GEORGE MASON COLLEGE BULLETIN

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

Published July 1, 1971
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 1971-72
First Semester

Tuesday, August 31 through ............ Pre-registered students pick up
Thursday, September 2 assigned schedules. Foreign Language
placegment exams on Thursday,
September 2

Tuesday, September 7 ................. Orientation for Faculty
Wednesday, September 8 through Advising and registration
Thursday, September 9 for full-time transfer students and
returning students who did not
pre-register.
  9:00 - 1:00 Names beginning A - G
  1:00 - 5:00 Names beginning H - N
  9:00 - 1:00 Names beginning O - Z
  1:00 - 5:00 Orientation of all new
freshmen. English proficiency test on
Wednesday, September 8.

Friday, September 10 and ............. Advising and registration of
Monday, September 13 full-time new Freshmen
  9:00 - 1:00 Names beginning A - G
  1:00 - 5:00 Names beginning H - N
  9:00 - 1:00 Names beginning O - Z
  1:00 - 5:00 All part-time students
(Freshmen/Returning and Transfer)

Tuesday, September 14 ................ First day of classes
Monday, September 20 ............... Last day for adding new courses for
all students

Friday, October 22 ................. Last day for dropping a course without
incurring a grade of F
Friday, October 29 ................. Last day for June Degree Applications
Friday, November 5 ................ Mid-term progress reports due from
Faculty

Friday, November 12 .................. Patriot's Day
Monday, November 15 ............. Distribution of mid-term progress reports
Thursday, November 25 through ....... Thanksgiving recess
Sunday, November 28

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

Monday, December 6 through .......... SENIORS – See Adviser and file
pre-registration request in
Recorder’s Office
Tuesday, December 7

Thursday, December 9 through .......... JUNIORS – See Adviser and file
pre-registration request in
Recorder’s Office
Friday, December 10

Monday, December 13 through .......... SOPHOMORES – See Adviser
and file pre-registration request
in Recorder’s Office
Tuesday, December 14
GENERAL INFORMATION

Thursday, December 16 through FRESHMEN/SPECIAL/ 
Friday, December 17 POST GRADUATE – See Adviser 
and file pre-registration request in 
Recorder's Office 
Saturday, December 18 through Christmas Recess 
Sunday, January 2 
Tuesday, January 11 through Pre-registered students pick up 
Friday, January 14 assigned schedules 
Wednesday, January 12 Reading Day 
Thursday, January 13 through Examinations 
Friday, January 21 

Second Semester

Friday, January 28 Foreign Language placement exams 
Monday, January 31 through Advising and registration of 
Tuesday, February 1 returning students who did not pre-register and new students. Full-time students only through 1:00 p.m. Tuesday, February 1. English proficiency test Tuesday, February 1 
Wednesday, February 2 First day of classes 
Wednesday, February 9 Last day for adding new courses for all students 
Thursday, March 16 Last day for dropping a course without incurring a grade of F 
Saturday Noon, March 25 through Spring Recess 
Sunday, April 2 
Monday, April 3 Last day for Summer Degree Applications 
Friday, April 14 George Mason Day 
Friday, April 28 Applications for renewal of scholarships and loans due 
Monday, May 1 First semester schedule of classes may be obtained at Receptionist's desk 
Wednesday, May 3 through RETURNING SENIORS AND 
Thursday, May 4 JUNIORS – See Adviser and file pre-registration request in Recorder’s Office 
Monday, May 8 through SOPHOMORES – See Adviser and file pre-registration request with Recorder’s Office 
Tuesday, May 9 
Thursday, May 11 through FRESHMEN/SPECIAL/POST 
Friday, May 12 GRADUATE – See Adviser and file pre-registration request in Recorder’s Office 
Monday, May 22 through Examinations 
Tuesday, May 30 
Sunday, June 4 Commencement
### Summer Session 1972

Monday, June 12* .............................. First Term Begins  
Thursday, July 13* .............................. First Term Ends  
Tuesday, July 18* .............................. Second Term Begins  
Thursday, August 17* ........................ Second Term Ends  

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

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#### 1971

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GENERAL INFORMATION

Correspondence Directory

Inquiries to the College should be addressed as indicated below:

Academic Programs (Undergraduate) .... Dean of the College
Academic Programs (Graduate) ....... Dean of Graduate Program
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 ....................... Dean 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.
"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
Chancellor
Gene ral Information

History of George Mason College

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

The City of Fairfax purchased 150 acres for a permanent branch campus and donated it to the University of Virginia in 1959. Early the following year, the branch was named for the Virginia statesman, George Mason, and was given the status of a community college of the University. The first four buildings opened September, 1964.

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

In an attempt to meet the State's long-range mandate, the College Board of Control, supported by the citizens of Alexandria, Falls Church, Arlington and Fairfax County, worked to acquire 422 additional acres. Thus by July, 1970, the size of the campus had reached 572 acres.

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

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

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

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

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

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

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.
GENERAL INFORMATION

Facilities

THE CAMPUS

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

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

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

LIBRARY

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

Books are usually selected to support the curricula of the College; however, materials of enduring value and general interest are also acquired. The present collection includes over 47,000 books and 7,500 bound periodicals as well as over 5,000 pamphlets, maps, and microfilms. 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 ninety 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.

A student in freshman or sophomore status (less than fifty-four semester-hours of credit) is ineligible to hold an elected or appointed office in any student organization or activity of either a governmental, athletic or managerial character, if his cumulative grade point average is less than 2.000. Any student on probation is not only ineligible to hold an elected or appointed office, but is also ineligible to participate in any athletic or other activity representing the College on either an intercollegiate or club level and/or to serve as a working staff member of any student organization. It is the responsibility of the individual student to notify his organization when he becomes ineligible. Authority is vested in the Dean of the College, however, to remove the restriction on activities, in whole or part, for individual cases.

There are student organizations which cater to many student interests: political, forensic, musical or dramatic, scientific, recreational, social and religious. For a complete listing of recognized student organizations, inquire at the Student Government Office.

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.

Student Services

LIVING ACCOMMODATIONS

The Placement Office maintains a file of housing available in the vicinity of the College for students seeking accommodations. The College provides no housing facilities of its own at present.

INSURANCE

George Mason College has no provisions for rendering health services to students. It is the individual student’s responsibility to arrange for needed health services. A combined hospitalization and accident policy is available to students at George Mason College. This policy provides twenty-four hour coverage including vacation periods. Applications and brochures are available in the Financial Aid and Placement Office.
PLACEMENT SERVICE

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

The student should think about occupational choice from the time he enters college. A counselor is available to assist students in considering various alternatives and in finding sources of information. This office maintains a library containing occupational and employer information, as well as guides to graduate programs and testing information.

Recruiters visit the campus throughout the year. While seniors are 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.

Information concerning part-time, temporary and summer jobs is available to students through listings posted on a bulletin board, and through consultation with an employment counselor.

COLLEGE COUNSELING CENTER

The Center provides specialized psychological services in educational-vocational testing and counseling, and in personal adjustment counseling. These services aid the student in exploring his interests, personality, and achievement level and assist him in making the most of his opportunities for academic and personal development while in college. The Center is staffed by a professionally trained psychologist. There is no charge for Center services.

HONOR SYSTEM

As originally formulated in 1842, the Honor System at the University applied only to final written examinations. Through its more than a century of continuous use, the pledge has been extended to all academic work submitted for credit, statements made to the faculty, and other declarations of good faith or intent. Considered reprehensible under the System are lying, cheating, and stealing.

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

Students who enforce the Honor System are not spying; they are in
CAMPUS AND FACILITIES

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, would violate the spirit of honor.

The Honor Committee is composed of students elected each year by members of the student body. Upon entering the College, all new students attend formal and informal meetings at which students discuss the meaning of the System; smaller groups then meet with members of the Honor Committee who answer individual questions about the System. Before initial registration at the College is complete, each student is required to sign a card indicating he understands, accepts and will abide by the conditions set forth in the Honor Code. A statement of willingness to comply with the Honor System is also included in the application form for admission to George Mason College.

CAMPUS MINISTRY ASSOCIATION

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

Chaplains are on campus daily for discussion and counseling with all members of the College community. A counseling and seminar room is available in the Library building.

Regulations

CONDUCT

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

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 unauthorized possession, storage, display, or use by students of any kind of ammunition, firearms, fireworks, explosives, air rifles, air pistols or other lethal instruments is prohibited on College property. Any questions regarding this regulation should be directed to the Campus Security Office.

NON-ACADEMIC EVENTS AND PUBLICATIONS

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

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

CHANGE OF STATUS AND ADDRESS

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

VOLUNTARY WITHDRAWAL

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

When a student withdraws after the last day for dropping a class, each of his instructors is asked to indicate whether the student withdrew passing or withdrew failing. The student's permanent record is marked accordingly. All courses that are marked withdrew failing will be figured into the total hours attempted. (See Grade and Grade Points, p. 33.)

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 of enrollment in the College.
ENTERING GEORGE MASON COLLEGE

Nature of Announcements
Admission Requirements
Registration
Fees
Financial Aid
Veterans’ Affairs
ENTERING GEORGE MASON COLLEGE

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.

All candidates for admission are required to take the Scholastic Aptitude Test given by the College Entrance Examination Board, or its equivalent. 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 their 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.*

The English 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 English Department.

The Admissions Office considers each applicant individually, using the following criteria:

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

2. Evidence of good character and acceptable social habits.

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

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 supply 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 15 whether they wish to accept or decline this offer. Failure to comply may affect adversely the candidate's 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.

DISCRIMINATION PROHIBITED

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

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 ten years, and a chest x-ray within six months prior to matriculation.
ENTERING GEORGE MASON COLLEGE

ADMISSION FROM SECONDARY SCHOOL

Arts, Sciences, and Elementary Education

For admission to the arts, sciences, and elementary education programs, an applicant must take the Scholastic Aptitude Test given by the College Entrance Examination Board and must present not less than fifteen (15) units of high school work in the following academic fields:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 units</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2 units</td>
</tr>
<tr>
<td>Social Studies</td>
<td>1 unit</td>
</tr>
<tr>
<td>Laboratory Science—Biology, Chemistry, or Physics</td>
<td>1 unit</td>
</tr>
<tr>
<td>Electives</td>
<td>4 units</td>
</tr>
<tr>
<td>Minimum Total</td>
<td>15 units</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3½ units</td>
</tr>
<tr>
<td>History</td>
<td>1 unit</td>
</tr>
<tr>
<td>Science</td>
<td>2 units</td>
</tr>
<tr>
<td>Electives</td>
<td>5½ units</td>
</tr>
</tbody>
</table>

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.

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.
GEORGE MASON COLLEGE

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 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 42 under the heading Credits Earned At Other Colleges.

Transfer students may be required to present Scholastic Aptitude Test scores of the College Entrance Examination Board before approval for admission may be formalized.

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, sex, religion, or national origin; the information requested is for reports the College provides to federal authorities and to other agencies collecting data on equal opportunity for education or employment.” The card carries the following statement which must be signed by the student. “I subscribe myself a student of George Mason College. I enroll in the College with a serious desire to reap the benefits of its instruction and agree to conform to its rules and regulations. In testimony whereof I subscribe my name.” A student failing to complete this card is not a Registered Student.
## ENTERING GEORGE MASON COLLEGE

### 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.

### STUDENT IDENTITY CARD

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

### Fees

<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>Diploma Fee (Seniors Only)</td>
<td>5.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Registration Fee (non-resident student only)</td>
<td></td>
<td>15.00***</td>
</tr>
</tbody>
</table>

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*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.

***See Application, p. 47.
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. Any student in doubt about his status as a Virginia resident should contact the Office of the Business Manager.

PAYMENT OF TUITION AND FEES

Tuition and fees are due and payable at the Business Office on or before August 25, 1971 and January 26, 1972. No student is permitted to register for classes until satisfactory financial arrangements have been made with the Business Office (Cashier). *Those who pay after the “due date” will be charged a late fee of $5.00 per day not to exceed three days.*

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

Any check returned to the College by the bank will result in a $5.00 penalty fee for the payer. Further, the student who fails to make good such check within five calendar days following notification by the Business Office will be suspended. All payments received in the mail are stamped in at the Business Office on a date-time machine. *This date is used to determine whether the student has met the payment on time rather than the post office cancellation date.*

DEFERRED PAYMENT PLAN

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

*First Semester:* Second and third payments due October 11 and November 11.

*Second Semester:* Second and third payments due March 6 and April 6.
ENTERING GEORGE MASON COLLEGE

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

WITHHOLDING ACADEMIC CREDIT

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

REFUNDS

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

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 to cover breakage or loss of equipment by the student. If breakage exceeds $5.00, the student will be required to reimburse the College. Unused portions of the card will be redeemed upon presentation to the Cashier at the end of the second semester (but no later than June 30, 1972).

Transcript Fee

A fee of $1.00 is charged for each transcript of record when requested by the student. Payment must accompany the request.
Motor Vehicle Registration Fees

All students who desire to park their vehicles on College property must register them with the College Security Office and pay a fee of $1.00 for a parking decal. (See Regulations on Motor Vehicles, page 18.)

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 November 24.

FEDERAL FINANCIAL AID PROGRAMS

George Mason College participates in several federally supported programs of student financial aid. The following are available to eligible 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.
ENTERING GEORGE MASON COLLEGE

The Educational Opportunity Grant Program

There are available a limited number of direct grants to undergraduate full-time 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

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

U.S. Loan Program for Cuban Students

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

STATE FINANCIAL AID PROGRAMS

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

Virginia Loans

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

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

State Teachers’ Scholarship Loans

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

SCHOLARSHIPS

George Mason College Foundation, Inc.

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

Fulbright-Hays Awards

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

Woodrow Wilson Foundation

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

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

Veterans’ Affairs

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

Veterans eligible for educational benefits under Public Law 89-358 (Pacetime 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 consists 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
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 Faculty and Dean of the Graduate Program
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". A student who has received an excuse by the Dean of the College to be absent from the final examination may receive a grade of "AB." The "AB" automatically becomes "F" within ten days after the date of regular examination if the delinquent testing has not been completed. The
grade of "SP" will be given by the Dean of the College for students faced with a delinquency because of very special circumstances such as a major illness.

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:

- "A" = 90 - 100 (excellent)
- "B" = 80 - 89 (good)
- "C" = 70 - 79 (satisfactory)
- "D" = 60 - 69 (poor)
- "F" = Failure

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 will 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. Courses taken for credit without grade are not considered when computing a student's grade point average.
CADEMIC REGULATIONS

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. A load in excess of seventeen hours must be approved by the Dean of the College or his representative. The student course load must average at least fifteen hours per semester to qualify for graduation within four years. A student must take one-third of the total contact hours after 12 o'clock noon. Classes and laboratories must be scheduled over the full week. A double number separated by a hyphen (Biology 101-102) indicates that the course extends through two semesters. See Introduction, Courses of Instruction, page 53.

