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# Academic Calendar 1983–1984

## Fall Semester 1983

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, March 1</td>
<td>Last day for filing undergraduate admissions applications for Fall Semester, 1983</td>
<td>Friday, August 15</td>
<td>Fall registrations canceled for early registered students who have not made arrangements for payment with Cashier (canceled students who do not re-register for fall classes are assessed a $20 administrative fee)</td>
</tr>
<tr>
<td>Sunday, May 1</td>
<td>Last day for filing Graduate School admissions applications for Fall 1983</td>
<td>Friday, August 19</td>
<td>BIOL 124–125 examination for nurses and music competency placement tests</td>
</tr>
<tr>
<td>Friday, June 3</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Saturday, August 20</td>
<td>Choral audition (by appointment)</td>
</tr>
<tr>
<td>Tuesday, June 7</td>
<td>Orientation programs and placement testing for undergraduates; early registration for</td>
<td>Monday and Tuesday,</td>
<td>Welcoming days, orientation programs</td>
</tr>
<tr>
<td>through Thursday,</td>
<td>certain newly admitted students (by invitation only), English composition proficiency</td>
<td>August 22–23</td>
<td>for new faculty and for certain newly admitted students (by invitation only); English composition proficiency examination and mathematics placement testing (Monday only). Foreign Language placement testing August 24, 25 and 26.</td>
</tr>
<tr>
<td>June 9</td>
<td>exam (Thursday only)</td>
<td>Monday, August 22</td>
<td>Music major auditions and choral auditions. Choral auditions (by appointment)</td>
</tr>
<tr>
<td>Wednesday, June 8</td>
<td>Miller Analogies Test (MAT)</td>
<td>Monday, August 22</td>
<td>Registration (for times and priorities see Schedule of Classes)</td>
</tr>
<tr>
<td>Saturday, June 11</td>
<td>Graduate Record Examination (GRE)</td>
<td>through Thursday,</td>
<td></td>
</tr>
<tr>
<td>Saturday, June 18</td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>August 25</td>
<td></td>
</tr>
<tr>
<td>Monday, June 20</td>
<td>Law School Admission Test (LSAT)</td>
<td>Wednesday, August 24</td>
<td></td>
</tr>
<tr>
<td>Friday, July 1</td>
<td>Earliest date for submission of undergraduate application for Spring and Fall semesters, 1984</td>
<td>Thursday, August 25</td>
<td>Music major auditions (by appointment)</td>
</tr>
<tr>
<td>Monday, July 4</td>
<td>Independence Day observed; University closed</td>
<td>Thursday, August 26</td>
<td>Choral auditions (by appointment)</td>
</tr>
<tr>
<td>Friday, July 8</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Saturday, August 27</td>
<td>Extra schedule adjustment day.</td>
</tr>
<tr>
<td>Thursday, July 14</td>
<td>Last day for taking Nursing proficiency exams for academic year 1982–83</td>
<td>Monday, August 29</td>
<td>Chamber orchestra and symphonic winds auditions (by appointment)</td>
</tr>
<tr>
<td>Tuesday through</td>
<td>Orientation program and early registration for certain newly admitted students (by invitation only)</td>
<td>Monday through Friday</td>
<td>First day of classes</td>
</tr>
<tr>
<td>Thursday, July 12–14</td>
<td>August 29–September 2</td>
<td>Foreign language placement testing</td>
<td></td>
</tr>
<tr>
<td>Monday, July 18</td>
<td>Start counseling and registration for Fall Extended Studies enrollees</td>
<td>Saturday, September 3</td>
<td></td>
</tr>
<tr>
<td>Monday, September 5</td>
<td>Tuesday, September 6</td>
<td>Chamber orchestra and symphonic winds auditions (by appointment)</td>
<td></td>
</tr>
<tr>
<td>Tuesday, September 6</td>
<td>Tuesday, September 6</td>
<td>Labor Day; University closed</td>
<td></td>
</tr>
<tr>
<td>Friday, July 22</td>
<td>Summer master's theses due in Office of the Graduate Dean</td>
<td>Tuesday, September 6</td>
<td>Last day for adding new courses (except those meeting only once a week)</td>
</tr>
<tr>
<td>Friday, August 5</td>
<td>Tuition and fees due for early-registered students</td>
<td>Thursday, September 6</td>
<td>Last day for a full tuition refund (less $20 fee)</td>
</tr>
<tr>
<td>Saturday, August 6</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Thursday, September 9</td>
<td>Last day to pick up Winter bachelor's degree applications at the office of the Registrar</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
<td></td>
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<tr>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
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</tr>
<tr>
<td>Tuesday, September 13</td>
<td>Last day for adding those new courses which meet only once a week</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, September 13</td>
<td>Last day for a partial tuition refund—second week</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday, September 14</td>
<td>Second deferred tuition payment due</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, September 16</td>
