UNIVERSITY OF VIRGINIA
BULLETIN • 1968-1969

GEORGE MASON COLLEGE
FAIRFAX, VIRGINIA 22030

June 1, 1968

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"...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
UNIVERSITY OF VIRGINIA

The Bulletin of the Undergraduate Schools of the University: The College of Arts and Sciences, and the Schools of Architecture, Commerce, Education, Engineering and Applied Science, and Nursing may be obtained from the Office of the Dean of any of the Schools or the Office of Admissions, the Rotunda. The Bulletins of the other Schools of the University may be obtained from the Office of the Dean of the Schools. Bulletins of the University Colleges may be obtained by writing to the Admissions Office at George Mason College, Fairfax, Virginia, Clinch Valley College, Wise, Virginia, or Mary Washington College, Fredericksburg, Virginia.

Number 1, February 15:
School of Education
Graduate Division

Number 2, March 1:
Undergraduate Schools

Number 3, March 15:
The Summer Session

Number 4, April 15:
Graduate Studies in the School of Engineering
and Applied Science

Number 5, May 1:
The Graduate School of Arts and Sciences

Number 6, May 15:
Patrick Henry College

Number 7, May 15:
Clinch Valley College

Number 8, June 1:
The School of Medicine

Number 9, June 1:
George Mason College

Number 10, June 15:
Graduate Studies in the
School of Architecture

Number 11, July 15:
The School of General Studies

Number 12, August 15:
The School of Law

Number 13, October 1:
The Graduate School of Business Administration

Number 14, November 1:
The Record of the University of Virginia

Volume 1
Number 9
June 1, 1968

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Correspondence Directory

GEORGE MASON COLLEGE, FAIRFAX, VIRGINIA  22030

Inquiries to the College should be addressed as indicated below:

   Academic Programs and Policies .................. Dean of the College
   Admissions .................................................. Director of Admissions
   Catalogues .................................................. 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
   Student Affairs ............................................ Dean of Students
   Summer Session ........................................... Director of Summer Session
   Transcripts .................................................. Registrar

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.
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Calendar

Session of 1968-1969

First Semester

Monday, September 9 ............................................ Faculty Orientation
Monday, September 9 ............................................ New Students Orientation
Tuesday, September 10 ......................................... Advising of Seniors and Transfer Students
Wednesday, September 11 ...................................... Advising of Returning and New Students
Thursday, September 12 and Friday, September 13 .......... Registration
Monday, September 16 .......................................... First Day of Classes
Monday, September 23 .......................................... Last Day for Adding New Courses
Monday, October 7 ................................................ Last Day for Dropping a Course
                                                                  Without Incurring an F Grade
Friday, November 1 ............................................. Mid-Semester Progress Reports Due
Thursday, November 28 through ................................ Thanksgiving Recess
Saturday, November 30 ...........................................
Monday, December 2 ............................................. Last Day for June Seniors
                                                                  to File Degree Applications
Monday, December 23 through .................................. Christmas Recess
Wednesday, January 1 ...........................................
Thursday, January 16 ............................................ Open Day — No Classes
Friday, January 17 through ...................................... Examinations
                                                                  Friday, January 24

Second Semester

Monday, February 3 ............................................. Advising of Students and Registration
Tuesday, February 4 ............................................. Registration Continued
Wednesday, February 5 .......................................... First Day of Classes
Tuesday, February 11 ............................................. Last Day for Adding New Courses
Wednesday, February 26 ........................................ Last Day for Dropping a Course
                                                                  Without Incurring an F Grade
Monday, March 31 through ..................................... Spring Recess
Saturday, April 5 .................................................
Friday, April 11 .................................................... George Mason Day
Thursday, May 1 .................................................... Applications for Renewal of
                                                                  Scholarships and Loans Due
Monday, May 26 through Tuesday, June 3 ....................... Examinations
                                                                  Friday, June 8
Sunday, June 8 .................................................... Commencement

Summer Session 1969

Thursday, June 12* .............................................. First Term Begins
Friday, July 18* ..................................................... First Term Ends
Monday, July 21* ................................................... Second Term Begins
Friday, August 22* ................................................ Second Term Ends

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

General Information

HISTORY OF THE COLLEGE

In April 1955, the Board of Visitors of the University of Virginia authorized the establishment of George Mason College to serve the Northern Virginia area. The College opened in 1957 at Bailey's Crossroads as a part of the School of General Studies of the University of Virginia. In 1960 it was named for the famous Virginia statesman, George Mason, and given the status of a Community College of the University.

In 1964 the College occupied the first four buildings on the 150-acre site donated by the City of Fairfax.

Elevated to four-year status in 1966, the College now provides programs of study leading to the Bachelor of Arts degree with majors available in biology, business and public administration, chemistry, English, French, history, mathematics, physics, and Spanish. The College also provides programs of study leading to the Bachelor of Science degree with the major in biology, and the degree of Bachelor of Science in Education with the major in elementary education. In addition to these areas of study, students may complete two years of academic work in engineering. Strong supporting courses in the humanities add to the flexibility of the programs to suit individual needs. As a four-year branch of the University of Virginia, the College is accredited by the Southern Association of Colleges and Schools. Students desiring to further their studies in certain areas, for example, engineering, may transfer to the University or to other universities and colleges for the completion of work begun in these specialized fields.

The College will graduate its first class on June 9, 1968.

Enrollment at George Mason now exceeds 1,100 students and there are eighty-six full-time and part-time faculty members. Although the majority of the students are from the immediate area, twelve foreign countries are represented. For service on a part-time basis, the College is able to bring to the classroom professional people drawn from an expanding pool of talent in the metropolitan area.

Student service clubs and honor societies contribute to the life of the College as do the student government, newspaper, yearbook, and other activities. The College is proud of the Honor System under which the students have elected to live and serve.
Chartered by the General Assembly in 1819 under the sponsorship of Thomas Jefferson, the University of Virginia officially opened for instruction on March 7, 1825. Since its opening the University has prided itself for the spirit of intellectual freedom and academic excellence which it has constantly maintained. Thomas Jefferson, the founder of the University, not only designed and supervised the 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, along with James Madison and James Monroe. On the eve of the Civil War, the institution was second only to Harvard University in size of faculty and student body among American universities. During the ante-bellum years, the University of Virginia was the first educational institution in the United States to institute an honor system, a system of elective courses, and a graduate school in the arts and sciences. By untiring devotion the faculty and Board of Visitors managed to keep the doors of the University open throughout the Civil War and Reconstruction—making it unique among southern state universities as never having been closed.

During the twentieth century the University has slowly but constantly expanded its student enrollment, always maintaining its high academic standards. The University of Virginia has, during the last fifteen years, established a number of independent graduate and professional schools, such as that of commerce, business administration, nursing, and architecture. Of particular national reputation are the University's School of Law and Medical School—the oldest such schools now in existence in the South. The University further plans to expand and develop its various graduate departments. In order to meet the increased demand for advanced education, the University has founded several colleges; George Mason College in northern Virginia is one of them.

The Honor System

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

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

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

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

**DEGREE MAJORS**

Students may select a course of study leading to the degree of Bachelor of Arts with a major in biology, business and public administration, chemistry, English, French, history, mathematics, physics, and Spanish. Courses of study leading to the degree of Bachelor of Science with the major in biology, and the degree of Bachelor of Science in Education with the major in elementary education may also be selected.

The Bachelor of Science degree in biology will be awarded for the first time in June 1969 and degrees with the major in elementary education, French, physics, and Spanish will be awarded for the first time in June 1970.

**ACADEMIC HONORS**

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

**STUDENT 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 Court are held once a year.

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

The student organizations that are registered with the Student Government and recognized by the College are as follows:

The ADVOCATE is the college yearbook and published by the students.

AGORA SOCIETY attempts to foster interest in dramatics on campus by producing plays and presenting films and readings. Its first full-length dramatic production was presented in March, 1968.
BIOLOGY CLUB serves to encourage and stimulate interest among students in the biological sciences.

DELTA TAU SIGMA is a men's fraternal organization whose purpose is to promote friendship and fraternity on campus. Its many activities include dances, formal balls, and charity fund drives. The fraternity has a rush and an eight week pledge program.

ENGINEERS' CLUB is an organization of the students in the engineering program who gather for programs and activities pertinent to their specialization.

The GUNSTON LEDGER is the weekly newspaper published by the students.

The HONOR SOCIETY is an organization for students who have attained an average of at least 3.0 and are selected for membership by the Society.

LAMBDA TAU OMEGA is a women's organization which brings individuals together to work toward a common goal in the school and community. In promoting scholarship, leadership and fellowship, the sorority stresses the development of the individual.

NEWMAN CLUB is a Catholic organization of students whose purpose is to foster religious cooperation. It attempts to promote the spiritual and ecumenical aspects of college life.

PEP CLUB is an organization of students whose aim is to promote school spirit in support of athletics and social activities. Its activities include numerous dances, bake sales, a spaghetti dinner, and a Slave Day.

SAGE is a women's club dedicated to providing service to the College, the administration and community. Its members are selected by vote of the permanent members and are required to fulfill a two week pledge period.

SPANISH CLUB is an organization of students who encourage student involvement through conversation in the Spanish language and study of the Iberoamerican culture.

SPECTRUM is a student service and discussion organization. It promotes the cultural life of the College through speakers, discussions, films, charity fund drives and involvement in the local Head Start program.

SPORTS CAR CLUB attempts to foster student friendships through various sports car activities. These activities include numerous car rallies.

SYMPOSIUM is a local fraternity. Its purpose is to further the cultural, academic and fraternal interests of George Mason students. It also sponsors dances and other events which promote college spirit.

WHIG SOCIETY is a debating and forensic society at George Mason. It promotes culture on campus through numerous speakers and judges high school debates. In addition, several field trips are among its yearly activities.