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. 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. The usual College fees apply to audit status.

REPEATING A COURSE

A student who has passed a course with a grade of "C" or better is not permitted to repeat that course. In cases where courses are repeated, the following conditions apply:

(1) All hours attempted are to count in computation of the student's cumulative grade point average.
(2) His transcript will show both the original and repeat grades and the respective grade points.
(3) Only one grade with appropriate grade points may be presented on his degree application.

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 permission of the Dean of the College 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 limit a student’s performance and thus 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.
ACADEMIC REGULATIONS

FINAL EXAMINATIONS

Written examinations are held at the end of each semester except in predominantly laboratory courses. 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 final 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 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 on which they have received a grade of D or F.

Deficiencies

PROBATION AND SUSPENSION FOR ACADEMIC DEFICIENCY

A student who maintains a grade point average of 2.000 for all work attempted is in satisfactory academic standing within the University of Virginia system. A student 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. For computation of grade points, see page 34.
The following practices guide the imposition of probation or suspension:

**Probation**

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

2. A student in freshman or sophomore status (less than fifty-four semester-hours of credit) is ineligible to hold an elected or appointed office in any student organization or activity of either a governmental, athletic or managerial character, if his cumulative grade point average is less than 2.000. Any student on probation is not only ineligible to hold an elected or appointed office but is also ineligible to participate in any athletic or other activity representing the College on either an intercollegiate or club level and/or to serve as a working staff member of any student organization. It is the responsibility of the individual student to notify his organization when he becomes ineligible. Authority is vested in the Dean of the College, however, to remove the restriction on activities, in whole or part, for individual cases.

3. The academic record of a student who has been placed on probation is stamped “probation.” If rule (2) or (3) in the section entitled Suspension is applied, the student’s record will 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 will 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. No course credits earned during the period of suspension from George Mason College will be accepted for the degree program. In addition, a student will be suspended who has been on probation (or special probation as defined below) for three consecutive semesters, except as provided below. The three semester probation rule does not apply to a student whose total grade points for all hours attempted falls below the probationary standards of George Mason College.

2. No student on probation will 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.
ACADEMIC REGULATIONS

(4) The record of a student to whom rule 2 or 3 of this section has been applied will 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, will be suspended, except that freshmen will not be subject to this rule.

Readmission After Suspension

(1) Normally, a student on suspension for the first time may establish his eligibility for probationary 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 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. 38).

(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.

(5) No course credits earned during the period of suspension from George Mason College will be accepted for the degree program.

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, except in those cases where students are seeking to remove the academic suspension in accord with George Mason College regulations (see Rule (1) under Readmission after Suspension). 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 entering freshmen who have studied French, German, or Spanish in high school and who intend to continue in the same language at George Mason College are required to take a foreign language placement test. These tests will be administered to students entering in the fall of 1971 on Saturday, May 29 and Thursday, September 2 and to students entering at mid-year on Friday, January 28, 1972. Students who intend to take the placement test must register no later than four weeks in advance with the Department of Foreign Languages. Transfer students who have been granted credit for college-level foreign language study are not eligible to take the foreign language placement test; if they continue study of the same language at George Mason College, they are required to enroll in a course above the level for which they received transfer credit.

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 enter the second-year level. For students whose placement scores indicate this, the College offers for credit French, German, and Spanish 153, which are one-semester reviews of the first-year college course.

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
ACADEMIC REGULATIONS

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.

ADVANCED PLACEMENT PROGRAM
WITHOUT CREDIT

Entering first semester freshmen who do not qualify for advanced placement with credit 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.

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.
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.
ACADEMIC REGULATIONS

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 his major 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 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.

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 a grade average in all courses of at least 3.000.
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 AND DEGREE REQUIREMENTS

General
Bachelor of Arts
Bachelor of Science
Second Bachelor's Degree

Engineering
Transfer within the University

Professional School Entrance Requirements
General

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 sixteen areas: biology, business and public administration, chemistry, economics, English, French, German, government and politics, history, mathematics, philosophy, physics, psychology, Spanish, and sociology. Courses of study leading to the Bachelor of Science degree with majors in biology, business administration, law enforcement, mathematics, physics, social welfare, 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. For information regarding declaration of a major, see Academic Regulations, page 43.

In consultation with his faculty adviser, the student should plan his academic program to meet the general degree requirements stated below and the specific requirements within a major field. The role of the faculty adviser is to help a student in the planning of his academic program. It must be emphasized, however, that the main responsibility rests with the student to read the catalog and to know the requirements for his specific baccalaureate degree.

RESIDENCE REQUIREMENTS

At least one-fourth 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 one-fourth of his 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 quality grade points and/or one semester-hour short of meeting degree requirements; to consider written appeals from students who have lost credit in transferring from a quarter-system; and to consider written appeals from students who have failed to meet certain area requirements.
DEGREE REQUIREMENTS

APPLICATION

Students who expect to complete graduation degree requirements in 1972 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.

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

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

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

GRADUATE STUDIES

Information concerning graduate programs is presented in a separate catalog which may be obtained from the Graduate Admissions Office. Graduate programs are available at George Mason College in biology, elementary and secondary education, history, and mathematics.

SUMMER SESSION

Information concerning George Mason College Summer Session is presented in a separate catalog which is available in March from the Admissions Office.
GEORGE MASON COLLEGE

Bachelor of Arts

Semester-Hours

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, religion (6)
      Music 113, 114, 115, 116, 351, College Chorus, Concert Band
      and art studio courses may not be used to meet this requirement.
   d. Foreign language requirement (0-12)
      Depending upon placement, each student must present twelve
      semester-hours in a foreign language.

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 394: Masterpieces of Japanese Literature
      English 395: Masterpieces of Chinese Literature
   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 211: Religions of the Near East
      Religion 212: Religions of the Orient
   The courses meeting this requirement may also be presented
   in partial fulfillment of requirements stated in Sections I and II.
DEGREE REQUIREMENTS

V. Major .................................................. 30-42
See appropriate departmental sections of the catalog for required credits. At least twelve hours of work in the major field at the 300 and 400 level must be completed at George Mason College.

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. Fulfillment of the requirements for the major as listed under the respective departments: Behavioral Sciences, Biology, Business Administration, Chemistry, Education, Mathematics, Physics, and Social Sciences. For information concerning the interdisciplinary program in Law Enforcement see page 128.

II. At least twelve semester-hours of course work outside the area of specialization as follows:

(a) If the degree is in the behavioral sciences, twelve hours outside those fields.
(b) If the degree is in the natural sciences or mathematics, twelve hours outside those fields.
(c) If the degree is in the social sciences or business administration, twelve hours outside those fields.

III. At least twelve semester-hours of English.

IV. Total minimum semester-hours, 120.

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 not presented toward the first degree.
GEORGE MASON COLLEGE

Engineering

(Two Years Only)

George Mason College offers a two-year pre-engineering program designed to meet most of the basic requirements of the first two years of the standard engineering curriculum. A student completing this course of study may expect to complete the Bachelor of Science degree in any of the specialized areas offered at the University of Virginia in three additional years. Although the engineering programs at the University of Virginia are formally designed for completion in four years, it is not unusual for a resident student there to spend five years completing the degree. See page 120 for course descriptions.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester-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>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester-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>
</tbody>
</table>

Total: 34

Total: 29

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.
DEGREE REQUIREMENTS

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. Requirements may be met within the programs leading to the Bachelor of Arts degree.
COURSES OF INSTRUCTION

Introduction
Department of Behavioral Sciences
Department of Biology
Department of Business Administration
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
Interdisciplinary Programs

LAW ENFORCEMENT
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 necessary.

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 through 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 through 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].
Department of Behavioral Sciences

Professor Jordan (Chairman)
Associate Professors Lodge, Mandes
Assistant Professors Cohen, McKeithen, Peng, Stanley, Tavani, White
Instructors MacConkey, Ryburn
Lecturers Buffardi, Hartley, Mellinger, Picciano

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 221, 322, 401, and 413 must be presented. Students are strongly advised to elect relevant courses in biology, philosophy, sociology, and anthropology in addition to these requirements for the major.

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
COURSES OF INSTRUCTION

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.

205: THINKING AND PROBLEM SOLVING. [3]
Prerequisite: Psychology 101-102 or permission of instructor. The major psychological theories on thinking and problem solving will be studied and the experimental and empirical evidence adduced in their favor will be critically reviewed.

211: HISTORY OF PSYCHOLOGY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. A survey of man’s attempts to understand himself systematically from the classical age until the beginning of the present century. Special emphasis will be placed on the models of man, be they explicit or implicit, underlying this thinking and the extent by which they changed or did not change with time, their empirical justification, and the extent by which they can be called “scientific”.

221: STATISTICS FOR THE BEHAVIORAL SCIENCES. [4]
Prerequisite: Psychology 101-102 or permission of instructor. An introduction to the fundamentals of applied statistics as used in the behavioral sciences to include descriptive statistics, inferential statistics, correlation-regression, analysis of variance, factor analysis, non-parametric statistics, and practical experience with calculators in applying statistical analysis to actual problems of the behavioral sciences. *Three class hours and two laboratory hours.* (This course is the same as Sociology 221; both may not be taken for credit.)

301: ABNORMAL PSYCHOLOGY. [3]
Prerequisite: Psychology 202 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.

303: COGNITIVE DEVELOPMENT. [3]
Prerequisite: Psychology 203 or permission of instructor. The theories of cognitive development of Jean Piaget are discussed, as well as the views of Bruner, Sigel and Hunt. Experimental support of these theories will be considered. Several approaches to programs of enrichment, particularly with the culturally disadvantaged, will be examined.

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 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.

322: EXPERIMENTAL PSYCHOLOGY. [4]
Prerequisite: Psychology 221 or permission of instructor. An 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, four 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.
COURSES OF INSTRUCTION

403: SEMINAR IN INFANT DEVELOPMENT. [3]
Prerequisite: Psychology 203 or permission of instructor. Examination of current issues, research methods and clinical evaluation techniques in the field of infant development. Genetic, constitutional and environmental influences will be considered with special attention to prenatal and perinatal factors, role of stimulation, and the interaction of biochemical, physiological, behavioral and experiential variables. Areas of development covered to include sensorimotor, perceptual-cognitive, language, motivation and personality.

404: THE EXCEPTIONAL CHILD. [3]
Prerequisite: Psychology 203 or permission of instructor. Consideration of problems associated with developmental deviation in infancy through adolescence. Special emphasis will be given to behavioral characteristics and educational needs found in mental retardation, minimal brain dysfunction, special learning disabilities and other handicapping conditions. The special needs and problems of the gifted child, the disturbed child and the delinquent child will also be examined.

410: COMPARATIVE PSYCHOLOGY. [4]
Prerequisites: Psychology 307, 322. Principles and methods in the study of animal psychology. Topics will include genetics, evolution, early experience, species-specific behavior, consummatory behavior, and learning. Laboratory experiments will provide students with semi-independent research experience with these topics. Three class hours, three laboratory hours.

413: THEORIES AND SYSTEMS OF PSYCHOLOGY. [3]
Prerequisite: Twelve hours in upper division psychology courses or permission of the instructor. The various systems and theories that have played a role in twentieth century psychology will be studied: association theory, structuralism, the many forms of behaviorism, the organismic psychologies, theories of personality and abnormal behavior, and the contemporary anti-theoretical theories.

415: HUMAN FACTORS ENGINEERING. [3]
Prerequisite: Psychology 315 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.

416: THE CLINICAL METHOD IN PSYCHOLOGY. [3]
Prerequisite: Psychology 302 or permission of instructor. The historical and empirical foundations of clinical psychology will be studied with emphasis being placed on how clinical practice was shaped by theories, research, and social organization. In conclusion the major forms of current clinical practice will be reviewed.
431: PERCEPTION. [3]
Prerequisite: Psychology 322 or permission of 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 221, 303 and 483. Students are advised to elect relevant courses
in anthropology, biology, philosophy and psychology in addition to these
requirements for the major.

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.

B.S. in Social Welfare

To receive a B.S. degree with a major in social welfare a minimum of
forty-five semester-hours in sociology is required including the following
courses: Sociology 101, 102, 252, 363, 451, 452. In addition students
must present six semester-hours in English composition; six semester-hours
in English literature; six semester-hours in philosophy/art/music; six
semester-hours in economics or history, eight semester-hours in one of the
sciences; and three course hours in mathematics.
COURSES OF INSTRUCTION

Courses

101: INTRODUCTORY SOCIOLOGY. [3]
An introduction to basic sociological concepts. Aspects of human behavior; 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.

203: THE SOCIOLOGY OF SMALL GROUPS. [3]
Prerequisite: Sociology 101 or permission of instructor. The study of the characteristics, structure, and processes of small group dynamics; theories and models of group analysis; techniques of observation and research on variables in small groups that produce problems in our national life.

221: STATISTICS FOR THE BEHAVIORAL SCIENCES. [4]
Prerequisite: Sociology 101 or permission of instructor. An introduction to the fundamentals of applied statistics as used in the behavioral sciences to include descriptive statistics, inferential statistics, correlation-regression, analysis of variance, factor analysis, non-parametric statistics, and practical experience with calculators in applying statistical analysis to actual problems of the behavioral sciences. Three class hours and two laboratory hours. (This course is the same as Psychology 221; both may not be taken for credit.)

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 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 102 or permission of instructor. An inquiry into the types, causes, treatment and prevention of delinquent behavior.

303:  SOCIOLOGICAL RESEARCH METHODOLOGY. [3]
Prerequisite: Sociology 221 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.

306:  DEMOGRAPHIC ANALYSIS. [3]
Prerequisite: Sociology 101 or permission of instructor. The influence of population structure, distribution, and change in vital rates on ecological, social, economic, and political problems of human society.

307:  SOCIOLOGY OF COLLECTIVE BEHAVIOR. [3]
Prerequisite: Sociology 102 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 307 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.

310:  SOCIAL SURVEYS AND ATTITUDE AND OPINION MEASUREMENT. [3]
Prerequisite: Sociology 221 or permission of instructor. Survey research methods and techniques used in collecting and analyzing social data and the techniques and methods for measuring social attitudes and opinions will be studied.

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.
COURSES OF INSTRUCTION

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.

402: SOCIOLOGY OF PUNISHMENT AND CORRECTIONS. [3]  
Prerequisite: Sociology 301 or 302. Historical overview and theory of justice; analysis of the treatment of the adult and juvenile offender. Includes discussion of the origin and development of punishment, correction, rehabilitation, residential treatment, and the halfway house. The roles of legal and social agencies in the treatment process are compared and contrasted.

411: SOCIOLOGICAL THEORY. [3]  
Prerequisite: Sociology 303. 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.