<td>Last day for filing Winter degree and certificate applications (master's) in office of the Graduate Dean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, September 20</td>
<td>Last day for partial tuition refund—third and final week</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, September 20</td>
<td>Last day for dropping a course without incurring a grade of F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, September 23</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday, September 28</td>
<td>Teacher Education Screening Committee (TESC) math and writing exams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, October 1</td>
<td>Last day to apply for Acceptance to Junior Standing in the School of Business Administration for Spring 1984</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, October 1</td>
<td>Law School Admission Test (LSAT), and Medical College Admission Test (MCAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, October 1</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunday, October 9 - Tuesday, October 11</td>
<td>Recess (Note: Monday classes and laboratories meet on Wednesday this week only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday, October 12</td>
<td>Monday classes and laboratories meet on Wednesday at Monday scheduled times and places. Wednesday scheduled classes and laboratories do not meet this week</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, October 14</td>
<td>Third deferred tuition payment due</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, October 15</td>
<td>Graduate Record Examination (GRE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday, October 20</td>
<td>Teacher Education Screening Committee (TESC) math and writing exams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, October 22</td>
<td>Graduate Management Admission Test (GMAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday, October 27</td>
<td>Spring Semester Schedule of Classes (registration calendar) published. Mail-in/hand-in registration commences for designated categories of students the day after schedules are distributed. For times and priorities, see Schedule of Classes.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, November 1</td>
<td>Last day for filing Graduate School admissions applications for Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, November 1</td>
<td>Last day for filing undergraduate admissions applications for Spring Semester 1984 for International Students (non-immigrant status)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, November 4</td>
<td>Music major auditions (by appointment)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, November 15</td>
<td>Deadline for application for junior standing for Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday, November 16</td>
<td>Last day for financial aid applications for Spring 1984</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, November 18</td>
<td>Winter master's theses due in office of the Graduate Dean</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, November 19</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday, November 24</td>
<td>Thanksgiving recess; University closed</td>
<td></td>
<td></td>
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<tr>
<td>Monday, November 28</td>
<td>Start counseling for Spring Extended Studies enrollees</td>
<td></td>
<td></td>
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<tr>
<td>Thursday, December 1</td>
<td>Last day for filing undergraduate admissions applications for Spring Semester 1984 (International Student deadline November 1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, December 3</td>
<td>Law School Admission Test (LSAT)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, December 9</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, December 10</td>
<td>Last day of classes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday, December 10</td>
<td>Graduate Record Examination (GRE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday, December 12</td>
<td>Examinations (for times, see Schedule of classes)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday, December 19</td>
<td>Exam (for early registered students. Last day for mail-in and hand-in early registration for mail-in and hand-in early registration)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday, December 15</td>
<td>University closed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday, December 20</td>
<td>Inter-semester break begins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday, December 23</td>
<td>University closed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January 1</td>
<td>University closed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
<td>Note</td>
<td></td>