YOUNG REPUBLICANS and YOUNG DEMOCRATS CLUBS promote political activities and interest among the students for their respective parties.
ATHLETIC PROGRAM

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, and cross-country. The College is a member of the National Association of Intercollegiate Athletics, therefore, freshmen are eligible for varsity competition. The College participates in the Maryland Intercollegiate Conference. Other conference members are Frostburg State, Bowie State and Coppin State from Maryland and District of Columbia Teachers College and Gallaudet College from the District of Columbia. 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 is a member of the National Association of Intercollegiate Athletics and abides by all the rules and regulations of this organization.

ATHLETIC COUNCIL

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

INTRAMURAL COUNCIL

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

LETTERMAN'S CLUB

The Letterman's Club is an organization of men students who have earned a varsity letter in intercollegiate competition. They have demonstrated their athletic ability and willingness to discipline themselves and to train and work hard enough to represent the College to the best of their ability. The Letterman's Club is advised and assisted by the Athletic Director.

LIBRARY FACILITIES

The Charles Rogers Fenwick Library is situated at the southeastern side of the present complex of campus buildings. Completed in late 1967, the building, in keeping with its role as the appropriate focus for the dominant intellectual and cultural interests of the College, is of classically simple design. At present, the facility seats 300 students. The maximum book capacity of the building is 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 20,000 books and 3,000 bound periodicals as well as 5,000 pamphlets, maps, and microfilms. Four hundred fifty 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 loan via teletype service. The library is open sixty-eight hours per week.

**Placement Service**

The Placement Office coordinates activities concerned with post-college employment of degree applicants and graduates. The office serves as an intermediary agency between the student and prospective employers, assembling permanent records on each applicant which include academic information, work experience, personal references, and other pertinent data to aid prospective employers in considering students for particular positions. Registration with the Placement Office assures a complete and permanent file which may be used not only during the final academic year but after graduation. Students, regardless of the degree expected, should register for placement early in their last academic year, even though they have plans for employment or military service immediately following graduation.

Student-employer interviews are scheduled on campus throughout the school session. Representatives from schools and colleges, major businesses, industrial and government agencies, as well as smaller concerns, provide a cross section of employment opportunities for the graduate. From the variety of opportunities presented, the student is able to examine occupational possibilities and acquaint himself with the current employment scene. A file of occupational information and company literature is also available for student use. This file usually includes an annual report to aid in securing financial information, and brochures describing available positions, locations, personnel policies, and other pertinent information.

The Placement Office also provides employment consultation and counseling services to alumni who desire a change in either location or employment. Throughout the year employers may use the services of the Placement Office to fill positions open to alumni with post-college work experience. Referrals are made from among the graduates who have complete placement files on record in the Placement Office.

The Placement Office also assists students in locating summer employment. Many of the companies and governmental agencies recruiting on campus for permanent employees also consider students for summer employment. Persons who desire the assistance of this office in matters of placement are invited to request further information from the Placement Office.
II
Entering George Mason College

ADMISSION

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 to the application forms of all applicants.

To be assured of consideration, applications should be submitted no later than June 1. Students with honor grades in secondary school 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. Final admission is granted in writing only upon satisfactory completion of the requirements discussed in this section and successful completion of the senior year of high school.

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

DISCRIMINATION PROHIBITED

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

ADMISSION FROM SECONDARY SCHOOL

ARTS, SCIENCES, AND ELEMENTARY EDUCATION

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

- English ................................................................. 4 units
- Mathematics ....................................................... 3 units
- Foreign Language .................................................. 2 units
- Social Studies ....................................................... 1 unit
- Science ........................................................................ 1 unit
- Electives ..................................................................... 4 units
- Minimum Total ............................................................. 15 units

1 These units must be selected from algebra, geometry, trigonometry, probability, and elementary calculus.
2 No credit is allowed for less than two units in a foreign language.
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.

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

The Language Department strongly suggests that students in the arts, sciences, and elementary education programs take the language achievement tests of the College Entrance Examination Board. Scores of these tests may be used for advanced placement of students by the Language Department.

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

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

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

The applicant must be at least sixteen years of age, a graduate of an accredited high school or preparatory school with graduation based on no fewer

---

3 These units must be two of algebra, one of plane geometry and ⅔ 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.

*Address of the College Board Offices: Box 592, Princeton, New Jersey, 08540, or Box 1025, Berkeley, California, 94701.
than fifteen entrance units, or in special cases, have approved equivalent secondary school preparation. Applicants should rank in the upper half of their secondary school class.

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

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

All approved applicants will receive a medical form which must be properly filled out and returned to the Admissions Office prior to matriculation.

Candidates who are approved for admission should notify the College as soon as possible whether they wish to accept or reject this offer.

The College reserves the right to cancel any offer of admission not acknowledged prior to the closing of Fall enrollment.

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 29 under the heading "Credits Earned At Other Colleges."

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

## FEES SCHEDULE

<table>
<thead>
<tr>
<th></th>
<th>Virginia</th>
<th>Out-of-State</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Application Fee</strong></td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
<tr>
<td><strong>Tuition:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twelve semester-hours and above (per semester)</td>
<td>240.00</td>
<td>575.00</td>
</tr>
<tr>
<td>Part-time students (up to 12 semester-hours)</td>
<td>240.00</td>
<td>575.00</td>
</tr>
<tr>
<td>per semester-hour</td>
<td>16.00</td>
<td>38.00</td>
</tr>
<tr>
<td><strong>Comprehensive Fee (per semester)</strong></td>
<td>17.00*</td>
<td>17.00*</td>
</tr>
<tr>
<td><strong>Laboratory Breakage Deposit (per semester)</strong></td>
<td>5.00**</td>
<td>5.00**</td>
</tr>
</tbody>
</table>

## CLASSIFICATION AS A VIRGINIA STUDENT

In order to be considered a Virginia student for any given semester, it is necessary that the applicant shall have been domiciled in the State of Virginia for at least one year immediately preceding the beginning of that semester, and the parent or legal guardian must have been a bona fide taxpayer to the State of Virginia for the calendar year immediately preceding the calendar year of registration.

You are classified as an in-state student if your parent or legal guardian has been domiciled in the state of Virginia for a full calendar year prior to registration and has paid Virginia state income taxes for the previous tax year of your matriculation. The domicile of the father or guardian controls the domicile of the student. It is the domicile of the father and his payment of income taxes that is basic in determining classification as a Virginia student. Unusual circumstances may be ruled upon by the Business Office.

Residence in the State for the purpose of securing an education does not qualify an individual for classification as a Virginia student.

## PAYMENT OF FEES

The satisfactory payment of tuition and fees is considered a part of the registration process. All fees are payable at the Business Office on the dates set forth for registration. No student is permitted to complete registration or to attend classes until all fees are paid. Penalties for late registration are $5.00 to $15.00, based on one to three days, to be imposed after the final day of registration.

All students accepted for admission will receive advance billing at the full-time rate for each semester. Students are urged to make payments in advance by mail to reduce time in line on registration day. Payments by mail must be

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

** The balance existing in the student's account for laboratory breakage deposit will be refunded, by mail, to the student at the end of the second semester upon application to the Business Office.
received in the Business Office prior to registration day, otherwise payments must be made over the counter on the student's assigned date of registration to avoid a late registration penalty charge.

Payees making payment by check to George Mason College with insufficient funds will be charged a penalty fee of $5.00. Failure to make the check good within five days will result in suspension of the student.

In exceptional cases, the student may sign a contract for semester charges permitting payments as follows:

First Semester — One-third at the time of registration; one-third on or before November 4; one-third on or before December 2.

Second Semester—One third at the time of registration; one-third on or before March 3; one-third on or before April 3.

A student who fails to meet payments when due, but who pays his fees on or before the fifteenth of the month in which payment is due, is charged a service fee of $1.00. A student who fails to meet payments by the fifteenth of the month in which payment is due will be automatically suspended and may not attend classes until he has been officially reinstated and has paid all accrued fees and a reinstatement fee of $5.00.

A student suspended for failure to meet payments when due may not be reinstated for the semester after two weeks from the date of suspension. Applications for reinstatement are to be made to the Business Office.

RETURN OF FEES

A student withdrawing within five days after registration shall have his tuition and fees refunded in full except for the sum of $10.00 to cover cost of registration. If he withdraws voluntarily after the fifth day of the semester and before the middle thereof, his fees shall be refunded pro rata. If the student is required to withdraw from the College at any time during the semester, or if he withdraws voluntarily after the middle thereof, no refund of tuition and fees for that semester shall be made.

OTHER REQUIRED FEES

BREAKAGE FEE

Students enrolled in science courses will not be pre-billed for the breakage fee. They will be billed upon completion of registration and are expected to pay this fee within one week of billing date.

MOTOR VEHICLE REGISTRATION FEE

All students are required to submit a driver certificate form and register any vehicles to be driven on the College grounds. Each vehicle registered must bear an authorized College decal, which can be purchased at the Business Office for $1.00 per copy.

TRANSCRIPT FEE

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

The Financial Aid Office is the College's liaison with the Veterans Administration in matters concerning educational benefits to veterans. Veterans eligible for educational benefits under Public Law 89-358 (Peacetime G.I. bill) must make application to their nearest VA Regional Office for approval of their program and to receive authorization for benefits. It is important that this be done in advance of taking up residence so that programs may be approved before funds are needed. Application forms for educational benefits are available from the Financial Aid Office, George Mason College, 4400 University Drive, Fairfax, Virginia, 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 Financial Aid Office assists the eligible persons in their relations with the Veterans Administration.