413: SEMINAR IN SOCIAL ISSUES. [3]  
Prerequisites: Senior standing, Sociology 411, and any other additional six hours of sociology credit. The Seminar in Social Issues provides an opportunity for advanced students of sociology to apply the theoretical perspectives and methodological skills, learned in prerequisite offerings, to contemporary relevant issues.

451: PRACTICUM. [6]  
Prerequisites: Sociology 363 and concomitant enrollment in Sociology 452. Open only to seniors who are majors in Social Work. A field experience course designed to offer an educationally relevant work experience for advanced majors in social welfare. Participation and practical supervised field work, seminar discussions, and periodic faculty-agency consultations.

452: SOCIAL WORK AS A PROFESSION. [3]  
Prerequisite: This course is open only to those students who are concomitantly enrolled in Sociology 451. A seminar course which will try to survey the Social Welfare profession as a whole through the discussion of problems to be found in individual cases which will be chosen from the literature and from actual experience of the students in the practicum.
480: SEMINAR IN SOCIOLOGY. [2]
Prerequisite: Enrollment is restricted to senior majors in sociology. This course may be taken for credit only once by a student. Topics of contemporary interest in sociology 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 SOCIOLOGY. [3]
Prerequisite: Eighteen hours of sociology which includes Sociology 303 and 483, a B average in sociology, senior standing, and a research proposal approved in advance of enrollment by the instructor and chairman of the department. Investigation of a sociological problem according to individual interest with stress on research.

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.

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.
COURSES OF INSTRUCTION

Department of Biology

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

REQUIREMENTS FOR THE MAJOR

B.A. Degree.—In addition to the general requirements, 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.—In addition to the general requirements, a B.S. degree with a major in biology requires a minimum of forty-four semester-hours in biology. 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. No mathematics or foreign language is required.

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 prospective science 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. 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] (Alternates annually with 342)
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
COURSES OF INSTRUCTION

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] (Alternates annually with 244)
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.*

445: **ECOLOGY.** [4]
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; 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. *Two lecture hours, six 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.*
COURSES OF INSTRUCTION

Department of Business Administration

Assistant Professors Dominick, Gibbons, Tongren
Acting Assistant Professor Sampson
Lecturers Goldberg, Marthinuss

BUSINESS ADMINISTRATION

A student at George Mason College may earn either a Bachelor of Arts degree in Business and Public Administration or a Bachelor of Science degree with a major in Business Administration.

REQUIREMENTS FOR THE MAJOR

Bachelor of Arts degree: The first of the two degree programs in business administration culminates in a Bachelor of Arts degree and requires a minimum of 120 hours of course work. 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 348 (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, 311, 434, and such other courses as they may choose 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 348 (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 thirty-six 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.

Bachelor of Science degree: The second of the two major programs in business administration offered by George Mason College culminates in a Bachelor of Science degree and requires a minimum of 122 hours of course work. Students who have previously enrolled in another degree program in business administration must be enrolled in this degree program for at least one semester and earn at least three semester hours of credit in order to receive the degree of Bachelor of Science with a major in Business Administration.

Specific requirements for the degree of Bachelor of Science with a major in Business Administration are as follows:

BUSINESS CORE COURSES

The following Business core requirements meet the standard set by the American Association of Collegiate Schools of Business:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>6</td>
</tr>
<tr>
<td>Economic Principles</td>
<td>6</td>
</tr>
<tr>
<td>Statistics</td>
<td>6</td>
</tr>
<tr>
<td>Business Law</td>
<td>6</td>
</tr>
<tr>
<td>Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Finance</td>
<td>3</td>
</tr>
<tr>
<td>Business Communication</td>
<td>3</td>
</tr>
<tr>
<td>Organization and Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL BUSINESS CORE**

36 hours

BUSINESS ELECTIVE COURSES

In addition, students must take twelve additional semester-hours in the major field. Of those, six semester-hours must be in either accounting, management, personnel administration, data processing, or finance.

**TOTAL BUSINESS ELECTIVES**

12 hours

GRAND TOTAL, ALL BUSINESS ADMINISTRATION HOURS . . . . 48

GENERAL EDUCATION CORE COURSES

The following general courses are required:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101 and 102</td>
<td>6</td>
</tr>
<tr>
<td>English 203, 204 or 205, 206 or</td>
<td>6</td>
</tr>
<tr>
<td>251, 252</td>
<td></td>
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</tbody>
</table>

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COURSES OF INSTRUCTION

1. Speech ......................................................... 3 hours
2. Psychology or Sociology ............................... 6 hours
Mathematics ...................................................... 6 hours
Laboratory Science ............................................. 8 hours
Humanities ......................................................... 6 hours
Government 241 and three additional
hours of history or government ....................... 6 hours
3. Economics ....................................................... 6 hours
TOTAL GENERAL CORE ....................................... 53 hours
OPEN ELECTIVES .................................................. 21 hours
TOTAL GENERAL EDUCATION CORE AND
OPEN ELECTIVES .................................................. 74 hours
TOTAL HOURS FOR DEGREE ................................. 122

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.

1. Any speech course may be presented to fill this requirement, but Speech
251: Introduction to Group Conference is particularly recommended for business
students.

2. Psychology is the subject recommended as most pertinent to business
practices.

3. In addition to the six hours of Principles of Economics in the Business Core.
Must include Econ. 301 or 202.
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 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, policymaking 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
COURSES OF INSTRUCTION

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. Not offered, 1971-72.

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.

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.

433: ADVANCED FINANCIAL MANAGEMENT. [3]
Prerequisites: Economics 101, 102, Business Administration 101-102, and 341 or permission of the instructor. Completion of Business Administration 342 is recommended but not required. Functions and objectives of financial management; problems of internal financial analysis; management and control of current assets, capital budgeting, short and intermediate term financing; forecasting and planning the capital structure of the firm; leasing; dividend policy; valuation of the form. Extensive use of business cases.

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.
COURSES OF INSTRUCTION

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.—In addition to general degree requirements, 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.—Minimum course requirements are:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester-Hours</th>
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</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>44</td>
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<tr>
<td>English</td>
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<td>Foreign Language</td>
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<td>Mathematics</td>
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<tr>
<td>Physics</td>
<td>14</td>
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<tr>
<td>Electives</td>
<td>16</td>
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<tr>
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<td>120</td>
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</tbody>
</table>

Students are required to complete the equivalent of Language 251 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.
103-104: CHEMICAL SCIENCE IN A MODERN SOCIETY. [4-4]
A terminal course in chemistry for non-science majors. A survey of the
principles and application of chemistry with emphasis on pertinent topics
such as environmental pollution, medicine, synthetics, earth and marine
science. 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. Where possible, work is assigned according to
a student's major interest. 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.
COURSES OF INSTRUCTION

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.
Department of Education

Professors Snyder (Chairman), Joy
Associate Professors Ararowicz, Eaves, Martin
Assistant Professors Aebischer, Austin, Carroll, Coleman, Linn, Moretz, Richardson, Schuchman, Spuhler
Acting Assistant Professor Gray
Lecturers Evans, Major
Instructor Bloecker

REQUIREMENTS FOR PROSPECTIVE TEACHERS

The Teacher Education Program is designed to develop teachers who are qualified academically and professionally, and who possess the personal attributes needed for success in the teaching profession.

The Teacher Education Program serves the following categories of students:

Undergraduate students who are working toward the Bachelor of Science Degree in Education and the Virginia Collegiate Professional Certificate with endorsement at the elementary school level.

Undergraduate students who are working toward the Bachelor of Arts or Bachelor of Science Degree and the Virginia Collegiate Professional Certificate with endorsement at the secondary school level.

Students who have earned Baccalaureate degrees and who are working toward the Virginia Collegiate Professional Certificate with endorsement at the elementary or secondary school level.

Students who have earned Baccalaureate degrees and who are working toward the Master of Education Degree and the Collegiate Professional Certificate with endorsement at the elementary or secondary level. (See the Graduate Catalog for detailed information.)

ADMISSION TO THE TEACHER EDUCATION PROGRAM

Admission to the Teacher Education Program is on a selective basis. Undergraduates and students holding baccalaureate degrees must be admitted to the program prior to enrollment in 400-level Education courses. Formal application for admission to the Teacher Education Program must be made by November 1 or March 15 of the semester preceding that in which the student intends to enroll in 400-level Education courses.
COURSES OF INSTRUCTION

Admission to the Teacher Education Program is granted by the Teacher Education Committee. To be considered for admission to the Teacher Education Program, undergraduate students must have a 2.000 grade point average in all courses attempted at George Mason College. Students holding baccalaureate degrees must have an average of 2.000 in all course work attempted in earning their degree.

In granting admission to the Teacher Education Program, the Teacher Education Committee will give consideration to emotional balance, personality, leadership ability, ability in oral and written expression, moral character, and freedom from disqualifying physical and health conditions. Virginia “Certification Regulations for Teachers,” stipulate in part as follows:

I. Applicant must be a citizen of the United States, must be at least eighteen 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.

A review of qualifications needed to be a teacher is conducted throughout the program. In addition, the academic record and other qualifications of each student are reviewed prior to approval for student teaching. For approval for student teaching, an overall grade point average of 2.100 is required. For students holding baccalaureate degrees, the grade point average for student teaching is computed on all course work attempted in earning the baccalaureate degree, plus all course work attempted at George Mason College. A minimal grade of “C” in Student Teaching is required to secure the recommendation of the college for certification.

Students holding baccalaureate degrees who are working toward the Virginia Collegiate Professional Certificate will be required to meet the subject matter requirements specified by Virginia “Certification Regulations for Teachers.” The professional requirements are those prescribed for undergraduate students. Students in this category must agree to complete the entire sequence of Education courses, including student teaching.

TEACHING IN SECONDARY SCHOOLS

The program for teaching in secondary schools, usually grades 7 through 12, requires completion of a program of 131 semester-hours.* Completion of this program and the program for the Bachelor of Arts Degree will usually require attendance at one or more summer sessions.

*For students enrolled in a Bachelor of Arts program who enter in September, 1971 and after.
GEORGE MASON COLLEGE

One semester of the senior year will normally be devoted to a professional semester during which the student will complete Education 416, 421 and 435.

The following constitutes the program for the Virginia Collegiate Professional Certificate with endorsement at the secondary level. The courses marked with an asterisk are not credited toward the 120 semester-hours required for the Bachelor of Arts Degree.

General Requirements:

| Humanities | 12 |
| English 101, 102 | 6 |
| English, Foreign Language, Speech, Fine Arts, Music, or Philosophy | 6 |
| Social Science | 12 |
| History 121 or 122 | 3 |
| Anthropology, Economics, Fine Arts, Geography, History, Political Science, Psychology, or Sociology | 9 |
| Laboratory Science and Mathematics | 12 |
| (At least one course in each area.) | |
| Electives | 8 |
| (From the areas listed above.) | |
| Education | 21 |
| Education 301, 319, 416, 421 and 435* | 12 |
| Health and Physical Education | 5 |
| Health 210 | 3 |
| *Physical Education (from 100 series) | 2 |

Virginia Endorsement Requirements | 12-45
(See Certification Regulations for details. The following totals include semester-hours in the general requirements.)

| Biology | 24 |
| Business Education | 45 |
| Chemistry | 24 |
| Dramatics | 12 |
| Earth Science | 24 |
| Economics | 18 |
| English | 30 |
| English and Dramatics | 36 |
| English & Journalism | 36 |
| English & Speech | 36 |
| Foreign Language | 30 |
| General Science | 24 |
| Geography | 18 |
| Government | 18 |
| History | 24 |
| History and Social Science | 42 |
| Journalism | 12 |
| Mathematics | 27 |
| Physics | 20 |
| Psychology | 24 |
| Sociology | 18 |
| Speech | 12 |

Total 131
COURSES OF INSTRUCTION

TEACHING IN ELEMENTARY SCHOOLS

The program for teaching in the elementary schools, usually grades Kindergarten through 7, requires completion of a program of 126 semester-hours. To complete this program in four years may require attendance at one or more summer sessions. One semester of the senior year will be a professional semester during which Education 407, 419, and 431, or Education 408, 420 and 432 will be completed. The student will need to decide prior to enrollment in Education 313, or 314, whether he desires to be certified at the Kindergarten – Grade 3 level, or at the Grade 4 – Grade 7 level.

The following is the program leading to the awarding of the Bachelor of Science Degree in Elementary Education and the Virginia Collegiate Professional Certificate with endorsement at the Kindergarten – Grade 3 level, or the Grade 4 – Grade 7 level.

<table>
<thead>
<tr>
<th>Semester-Hours</th>
<th>Art 101</th>
<th>Economics 101</th>
<th>Education 33</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Kindergarten through Grade 3:</td>
<td>201, 202, 301, 313, 401</td>
<td></td>
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<tr>
<td></td>
<td>or</td>
<td>405, 407, 419, and 431</td>
<td></td>
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<tr>
<td></td>
<td>Grades 4 through 7:</td>
<td>201, 202, 301, 314, 402</td>
<td></td>
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<tr>
<td></td>
<td>or</td>
<td>406, 408, 420, and 432</td>
<td></td>
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<tr>
<td>English 12</td>
<td>English 101, 102</td>
<td>(6)</td>
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<tr>
<td></td>
<td>English 203, 204</td>
<td>(6)</td>
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<td></td>
<td>or</td>
<td>English 205, 206</td>
<td>(6)</td>
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<td></td>
<td>or</td>
<td>English 251, 252</td>
<td>(6)</td>
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<tr>
<td>Foreign Language 0.8***</td>
<td>Foreign Language 151-152, 153 or 251</td>
<td>0.8***</td>
<td></td>
</tr>
<tr>
<td>Geography 3</td>
<td>Geography 3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Health 3</td>
<td>Health 210 and 301</td>
<td>6</td>
<td></td>
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<tr>
<td>History 4</td>
<td>History 101, 121, and 122</td>
<td>9</td>
<td></td>
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<tr>
<td>Mathematics 4</td>
<td>Mathematics 371, 372</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Music 3</td>
<td>Music 351</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Physical Education 0.2</td>
<td>Physical Education (from 100 series)</td>
<td>0.2</td>
<td></td>
</tr>
</tbody>
</table>
Natural Science .................................................. 8
Biology 103-104 or *113-114 ................................. (8)
or
Chemistry *101-102 or 103-104 ............................. (8)
or
Physics 101-102 .................................................... (8)

Speech 151 ......................................................... 3

**Concentration .................................................... 12-27
Electives ............................................................... 0-15

Total 126

COURSES

EDUCATION

The courses listed constitute the undergraduate program. Courses in the 200 and 300 series are open to all undergraduates. The 400 series of courses are open only to those students who have been admitted to the Teacher Education Program. Courses in the 400 series may be taken for graduate credit by students admitted to a graduate program. Students may not receive credit for more than one of the comparable courses relating to Kindergarten and Primary grades and the Intermediate grades. For example, students taking Education 313 may not receive credit for Education 314.

