
Information and Planning
Staff
Student Assistants
Faculty Committees
Student Government
Alumni Association
George Mason College Foundation, Inc.
George Mason College Advisory Committee
University of Virginia, The Rector and Visitors
University of Virginia, Administration
COLLEGE DIRECTORIES

Administration

LORIN ANDREW THOMPSON, B.A., M.A., Ph.D.
Chancellor

ROBERT CHARLES KRUG, B.S., M.S., Ph.D.
Dean of the College

STEPHEN JEFFRY BROWN, B.A., M.A., Ph.D.
Associate Dean of the College

HENRY PATTSON ADAMS, B.S.
Business Manager

ROBERT AMRINE TURNER, B.S., M.A.T.
Dean of Students

LOUIS JOHN AEBISCHER, B.S., M.S.
Director of Admissions

MARK ALAN TANNENBAUM, B.A., M.A.
Registrar and Director of Financial Aid

Faculty

ABBUD, May Catherine, Acting Assistant Professor of Mathematics. B.Sc., American University, Beirut, Lebanon, 1960; M.Sc., American University, Beirut, Lebanon, 1962; M.A., University of Rochester, 1967.

ADAMS, Henry Patteson, Business Manager. B.S., United States Naval Academy, 1939.

ADELMAN, Betty Sue, Assistant Professor of Biology. A.B., Hunter College, 1957; Ph.D., Georgetown University, 1970.

AEBISCHER, Louis John, Assistant Professor of Education, Director of Admissions. B.S., Syracuse University, 1936; M.S., Syracuse University, 1947.


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ANDRYKOVITCH, George Eugene, Assistant Professor of Biology. B.S., University of Pittsburgh, 1962; M.S., University of Pittsburgh, 1965; Ph.D., University of Maryland, 1968.

ARRIOLA, Paul Manuel, Associate Professor of Spanish. B.A., San Diego State College, 1947; M.A., University of California, 1949; Ph.D., University of California, 1956.

AUSTIN, Virginia LaRose, Assistant Professor of Elementary Education. B.S.M. DePauw University, 1931; M.Ed., University of Maryland, 1954.


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


BROOKS, Nancy Cook, Assistant Professor of Spanish. A.B., University of Kansas, 1947; M.A., University of Kansas, 1948.

BROWN, Lorraine Anne, Assistant Professor of English. B.A., University of Michigan, 1951; M.A., University of Michigan, 1961; Ph.D., University of Maryland, 1967.

BROWN, Stephen Jeffry, Professor of English, Associate Dean of the College. B.A., Yale University, 1950; B.A., Cambridge University, 1952; M.A., Yale University, 1954; Ph.D., Yale University, 1959.

BUFILL, Jose Angel, Assistant Professor of Spanish. B.A., Instituto Del Vedado, 1942; Doctor EnDerecho, University of Havana, 1955; M.A., State University of New York, 1967.


CABELL, Mary Katherine, Associate Professor of Mathematics. B.A., University of Tennessee, 1955; M.A., University of Virginia, 1957; Ph.D., University of Virginia, 1960.
COLLEGE DIRECTORIES

CARTER, Courtney Morton, Instructor in English. B.A., College of William and Mary, 1965; M.A., University of Virginia, 1966.


CLARK, James Edgar, Lecturer in Engineering Drawing. B.C.E., Catholic University, 1960; M.S., University of Arizona, 1964.

CLEMENS, Siegfried Martin, Lecturer in German. B.S., University of Maryland, 1961; M.A., University of Maryland, 1965.

COHEN, Edmund David, Assistant Professor of Psychology. A.B., George Washington University, 1965; M.S., Case Western Reserve University, 1967; Ph.D., Case Western Reserve University, 1968.


COLE, Hubert Merrill, Associate Professor of Mathematics. B.S., United States Military Academy, 1925; M.S., New York University, 1956.

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