FINANCIAL AID

George Mason College has a limited amount of financial aid available in the form of scholarships and loans which are administered by the Financial Aid Office of the College. Scholarships, in general, are awarded to students in their second or third year at the College. First-year students should attempt to meet their obligations through loans available either at the College or at local banks participating in the Virginia Education Assistance Authority Program. The College handles the National Defense Student Loan Program and these loans, when available, are open to all students who demonstrate need. All financial aid is based on need.

All applications for financial aid — scholarships or loans — are due by May 1 each year, with the exception of State Teachers Scholarship Loan applications. They must be filed by April 21. All applications for renewals of loans or scholarships are due by May 1.

The "Parents' Confidential Statement in Support of Application for Financial Aid" of the College Scholarship Service of Princeton, New Jersey, is required of all new applicants. The statement form and instructions will ordinarily be available from secondary school principals or guidance counselors. This information is also available at the Financial Aid Office. Each candidate should make sure his statement is filed and a copy sent to George Mason College.

The Statement of the College Scholarship Service and the George Mason College financial aid application must be submitted to the Financial Aid Office at the College.

To hold a scholarship, a student must maintain a grade-point average of 2.5, and application for renewal of the scholarship must be filed by May 1 each year.

SCHOLARSHIPS

LYNCH FOUNDATION SCHOLARSHIP FUND. Members of the Lynch family of Northern Virginia have contributed funds to the George Mason Col-
George Mason College Foundation to create an endowment for scholarships for students at the College. Income from this fund is administered by the Financial Aid Office as part of the scholarship program of the College.

McCandlish-Moore Scholarship Fund. These funds are made possible through the generosity of Mrs. F. Sheild McCandlish in memory of her husband, F. Sheild McCandlish, and her uncle, R. Walton Moore. The funds are administered by the Financial Aid Office as part of the scholarship program of the College.

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

E. Calvin Van Dyck Memorial Scholarship. Friends of Judge Van Dyck have established a scholarship fund in tribute to his many services to Northern Virginia.

Northern Virginia Service League. The League has donated sufficient funds to the George Mason College Foundation to fully endow a scholarship for a student at George Mason College. The scholarship is awarded by the Financial Aid Office with first consideration being given to Northern Virginia residents.

Undergraduate Scholarships. These funds are made available to undergraduate Virginia residents by the General Assembly and are administered by the Financial Aid Office.

State Teachers’ Scholarship Loan Program. These scholarships are in the nature of loans which are cancelled at a fixed rate for each year of teaching in Virginia schools after graduation. Applicants must be Virginia residents and meet the qualifications set by the State Board of Education. Application forms are available in the Financial Aid Office.

Federal Financial Aid Programs

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

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

The Educational Opportunity Grant Program: The federal government makes available a limited number of direct grants to undergraduate students with exceptional financial need who require such assistance to attend college and who show academic promise. To receive this grant, a matching scholarship or loan must be awarded to the student.
The College Work-Study Program: The federal government makes available funds to provide exceptional work opportunities to students from low-income families who need earnings from part-time work to help meet college expenses. An aid applicant, who is eligible for this assistance and who indicates a desire and willingness to work and the ability to maintain a satisfactory academic standing while working in the College, will be considered for Work-Study job placement.

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

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

REGISTRATION

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.

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.

HEALTH REGULATIONS.—Entering students are required to complete a health form provided by the College and must furnish evidence of recent immunizations against smallpox and tetanus, and a chest x-ray within six months of matriculation.

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

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

VOLUNTARY WITHDRAWAL.—An official application form to withdraw must be obtained from the Recorder’s Office, and must be approved in writing by the Dean of the College, with a statement of the reason for withdrawal. A student under twenty-one years of age must have parental approval for such withdrawal. To clear the student’s record, the application must then be endorsed by the Librarian, Business Office, a member of the Honor Court and the Dean of Students. When complete, the withdrawal form must be deposited with the Recorder.

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

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

CONDUCT

The College reserves the right to suspend, enforce the withdrawal of, or expel a student whose conduct is in its judgement unsatisfactory.

LIVING ACCOMMODATIONS

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

MOTOR VEHICLES

Students who use the College parking area must register their cars with the Business Office, paying a nominal fee of $1.00 to obtain a numbered decal which must be displayed on the vehicle. Students are requested to register all vehicles which they may drive to the College. Additional decals, after initial registration, are distributed free of charge.

INSURANCE

A combined hospitalization and accident policy is available to all registered students of George Mason College on a twelve months basis. Protection covers twenty-four hours a day including interim vacation periods, and benefits are payable in addition to other insurance a student may have.

FIREARMS

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

Organizations or groups of students wishing to present a dance or other public social event must obtain the permission of the Dean of Students. Each event must be registered in advance with the Office of the Dean of Students.

Students who wish to publish, distribute, or sell any publication must first obtain the approval of the Dean of Students. The issuance, distribution, or sale of anonymous publications is forbidden and may be punishable by expulsion.

SOLICITORS AND SALESMEN

Solicitors and salesmen, except those on official business with the College, are not permitted on the campus without permission of the Business Office.
ACADEMIC REGULATIONS

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 rare instances, with the approval of the Dean of the College, a student may receive a grade of "Incomplete." A student absent from examination may receive a grade of "Absent" which automatically becomes "F," as does a grade of "Incomplete," within ten days after the date of the regular examination, unless the "Incomplete" or "Absent" has been excused by the Dean of the College.

To compute an average of the quality of work for a semester or for an entire program, grade-points for each credit-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-credit-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

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

CHANGE OF COURSES.—In order to drop and/or add a course, a student must obtain the written permission of his faculty adviser, the chairman of the department in which the dropped or added course is taken, and the Dean of the College. Forms for this purpose are provided by the Recorder's Office. The last day for adding courses shall be no longer 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 three calendar weeks after and including the first day of classes. Any student who discontinues a course without proper permission will receive a grade of F in that course.
It is the responsibility of the student to secure all required approvals (signatures) for the requested changes within the appropriate deadline stated in the calendar.

EXAMINATIONS.—Written examinations are held at the end of each semester on the work of that semester. Courses which are predominately laboratory work are not entitled to an examination during the regular examination period. In such courses an examination may be given in the last regularly scheduled laboratory period. No changes may be made in the announced examination schedule unless approved in writing by the Dean of the College.

ABSENCE FROM EXAMINATIONS AND SPECIAL EXAMINATIONS.—Absence from examination will not be excused except for sickness on the day of the examination attested by a physician's certificate, or for other cause approved by the Dean of the College. If such absence is unexcused or the examination not taken within ten days, the grade on the course is entered as "F." A student whose absence from an examination is excused may take a special examination within the ten-day period on a date to be arranged between him and the instructor in charge of the examination.

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

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

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

REPORTS.—Reports are sent at the end of each semester to the parent or guardian of each college student.

MID-TERM PROGRESS REPORTS.—Progress reports will be due from the faculty at the end of the seventh week of classes in the first semester. These reports will be processed and distributed by the end of the eighth week so that seven 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".

ATTENDANCE.—Students are required to attend classes throughout the session, with the exception of College holidays and absences due to illness or injury, unless permission to be absent temporarily or to withdraw has been first
granted by the Dean of the College. Students are required to attend lectures and other prescribed exercises of the courses for which they are registered, subject to penalties which the College approves. The usual criterion for allowable absences is one unexcused absence per credit hour per semester. Absences in excess of this may result in exclusion from the course with a grade of “F” upon recommendation of the instructor with the written approval of the Dean of the College.

EXCLUSION FROM COURSES.—A student who is making no real progress in a course may, at any time during the session, be excluded from the course with a grade of “F” by the Dean of the College upon recommendation of the instructor concerned.

PROBATION AND SUSPENSION FOR ACADEMIC DEFICIENCY.—A student who maintains a grade point average of 2.000 for all work attempted is in good academic standing within the University of Virginia system. A student who is not making satisfactory progress is placed on probation when his cumulative grade point deficiency falls below the level set by the College. He will be suspended from the College if his performance continues to be unsatisfactory or if he displays grossly inadequate performance during a single semester. A table of academic deficiencies used at George Mason College to determine the liability of a student to academic probation or suspension may be obtained from the office of the Dean of the College. The grade points (GP) for each credit hour are assigned on a scale of A = 4, B = 3, C = 2, D = 1, and F = 0. The grade points earned for a course are computed by multiplying the value of the letter grade by the course credit hours. The cumulative grade point average is obtained by dividing the total number of points earned to date by the total number of hours attempted.

The following practices guide the imposition of probation or suspension:

Probation: (1) An academic average of 2.000 is required for graduation. Probation is used to warn the student that his performance is below that necessary for him to achieve the necessary grade point average for graduation. It is desirable for the student to remove his probation in one semester. (2) In order to be eligible to hold an elected or appointed office of either a governmental, athletic, or managerial character in any student organization or activity, a student must have no less than a cumulative 2.000 average. A student on probation will be ineligible to participate in any athletic or other activity representing the College on either an intercollegiate or club level and will be ineligible to serve as a working staff member of any student organization recognized by the College. Authority is vested in the Dean of the College, however, to remove the restriction on activities, in whole or part, for individual cases of academic probation. (3) The academic record of a student who has been placed on probation is stamped “probation.” The record of a freshman who has fallen to probationary standing shall be marked “special probation.”

Suspension: (1) Suspension is a state of enforced withdrawal from the College. A student who has been on probation (or special probation as defined below) for three consecutive semesters shall be suspended, except as provided below. (2) No student on probation shall be suspended at the end of a semester in which he earns a grade point average for that semester of 2.000 or higher. (3) No freshman will be placed on suspension without having been on proba-
tion for the immediately preceding semester. (4) The record of a student to whom rule 2 or 3 of this section has been applied shall be stamped "special probation" and that designation shall have the same effect as "probation." (5) A student who has failed to earn at least six grade points in a regular semester, no matter what his grade point total, shall be suspended, except that freshman shall not be subject to this rule. (6) A student who is under suspension may not attempt to reinstate himself through courses taken in the Division of Extension and General Studies or through the Home Study Department. (7) A student on suspension for the first time may be granted special readmission 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. A student who has been re-admitted under this procedure will be regarded as still under suspension during the semester following his special readmission. Courses taken to establish eligibility for readmission to George Mason College must be approved by the Dean of the College. (8) A student who has been reinstated after one suspension will be permanently excluded if he again becomes subject to suspension.