201, 202: HUMAN GROWTH AND DEVELOPMENT. [3, 3]
Prerequisite: None. Designed to acquaint prospective teachers with the area of human growth and development with emphasis on childhood and adolescence. Included are studies of intelligence, physical, social, and emotional development emphasizing the underlying causes of behavior. The behavioral characteristics of different age levels, individual differences, and methods of adjustment are considered. Field experiences in public schools are included.

*Should be taken only by students with a concentration in these subjects.

**Concentration Subject Areas: A student may elect a concentration in any subject area in which the College offers a major. In addition the following interdisciplinary concentrations may be elected: Social Studies (History, Government, Sociology, Economics, Geography, Anthropology); Behavioral Science (Psychology and Sociology); General Science (Biology, Chemistry, Physics, Astronomy).

The total hours required for the concentration are twenty-seven. Included in the twenty-seven hours are the courses falling within the subject area which are included in the basic program. Students are encouraged to utilize a portion of the elective hours available to extend their concentrations.

***The actual amount of course work required, if any, will depend upon placement. See page 40 for information on the Foreign Language Placement Examinations.
COURSES OF INSTRUCTION

301: FOUNDATIONS OF EDUCATION. [3]
Pre requisite: None. The historical and philosophical foundations of education are surveyed with emphasis on the development of American education and those persons influencing it. A survey of the area of teaching as a profession to include current issues and problems in education is made. The relationships between educational objectives, the structure of the educational system, and curricula are considered. Field experiences in public schools are included.

313: EDUCATIONAL PSYCHOLOGY FOR THE TEACHER IN KINDERGARTEN AND PRIMARY GRADES. [3]
Pre requisite: Education 201, 202. Designed to acquaint the prospective teacher with the principles of psychology and their application to teaching at the kindergarten and primary grade levels. The various aspects of the learning process, individual differences, and adjustment are considered. Emphasis is placed on evaluation of pupil progress, development of personality and attitudes, and motivation. Field experiences in public schools are included.

314: EDUCATIONAL PSYCHOLOGY FOR THE TEACHER IN THE INTERMEDIATE GRADES. [3]
Pre requisite: Education 201, 202. Designed to acquaint the prospective teacher with the principles of psychology and their application to teaching at the intermediate grade level. The various aspects of the learning process, individual differences, and adjustment are considered. Emphasis is placed on evaluation of pupil progress, development of personality and attitudes, and motivation. Field experiences in the public schools are included.

319: EDUCATIONAL PSYCHOLOGY FOR THE TEACHER IN THE SECONDARY SCHOOL. [3]
Pre requisite or corequisite: Education 301. Designed to acquaint the prospective teacher at the secondary level with the application of psychology to teaching. The areas covered include concepts of intelligence, learning theory, evaluation of student progress, the development of personality, social and emotional behavior, attitudes, and motivation of the student. Field experiences in public schools are included.

401: TEACHING METHODS IN THE KINDERGARTEN AND PRIMARY GRADES. [3]
Pre requisite: Education 301; corequisite: Education 313. The organization and conduct of learning experiences provided children in the kindergarten and primary grades are considered. Emphasis is placed on a balance of activities during the school day, developing an understanding of the approaches used in teaching, unit and lesson planning. Major emphasis is placed on the teaching of art and the social studies. Field experiences in public schools are included.

402: TEACHING METHODS IN THE INTERMEDIATE GRADES. [3]
Pre requisite: Education 301; corequisite: Education 314. Deals with the organization and direction of learning experiences provided for children in the intermediate grades. Emphasis is placed on a balancing of activities
during the school day, developing an understanding of the approaches used in teaching, and unit and lesson planning. Major emphasis is placed on the teaching of art and the social studies. Field experiences in public schools are included.

405: CHILDREN'S LITERATURE FOR THE KINDERGARTEN AND PRIMARY GRADES. [3]  
Prerequisite or corequisite: Education 401. Surveys children's literature suitable for the kindergarten and primary grades. The historical development, types, representative authors and illustrators are studied. Critical analyses of selected works are made. The habits and interests of children in the kindergarten and primary grades are studied. The techniques of story telling and the presentation of literature to children are studied and practiced. Field experiences in the public schools are included.

406: CHILDREN'S LITERATURE FOR THE INTERMEDIATE GRADES. [3]  
Prerequisite or corequisite: Education 402. Surveys children's literature with emphasis on literature suitable for the intermediate grades. The historical development, types, representative authors and illustrators are studied. Critical analyses of selected works are made. The habits and interests of children in the intermediate grades are studied. The teaching of story telling and presentation of literature to children are studied and practiced. Field experiences in the public schools are included.

*407: TEACHING OF READING AND LANGUAGE ARTS IN THE KINDERGARTEN AND PRIMARY GRADES. [3]  
Prerequisite or corequisite: Education 405. A study of the theory, methods, practices, and materials involved in the teaching of communications skills with emphasis on reading for comprehension, writing skills, speech, grammar, vocabulary development, and use of reference materials. Field experiences in the public schools are included.

*408: TEACHING OF READING AND LANGUAGE ARTS IN THE INTERMEDIATE GRADES. [3]  
Prerequisite or corequisite: Education 406. A study of the theory, methods, practices, and materials involved in the teaching of communications skills with emphasis on reading for comprehension, writing skills, speech, grammar, vocabulary development, and use of reference materials. Field experiences in the public schools are included.

*416: TEACHING METHODS IN THE SECONDARY SCHOOLS. [3]  
Prerequisite: Education 319. A study of the theories, practices, and methods involved in teaching. Emphasis is placed on the development of course, unit, and lesson plan objectives; development of units, evaluation of student progress, classroom management, providing for individual differences, and techniques used in motivation. Field experiences in the public schools are included.
COURSES OF INSTRUCTION

*419: TEACHING OF SCIENCE IN THE KINDERGARTEN AND PRIMARY GRADES. [3]
Prerequisite: Education 405. A study of the theory, methods, practices, and materials involved. Emphasis is placed on the relationship of the child to the environment leading to the development of basic generalizations in science. Field experiences in the public schools are included.

*420: TEACHING OF SCIENCE IN THE INTERMEDIATE GRADERS. [3]
Prerequisite: Education 406. A study of the theories, practices, methods, and materials involved. Emphasis is placed on teaching broad concepts in the areas of earth-space science, chemistry, and physical science. Field experiences in the public schools are included.

*421: INSTRUCTIONAL MEDIA. [3]
Prerequisite: Education 313, 314, or 319. Corequisite: Education 401, 402, or 416. A study of the theory, methods, and practices involved in the use of instructional media in the teaching learning situation with emphasis on the secondary school level. Specific training in the use of audio-visual devices and equipment is included. Particular attention is given to the selection, evaluation, and utilization of media in relation to the particular instruction involved. Field experiences in the public schools are included.

*431: STUDENT TEACHING IN THE KINDERGARTEN AND PRIMARY GRADES. [9]

*432: STUDENT TEACHING IN THE INTERMEDIATE GRADERS. [9]

†*435: STUDENT TEACHING IN THE SECONDARY SCHOOL. [9]
Prerequisites: Senior standing, an overall grade point average of 2.100, Education 407 and 419, or Education 408 and 420, or Education 416 and 421. A full time program of ten weeks’ duration in a public school involving the study of pupils, observation of teaching, preparation of instructional materials, teaching, and participation in other school activities.

HEALTH

210: PERSONAL AND COMMUNITY HEALTH. [3]
Prerequisite: None. Designed to provide the prospective teacher with the information needed to function effectively in a public school. Emphasis is placed on health problems involving mental illness, alcohol, tobacco,

*Taught as a block of 15 semester-hours during the professional semester.
†Not counted within the 120 hours required for the B.A. Degree for students entering September, 1971 and after.
drugs, venereal disease, communicable diseases, and accidents. Attention is also given to medical care, physical fitness, nutrition, weight control, and community and world health problems.

301: TEACHING HEALTH AND PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL. [3]
Prerequisites: Health 210 and two Physical Education courses in the 100 series. Designed to provide the prospective teacher with information concerning the theory, methods, and materials involved in the teaching of physical education, health, safety, and recreation in the elementary school. Emphasis is placed on the application of methods and materials to classroom and playground situations. Field experiences in the public schools are included.

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. Cannot be counted within the 120 hours for the B.A. 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, (A student fee is collected)
COURSES OF INSTRUCTION

Department of English

Professors Jackson (Chairman), S. Brown
Associate Professors Garson, Karlson
Assistant Professors L. Brown, Kelley, Walls
Acting Assistant Professors Churchman, Sakurai
Instructors Claiborne, Derr, Gallehr, Gibson, Lowderbaugh, Palmieri, Vanness
Lecturers Duffner, Houck, Vawter

ENGLISH

REQUIREMENTS FOR THE MAJOR

Students who will complete graduation requirements by January, 1973, may elect either of the following sets of requirements. Students who become juniors on or after September 1971, and who will graduate with the major in English in June, 1973, or thereafter must take the set of requirements listed under II.

I. In addition to the area requirements for BA degrees, students majoring in English who will complete their degree requirements before February, 1973, must complete thirty hours of advanced English 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, 461, or 467.

II. In addition to the area requirements for BA degrees, students who will graduate with an English major in June, 1973, or thereafter must complete thirty hours of course work beyond sophomore English, including the following distribution:

1. One three-semester hour course from the following: English 391, General Linguistics; English 392, History of the English Language; and English 341, Chaucer.
2. One three-semester hour course from English 351, 352, Shakespeare.
3. Two courses in English literature prior to 1800 A.D. These comprise the courses in this catalog numbered from English 341, Chaucer, through 358, The Age of Johnson. One of these two courses should be in the literature of a period; these are English 342, 345, 354, 357, and 358. (English 341, Chaucer, should not be used for both this requirement and requirement 1 above.)
4. One three-semester hour course in American literature; these are English 381, 382, 387, 388, 389, and may include English 440, Selected Studies, when it is organized on an American literature subject.
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 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. English 206 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.

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. Particularly recommended for prospective English majors.

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.

342: LITERATURE OF THE MIDDLE AGES. [3]
A study of selected English narrative, dramatic, and homiletic literature written between 1300 and 1500 A.D., exclusive of Chaucer.

345: ENGLISH LITERATURE OF THE SIXTEENTH CENTURY. [3]
COURSES OF INSTRUCTION

346: SPENSER. [3]
A study of a major portion of the poetry of Edmund Spenser, with central emphasis upon *The Faerie Queene*. Not offered in 1971-72.

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

English poetry and prose from 1603 to 1688, excluding Milton.

355: MILTON. [3]
Study of Milton's major works, with emphasis on *Paradise Lost*.

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 OF THE NINETEENTH CENTURY. [3, 3]
A study of the major poetry of the nineteenth century. The first semester deals with the Romantic poets, the second with Victorian.

363: ENGLISH PROSE OF THE NINETEENTH CENTURY. [3]
A study of major prose writing of the nineteenth century, by such authors as Coleridge, Carlyle, Arnold, Ruskin, and Newman.

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

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.

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.

*377, 378: SELECTED CONTINENTAL NOVELS IN TRANSLATION. [3, 3]
Study of selected European novels in translation. English 377 concerns the continental novel from the eighteenth century to the end of the nineteenth century, and includes works of such writers as Balzac, Gogol, Stendhal, Turgenev, Flaubert, Dostoevsky, Tolstoy, and Galdos. English 378 deals with the continental novel from the beginning of the twentieth century to the present and includes such writers as Proust, Mann, Gide, Silone, Kafka, Sartre, Cela, Moravia, and Grass. Attention will be given to the influence of this literature on the novel in English.

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.

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

387: DEVELOPMENT OF THE AMERICAN NOVEL TO 1914. [3]
A study of major American novels of the pre-World War I period with emphasis on the work of Brown, Cooper, Hawthorne, Melville, Twain, Howells, James, Crane, Dreiser, Norris and others.

388: DEVELOPMENT OF THE AMERICAN NOVEL SINCE 1914. [3]
A study of the American novel from the end of World War II to the present; the course includes the work of such authors as Fitzgerald, Hemingway, Faulkner, Dos Passos, Wolfe, Bellow, and Nabokov.

389: PLAYS OF TWENTIETH CENTURY AMERICAN DRAMATISTS. [3]
An intensive study of American drama of the twentieth century, with special attention to the plays of Eugene O'Neill, Thornton Wilder, Arthur Miller, Tennessee Williams, and Edward Albee.

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

*Offered in cooperation with the Department of Foreign Languages.
COURSES OF INSTRUCTION

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.

394: JAPANESE LITERATURE IN TRANSLATION. [3]
Study of selected literary masterpieces in translation from ancient and modern Japan, including a court romance (The Tale of Genji), essays (The Pillow Book), classical poetry, noh and Bunraku plays, haiku poetry, and modern fiction. Review of the genres and traditions represented by those masterpieces. (Course credit accepted for the BA non-Western proviso but not in the English major.)

395: CHINESE LITERATURE IN TRANSLATION. [3]
Study of selected masterpieces of Chinese literature in translation, including the Confucian Classics, ancient songs and poems, T'ang and Sung poetry and prose, Yuan and Ming plays, novels and short stories. (Course credit accepted for the BA non-Western proviso but not in the English major.)

430: TRAGEDY. [3]
This course traces the tragic mode as it manifests itself in various forms from Hebraic times to the present. Included are readings from the Old Testament; classical, Elizabethan, neoclassical, and modern drama; tragic poems and tragic novels. Such major authors as Homer, Aeschylus, Sophocles, Euripides, Shakespeare, Racine, Ibsen, Dostoevski, Tolstoi, and Kafka will be studied.

431: COMEDY. [3]
This course explores the comic vision as it manifests itself in major literary works of a variety of periods and types: classical and neo-classical comic drama; non-classical and modern forms of comic drama; and comic poems and comic novels. Such major comic authors as Aristophanes, Jonson, Shakespeare, Moliere, Fielding, Dickens, Barth, and Beckett will be studied.

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: INTRODUCTION TO CREATIVE WRITING. [3]
Introduction to the theory and practice of writing fiction, poetry, and drama.
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.

467: EXPOSITORY WRITING. [3]
Theory and practice of advanced expository writing; practice in analyzing and writing essays, articles, and other expository forms. (Not a remedial course.)

JOURNALISM COURSES

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

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.
FOREIGN LANGUAGES (FRENCH, GERMAN, SPANISH)

Advances in global communications have so compressed time and space that we have achieved instant awareness of events anywhere in our world. The reactions of people are immediate; misinterpretation can precipitate instant catastrophe. For a nation to follow a prudent yet rational course, its people must be educated as positive, active, productive citizens of a community of nations. If we are to understand the past and the present of even our own nation, the mastery of at least one language other than our native tongue is essential; it is also a means of achieving human understanding and of placing the human experience in proper context. As a distinguished scholar eloquently put it: "One language alone is a barrier to understanding . . . Two languages are the beginning of a bridge . . . the beginning of mutual understanding among men who are one in their humanity."