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

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 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. Catalogue 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.

RESIDENCE REQUIREMENTS.—A candidate for a degree at George Mason College must have been in residence for one full session (two semesters) in this
College, and must present on the application for the degree no less than thirty semester-hours of work earned at George Mason. The candidate's last year (two semesters) of work must be performed in residence here.

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

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

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

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.

FOREIGN LANGUAGE PLACEMENT.—All students who have studied French, German, or Spanish in high school and who intend to continue in the same language at George Mason College must take a language placement test. The placement tests for students entering in the fall of 1968 will be administered during registration week at a time to be announced. Students should take the placement test unless they are positive that they will not continue the language begun in high school.

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

In the 1968 Summer Session one three semester-hour course in a review of elementary French and one three semester-hour course in a review of elementary Spanish will be available. These courses are intended to upgrade the language ability of students who plan to enter a regular session of George Mason College with a high school record which shows at least the required minimum of two years of high school language but whose actual ability is not strong enough to let them take the sophomore level course successfully.

GEORGE MASON COLLEGE ADVANCED PLACEMENT PROGRAM

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

DEPARTMENTAL ADVANCED PLACEMENT PROGRAM WITHOUT CREDIT.—Entering first semester freshmen who do not qualify under the above provisions may establish their eligibility for admission to higher level courses on the basis of placement examinations prepared and administered by those departments desiring to participate. Such examinations shall conform to College policy, shall be adequate to evaluate the competence and preparation of freshmen in their respective areas and to afford a reliable base for assigning them to advanced courses.

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

ACADEMIC HONORS

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

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

SCHEDULE OF CLASSES

A schedule of classes will be available before registration at the start of each semester. The College reserves the right to change the schedule and to adjust individual section enrollments as required.
Academic Programs

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 nine areas: biology, business and public administration, chemistry, English, French, history, mathematics, physics, and Spanish. Courses of study leading to the Bachelor of Science degree with the major in biology, and a Bachelor of Science degree in Education with the major in elementary education are also available. Students desiring to go into engineering may obtain their first two years of study at the College. For those wishing to enter into a nursing career, numerous courses are offered preparatory to further training elsewhere in this specialized area.

SUMMER SESSION.—Information concerning George Mason College Summer Session is presented in a separate publication which is available in late March or early April.

MAJOR IN BIOLOGY.—The shortage of persons qualified to work in the life sciences, including the preparation for medicine, is recognized by such organizations as the United Nations and the United States Department of Health, Education, and Welfare. The program in biology is designed to meet some of these varied needs.

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

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

MAJOR IN ELEMENTARY EDUCATION.—The program includes courses and activities designed to: (1) obtain certification in Virginia as a teacher of Grades 1-7, (2) meet standards developed by regional and national agencies for accreditation of teacher programs, and (3) meet other qualitative standards considered important, including an academic field of concentration. Positions for which students qualify through this program comprise the majority of all public school positions, and afford opportunity for developing many specialities through future graduate study.
MAJOR IN ENGLISH.—Studies in this field provide basic education in language and literature and prepare students to meet state and national needs for teachers, to enter graduate schools, to enter writing positions in national agencies, in mass media, and in entertainment media. The major in English has also been traditionally a popular field of concentration for students seeking a general liberal arts education.

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

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

MAJOR IN MATHEMATICS.—This program provides students with the training necessary to enable them to begin careers as mathematicians, statisticians, and computer scientists in industry, or to enter graduate schools for further study in mathematics.

MAJOR IN PHYSICS.—The major in physics is intended to prepare students to pursue careers in physics, in industry, and government, and to prepare students for graduate studies. A modified program is also available for those who wish to qualify for teaching physics in secondary schools.

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

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

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.

BACHELOR OF ARTS

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

II. Social and Behavioral Sciences .................................. 12

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

III. Mathematics and Natural Sciences ................................ 11

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

IV. Non-Western Studies Proviso .................................... 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. History 451: East Asian Civilization
   History 452: East Asian Civilization
   History 441: The Rise of Russia
   History 442: Modern Russia and the Soviet Union
   History 361: Latin-American History: The Colonial Era
c. Religion 204: The Religions of The World

The courses meeting this requirement may also be presented in partial fulfillments of requirements stated in Sections I and II.

V. Major

Credits as specified by fields.

VI. Total minimum semester-hours

The new graduation requirements for the B.A. degree will become effective for all freshmen entering in the fall of 1968 or thereafter and for all transferring students graduating in June 1972 or later. Students currently enrolled and transfer students who will graduate before June 1972 may elect to fulfill either the new or old requirements.

BACHELOR OF SCIENCE

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

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

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

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

V. At least 12 semester-hours in English.

VI. Total minimum semester-hours, 120.

BACHELOR OF SCIENCE IN EDUCATION

Because of the nature of this program, specific items are not listed here but are shown in detail including the minimum requirement of 126 semester-hours on pages 43 and 44.

ENGINEERING

Two Years Only

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

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</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 114</td>
<td>4</td>
</tr>
<tr>
<td>Drawing 103, 104: Engineering Graphics I, II</td>
<td>4</td>
</tr>
<tr>
<td>Electives (restricted), Fall Semester</td>
<td>3</td>
</tr>
<tr>
<td>Physics 104: General Physics I, Spring Semester</td>
<td>3</td>
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</tbody>
</table>

Total 32

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester-hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 201 and 202</td>
<td>8</td>
</tr>
<tr>
<td>Physics 205, 206: General Physics II, III</td>
<td>10</td>
</tr>
<tr>
<td>Mechanics 210: Statics</td>
<td>3</td>
</tr>
<tr>
<td>Mechanics 211: Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>Electives (restricted)</td>
<td>9</td>
</tr>
</tbody>
</table>

Total 33

PROFESSIONAL SCHOOL ENTRANCE REQUIREMENTS

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

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

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

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

Courses and Major Requirements

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 (as Biology 101-102) indicates that the course extends throughout a session of two semesters, and that both semesters must be completed before the course may count toward a degree.

A double number separated by a comma indicates that the course extends throughout a session of two semesters and that the first semester may be taken by itself. Unless otherwise specified, the second semester may also be taken by itself.

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 number and variety of courses will be increased as needed. No course listed will be offered, however, for which there is insufficient enrollment.

The credit in semester-hours is shown in brackets in each course description. [3]
REQUIREMENTS FOR THE MAJOR

A minimum of thirty-two semester-hour credits in biology is required for a B.A. degree with a major in biology. These must include Biology 101-102 (eight credits), Biology 311 (four credits), and at least one course from each of the four major subdivisions of the department (denoted by the second figure, 2-3, 4-5, 6-7, and 8, in the course numbers). They may include Anthropology 101 and biochemistry when offered. Courses related to the major must include Chemistry 101-102; it is recommended that they also include organic chemistry, physical chemistry, college physics, and calculus.

To receive a B.S. degree with a major in biology a minimum of forty-four semester-hour credits in biology is required. These must include the same biology and chemistry courses as for the B.A. degree. Additional minimum requirements are: six credits in mathematics; one course beyond the 201-202 level in one language, or, the 201-202 level in one language plus one year in another; twelve credits in electives exclusive of the natural sciences and mathematics. Elective courses in organic chemistry, physical chemistry, college physics, calculus, and statistical analysis are strongly recommended. Anthropology 101 and biochemistry may be counted as biology credits.

Biology 101-102: GENERAL BIOLOGY. [8]
The study of living organisms: their origin and types; the principles of metabolism, growth, reproductions, heredity, adaptation and evolution. Three lecture hours, three laboratory hours.

Biology 221: VERTEBRATE ZOOLOGY. [4]
Prerequisite: Biology 101-102. Study of the phylum Chordata, emphasizing homologous body structures in the various vertebrate classes and their relationship to the functional demands of habit and environment in each class. Two lecture hours, six laboratory hours.

Biology 222: VERTEBRATE EMBRYOLOGY. [4]
Prerequisite: Biology 101-102. A comparative study of the origin and development of various tissues and organs of the vertebrates. Two lecture hours, six laboratory hours.

Biology 242: PLANT ECOLOGY. [4]
Prerequisite: Biology 101-102. Plant associations and formations and their successions in North America. Three hours lecture, three hours laboratory.
Biology 243: TAXONOMY OF FLOWERING PLANTS. [4] (Offered in alternate years.)
Prerequisite: Biology 101-102. A study of the principles of classification and identification of flowering plants (Anthophyta) with emphasis on the local flora. *Three hours lecture, three hours laboratory.*

Prerequisite: Biology 101-102. Fundamentals of the morphology, physiology, and biochemical characteristics of bacteria, rickettsia, and viruses. *Three hours lecture, three hours laboratory.*

Biology 311: GENERAL GENETICS. [4]
Prerequisite: Biology 101-102. A study of the basic principles of heredity and the modern developments in the field. *Three hours lecture, three hours laboratory.*

Biology 331: INVERTEBRATE ZOOLOGY I. [4]
Prerequisite: Biology 101-102. Survey of the invertebrate phyla, excluding the Arthropods, to show the morphology, phylogeny, and general biology of these groups. *Three hours lecture, three hours laboratory.*

Prerequisite: Biology 101-102. Survey of the Arthropods, with emphasis on the insects (class Hexapoda). *Three hours lecture, three hours laboratory.*

Biology 341: PLANT MORPHOLOGY. [4] (Offered in alternate years.)
Prerequisite: Biology 101-102. Origin and development of organs and tissue systems of plants, with phylogenetic comparisons but emphasizing the vascular plants. *Three hours lecture, three hours laboratory.*

Biology 361: CELLULAR PHYSIOLOGY. [4]
Prerequisite: Biology 101-102 and Chemistry 101-102. Study of the fundamental physiological properties and the correlated anatomy of cells. *Three hours lecture, three hours laboratory.*

Prerequisite: Biology 101-102. Correlated study of the anatomy and normal functions of animal organ systems, with special reference to those of man. *Three hours lecture, three hours laboratory.*

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

Biology 499: SPECIAL PROBLEMS IN BIOLOGY. [Two hours credit each semester]
Prerequisite: Enrollment is restricted to senior majors in biology with approval of instructor. Laboratory or field investigation under the guidance of a member of the staff. Usually the student will review the literature and plan the research procedures during the first semester and perform the research during the second semester.
DEPARTMENT OF CHEMISTRY

Professors Walter (Chairman), Krug
Associate Professor Feinstein
Assistant Professor Cozzens
Instructors Hawkins, Mushrush, Warner

REQUIREMENTS FOR THE MAJOR

The minimum number of semester-hours for a major in chemistry is thirty-two and must include Chemistry 101-102, 213-214, 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.

Chemistry 101-102: GENERAL CHEMISTRY AND QUALITATIVE ANALYSIS. [8]
The basic facts and principles of chemistry. The properties and uses of the more important metallic and non-metallic elements and their uses in industry. The laboratory work in the second semester includes qualitative analysis. Three class hours, three laboratory hours.

Chemistry 213-214: ORGANIC CHEMISTRY. [8]
Prerequisite: Chemistry 101-102. The theoretical, synthetic, industrial and biological aspects of the chemistry of carbon compounds. Three class hours, three laboratory hours.

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

Chemistry 331: PHYSICAL CHEMISTRY I. [3]
Prerequisite: Chemistry 101-102, Math 113, 114. Prerequisite or corequisite: Physics 101-102 or permission of instructor. 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 class hours.

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

Chemistry 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 year-long introduction to laboratory practices and theories of experimental physical chemistry. Three laboratory hours.
Chemistry 337: PHYSICAL CHEMISTRY LABORATORY II. [1]

Prerequisite or corequisite: Chemistry 331. Continuation of Chemistry 336. Three laboratory hours.

Chemistry 422: INSTRUMENTAL ANALYSIS. [4]

Prerequisite or corequisite: Chemistry 331. This course presents 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 class hours, six laboratory hours.

Chemistry 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.

Chemistry 461: INTRODUCTORY BIOCHEMISTRY. [3]

Prerequisite: Chemistry 213-214. Chemistry and intermediary metabolism of carbohydrates, lipids, proteins, and nucleic acids. Interrelations among the carbon, nitrogen, and energy cycles. Three class hours.
DEPARTMENT OF EDUCATION

Professor Gibson (Chairman)
Associate Professor Dinnan
Assistant Professors Aebischer, Spuhler

REQUIREMENTS FOR THE MAJOR

The Teacher Education Program admits students on an individual selective basis and provides for continuous review of their progress to assure that those graduating as teachers can be fully recommended for their role in directing the learning activities of children and youth.

TEACHING IN HIGH SCHOOL

The program for teachers in high school requires as a part of the Bachelor of Arts Degree, the completion of eighteen (18) semester-hours of work as follows: Education 301, 311, 321, 322 and 411 (Student Teaching). In addition to or as a part of B.A. requirements in the College, work taken must include American history, four (4) semester-hours of health and physical education, twelve (12) semester-hours in a combination of science and mathematics. Also recommended are courses in economics and speech.

TEACHING IN ELEMENTARY SCHOOL

The program for teachers in elementary school is indicated in the listing of requirements given in a typical recommended sequence, as follows, totalling 126 hours or more in the degree of Bachelor of Science in Education.

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>2nd Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
</tr>
<tr>
<td>Eng. 101</td>
<td>3 Eng. 102</td>
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<tr>
<td>Psych.</td>
<td>3 Psych.</td>
</tr>
<tr>
<td>For. Lang.</td>
<td>3 For. Lang.</td>
</tr>
<tr>
<td>History 101</td>
<td>3 Econ. 101</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 Geography</td>
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</table>

| Sophomore            |                    |
| Eng. 201             | 3 Eng. 202         |
| For. Lang.           | 3 For. Lang.       |
| Health               | 2 Health & Phys. Ed.|
| Nat. Science         | 4 Nat. Science     |
| Hist. 121            | 3 Ed. 301          |
|                      | Total 15           |

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University of Virginia

1st Semester

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child. Lit.</td>
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</tr>
<tr>
<td>For. Lang.</td>
<td>0-3</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
</tr>
<tr>
<td>Ed. 311</td>
<td>3</td>
</tr>
<tr>
<td>Elec. or</td>
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</tr>
<tr>
<td>Concentration</td>
<td>3-6</td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>Math. for the Elem. Teacher</td>
<td>3</td>
</tr>
<tr>
<td>Ed. 312</td>
<td>3</td>
</tr>
<tr>
<td>Ed. 314</td>
<td>3</td>
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<tr>
<td>Elec. or</td>
<td></td>
</tr>
<tr>
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</table>

Total 15

2nd Semester

<table>
<thead>
<tr>
<th>Subject</th>
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<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>5-8</td>
</tr>
</tbody>
</table>

Total 15

Summer

<table>
<thead>
<tr>
<th>Subject</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Ed. 410</td>
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</tr>
<tr>
<td>Science for Elem. Teacher</td>
<td>3</td>
</tr>
<tr>
<td>Music for Elem. Teacher</td>
<td>3</td>
</tr>
<tr>
<td>English</td>
<td>3</td>
</tr>
<tr>
<td>Elec. or</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>12</td>
</tr>
</tbody>
</table>

Total 14

Senior

<table>
<thead>
<tr>
<th>Subject</th>
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<tbody>
<tr>
<td>Biology (Chemistry)</td>
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<tr>
<td>Chemistry (Mathematics)</td>
<td>22</td>
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<tr>
<td>English</td>
<td>12</td>
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<tr>
<td>Foreign Language</td>
<td>15</td>
</tr>
<tr>
<td>History</td>
<td>24</td>
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<tr>
<td>Mathematics</td>
<td>24</td>
</tr>
<tr>
<td>Natural Science (must include eight (8) semester hours in each of three sciences)</td>
<td>22</td>
</tr>
<tr>
<td>Physics (Mathematics)</td>
<td>22</td>
</tr>
<tr>
<td>Psychology</td>
<td>21</td>
</tr>
<tr>
<td>Social Studies (chosen from Hist. 102, 122; Econ. 102; Geog.; Gov't. 101; and Psych. 203, 401)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total 15

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

Biology (Chemistry) 22
Chemistry (Mathematics) 22
English 12
Foreign Language 15
History 24
Mathematics 24
Natural Science (must include eight (8) semester hours in each of three sciences) 22
Physics (Mathematics) 22
Psychology 21
Social Studies (chosen from Hist. 102, 122; Econ. 102; Geog.; Gov't. 101; and Psych. 203, 401) 12
Education 301: EDUCATION FOUNDATIONS AND PRINCIPLES. [3]
Prerequisite to all Education courses. Major movements, and contributors to the evolution of the role of teacher and school; relationship of school purposes and curricula; philosophical and sociological emphases in historical perspective.

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

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

Education 313: SCIENCE FOR THE ELEMENTARY TEACHER. [3]
Prerequisites: Forty-five semester-hours of college credit including eight semester-hours of science and admission to the Program for Elementary Teachers. An overview of the subject matter, curriculum sequence, materials, and procedures involved in the science program in the elementary school.

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

Education 315: CHILDREN'S LITERATURE. [3]
Prerequisites: Sixty semester-hours of college credit, including twelve semester-hours in English, and admission to the Program for Elementary Teachers. Survey of children's literature, including historical development, types, representative authors and illustrators, and principles of critical analysis through study of selected works. Includes study of reading habits and interests of children Grades 1-7, together with techniques for story telling and the presentation of literature to children.

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

Education 322: USE OF TEACHING MATERIALS. [3]
Prerequisite or corequisite: Education 314 or 321. Teaching materials and their use; develops understandings and skills essential to wise selection and use.

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

Education 411: STUDENT TEACHING IN THE SECONDARY SCHOOL.

Prerequisites: Education 321, ninety-three semester-hours counting toward degree, grade points in George Mason credit in total and in professional education equaling two for each semester-hour enrolled in. An organized program including observation of pupils and teachers in high school, participation in teachers' activities subsidiary to teaching, and actual teaching. Conducted in a public school, the experience provided will be in a grade and subject field(s) consistent with the certification sought by the individual prospective teacher. Half-day for one semester.

HEALTH

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

Health 301: HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY TEACHER. [2]
Prerequisites: Forty-five semester-hours of prior credit including two semester-hours in physical education or the equivalent and admission to the Teacher Education Program. An overview of the subject matter, curriculum sequence, materials and procedures involved in elementary school health and physical education. Includes principles for the maintenance of healthful conditions in the classroom.

PHYSICAL EDUCATION

A variety of activities taught for physical conditioning and recreational values. Instruction in the techniques, rules, and strategy of play in three hours of activity each week. Can not be counted within the 120 hours necessary for the B.A. degree. May be counted within the 126-129 hours required for the B.S. in Education degree.