FRENCH

REQUIREMENTS FOR THE MAJOR

The degree program in French prepares students for teaching French at the secondary level, for graduate study in French, or for positions in government or private enterprise that require a knowledge of French.

Twenty-four hours of work in advanced French courses are required for the major. French 351 and French 353, 354 are required courses for majors. To major in French, a student should have at least a "C" average in his previous French courses.

COURSES

*151-152: ELEMENTARY FRENCH. [4-4]
Intensive introduction to French, including basic grammar, reading, aural training and the development of oral skills. Four classroom hours and two laboratory hours per week.
An intensive review of the grammar, syntax and pronunciation taught in French 151-152; designed for students who have had two years of secondary school French but whose proficiency does not qualify them for French 251. Students may not receive credit for both French 151-152 and 153. Four classroom hours, two laboratory hours per week.

*201-202: INTERMEDIATE FRENCH. [3, 3]
Prerequisite: French 101-102 or equivalent. Advanced reading and grammatical study; oral and written exercises or reports. The class is conducted in French. Three classroom hours, one laboratory hour per week.

*251: INTERMEDIATE FRENCH. [4]
Prerequisite: French 151-152 or equivalent. Intensive review of basic grammar; introduction to more difficult grammatical constructions and patterns of usage; continued development of reading proficiency and of aural and oral skills. Four classroom hours, two laboratory hours per week.

252 to 255: Application of the language skills acquired in French 151-152, 251 or in French 101-102, 201-202, in one or more of the following subject areas, which may be studied singly, concurrently, or in any order.

252: FRENCH CONVERSATION. [3]
Prerequisite: French 202 or 251 or equivalent. Development of oral proficiency in French. Twelve selected topics that touch on various practical aspects of everyday life.

253: FRENCH CULTURE. [3]
Prerequisite: French 202 or 251 or equivalent. An introduction to the background of French life and culture.

254: READING AND TRANSLATION OF FRENCH SCIENTIFIC TEXTS. [3]
Prerequisite: French 202 or 251 or equivalent. Reading and translation of selected texts in the various sciences; introduction of basic scientific vocabulary.

255: FRENCH LITERARY MASTERPIECES. [3]
Prerequisite: French 202 or 251 or equivalent. Reading and discussion of selected works of French literature.

351: ADVANCED FRENCH GRAMMAR. [3]
Prerequisite: French 251 or permission of instructor. Required in the major program. A study of the phonology, syntax and morphology of modern standard French.

*Students who began their study of French in the course series 101-102, 201-202 are not eligible to take French 151-152, 251 for credit. Students enrolled in French 151-152, 153 or 251 are likewise ineligible to take French 201-202 for credit.
COURSES OF INSTRUCTION

353, 354: ADVANCED CONVERSATION AND COMPOSITION. [3, 3]
Prerequisite: Fifteen semester-hours of French or permission of the instructor. Required in the major program. Written and oral reports and conversation on political, literary and artistic topics and current events.

360: LINGUISTICS OF THE FRENCH LANGUAGE. [3]
Prerequisite: Fifteen semester-hours of French or permission of the instructor. A course in the linguistics of the French language, including phonemics and morphology.

375, 376: FRENCH CULTURE AND CIVILIZATION. [3, 3]
Prerequisite: French 253 or permission of the instructor. Offered in 1972-73 and alternate years. A study of the outstanding contributions of France to world civilization from medieval times to the present, with emphasis on the development of her ideas, arts, sciences, and institutions.

377, 378: SURVEY OF FRENCH LITERATURE. [3, 3]
Prerequisite: French 255 or permission of the instructor. A survey of French literature from the Chanson de Roland to the present, with close readings of works of representative major writers through the centuries.

411, 412: FRENCH LITERATURE OF THE TWENTIETH CENTURY. [3, 3]
Prerequisite: French 255 or permission of the instructor. Principal literary trends and genres in French literature since 1900. French 411 studies such authors as Proust, Gide, Claudel and Valery. French 412 deals with Existentialism, the "Nouveau Roman," and the "Nouveau Theatre." Representative authors such as Sartre, Camus, Robbe-Grillet, Butor, Ionesco and Beckett are studied.

415, 416: FRENCH LITERATURE OF THE NINETEENTH CENTURY. [3, 3]
Prerequisite: French 255 or permission of the instructor. The study of the Classical period. Reading and class discussion of the principal masterpieces of the century, with emphasis on Descartes, Pascal, Corneille, Racine,
Moliere and LaFontaine. Other significant works are studied in the light of their relation to literary, ideological and social currents in France from the Age of the Baroque to the Querelle des Anciens et des Modernes.

427: FRENCH LITERATURE OF THE RENAISSANCE. [3]
Prerequisite: French 255 or permission of the instructor. Renaissance and Humanism in France in the sixteenth century. A survey in historical sequence of the major trends of French prose and poetry from Marot to the Pleiade, from Rabelais to Montaigne.

433: FRENCH STYLISTICS. [3]
Prerequisite: Fifteen semester-hours of French or permission of the instructor. Methods and terminology for critical analysis of French style; reading of appropriate texts and writing of exercises.

434: PROSEMINAR. [3]
Prerequisite: three years of college French or equivalent. Intended mainly for French majors. Conducted as a discussion group with emphasis on selected topics and individual problems.

GERMAN

REQUIREMENTS FOR THE MAJOR

The major in German prepares students for teaching careers on the secondary school level, for graduate study in Germanic languages and literature, and for research and professional work in government and private enterprise.

Completion of twenty-seven hours of work in German courses beyond the 254-level is required for the major. It is recommended that the major also complete one or both of the following related courses: English 391 and History 314. To major in German, a student should have at least a "C" average in previous German courses.

COURSES

*151-152: ELEMENTARY GERMAN. [4-4]
Intensive introduction to German, including basic grammar, reading, aural training and the development of oral skills. Four classroom hours, two laboratory hours per week.

*Students who began their study of German in the course series 101-102, 201-202 are not eligible to take German 151-152, 251 for credit. Students enrolled in German 151-152, 153 or 251 are likewise ineligible to take German 201-202 for credit.
COURSES OF INSTRUCTION

An intensive review of the grammar, syntax and pronunciation taught in German 151-152; designed for students who have had two years of secondary school German but whose level of proficiency does not qualify them for German 251. *Four classroom hours, two laboratory hours per week. Students may not receive credit for both 151-152 and 153.*

*201-202: INTERMEDIATE GERMAN. [3, 3]
Prerequisite: German 101-102 or equivalent. Training in the speaking, understanding, reading and writing of German. *The course is conducted in German. Three classroom hours, one laboratory hour per week.*

*251: INTERMEDIATE GERMAN. [4]
Prerequisite: German 151-152 or equivalent. Intensive review of basic grammar; introduction to more difficult grammatical constructions and patterns of usage; continued development of reading proficiency and of aural and oral skills. *Four classroom hours, two laboratory hours per week.*

252 to 254: Application of the language skills acquired in German 151-152 and 251, or in German 101-102, 201-202, in one or more of the following subject areas, which may be studied singly, concurrently, or in any order.

252: GERMAN COMPOSITION AND CONVERSATION. [3]
Prerequisite: German 202 or 251 or equivalent. Development of oral proficiency and skill in writing through conversation and composition on topics related to the practical aspects of everyday life.

253: SCIENTIFIC GERMAN. [3]
Prerequisite: German 202 or 251 or equivalent. The student becomes acquainted with specific terminology and structure of scientific texts through supervised readings and translation of materials from the scientific fields.

254: READINGS IN GERMAN LITERATURE. [3]
Prerequisite: German 202 or 251 or equivalent. Selected works of major German writers of the modern era are read and discussed. *Prerequisite for German courses on the 300 and 400 level.*

311: ADVANCED GERMAN GRAMMAR AND STYLISTICS. [3]
Prerequisite: German 254 or permission of instructor. Instruction in the analysis and use of complex language structures. Writing exercises, translations into German, classroom discussions, and study of basic reference works. Primarily for majors.

*Students who began their study of German in the course series 101-102, 201-202 are not eligible to take German 151-152, 251 for credit. Students enrolled in German 151-152, 153 or 251 are likewise ineligible to take German 201-202 for credit.*
314: ADVANCED CONVERSATION AND COMPOSITION. [3]
Prerequisite: German 254 or permission of instructor. Development of verbal skills and proficiency in composition beyond the 252-level; frequent oral and written reports based on topical and cultural materials.

351, 352: GERMAN LITERATURE FROM ITS BEGINNINGS TO 1750. [3, 3]
Prerequisite: German 254 or permission of instructor. German 351: early German literature from the heroic saga to the decline of the Middle Ages, with emphasis on the courtly epics and the lyrics of Walther von der Vogelweide. German 352: literature of the Renaissance and Reformation, Baroque and the advent of the Enlightenment.

361, 362: GERMAN LITERATURE OF THE ROMANTIC ERA. [3, 3]
Prerequisite: German 254 or permission of instructor. German 361 consists of works by Jean Paul, Kleist, the theoretical and literary writings of the earlier Romantic poets Schlegel, Tieck, Novalis, and of the philosophers Schelling and Schleiermacher. German 362 studies the younger Romantic writers Arnim, Brentano, Eichendorff and E.T.A. Hoffmann, as well as their collections of folk songs and tales.

Prerequisite: German 254 or permission of instructor. Study of the literature of Enlightenment, Storm and Stress, and Classicism. Emphasis in the first semester is on works of Lessing, Herder and the younger Goethe; the second semester is a study of Goethe's later works and the major writings of Schiller and Holderlin.

409: GERMAN LITERATURE FROM THE END OF ROMANTICISM TO 1880. [3]
Prerequisite: German 254 or permission of instructor. Study of the literature of Young Germany, Biedermeier and Poetic Realism; the prose, drama, and lyric poetry of Heine, Hebbel, Buchner, Stifter, Storm, Keller, Meyer, and Fontane will be read and discussed.

411, 412: GERMAN LITERATURE SINCE 1880. [3, 3]
Prerequisite: German 254 or permission of instructor. A study of the major literary movements since 1880. German 411 examines Naturalism, Impressionism, the works of the fin de siecle writers, and Expressionism. German 412 presents the literary trends since 1925, including the work of Thomas Mann, Brecht, Hesse, Boll, Celan, Eich, Grass, Frisch and Durrenmatt.

420: LINGUISTICS OF MODERN GERMAN. [3]
Prerequisite: German 254 or permission of instructor. A study of the German language based on the principles of descriptive linguistics. The course includes a brief outline of the development of modern German and an analysis of its phonology, morphology and syntax.
COURSES OF INSTRUCTION

425, 426: INDEPENDENT STUDY. [3, 3]
Prerequisite: three years of college German or the equivalent, and permission of the department chairman. Research and analysis of an individually selected problem in literary criticism or linguistics.

SPANISH

REQUIREMENTS FOR THE MAJOR

The degree program in Spanish prepares the major to teach Spanish on the secondary school level, to undertake graduate study in Spanish, or to qualify for positions in government and industry that require a knowledge of Spanish.

Twenty-four hours of work in Spanish courses beyond the 257-level are required for the Spanish major. The student who majors in Spanish will also find it useful to complete some or all of these related courses: English 203, 204 (Western Literary Masterpieces), English 391 (General Linguistics), and History 361, 362 (Latin-American History).

COURSES

*151-152: ELEMENTARY SPANISH. [4-4]
Intensive introduction to Spanish, including basic grammar, reading, aural training and the development of oral skills. Four classroom hours, two laboratory hours per week.

An intensive review of the grammar, syntax and pronunciation taught in Spanish 151-152; designed for students who have had two years of secondary school Spanish but whose proficiency does not qualify them for Spanish 251. Students may not receive credit for both Spanish 151-152 and 153. Four classroom hours, two laboratory hours per week.

*201-202: INTERMEDIATE SPANISH. [3, 3]
Prerequisite: Spanish 101-102 or equivalent. Advanced reading and grammatical study; oral and written work. The course is conducted in Spanish. Three classroom hours, one laboratory hour per week.

*Students who began their study of Spanish in the course series 101-102, 201-202 are not eligible to take Spanish 151-152, 251 for credit. Students who are enrolled in Spanish 151-152, 153 or 251 are likewise ineligible to take Spanish 201-202 for credit.
251: INTERMEDIATE SPANISH. [4]
Pre requisite: Spanish 151-152 or equivalent. Intensive review of basic grammar; introduction to more difficult grammatical constructions and patterns of usage; continued development of reading proficiency and of aural and oral skills. Four classroom hours, two laboratory hours per week.

252 to 257: Application of the language skills acquired in Spanish 151-152 and 251, in one or more of the following areas, which may be studied concurrently or in any order.

252: SPANISH CONVERSATION AND COMPOSITION. [3]
Pre requisite: Spanish 251 or equivalent. Development of the student’s ability to express himself orally on topics of current interest and everyday situations; compositions will provide practice in more difficult forms of expression.

253: COMMERCIAL SPANISH. [3]
Pre requisite: Spanish 251 or equivalent. Introduction to the terminology and usage of Spanish in business transactions; practice in the composition of business reports and letters is stressed.

254: SPANISH CIVILIZATION. [3]
Pre requisite: Spanish 251 or equivalent. An introduction to the civilization and culture of Spain; in addition to reading, the course will include slides, music, and field trips, to increase the student’s direct appreciation of Spain’s distinctive heritage.

255: LATIN AMERICAN CIVILIZATION. [3]
Pre requisite: Spanish 251 or equivalent. Introductory study of Latin American civilization, with emphasis upon its cultural, historical, and artistic aspects. Films, music, and field trips will supplement the readings.

256: READINGS IN SPANISH LITERATURE. [3]
Pre requisite: Spanish 251 or equivalent. Masterpieces of Spanish literature providing insight into the essential ideas and culture of Spain; the readings will include one novel, one drama, and a carefully selected sampling of short stories and poetry.

257: READINGS IN LATIN AMERICAN LITERATURE. [3]
Pre requisite: Spanish 251 or equivalent. An introduction to the literature of Hispanic America through the reading and discussion of short stories, a novel, a play, and selected poetry of its major literary figures.

*Student who began their study of Spanish in the course series 101-102, 201-202 are not eligible to take Spanish 151-152, 251 for credit. Students who are enrolled in Spanish 151-152, 153 or 251 are likewise ineligible to take Spanish 201-202 for credit.
COURSES OF INSTRUCTION

300: SPANISH CIVILIZATION AND CULTURE. [3]
Prerequisite: fifteen semester-hours of Spanish or permission of instructor.
A survey of Spanish culture and civilization from the Pre-Roman era to the twentieth century. Primarily for Spanish majors.