GEORGE MASON COLLEGE

DEPARTMENT OF HUMANITIES

Associate Professor H. M. Turner
Assistant Professors McDaniel, McDermott (Program Coordinator), Shea
Lecturers Hartley, Yance

ANTHROPOLOGY

Anthropology 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.

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

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

ART

Art 101, 102: ART APPRECIATION. [3, 3]
Prerequisite: Art 101 is prerequisite for Art 102. A general introduction to
principles of art by means of a study of periods, styles and great personalities
in painting, sculpture and architecture from prehistoric times to the present.
First semester: Prehistoric through medieval. Second semester: Renaissance
through modern.

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

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

MUSIC

Music 101: PRINCIPLES OF MUSIC APPRECIATION. [3]
An introduction to music appreciation through formal and aesthetic principles.
Rhythmic, melodic, and harmonic elements are examined separately and as
combined in various musical forms, culminating in the discrimination of con­
trasting styles of music. One additional hour per week is required in planned
listening.
Music 112: MASTERWORKS OF WESTERN MUSIC. [3]
An historical approach to the art music of contemporary Western civilization. A brief survey of medieval and Renaissance music leads into a more intensive study of selected masters from the eighteenth century to the present. One additional hour per week is required in planned listening.

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. One additional hour per week is required in planned listening.

Music 290: MUSIC FOR THE ELEMENTARY TEACHER. [3]
Prerequisite: Admission to the Teacher Education Program. Fundamentals of musicianship and development of musical appreciation and ability to a level appropriate for the classroom teacher; principles and illustrations of musical activities suited to children of different grade levels. One additional hour per week is required in performance practice.

PHILOSOPHY

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

Philosophy 102: INTRODUCTION TO PHILOSOPHY: 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.

Philosophy 104: INTRODUCTION TO PHILOSOPHY: LOGIC. [3]
A study of basic concepts and techniques of deduction, emphasizing the modern treatment of such topics as quantification and rules of inference, 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.

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

Philosophy 202: METAPHYSICS. [3]
Prerequisite: Sophomore standing or permission of the instructor. A study of some basic problems concerning being in general and the foundations of individual being; traditional treatments of such problems and criticism of the possibility of such knowledge. Readings from three or four leading figures such as Plato, Aristotle, Aquinas, Leibnitz, Kant, Bradley, Heidegger.

Philosophy 203: PHILOSOPHY OF RELIGION. [3]
Prerequisite: Sophomore standing or permission of the instructor. A study of classical appeals to philosophy in support of belief in God’s existence (Philo, Augustine, Anselm, Aquinas, Descartes); the fideism of Hume and the meta-
physical 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.

Philosophy 301, 302: HISTORY OF PHILOSOPHY. [3, 3]
Prerequisite: Six hours in philosophy and junior standing or permission of the instructor. A survey of leading thinkers from early Greek philosophy to the twentieth century. First semester: the Pre-Socratics, Plato, Aristotle, Augustine, Aquinas, and others. Second semester: Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel, Bergson, Whitehead, the Pragmatists, and others.

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

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

Philosophy 306: CONTEMPORARY PHILOSOPHY. [3]
Prerequisite: Six hours in philosophy and junior standing or permission of the instructor. A study of some recent contemporary philosophical movement, writing, or topic.

RELIGION

The literature of the Old Testament from its beginning to the Babylonian exile.

Beginning with the literature after the Exile, this course is devoted mainly to the New Testament.

Religion 203: 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.

Religion 204: THE RELIGIONS OF THE WORLD. [3]
A survey of the origin, development, and patterns of man's religions, including primitive and ancient national religions; the religions of India and East Asia; religions of the Near East.

http://catalog.gmu.edu
ENGLISH

REQUIREMENTS FOR THE MAJOR

Students majoring in English must complete thirty hours of course work beyond sophomore English, including English 301, 302, and six hours from English 309, 310, 313, and 314. It is recommended that seniors take either English 401 or 402.

English 101-102: COMPOSITION AND INTRODUCTION TO LITERATURE. [6]
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 the analysis and appreciation of major literary types.

English 201, 202: MASTERPIECES OF ENGLISH AND AMERICAN LITERATURE. [3, 3]
Prerequisite: English 101-102. Major literary works from various periods and genres. Such authors as Chaucer, Shakespeare, Swift, Keats, Shaw, Conrad, Forster, and Yeats are read in the first semester; such authors as Poe, Hawthorne, Melville, Whitman, James, Frost, Hemingway and Faulkner are read in the second semester.

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

The student will normally select and complete either English 201, 202 or 203, 204. After completing one semester of one course, the student may not shift to the other course without permission of the Department of Languages.

English 101-102 and 201, 202 or 203, 204 are prerequisites for all English 300 and 400 courses.

English 301, 302: SHAKESPEARE. [3, 3]
Twenty selected plays. First semester emphasizes histories and comedies; second semester, tragedies and romances.
English 305, 306: CONTEMPORARY DRAMA. [3, 3] (Offered in alternate sessions)
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.

English 309, 310: ENGLISH POETRY AND PROSE OF THE NINETEENTH CENTURY. [3, 3]
A study of the major poets and essayists of the nineteenth century. The first semester deals with the Romantic writers, the second with Victorian.

English 311: CONTEMPORARY ENGLISH POETRY AND PROSE. [3]
Reading and analysis of works by major English poets and prose writers from 1900 to the present.

English 312: CONTEMPORARY AMERICAN POETRY AND PROSE. [3]
Reading and analysis of major American poets and prose writers from 1900 to the present.

English 313: ENGLISH POETRY AND PROSE OF THE SEVENTEENTH CENTURY. [3]
English poetry and prose from 1603 to 1688, excluding Milton.

English 314: ENGLISH LITERATURE FROM 1688 TO 1798. [3]
Study of the development of English literature from the late seventeenth century to the end of the eighteenth century, with emphasis on the works of Dryden, Swift, Pope, Johnson, Boswell and Burns.

English 319: GENERAL LINGUISTICS. [3]
Study of general linguistics: phonics, phonemics, morphology, and syntax.

The history of the English novel with intensive critical reading of representative works. English 323 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 324 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, Carey, Powell and Golding.

English 327: DEVELOPMENT OF THE AMERICAN NOVEL. [3]
Study of the American novel from its beginnings to World War II, with intensive critical reading of representative works. The course deals with such authors as Cooper, Melville, Hawthorne, Twain, James, Dreiser, Hemingway, Faulkner, and Wolfe.

English 401: 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.

English 402: CREATIVE WRITING AND ADVANCED COMPOSITION. [3]
Theory and practice of expository prose; guidance in creative writing.
English 420: SELECTED STUDIES. [3]
Semester courses in special subjects of importance to English major students. Subjects will be offered as needed. Representative subjects are:
420A: English Literature of the Sixteenth Century.
420B: Chaucer.
420C: Milton.
420D: Literature of the American Renaissance.

SPEECH

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

FRENCH

REQUIREMENTS FOR THE MAJOR

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

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

Essentials of grammar; reading; oral and aural training. French is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

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

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

French 301, 302: INTRODUCTION TO FRENCH LITERATURE. [3, 3]
Prerequisite: French 201-202 or equivalent. Introductory studies in the outstanding contributions of France to world literature since the Middle Ages, considered in relation to the background of French life and culture.
French 303, 304: FRENCH CONVERSATION AND COMPOSITION. [3, 3]  
Prerequisite: French 202. Intended primarily for French majors, French 303 is required in the major program. Topical conversation and frequent written and oral reports. Both semesters provide instruction in speaking and writing French, but speaking ability is emphasized in French 303 and writing ability is stressed in French 304. (Not intended to satisfy B.A. requirements in foreign language.)

Prerequisite: French 301, 302. Renaissance poetry and prose, with emphasis on the works of Rabelais and Montaigne.

Prerequisite: French 301, 302 or permission of instructor. A study of the literature of the eighteenth century, especially the works of Montesquieu and Voltaire.

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

Prerequisite: French 301, 302 or permission of instructor. Study of the major works of such authors as Hugo, Zola, Balzac, Stendhal, Flaubert, Maupassant, and Huysmans.

Prerequisite: French 301, 302 or permission of instructor. The poetry and theater of the romantic, realist, and symbolist periods; emphasis on study of the works of Baudelaire and Rimbaud.

Prerequisite: French 301, 302 or permission of instructor. A study of the principal literary trends and authors since 1900. Analysis of the major works of such authors as Proust, Gide, Claudel, Valery, Camus, Sartre, Anouilh, Giraudoux, and Beckett.

French 315: FRENCH CULTURE AND CIVILIZATION. [3]  
Prerequisite: French 201-202 or permission of instructor. A study of the intellectual history of France and of the development of the major trends in French culture, arts, and sciences.

Prerequisite: English 319. A course in the linguistics of the French language, including phonemics and morphology. Given in English.
GERMAN

German 101-102: ELEMENTARY GERMAN. [6]
Introductory training in the speaking, understanding, reading, and writing of German. German is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

German 201-202: INTERMEDIATE GERMAN. [6]
Prerequisite: German 101-102 or equivalent. Training in the speaking, understanding, reading and writing of German. German is used in the classroom. One additional hour per week is required in the language laboratory.

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

SPANISH

REQUIREMENTS FOR THE MAJOR

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

Twenty-four semester-hours in advanced Spanish courses (not including Spanish 301, 302) are required for the Spanish major. The student who intends to major in Spanish may enroll in Spanish 305, 306 in place of Spanish 301, 302. The major student will find it useful to complete some of these related courses: English 319 (General Linguistics), English 203-204 (Western Literary Masterworks), and History 361, 362 (Latin-American History).

Essentials of grammar; reading; oral and aural training. Spanish is used increasingly in the classroom as the session progresses. One additional hour per week is required in the language laboratory.