303, 304: ADVANCED CONVERSATION AND COMPOSITION. [3, 3]
Prerequisite: Spanish 252 or permission of the instructor. These courses are structured to emphasize development of the skills required both to speak and to write Spanish correctly. *They are prerequisites for most Spanish courses at more advanced levels.*

305, 306: SURVEY OF SPANISH LITERATURE. [3, 3]
Prerequisite: Spanish 303, 304 or permission of the instructor. A survey of Spanish peninsular literature. During the first semester important authors and major movements from medieval times through the eighteenth century will be studied; the second semester will include authors and movements of the nineteenth and twentieth centuries. Collateral readings and reports on some authors are required. These courses are taught entirely in Spanish.

307, 308: LATIN AMERICAN LITERATURE. [3, 3]
Prerequisite: Spanish 303, 304 or permission of the instructor. 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 studies the literature of Spanish American countries from colonial times to the twentieth century; Spanish 308 is a study of twentieth century literature. Collateral readings. Recommended for Spanish majors.

309, 310: LITERATURE OF THE GOLDEN AGE. [3, 3]
Prerequisite: Spanish 303, 304 or permission of the instructor. 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 303, 304 or permission of the instructor. A study of the major works of nineteenth-century Spanish literature. The first semester covers works of such authors as Duque de Rivas, Zorrilla, Alarcon and Galdos; the second semester studies the works of such figures as Becquer, Clarin, Blasco Ibanez and Ruben Dario.

320: LINGUISTICS OF THE SPANISH LANGUAGE. [3]
Prerequisites: 303, 304 and 305, 306, or permission of the instructor. A general introduction to linguistics; a brief study of the evolution of Spanish from its Latin origins to contemporary speech, and a brief review of morphology, syntax and phonology, with emphasis on the latter. This course is invaluable to Spanish majors planning to teach Spanish or contemplating graduate work.
400: STYLISTICS. [3]  
Prerequisites: Spanish 303, 304 and at least twelve hours in the literature of the Spanish language. A study of genres and literary styles; application of the material studied, through creative and translational written exercises. Recommended for senior majors in Spanish.

403, 404: CONTEMPORARY SPANISH LITERATURE. [3, 3]  
Prerequisites: 303, 304 and 305, 306, or permission of the instructor. The first semester examines in depth the main authors of the "generation of '98" including: Unamuno, Valle-Inclan, Baroja, Azorin, Benevente, Antonio Machado and Garcia Lorca. The second semester includes an analysis of contemporary post-Civil War authors: Cela, Laforet, Delibes, Buero Vallejo, Sastre, Sanchez Ferlosio, Jimenez, Guillen Aleixandre, Salinas. The various genres are studied in the works of these leading writers.

410: CERVANTES. [3]  
Prerequisite: Spanish 303, 304 or permission of the instructor. A study of the major works of Cervantes, with emphasis on Don Quixote.

415: READINGS IN MEDIEVAL SPANISH LITERATURE. [3]  
Prerequisite: Spanish 305, 306 or permission of the instructor. A study of the major works of medieval Spanish literature, especially of El Cid, and the works of Berceo, Ruiz, Manuel, Santillana, Manrique, and Rojas.
COURSES OF INSTRUCTION

Department of History

Professor Cassara (Chairman)
Associate Professors Boothe, Pugh, Spence
Assistant Professors Gleissner, Hawkes, Pacheco, Rinehart, Soder, Spindler
Instructors Cohen, M., Jensen
Lecturers Deshmukh, Nwulia

REQUIREMENTS FOR THE MAJOR

Candidates for the Bachelor of Arts degree in history shall present, in addition to the general requirements, 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 parentheses 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.

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.

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 EUROPE. [3]
Prerequisite: Six hours of history. European history from the fourth to the
twelfth centuries: The decay of Roman authority and the emergence of
Germanic power in the West; the role of the Church in early medieval
society, the patristic tradition, the growth of the Papacy; the influence of
Islam and the Byzantine Empire; the Carolingians and the “New Europe”;
development of feudalism; Empire and Papacy. Emphasis on papal and
imperial ideologies.

303 (202): MEDIEVAL EUROPE. [3]
Prerequisite: Six hours of history. The High Middle Ages through the
fifteenth century: The “Gothic World” of the twelfth and thirteenth
centuries; the Crusades and the expansion of Europe; the triumph of the
Papacy; growth of the secular state; doubt, plague, war, and the
breakdown of the medieval consensus. Emphasis on cultural, social, and
intellectual history and the development of political institutions.

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. Europe in the late fifteenth and sixteenth centuries; humanist
reformation, Protestant Reformation, and Counter-Reformation.

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 En-
lightenment; the French Revolution and Napoleonic Wars.
COURSES OF INSTRUCTION

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.

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.

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 exploration, settlement, and expansion of the frontier, with emphasis on its influence upon cultural and political institutions.

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.

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 is traced from the aftermath of war through the South's twentieth century struggle to rejoin the mainstream of American life.

*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.
COURSES OF INSTRUCTION

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 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.

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

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.

412 (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.

433 (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.

438: SPANISH BORDERLANDS. [3]
Prerequisite: Six hours of history. The United States frontier from the Carolinas to the Pacific considered as a part of the Kingdom of New Spain, and later, the United Mexican States, 1500-1848: expeditions of discovery, exploration, and settlement; political, cultural, and social developments; foreign encroachment; incorporation of the area into the United States; and origins of the present Mexican-American minority.
GEO RGE MASON COLLEGE

443 (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.

453 (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.

491, 492 (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.

493, 494 (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.

497 (480-A): AMERICAN HISTORIOGRAPHY. [3]
Prerequisite: Open only to senior majors in history with consent of the instructor. An examination of the methods used in the study and writing of history. Research techniques. Reading of the works of major American historians from the Colonial Period to the present.

498 (480-B): EUROPEAN HISTORIOGRAPHY. [3]
Prerequisite: Open only to senior majors in history with consent of the instructor. An examination of the methods used in the study and writing of history. Research techniques. Reading of the works of major European historians from Herodotus to the present.
COURSES OF INSTRUCTION

Department of Humanities

Professor McFarlane (Chairman)
Associate Professor Kreilkamp
Assistant Professors Burt, McDaniel, McDermott
Acting Assistant Professors Kanyan, Yance
Instructor Pielke
Lecturers Holman, Wehrly

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, sculp-
ture 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

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

221, 222: HISTORY OF ANCIENT ART. [3, 3]
A broad, generic course in the aesthetics and art history of ancient cul-
tures.

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.
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, 281, 282: COLLEGE CHORUS. [1, 1, 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. Regardless of class standing (freshman, sophomore, etc.), students who are registering for College Chorus for the first time should register for Music 181 and then continue with the numerical sequence.

183, 184, 283, 284: CONCERT BAND. [1, 1, 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.
COURSES OF INSTRUCTION

Regardless of class standing (freshman, sophomore, etc.), students who are registering for Concert Band for the first time should register for Music 183 and then continue with the numerical sequence.

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: One course in music 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.

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 emphasis 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.

351: MUSIC FOR THE ELEMENTARY TEACHER. [3]
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 additional hour per week is required in performance practice. For majors in elementary education only.

PHILOSOPHY

REQUIREMENTS FOR THE MAJOR

The major program in philosophy encourages students to develop a broad understanding of the basic areas of philosophic inquiry and provides opportunities for in-depth study in areas or topics of special interest. While course offerings are listed below in numerical sequence, they may be
identified with the areas and topics by the second digit of the course numbers as follows:

-1-: Philosophy of Man  
-3-: History of Philosophy  
-5-: Theories of Value and Action  
-7-: Theories of Being and Knowledge  
-9-: Seminars and Independent Study

In addition to the general requirements for the Bachelor of Arts degree, philosophy majors must complete at least thirty additional semester-hours in philosophy including: History of Western Philosophy (both semesters), the Seminar in Philosophical Problems or the Seminar in Philosophical Figures, Independent Study, and six additional hours at the 300 or 400 level; at least three semester-hours must fall within each of the first four areas listed above.

COURSES

111: 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.

151: ETHICS. [3]  
A consideration of some classical theories of the good life. Reading and discussion of such writers as Plato, Aristotle, the Stoics and Epicureans, Kant, Mill.

171: THEORY OF KNOWLEDGE. [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.

173: LOGIC. [3]  
A study of basic concepts and techniques of deduction, emphasizing the modern treatment of such topics as quantification and rules of inference, 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.

213: PHILOSOPHY OF RELIGION. [3]  
*Prerequisite: Sophomore standing or higher, or consent 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.
COURSES OF INSTRUCTION

231, 232: HISTORY OF PHILOSOPHY. [3, 3]
Prerequisite: Sophomore standing or higher, or consent 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.

252: MODERN ETHICS. [3]
Prerequisite: Sophomore standing or higher, or consent 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.

271: METAPHYSICS. [3]
Prerequisite: Sophomore standing or higher, or consent 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. Selected readings from three or four leading figures such as Plato, Aristotle, Aquinas, Spinoza, Leibniz, Kant, Bradley, Heidegger, and others.

331: PHILOSOPHY IN AMERICA. [3]
Prerequisite: Junior or senior standing and six hours in philosophy, or consent 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.

332: RECENT AND CONTEMPORARY PHILOSOPHY. [3]
Prerequisite: Junior or senior standing and six hours in philosophy, or consent 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.

Prerequisite: Junior or senior standing and six hours in philosophy, or consent of the instructor. An intensive examination of contemporary political thought from the perspective of ethical theory. The course will be offered in alternate semesters in the following sequence: democracy, communism, third world political thought and radical political thought. Need not be taken in sequence.
413: ALTERNATIVE FUTURES FOR SCIENCE AND SOCIETY. [3]
Prerequisite: Junior or senior standing and nine hours in philosophy, or consent of the instructor. Philosophical evaluations of human rationality and freedom as applied to the need for more humane roles and institutional settings for science and technology in society. Examination of the views of leading contemporary thinkers on the modes, potential and limits of intellectual and political activity in such areas as international security, population, economic development, the environment, urban life, political institutions, religion, and the arts. Readings from such writers as Bronowski, de Jouvenel, Ellul, Marcuse, Mumford, Polanyi, Toulmin, Weizsaecker and others.

491, 492: PHILOSOPHICAL FIGURES. [3, 3]
Prerequisite: Junior or senior standing and nine hours in philosophy, or consent of the instructor. A close study of one or several writings of a leading philosopher. Texts to vary annually.

493, 494: PHILOSOPHICAL PROBLEMS. [3]
Prerequisite: Junior or senior standing and nine hours in philosophy, or consent of the instructor. A close study of some important problem (e.g., freedom of the will), with discussion of some leading traditional and modern writings on the subject. Topic to vary annually.

495, 496: INDEPENDENT STUDY. [3, 3]
Prerequisite: Open only to philosophy majors with junior or senior standing and fifteen hours of philosophy. Individual study of some philosophical writer or movement. Student to produce at least one major piece of written work during the semester.

RELIGION COURSES

Courses are listed below in numerical sequence; areas of study may be identified by the second digit of the course numbers as follows:

-1-: History of Religions
-3-: Religion and Culture
-5-: Religious Literature
-7-: Religious Thought

211: RELIGIONS OF THE NEAR EAST. [3]

212: RELIGIONS OF THE ORIENT. [3]
COURSES OF INSTRUCTION

231: 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.

236: RELIGION AND MODERN MAN. [3]
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.

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.

271: 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.

332: AMERICAN RELIGION IN SOCIAL THOUGHT AND ACTION. [3]
Prerequisite: Rel. 231 or permission of the instructor. An in-depth study of the churches' involvement in social thought and action. Areas of analysis include: church, state, and freedom; the churches and the nation's wars; slavery, segregation, and racial problems; nineteenth century moral crusades; social sources of denominationalism and church unity; views of radical sects and cults; the economic order and the "social gospel"; social issues in modern America.

376: CONTEMPORARY RELIGIOUS TRENDS. [3]
Prerequisite: Junior standing and six hours of religion or philosophy, or consent of the instructor. 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

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

REQUIREMENTS FOR THE MAJOR

B.A. Program:

In addition to general degree requirements the following courses are required: Mathematics 115, 116, 215, 216, plus eighteen more hours of which at least fifteen must be numbered above 300.

B.S. Program:

In addition to general degree requirements the following courses are required: Mathematics 115, 116, 215, 216, 315, 316, 321, 322, plus eighteen more hours of which at least twelve must be numbered above 300.

The science requirement may be fulfilled by any one of the following four options:

- Physics 113, 114, 213, 214, 215, 216;
- Chemistry: four semesters excluding Chemistry 103 and 104;
- Biology: four semesters excluding Biology 103 and 104;
- Chemistry 101-102 and Biology 113-114.

The Department of Mathematics strongly recommends that a two-year proficiency in either French, German or Russian be demonstrated by each student pursuing a Bachelor of Science in Mathematics.

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

FOR STUDENTS WHO DO NOT MAJOR IN MATHEMATICS

Designed for the students in the social and behavioral sciences are Mathematics 103-104, and 261. We advise every liberal arts major to take either Mathematics 106 or the sequence 103-104, and possibly 261. Students in the natural sciences who plan to do graduate work are advised to add to their basic calculus sequence from Mathematics 266, 313, 314, 351, 352, 411, 443, 444, 446, 447.
COURSES OF INSTRUCTION

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.

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.

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. Euclidean spaces, Fourier and orthogonal series, differential equations, boundary-value problems, Laplace transform, special functions.
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.

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. This course is designed for those in the program for elementary teachers. Concepts and theories underlying elementary school mathematics.

382: INTRODUCTION TO STOCHASTIC PROCESSES. [3]
Prerequisite: Mathematics 315 or Mathematics 313 and Mathematics 351. General notion of stochastic processes, finite and infinite Markov chains, discrete and continuous Markov processes, stationary processes, random walk problems, birth and death processes, waiting line and servicing problems, Brownian motion.

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.

443, 444: APPLIED MATHEMATICS. [3, 3]
Prerequisite: Mathematics 314 or 316. Complex variables, integral equations and transform, calculus of variations, special functions.

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

Professors Johnston (*Chairman*), Mielczarek
Assistant Professors Lankford, Papaconstantopoulos
Instructor Day
Lecturers Clark, Dowe, Fedel, Flinn, Lieberman

REQUIREMENTS FOR THE MAJOR

In addition to the general degree requirements, the B.S. in Physics requires the completion of forty-four semester-hours in the major and twenty-three 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.

In addition to the general degree requirements, the B.A. in Physics requires the completion of thirty-one semester-hours in the major and seventeen 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.*

*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.*
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.

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.
COURSES OF INSTRUCTION

305: ELECTROMAGNETIC THEORY. [3]

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 or permission of instructor. 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.
GEORGE MASON COLLEGE

ASTRONOMY COURSES

103: ASTRONOMY. [3]
No prerequisite: A descriptive introduction to the principles and topics of modern astronomy. The solar system, the galaxies, quasars, and the nature of space radiation are discussed. The contemporary theories of the origin of the universe including the pertinent ideas of the general theory of relativity are also considered. Three lecture hours.