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

Spanish 201-202: INTERMEDIATE SPANISH. [6]
Prerequisite: Spanish 101-102 or equivalent. Advanced reading and grammatical study; oral and written work. Spanish is used in the classroom. One additional hour per week is required in the language laboratory.

All 300- and 400-level courses except Spanish 320 are given in Spanish.
Spanish 301: INTRODUCTION TO SPANISH LITERATURE AND CIVILIZATION. [3]
Prerequisite: Spanish 201-202 or equivalent. Introduction to Spanish literature, with supporting study of Spanish history and culture.

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

Spanish 303, 304: ADVANCED COMPOSITION AND CONVERSATION. [3, 3]
Prerequisite: Spanish 202. The course is designed to develop fluency in the spoken language and the ability to write compositions in Spanish. Spanish 303 is intended to improve speaking ability and give some instruction in writing; instruction in writing is emphasized in Spanish 304, and further instruction in speaking is given.

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

Prerequisite: Spanish 201-202. A survey of the development of the poetry, novel, drama, essay and short story in Spanish America from the colonial period to the present. Collateral readings. Spanish majors should take this course.

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

Prerequisite: Spanish 301, 302 or 305, 306. Study of major works of nineteenth century Spanish literature, especially those of Duque de Rivas, Zorilla, Bequer, Pedro A. Alarcon, Galdos, and Pereda y Valera. Collateral readings.

Prerequisite: English 319, General Linguistics. Study of the phonology, morphology, and syntax of the Spanish language. The course is intended for students planning to teach Spanish or enter graduate work in Spanish.

Spanish 403, 404: CONTEMPORARY SPANISH LITERATURE. [3, 3] (Offered September 1969)
A study in depth of main works of Spanish literature from the “generation of ‘98” to the present, with emphasis on works of Unamunno, Valle-Inclan, Baroja, A. Machado, Benavente, Azorin, Lorca, Cela, Buero, and Goytisolo.
DEPARTMENT OF MATHEMATICS

Associate Professor Cole (Program Coordinator)
Assistant Professors R. Turner, Smith
Instructors Leftoff, Mullen
Lecturers Cabell, Clark, Fedel, Stutts

MATHMATICS

REQUIREMENTS FOR THE MAJOR

Students intending to elect mathematics as their major subject must complete Mathematics 113, 114, 203 and 204. To qualify for a Bachelor of Arts Degree in Mathematics, a student must satisfy all of the degree requirements for graduation from the College. At least two years of the foreign language requirement for the Bachelor of Arts degree (see page 35) must be taken in French, German, or Russian. In addition, the student must have a minimum of eighteen semester-hours in the following courses: Mathematics 205, 206, 207, 301, 302, 401, 402, 403, 404, 405, and 406. Students planning on graduate work in mathematics are advised to take additional courses beyond those necessary to meet minimum requirements. For such students courses 205, 206, 207, 301, 302, 401, 402, 403, and 404 are highly desirable.

Mathematics 100: BASIC MATHEMATICS.
Algebraic operations, functions and their graphs, trigonometric functions, graphs of trigonometric functions, factoring and fractions, exponents and radicals, logarithms, trigonometric relations and formulas, sets of equations, quadratic equations and equations of higher degree. A one semester course of three hours per week without credit. To be taught Summer Session 1968.

Mathematics 103: FINITE MATHEMATICS. [3]
A one semester course for liberal arts students; logic, set theory, partitions and counting, applications to behavioral sciences.

Mathematics 104: FINITE MATHEMATICS. [3]
Prerequisite: Mathematics 103. A continuation course for liberal arts students. Probability theory, vectors and matrices, linear programming and the theory of games, applications to behavioral sciences.

Mathematics 106: COMPREHENSIVE MATHEMATICS. [3]
A terminal course for liberal arts students with emphasis on ideas rather than on techniques and formal manipulation. Historical orientation, the concepts of mathematics, mathematical proof, the concept of numbers, whole numbers and fractions, irrational numbers, the axioms concerning numbers, algebra, the higher arithmetic, coordinate geometry; mathematics and modern science, the differential calculus, the integral calculus.

Mathematics 113, 114, 203: ANALYTIC GEOMETRY AND CALCULUS.
[113, 114 — 4 Credits, 203 — 3 Credits]
Prerequisite: Mathematics 113 is prerequisite for Mathematics 114; and Mathematics 114 is prerequisite for 203. Analytic geometry of a straight line, func-
tions and graphs, limits, derivative, differentials, indefinite integral, definite integral, definite integral applications, solid analytic geometry, partial differentiation, infinite series, and multiple integrals. Applications to physics.

Mathematics 204: DIFFERENTIAL EQUATIONS. [3]
Prerequisite: Mathematics 203. First order differential equations and applications, linear differential equations and applications, Laplace transforms, systems of equations, solutions in terms of power series, partial differential equations.

Mathematics 205: LINEAR ALGEBRA. [3]
Prerequisite: Mathematics 114. Vector spaces, linear independence, bases, linear transformations, matrix algebra, inner product linear equations, special topics.

Mathematics 206: ABSTRACT ALGEBRA. [3]
Prerequisite: Mathematics 114. Elements of set theory, rings, integral domains, number systems, polynomials fields, group theory.

Mathematics 207: PROBABILITY AND STATISTICS. [3]
Prerequisite: Mathematics 114. Discrete and continuous frequency distributions of one and more variables, random sampling and applications of the normal; Chi-Square, Student's, and F distributions; testing statistical hypotheses, regression and correlations.

Prerequisite: Mathematics 204. Functions of single variable, sequences, limits, continuity, fundamental theorems, mean value theorems, improper integrals, Taylor's theorem, uniform convergence, power series, Fourier series. Functions of several variables, vectors, continuity, partial differentiation, geometrical applications, implicit functions, transformations, maxima and minima, multiple integrals, line and surface integrals, Gauss', Green's, and Stokes' theorems.

Mathematics 303: MATHEMATICS FOR THE ELEMENTARY TEACHER. [3]
Prerequisite: Forty-five semester-hours of college credit, including three semester-hours of Mathematics and admission to the Program for Elementary Teachers. An overview of the subject matter, curriculum sequence, materials and procedures involved in the program of "modern" mathematics in the elementary school.

Mathematics 401: FUNCTIONS OF COMPLEX VARIABLES. [3]
Prerequisite: Mathematics 302. A development of the fundamental theories of functions of a complex variable with applications. Topics include: functions of a complex variable, Cauchy's theorem, infinite series, residue and contour integration, conformal mapping and applications, entire and meromorphic functions, periodic functions.

Mathematics 402: FUNCTIONS OF REAL VARIABLES. [3]
Prerequisite: Mathematics 302. Real number system, limits, linear point sets, functions and continuity, sequences of functions, measure theory, Riemann integral, Lebesque integral, differentiation and integration. Lebesque-Stieltjes integral.

Prerequisite: Mathematics 204. Numerical solutions of ordinary and partial differential equations, numerical differentiation and integration, significant figures, errors. Formulation of numerical problems for solution on digital computers.


ENGINEERING

Mathematics 113, 114: ANALYTIC GEOMETRY AND CALCULUS. [4, 4]
(See previous listing.)

Mathematics 201: MATHEMATICAL ANALYSIS II. [5]
Prerequisite: Mathematics 114. Linear algebra; systems of simultaneous equations, matrices, vectors, diagonalization of matrices. Calculus of several variables; partial differentiation and multiple integration, applications to engineering and physics. For engineering students.

Mathematics 202: MATHEMATICAL ANALYSIS III. [3]
Prerequisite: Mathematics 201. Calculus of several variables; completion of material in Mathematics 114: Differential equations; methods for solution of ordinary differential equations of first order and of higher order when the coefficients are constant, introduction to series solution of differential equations. For engineering students.

Mechanics 210: STATICS. [3]
Corequisite: Mathematics 201 and Physics 205. Resolution and composition of coplanar force systems by analytical and graphical methods. Analysis of forces in trusses, frames, and flexible cables. Study of friction and first and second moments of area. Introduction to shear and bending moments in beams.

Mechanics 211: DYNAMICS. [3]

Drawing 103: 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.

Drawing 104: ENGINEERING GRAPHICS II. [2]
Prerequisite: Drawing 103. Second semester topics are points, lines, planes, curved surfaces, development, and vectors. One hour lecture, three hours laboratory.
Those students who intend to pursue a graduate degree in physics or intend to terminate their studies at the bachelor's level should complete forty-one or forty-two semester-hours in physics. Those students who wish primarily to be prepared for certification to teach physics in secondary schools must elect no less than thirty-six semester-hours in physics. Physics majors are required to complete Mathematics 113, 114, 203, and 204 by the end of the sophomore year. In the junior and senior years at least three additional mathematics courses should be elected. Chemistry 101-102, or Biology 101-102 should be completed by the end of the freshman year. The language requirements should be satisfied by German or French.

Physics 101-102: INTRODUCTORY COLLEGE PHYSICS. [8]
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.

*Physics 104: GENERAL PHYSICS I. [3]
Prerequisite: Mathematics 113. Corequisite: Mathematics 114. Mechanics, wave motion, properties of matter. Three hours lecture, one hour recitation.

Physics 205: GENERAL PHYSICS II. [5]
Prerequisite: Mathematics 114 and Physics 104. Corequisite: Mathematics 203. Electricity and magnetism. Three hours lecture, four hours laboratory or supervised work.

Physics 206: GENERAL PHYSICS III. [5]
Prerequisite: Mathematics 203 and Physics 205. Physical optics, atomic and nuclear physics. Three hours lecture, four hours of laboratory or supervised work.

Physics 301: ELECTRONICS LABORATORY. [2]
Prerequisite: Physics 205 or permission of the instructor. A laboratory course in electronics; design and operational characteristics of power supplies, amplifiers, oscillators; servo mechanisms, switching, timing, and digital counting circuits. Six laboratory hours.