ENGINEERING COURSES

(Two Years Only)

For a description of the Engineering Program, see Chapter V, Page 50.

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: 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, equation of state, analysis of thermodynamic processes.
COURSES OF INSTRUCTION

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 column, 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 hours lecture.
Department of Social Sciences

Professor Early (Chairman)
Associate Professor Phillips
Assistant Professors Bloch, Godbold, Khoury, Solomon
Instructors Aruca, Deligiannis, Gutowski, Holmes

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 forty-two, but the surplus hours must be listed as elective hours on the degree application form. Business Administration 309 (Labor Management Relations) may be counted within the required hours of economics.

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
COURSES OF INSTRUCTION

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 examination 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. Not offered, 1971-72.

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. Not offered, 1971-72.

412: QUANTITATIVE ECONOMIC ANALYSIS. [3]  
Prerequisite: Economics 201, 202, Business Administration 261-262. An examination of modern statistical techniques in estimating economic relations.

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.
COURSES OF INSTRUCTION

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.

206: CLIMATOLOGY. [3]
World distribution of climatic elements; methods of arranging climatic data; climatic classifications and world distributions of climatic types; general climatic circulation, changes, and fluctuations.

GOVERNMENT AND POLITICS

REQUIREMENTS FOR THE MAJOR

To be eligible to graduate in June or August, 1972, with a B.A. in Government and Politics a student must be able to satisfy all requirements for that degree prescribed by George Mason College. In addition, he must present at least thirty semester credit hours of work in his major subject, including at least two courses described below which carry five semester credit hours each.

To be eligible to graduate after August, 1972, with a B.A. in Government and Politics a student must be able to satisfy all requirements prescribed for that degree by George Mason College. In addition, he must complete seven courses carrying five semester-hours of credit each. If he presents up to six semester-hours of credit from 100 or 200 level work taken as a freshman or sophomore at this institution, he need complete only six courses carrying five semester-hours of credit.

The work of transfer students will be evaluated to determine its relationship to completion of the requirements for this degree. However, a transfer student must complete at least three courses presented by George Mason College in his major subject at the 300 or 400 level (see residence requirements, p. 43) and may not transfer more than six credit hours of freshman or sophomore level work toward the fulfillment of his major requirements.

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.

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.

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.

Prerequisite: Completion of Government 103, junior or senior standing, or permission of instructor. 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.

330: POLITICAL VALUES. [5]
Prerequisite: Junior or senior standing. An examination of political values concerning the nature of man, the origin and nature of the state, bases of political obligation, problems of consent, concepts of power, and sources of authority as presented in the works of major writers.

341: ADMINISTRATIVE MANAGEMENT AND BEHAVIOR. [5]
Prerequisite: Government 241, junior or senior standing, or permission of instructor. An examination and study of American governmental administration. Particular attention will be paid to organizational theory and behavior, administrative responsibility, management systems, roles of the bureaucracy, and relationships between the individual and the organization.
COURSES OF INSTRUCTION

Prerequisite: Junior or senior standing. Theories of international relations; organization; law; pacific settlement of disputes; crisis and conflict resolution.

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.

480: INTERNSHIP. [2-5]
Open to authorized senior majors only. Contact department prior to enrollment. Internships are approved work-study programs established by the department with specific employers. Credit will be fixed to suit each individual situation as determined by the department.
Interdisciplinary Programs

Law Enforcement

Law Enforcement Committee

Dr. Stephen T. Early, Jr., Chairman
Dr. Nehemiah Jordan
Captain Clyde E. Embrey (Northern Virginia Police Academy)
Dr. Edgar J. Fredericks (Northern Virginia Community College)

Requirements for the Major

This interinstitutional and interdisciplinary program culminates in the conferral of the Bachelor of Science with a major in Law Enforcement and requires a minimum of 128 hours of course work.* Participants should familiarize themselves fully with the requirements for this degree and with the academic regulations of George Mason College. The program is designed principally for students who have completed their professional training courses at Northern Virginia Community College and who desire to earn a baccalaureate degree. However, under appropriate circumstances it may be open to other students as well. George Mason College offers no professional training courses in police science, police administration, or similar fields. Such work must be taken in an accredited program at another institution and transferred to George Mason College. The transfer of courses and credits to this program will be determined on an individual basis.

The quantitative and distributional requirements which must be fulfilled by candidates for the Bachelor of Science with a major in Law Enforcement are summarized below. Freshman English or an equivalent course in the specified amount must be completed prior to entry into the program at George Mason College. Except for the specified hours of professional training and freshman English, all requirements may be completed at George Mason College.

Inquiries concerning this program should be directed to Dr. Stephen T. Early, Jr., Chairman, Law Enforcement Program Committee, George Mason College, Fairfax, Virginia, 22030.
## Minimum Quantitative and Distributional Requirements by Subject

### Semester Hours

#### I. General

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
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<tr>
<td>a. Freshman English</td>
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<tr>
<td>b. Literature</td>
<td>6</td>
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<tr>
<td>c. Art, music and/or philosophy</td>
<td>6</td>
</tr>
<tr>
<td>d. History and/or economics</td>
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</tr>
<tr>
<td>e. Laboratory science</td>
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Total: 32

#### II. Major requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Police science</td>
<td>22-33</td>
</tr>
<tr>
<td>b. Directly related</td>
<td></td>
</tr>
<tr>
<td>1. Psychology</td>
<td>12</td>
</tr>
<tr>
<td>To include courses in general, social, and abnormal psychology.</td>
<td></td>
</tr>
<tr>
<td>2. Sociology</td>
<td>18</td>
</tr>
<tr>
<td>To include courses in introductory, problems, delinquency, criminology, urban, and race relations and minorities.</td>
<td></td>
</tr>
<tr>
<td>3. Government</td>
<td>16</td>
</tr>
<tr>
<td>To include courses in American national, state and local government, and, at George Mason College, Govt. 301, 330.</td>
<td></td>
</tr>
<tr>
<td>c. Electives</td>
<td>28-17</td>
</tr>
</tbody>
</table>

Total: 128
DEGREES, HONORS, AWARDS

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

Degrees Conferred June, 1970

BACHELOR OF ARTS

Major in Biology

Gail Christie Chase, With distinction
Susan Elaine Coleman, with distinction
Jose Roberto Fuentes
Katherine Ongalo Gelberg
Christine Evelyn Ottersberg
Karen Lee Powell
Mickey R. Pruitt

Major in Business and Public Administration

Mazhar Ferruh Agrali
Donna Jean Armstrong, with distinction
Robert Edward Baker
George Allan Berry
John Lawrence Budzisz
Richard Eugene Callaway
Arthur Linwood Carter, Jr.
Robert Leon Dicks
Charles Paul Gisvold
Paul C. Gugel
Gentry Clarence Harrington
James Nathan Hawkins
James Joseph Heston, Jr.
Thomas R. Jones
William Garber Kamarek
Kermit Monroe Kidwell
William H. Laws
Patrick F. McIntyre
John D. McVicker
John Theodore Michel
Donald L. Myers, with distinction
William Conrad Over
Roberta Kleha Overman, with highest distinction
Charles Arthur Pardee, Jr.
Steven Joergen Petersen
Roy A. Schell
Catherine Vera Semenuk, with distinction
Scott Emerson Sheffield
Steven Shinderman
David Bailey Shumate
Major in Chemistry

David J. Hanson
Gary H. Johnston
Marilyn Jo Offermann

Major in Economics

John F. Carlin, Jr.
Charles Philip Mendenhall
Robert C. Sorgen

Major in English

Michael J. Baker, Jr.
Sharon Lynn Beamer
Lois J. Benson
Brian Edward Betters, with distinction
Gail Ann Bohan
Mondania Marie Bullock
Patricia Marie Cain
Kenneth Wesley Carter, with distinction
Carol Lee Davis, with distinction
Kathy Irene Deister
Barbara Hayes Dreibus
Jeanne Bovard Duncan, with distinction
Mark Lynn Foster, with distinction
John William Guest
Arlene H. Gutnick
Sharon Ann Heffelfinger
Kathryn Elizabeth Hoban
Craig Wayne Hobbs
Durette Matchett Huck
Carol Lois Hudson
DEGREES, HONORS, AWARDS

Elizabeth Ann Kessler
Ava Elizabeth LaMee, with distinction
John Irvin Lawson, Jr.
Shirley Ann Lynskey
Patricia Emily McLean
Deborah Allen McNair
Jose Antonio Melendez
Elizabeth Sherman Moore
Arlene K. Mosemann
Nancy Montgomery Prose
James D. Quindlen
Patricia McNulty Ralph
Anne Kimbell Relph, with distinction
Maria K. Rozsa
Joelle Ann Rubenstein, with distinction
Dana Luise Smith
Ruth Carlton Smith
Mary Harned Stock, with distinction
Patricia J. Teagle
Phyllis V. Thorne, with highest distinction
Mary Lou Velebir
Robin Browning Woods

Major in French

Philip L. Howard, with distinction
Irene Brooks Kabler
Katharine Andree Kinney
Judith E. Ladd
Dee Ann Orr, with distinction
Claudia L. Toy

Major in History

William Joseph Amshey
Jeffrey M. Andrews
Prudence M. Balestrieri
Susan Diane Berzak
Brian E. Betters, with distinction
John Thomas Boeck, Jr.
Ellen Kildahl Bolton
Thomas Dennis Carey
James Constantine Craten
Douglas Carter Crouch
Gerard Joseph D’Allessandro
Betsy May Davis
Kathryn E. Enderle
Lillian Darlene Eno
John Carl Enos
James Patrick Feeney, Jr., with high distinction
Joseph Robert Fox
Kurt Cuyle Fritzinger
Robert William Fruit
Paul Ronald Garces
Terry Ann Gassaway
John B. Grabill, Jr.
Wayne A. Grandy
Steven Kenneth Grossman, with distinction
Enver Bill Hoff, Jr., with distinction
Lance Orville Hoxie
Donald Lee Hudson
Paul Franklin Jeffries, Jr.
Jirair Krikor Khatcheressian
Donald E. Kidwell
Susan Elizabeth King
William Cooper Menth
Martha Jeanne Rogers
Jeremy Rose
Karen Estelle Schnetzler, with distinction
Katherine Elizabeth Simpson
Judy Ann Slocum
Mary M. Spaulding
James Robert Stimpfle
Christine Abel Troxell
Gerald Robert Virgilio
Stephen Condict Walke, Jr.
Mary Geraldine White
James P. Witeck

Major in Mathematics

Mary Pamela Batchellor
Daniel Vernon Beard
Charles Philip Brinkman, with distinction
Larry F. Burnette, with distinction
Nelson Eugene Daus
John D. D'Elia
Lorraine Marie French
Terry Lee Freisz, with highest distinction
Katherine Ongalo Gelberg
Barton Hale Kramer, with distinction
Jane F. Kruck
June Easter Mallory
Marguerite Landfair Mangum
Maria Louise Marshall
James G. McCarthy
Arlene Jeanette Millican
DEGREES, HONORS, AWARDS

Robert Michael Penn
Susan Elizabeth Snyder

Major in Physics

Harvie Leonard Burke, Jr.
Terry Lee Freisz, with highest distinction
Paul Gaddis
Neil Lee Gelberg
Barton Hale Kramer, with distinction

Major in Psychology

Ellen Yeaman Burge
Janet Raye Edwards
John Carl Enos
Carmen L. Fernandez, with distinction
Diane Cornelia Gribbin
Josephine G. Kanala
Nancy Eileen Maloney, with distinction
Kathleen Fox Meredith, with distinction
Anne Hoffman Shelley, with highest distinction
Kolleen Mary Yocum

Major in Spanish

Sylvia Beth Alexander
Diana Elizabeth Edwards Butler, with high distinction
Agnes Wirt Duncan, with high distinction
Ramon Enrique Planas, Jr.
Jane Derrick Wagner, with high distinction

BACHELOR OF SCIENCE

Major in Biology

George A. Bienert
Michael Wallace Boblitt
Thomas Edward Bush
George Floyd Congleton, Jr., with distinction
Antoinette Jean Crowder, with distinction
Jeffrey Eugene Drifmeyer, with distinction
Bruce Earl Johnson, with distinction
Glenn William Martin
GEORGE MASON COLLEGE

Patricia E. McKinley, with high distinction
David Weaver Natella
Douglas Clark Niemi
James Weston O'Brien, Jr.
Loren John Peterson
Catalina Ann Sanchez
Diana Lillian Sorgen, with distinction
Susan Juliet Strong, with distinction
Susan Woodville Warner
Diane E. Wells, with high distinction
John Christopher West
Gregory Charles Zirzow

Major in Elementary Education

Carolyn Marie Boyer, with high distinction
Anne Thatcher Brown
Nancy Luyster Curnin, with distinction
Gloria Marie Cyr
Elizabeth Lessley Dart, with distinction
Karen Elizabeth Spengler DeSomma, with distinction
Leila May Feurtado
Patricia I. Fiskeaux
Marguerite A. Kelly
Beth Barricklow Land, with distinction
Michele Varga Leikensohn, with distinction
Katherine Ruth Leith
Elizabeth Miller Lynch, with high distinction
Patricia Keys Murray
Carol Ann Pawlowski
Diane Augusta Pettit
Ann H. Prestera, with distinction
Albert Patrick Readyhough
Annette Davis Rieger
Nancy Withrow Sharman
Linda Susan Shiflett
John Joseph Strittar, III
Janet Lynn Gaskin Strong, with distinction
George J. Whelpley
Dorothy Franklin Williams
DEGREES, HONORS, AWARDS

Degrees Conferred August, 1970

BACHELOR OF ARTS

Major in Business and Public Administration

Donald F. Albaugh, Jr.
David Eason Boone, with distinction
Christopher G. Dancy
Stephen Paul Dargusch
Carole Lee Haynes, with distinction
James Reed Hewitt
Sandra Lee Morrow, with distinction
Frederick Louis Parish
Joseph Retzbach
Ray Franklin Smith, Jr.
George D. Wiltshire

Major in Chemistry

David C. Lamb

Major in Economics

Lawrence Bruce Richard Priepeton

Major in English

Sally Jean Adamy
Linda Christine Bailey, with distinction
Imogene Booth Elder
Inez Sylvia Graetzer
William Cameron Pulman, Jr., with distinction
Barbara S. Rowe
Nancy Lee Sardonia
Glade S. Wittwer, Jr., with distinction

Major in French

Gladys Fernandez Telford, with highest distinction

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GEORGE MASON COLLEGE

Major in History

Julian Anne Bennison, with high distinction
Carolyn H. Chase
Laura Patricia Cole, with high distinction
Michaele Fath
William John Ferrara
Karen Andrus Gray
Hathaway H. Green, with high distinction
Patrick J. Hyland
William G. Iliffe, Jr.
Ernest Frederick Langholz, Jr.
Cabel Wellesley Lloyd
Jerry R. Schultz
Mona L. Scott
John Clifford Stouts
Raymond Lane Willingham

Major in Mathematics

Dorothy E. Brennan
Oguz Hasim Caglarcan
Dennis Ann Daniel
John C. Faith
Donald William Harney
Patrick Michael O'Connell
Elizabeth Quinn Senese
Cynthia Hobbs Thrower

Major in Psychology

Edward H. Campbell
Gregory W. Grosscope
Rexford G. Parr, Jr.
Carolyn E. Thomas

Major in Spanish

Maria M. Ingham
Diana Marie Rucker
DEGREES, HONORS, AWARDS

BACHELOR OF SCIENCE

Major in Biology

Christopher L. Prater
Diana Canney Weand

BACHELOR OF SCIENCE IN EDUCATION

Susan Anne Marie Bechelli
Elaine Carol Benen, with distinction
Melinda R. Cannon
Frances E. Carayiannis
Suzanne Latham Carter
Linda W. Croker
Margaret Gilchrist Devanny
Katherine Ann DuVall
Alice G. Giubilato
Nancy Oppermann
Johanna Roberts Palumbo
Ann Shelton Parker
Dorothy Anderson Pringle
Christine Stewart Ross, with distinction
Richard E. Scott
Esther B. Smith
Mark Dana Smith
J. Paul Tessier, with distinction
Janet Elinor Trout
### Dean’s List of Distinguished Students

**FIRST SEMESTER, 1969-70**

<table>
<thead>
<tr>
<th>Name</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sally J. Adamy</td>
<td>George D. Cordone</td>
</tr>
<tr>
<td>Kathleen C. Adgate</td>
<td>James S. Corrigan</td>
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<td>Gerald A. Almy</td>
<td>James C. Craten</td>
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<td>William J. Amshy</td>
<td>Anita L. Crotts</td>
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<td>Mary J. Andrews</td>
<td>Antoinette Crowder</td>
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<td>Thomas C. Andrews</td>
<td>Anna B. Cunningham</td>
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<td>Sue A. Appleton</td>
<td>Kimberly Ambrose Curtis</td>
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<td>Barbara A. Archer</td>
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<td>Charlotte B. Armstrong</td>
<td>Gerard J. D’Alessandro</td>
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<td>Linda Backstrom</td>
<td>Marilyn T. Dargusch</td>
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<td>Sharon L. Baker</td>
<td>Stephen P. Dargusch</td>
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<td>Mary P. Batchellor</td>
<td>Buck R. Deal</td>
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<td>Karen E. Beach</td>
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<td>Martha E. Beltran</td>
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<td>Deborah De Jonghe</td>
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<td>William J. Best</td>
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<td>Gay B. Blazey</td>
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<td>Kathleen Dicks</td>
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<td>Robert L. Dicks</td>
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<td>David E. Boone</td>
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<td>Peter N. Braun</td>
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<td>Benjamin F. Brown</td>
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<td>Meredith A. Brown</td>
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<td>Doris N. Eidsness</td>
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<tr>
<td>Harvie L. Burke, Jr.</td>
<td>Anne C. Ellerbrake</td>
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<td>Joel D. Burns</td>
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<td>Oguz H. Caglarcan</td>
<td>Michael B. Elliott</td>
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<td>Alice D. Canney</td>
<td>Delana K. Ellis</td>
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<td>Fran E. Carayiannis</td>
<td>Ruth Embree</td>
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<td>John F. Carlin, Jr.</td>
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<td>Michael A. Carney</td>
<td>Mary L. Eustis</td>
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<td>Arthur L. Carter, Jr.</td>
<td>James Feeney</td>
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<td>William J. Ferrara</td>
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<td>Cleborne D. Foster, Jr.</td>
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<td>Christine A. Clark</td>
<td>Mark L. Foster</td>
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<td>Robert M. Foster</td>
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<td>Laura P. Cole</td>
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<td>James L. Combs</td>
<td>Terry L. Friesz</td>
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<tr>
<td>Patricia M. Cookston</td>
<td>Cecilia M. Fruitman</td>
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<tr>
<td>Ingrid A. Copeland</td>
<td>Jose R. Fuentes</td>
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</tbody>
</table>
DEGREES, HONORS, AWARDS

Paul L. Gaddis
Stephen R. Gaffney
David M. Gainey
Joan E. Gardner
Marjorie P. Garnett
Neil L. Gelberg
Laureen M. Geppert
Jessica L. Gifford
Judith J. Ginther
Anthony P. Giorno
Ann H. Gish
Helen I. Golden
Lousie K. Goldsmith
Matthew A. Gonda
Sydna A. Gong
Janet R. Goodin
Linda B. Gore
Stephen R. Gorey
Linda L. Gowdy
Michael A. Grant
Mary A. Grassino
William F. Graves
Karen D. Gray
Hathaway H. Green
Joanne D. Grefenstette
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Ann McCorquodale
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Rita A. Russell
Kathleen Ryan
Catherine B. Sadlowski

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Ray F. Smith, Jr.
Ruth C. Smith
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Julian P. Stevens
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Susan J. Strong
David G. Sturgill
John H. Sturitz
Mary M. Swenson
Stephanie D. Talbot
Joseph P. Tessier
Rose M. Tessier
Deborah C. Thompson
Carol A. Thompson
Albert H. Tillson, Jr.
Jeri A. Townley
Claudia Toy
Barbara Triplett
Janet E. Trout
Christine A. Troxell
Donna L. Truax
### DEGREES, HONORS, AWARDS

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<tr>
<td>Ghislaine A. Tulou</td>
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<td>Loretta M. Unterkofler</td>
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<td>Anthony J. Vogel</td>
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<td>Doborah L. Zane</td>
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### SECOND SEMESTER, 1969-70

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<tr>
<td>Clive B. Abel</td>
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<td>Deborah DeJonghe</td>
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<td>John D. D'Elia</td>
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Jerry J. Deola
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Kathleen M. Dicks
Robert L. Dicks
Rafael E. Diez
Peggy L. Disney
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Kirk D. Wrigley
William B. Yancey
Deborah L. Zane
Beatrice M. Zimmer
DEGREES, HONORS, AWARDS

Awards

LITERARY, 1969-70

Short Story:
First Prize: Carole R. Bencich

Poetry:
Honorable Mention: John A. Lawson, Jr.
Loretta M. Unterkofler

WEBER H. PETERSON MEMORIAL AWARD IN ECONOMICS

The Weber H. Peterson Memorial Award in Economics was established by the students of George Mason College to be conferred annually, beginning with the academic year 1970-71, upon an outstanding qualified senior major in economics.

ATHLETIC, 1969-70

Most Valuable Baseball Player: Gary R. Roth
Most Valuable Basketball Player: Albert P. Readyhough
COLLEGE DIRECTORIES

Administration
Faculty
Retired Faculty
Supporting Services
Student Government Officers

George Mason College
Advisory Board

George Mason College
Foundation, Inc., Officers

University of Virginia,
The Rector and Visitors

University of Virginia
Administrative Officers
COLLEGE DIRECTORIES

Administration

CHANCELLOR'S OFFICE

Lorin Andrew Thompson, B.A., M.A., Ph.D. ............... Chancellor

ACADEMIC AFFAIRS

Robert Charles Krug, B.S., M.S., Ph.D. ............... Dean of the Faculty

Dean of the Graduate Program

Leon Estel Boothe, B.S., M.A., Ph.D. .......... Associate Dean of the College

William Cargill Johnston, B.A., M.S., Ph.D. Dean of the Summer Session

BUSINESS OFFICE

Henry Patteson Adams, B.S. ............. Business Manager

STUDENT AFFAIRS

Robert Amrine Turner, B.S., M.A.T. .......... Dean of Students

Mark Alan Tannenbaum, B.A., M.A. Director of Financial Aid

and Placement

ADMISSION AND RECORDS

Louis John Aebischer, B.S., M.S. Director of Admissions

John Patrick Sullivan, B.S., M.A. . . . . Registrar

PLANNING AND RESEARCH

James Hastie Clark, B.S. Director of Planning

John Patrick Sullivan, B.S., M.A. Director of Institutional

Analysis

COUNSELING

Walter Jennings Moretz, Jr., B.A., B.D., Ph.D. Director of College

Counseling Center

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Faculty*

ADAMS, Henry Patteson, Associate Professor, 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.

AGUERA, Victorio Garcia, Assistant Professor of Spanish. M.A., Colegio
Mayor Teologico Hispano-americano, 1958; M.A., Catholic
University, 1970; Ph.D., Catholic University, 1971.

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.

ARUCA, Francisco Gonzales, Instructor in
Economics. B.A., Georgetown
University, 1967; M.A., Catholic University, 1970.

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

AZAROWICZ, Marjory Frances Brown, Associate Professor of Education.
B.A., University of British Columbia, 1950; B.Ed., University of
Alberta, 1953; A.R.C.T., University of Toronto, 1953; A.Mus.,
University of Alberta, 1954; M.A., University of Washington, 1956;
Ph.D., University of Washington, 1961.

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

BLOECKER JR., Victor, Instructor in Education. B.S., University Of
Pennsylvania, 1942; M.A., University of Southern California, 1950.

BOOTHE, Leon Estel, Associate Professor of History, Associate Dean of
the College. B.S., University of Missouri, 1960; M.A., University of
Missouri, 1962; Ph.D., University of Illinois, 1966.

*This list is a record of the 1970-71 faculty.
COLLEGE DIRECTORIES

BRADLEY, Ted Ray, Assistant Professor of Biology. B.S., Rollins College, 1962; M.A., University of North Carolina, 1966; Ph.D., University of North Carolina, 1968.

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, 1968.

BROWN, Stephen Jeffry, Professor of English. 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.

BURT, Amanda Martha, Assistant Professor of Music. B.A., The American University, 1965; M.A., American University, 1966; Ph.D., Catholic University of America, 1969.

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.

CARROLL, Jack Charles, Assistant Professor of Education. B.S., Agricultural and Technical College, 1957; M.Ed., American University, 1966; Ed.D., American University, 1970.

CASSARA, Ernest, Professor of History, Chairman of Department of History. A.B., Tufts College, 1952; B.D., Tufts College, 1954; Ph.D., Boston University, 1967.

CASTILLO, Marta Silvia, Lecturer in Spanish. B.A., American University, 1969; M.A., American University, 1970.


CHILDRESS JR., Joseph Atkins, Assistant Professor of Mathematics. B.S., Virginia Polytechnic Institute, 1964; M.A., University of Georgia, 1967; Ph.D., University of Georgia, 1970.
CHURCHMAN, Anthony Charles, Acting Assistant Professor of English. B.A., University of Western Ontario, 1964; M.A., University of Western Ontario, 1965.


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

COLEMAN, Esther Montague, Assistant Professor of Education. B.S., Longwood College, 1963; M.Ed., University of Virginia, 1965; D.Ed., University of Virginia, 1969.

CORDERO, Anne Deing, Assistant Professor of French. Dipl, Dolmetscher, University of Mainz, 1955; M.A., University of Florida, 1957; Ph.D., George Washington University, 1968.

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

DAY, Donald Keith, Instructor in Physics. B.S., Massachusetts Institute of Technology, 1963; M.S., University of Maryland, 1967.


DERR, Laura Muntz, Instructor in English. B.A., University of Kentucky, 1968; M.A., University of Kentucky, 1969.


DOMINICK, William Boyce, Assistant Professor of Business Administration. A.B., Furman University, 1921; A.M., University of Chicago, 1925.
COLLEGE DIRECTORIES

DOREY, Frederick James, Assistant Professor of Mathematics. B.A., Boston College, 1964; M.A., Boston College, 1966; Ph.D., University of Massachusetts, 1969.

DOWE, Jr., Ray Michael, Lecturer in Physics. B.S., United States Military Academy, 1950; M.S., University of Alabama, 1961; Ph.D., University of Alabama, 1965.

DUFFNER, Margaret Cain, Instructor in Speech. A.B., MacMurray College, 1940; M.A., Northwestern University, 1943.

EARLY, Jr., Stephen Tyree, Professor of Political Science, Chairman of Department of Social Sciences. B.A., University of Virginia, 1948; M.A., University of Virginia, 1950; Ph.D., University of Virginia, 1954.

EASSA, Christine Wolynec, Instructor in Chemistry. B.Sc., University of Manitoba, 1960; B.Sc. in Ed., Kent State University, 1962; M.Sc., University of Hawaii, 1966.

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

ELSTUN, Esther Nies, Assistant Professor of German, Program Coordinator, Department of Foreign Languages. B.A., The Colorado College, 1960; M.A., Rice University, 1964; Ph.D., Rice University, 1969.

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

EVANS, Arlette Raymonde, Assistant Professor of French. B.A., University of Algiers, 1941; M.S., Georgetown University, 1965.


FEDEL, Robert Fredrick, Lecturer in Engineering Graphics. B.S., University of Massachusetts, 1951; M.S., Massachusetts Institute of Technology, 1962.

FEINSTEIN, Hyman Israel, Associate Professor of Chemistry. A.B., University of Michigan, 1930; M.A., Columbia University, 1932.

FLINN, Jane Margaret, Lecturer in Physics. B.A., Oxford University, 1960; M.S., University of California, Los Angeles, 1962; Ph.D., Catholic University, 1969.

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FLINT, Ruth Allaire, Assistant Professor of Biology. B.S., University of Massachusetts, 1954; M.S., University of Massachusetts, 1955; Ph.D., University of Maryland, 1970.

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Change on Page 40

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The following guidelines apply to students enrolling in the foreign language program:

(1) The 151-152 courses in foreign language are reserved for students who present no entrance credit in the language and for students who have not taken the foreign language within two years of the time of enrollment in the course.

(2) Students who present two or more entrance credits in a language taken within two years prior to enrollment in the college course and who wish to continue that language will be placed in 153 or 251, depending upon their scores on the foreign language placement test. If their scores place them beyond 251, they will have fulfilled the foreign language requirement by examination.

(3) Transfer students who have not received credit for college-level foreign language study will be placed according to (1) or (2) above, whichever is applicable. Transfer students who have received credit for college-level foreign language study do not take the placement test; they automatically enter the level immediately beyond the one for which they receive transfer credit.

Addenda to Page 46

CATALOG REQUIREMENTS FOR GRADUATION

A candidate for a degree may elect to graduate under the provisions of the catalog under which he entered or may elect to graduate under the provisions of a catalog subsequent to his entry if the student has been enrolled in a continuous progression from date of entry to the receipt of a degree. (Summer sessions and one semester absences are excluded.) Any student who fails to register for two or more consecutive semesters must meet either the requirements of the catalog under which he entered or the requirements of the catalog in effect at the time the student shall be graduated.

Psychology 401: Prerequisite should read Psychology 221 or permission of instructor.

Sociology 301: Prerequisite should read Sociology 102 or permission of instructor.

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