Physics 303: CLASSICAL MECHANICS. [3]
Prerequisite: Physics 206; Prerequisite or Corequisite: Mathematics 204. Motion

*The three-semester sequence, Physics 104, 205, 206 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.
of a particle in one, two, and three dimensions; systems of particles; noninertial coordinate systems; equations of Lagrange and Hamilton. *Three lecture hours.*

Physics 305: ELECTRICITY AND MAGNETISM. [3]
Prerequisite: Physics 206, Math 204. Electric fields, electric circuits, magnetic fields, Maxwell's equations, Lorentz forces. *Three hours lecture.*

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

Physics 402, 403: AN INTRODUCTION TO QUANTUM MECHANICS AND ATOMIC PHYSICS. [3, 3]
Prerequisite: Physics 303. 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.*

Physics 405: STATISTICAL MECHANICS AND THERMODYNAMICS. [3]
(Offered September 1969)
Prerequisite: Physics 402. Statistical methods, systems of particles, thermodynamics, macroscopic parameters, the ideal gas, kinetic theory, quantum statistics, and transport processes. *Three lecture hours.*

Physics 407, 408: SENIOR LABORATORY IN MODERN PHYSICS. [3, 2]
(Offered September 1969)

Prerequisite: Physics 402. Crystal structures, binding, lattice vibrations, the free electron model, metals, semi-conductors, super-conductivity, magnetism. *Three lecture hours.*

DEPARTMENT OF SOCIAL SCIENCES

Professor Early (Chairman)
Associate Professors Bartlett, Peterson, Pierce
Assistant Professors Dominick, Khoury, Pugh, Spindler, Vance
Instructors Gleissner, Goode, MacConkey, Skelly
Lecturers Boies, Cohen, M., Gibbons, Koffman, Marshall, McKeithen, Mellinger, Pacheco, Poland, Strawser

BUSINESS AND PUBLIC ADMINISTRATION

REQUIREMENTS FOR THE MAJOR

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

Students entering George Mason College in September 1968 or thereafter to major in Business and Public Administration should carefully plan their schedules to include the following courses to be completed before graduation: Business Administration 101, 102; 232; 261-262; 310; 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. It is recommended, however, that most hours of elective work should be devoted to subjects that will broaden and deepen the students' general education.

Candidates for the Business and Public Administration degree shall also include Economics 101, 102 and 202 or 301, plus an additional three hours of economics or Government 241.

Students who enrolled in George Mason College prior to September 1968 must present the following courses: Business Administration 101, 102; 232; 261-262; 310 and 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. However, most hours of elective work should be devoted to subjects that will broaden and deepen the students' general education.

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.

BUSINESS ADMINISTRATION

Business Administration 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.
Business Administration 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.

Business Administration 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.

Business Administration 231: INTRODUCTION TO BUSINESS. [3]
An introduction to the environmental factors of business from the viewpoint of management and its use of quantitative measures and controls. Theoretically oriented with attention to case studies and experiences designed to direct the students into analytical thinking about problems of business and economics.

Business Administration 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.

A study of statistical methods with emphasis upon business and economic data, including such techniques as collecting, classifying, tabulating, graphing, and combining data; frequency distributions; index numbers; time series; correlation; preparation of reports.

Business Administration 310: 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.

Business Administration 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.

Business Administration 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.

Business Administration 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, by labor-management relations, and by the changing status of agriculture.

Business Administration 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.

Business Administration 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.

Business Administration 434: INTRODUCTION TO ORGANIZATION AND MANAGEMENT. [3]
Prerequisite: Business Administration 231 or permission of instructor. An introductory examination of principles and problems of organization and management, including those associated with planning, organizing, directing, staffing, and controlling. The nature and techniques of planning in relation to managerial decision-making are stressed and attention is given throughout the semester to differences found in small versus large enterprises.

Business Administration 451: LABOR-MANAGEMENT RELATIONS. [3]
An examination of American trade unions and of unionism. The labor contract; the bargaining processes; the philosophy of unionism; the use of bargaining techniques for non-wage issues; the legal context of labor-management relations; the responsibilities and duties of unions and management; the political-economic impact of unionism.

ECONOMICS

Economics 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.

Economics 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.

Economics 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.

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

**Economics 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.

**Economics 302: PUBLIC FINANCE.** [3]
*Prerequisite: Economics 101, 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.

**Economics 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.

**Economics 308: 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.

**Economics 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.

**Economics 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.

**Economics 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.

**GOVERNMENT**

**Government 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.

Government 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.

Government 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.

Government 221: COMPARATIVE GOVERNMENT AND POLITICS. [3]
Prerequisite: Government 103 or permission of instructor. A comparative analysis of the backgrounds, forms, and activities of selected contemporary foreign governments, including those of England, France, West Germany, and the Soviet Union.

Prerequisite: Government 221 or permission of instructor. A study of the constitutional, political, and administrative systems of Latin America with attention to the political implications of economic development, nationalism, demography, and social reform.

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.

Government 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.

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

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

Government 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.
Students desiring to receive the Bachelor of Arts degree in history shall present thirty-three hours of history and must include three hours of historiography. A student may not present in his major field more than fifteen hours of courses that bear numbers in the 100 or 200 series and must have received grades of C or better in three-quarters of the courses in history to be counted for his degree.

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

History 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.

History 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.

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

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

History 203: THE EMERGENCE OF MODERN EUROPE. [3]
The history of western Europe from the sixteenth century to the defeat of Napoleon. The transition of political, economic, and social institutions from their medieval to their modern forms; the secularized products of religious revolt, and the world-wide expansion of European influence and patterns.

History 204: CONTEMPORARY EUROPE. [3]
A survey of the impact upon Europe of the Enlightenment and liberalism; population growth; industrialization and technology; materialism; imperialism; popular revolutionary sentiment; the collapse of the European state system; the rise of statism and authoritarianism; the revolt from positivism; the new role of reconstructed Europe in the present world.
History 221: FRONTIER HISTORY OF AMERICA. [3]
Prerequisite: History 121 or permission of instructor. The history of the expansion, exploration, settlement, and building of the frontier, with emphasis on problems of defense, communication, finance and markets; the development of institutions; the cultural and political influence of the frontier.

History 222: HISTORY OF THE OLD SOUTH. [3]
Prerequisite: Six hours of history or permission of instructor. 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.

History 321: CULTURAL AND INTELLECTUAL HISTORY OF THE UNITED STATES: 1700-1865. [3]
Prerequisite: Six hours of American history or permission of instructor. 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, liberalism, and the idea of progress.

History 322: CULTURAL AND INTELLECTUAL HISTORY OF THE UNITED STATES SINCE 1865. [3]
Prerequisite: Six hours of American history or permission of instructor. 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.

History 331: ENGLAND THROUGH THE REVOLUTION OF 1688. [3]
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.

History 332: ENGLAND FROM THE REVOLUTION OF 1688. [3]
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.

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

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

History 421, 422: DIPLOMATIC HISTORY OF THE UNITED STATES. [3, 3]
Prerequisite: History 121, 122 or permission of instructor. 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.

History 427: AMERICAN ECONOMIC HISTORY. [3]
Prerequisite: History 121, 122 or permission of instructor. 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.

History 431: TUDOR AND STUART ENGLAND. [3]
A history of England from the Battle of Bosworth Field to the revolutionary Act of Settlement of 1701.

History 441: THE RISE OF RUSSIA. [3]
Prerequisite: History 101 and 102 or permission of instructor. The development of the Russian Empire and its institutions from the early Christian era to the Revolution of 1917.

History 442: MODERN RUSSIA AND THE SOVIET UNION. [3]
Prerequisite: History 101 and 102 or permission of instructor. Causes of the revolution, the rise of Bolshevism, Lenin's leadership and the formation of the Soviet Union, and the economic, political, and social developments in the U.S.S.R. under Stalin and his successors.

History 451: EAST ASIAN CIVILIZATION. [3]
Prerequisite: Six hours of history or permission of instructor. The histories of China, Japan, Korea, and North Vietnam prior to the arrival of the Europeans.

History 452: EAST ASIAN CIVILIZATION. [3]
Prerequisite: Six hours of history or permission of instructor. The histories of China, Japan, Korea and related Asian areas after the arrival of the Europeans in the nineteenth century.

History 480: HISTORIOGRAPHY. [3]
Prerequisite: Open only to senior majors in history. A student may not present more than six hours of historiography for graduation credit. Intensive reading and lectures into at least one of the following fields: Hist. 480A, AMERICAN HISTORIOGRAPHY; Hist. 480B, EUROPEAN HISTORIOGRAPHY, to include the preparation of a major research paper to acquaint the student with techniques and problems of historical research and writing.
PSYCHOLOGY

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.

Psychology 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.

Psychology 202: PERSONALITY THEORY. [3]
Prerequisite: Psychology 101-102 or permission of instructor. An introduction to classical and contemporary theories of personality and a comparative evaluation of major theories in terms of relevant research studies. Journal and other literature is used to introduce research methods and problems.

Psychology 203: DEVELOPMENTAL PSYCHOLOGY: 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.

Psychology 204: DEVELOPMENTAL PSYCHOLOGY: 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.

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

Psychology 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.

Psychology 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.

Psychology 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.

Psychology 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.

Psychology 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.

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

S O C I O L O G Y

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 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.

Sociology 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.

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

Sociology 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.

Sociology 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.
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Margaret M. Maliniak
Phyllis M. Maloy
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Second Semester, 1966-1967

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Claudia M. Phillips
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Mary H. Stock
Robert H. Sylvester
Leah Tepper
Barbara J. van der Vate
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Randall P. Abbott
Andrew C. Conlyn, Jr.
Peter C. Forame
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