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</tr>
<tr>
<td>Monday, January 9</td>
<td>Spring registrations cancelled for early registered students who have not made arrangements for payment with cashier (cancelled students who do not reregister for Spring are assessed a $20 administrative fee)</td>
<td>Wednesday, February 1 - Last day to apply for Acceptance to Junior Standing in the School of Business Administration for Fall 1984</td>
<td></td>
</tr>
<tr>
<td>Friday, January 13 and Monday, January 16</td>
<td>Welcoming day, orientation programs and early registration for new undergraduates. English composition proficiency examination and foreign languages, music auditions and mathematics placement testing for undergraduates</td>
<td>Wednesday, February 1 - Last recommended date for filing financial aid applications for Fall 1984</td>
<td></td>
</tr>
<tr>
<td>Friday, January 13</td>
<td>BIOL 124-125 examinations for nurses; music competency placement tests</td>
<td>Friday, February 3 - Test of English as a Foreign Language (TOEFL)</td>
<td></td>
</tr>
<tr>
<td>Saturday, January 14</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Saturday, February 4 - Graduate Record Examination (GRE)</td>
<td></td>
</tr>
<tr>
<td>Saturday, January 14 and Monday, January 16</td>
<td>Choral auditions (by appointment)</td>
<td>Monday, February 6 - Last day for adding those new courses which meet only once a week</td>
<td></td>
</tr>
<tr>
<td>Monday, January 16 through Thursday, January 19</td>
<td>Registration (for times and priorities see Schedule of Classes)</td>
<td>Monday, February 6 - Last day for partial tuition refund—second week</td>
<td></td>
</tr>
<tr>
<td>Tuesday, January 17</td>
<td>Music major auditions (by appointment)</td>
<td>Wednesday, February 8 - Last day to pick up Spring bachelor's degree applications at Office of the Registrar (must be completed and returned with fee by February 28)</td>
<td></td>
</tr>
<tr>
<td>Thursday, January 19</td>
<td>Extra schedule adjustment day for Spring classes</td>
<td>Thursday, February 9 - Second deferred tuition payment due</td>
<td></td>
</tr>
<tr>
<td>Thursday, January 19</td>
<td>Choral auditions (by appointment)</td>
<td>Friday, February 10 - Last day for filing Spring and Summer degree and certificate applications (master's) in office of the Graduate Dean</td>
<td></td>
</tr>
<tr>
<td>Saturday, January 21 and January 28</td>
<td>Chamber orchestra and symphonic winds auditions (by appointment)</td>
<td>Monday, February 13 - Last day for dropping a course without incurring a grade of F</td>
<td></td>
</tr>
<tr>
<td>Monday, January 23</td>
<td>First day of classes</td>
<td>Monday, February 13 - Last day for a partial tuition refund—third and final week</td>
<td></td>
</tr>
<tr>
<td>Monday through Friday, January 23–27</td>
<td>Foreign Language placement testing for undergraduates</td>
<td>Wednesday, February 15 - Teacher Education Screening Committee (TESC) math and writing exams</td>
<td></td>
</tr>
<tr>
<td>Saturday, January 28</td>
<td>Graduate Management Admission Test (GMAT)</td>
<td>Thursday, March 1 - Last day for filing undergraduate admissions applications for Fall Semester, 1984</td>
<td></td>
</tr>
<tr>
<td>Monday, January 30</td>
<td>Last day for adding new courses (except those meeting only once a week)</td>
<td>Thursday, March 1 - Last day for financial aid applications for freshmen and transfer students for Fall 1984</td>
<td></td>
</tr>
<tr>
<td>Monday, January 30</td>
<td>Last day for a full tuition refund (less $20 fee)</td>
<td>Thursday, March 8 - Last day for filing Graduate School admissions application for Summer Session</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Friday, March 2 - Music major auditions (by appointment)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Saturday, March 3 - Law School Admissions Test (LSAT)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thursday, March 8 - Teacher Education Screening Committee (TESC) math and writing exams</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Thursday, March 8 - Last day to pick up Summer bachelor's degree applications at Office of the Registrar (must be completed and returned with fees by March 28)</td>
<td></td>
</tr>
</tbody>
</table>

v.

http://catalog.gmu.edu
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday, March 9</td>
<td>Third deferred tuition payment due</td>
</tr>
<tr>
<td>Saturday, March 10</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>Sunday, March 11</td>
<td>Mid-semester recess</td>
</tr>
<tr>
<td>through Sunday,</td>
<td></td>
</tr>
<tr>
<td>March 18</td>
<td></td>
</tr>
<tr>
<td>Thursday, March 15</td>
<td>Deadline for application for junior standing in Nursing for Fall</td>
</tr>
<tr>
<td></td>
<td>Semester</td>
</tr>
<tr>
<td>Saturday, March 17</td>
<td>Graduate Management Admission Test (GMAT)</td>
</tr>
<tr>
<td>Monday, March 26</td>
<td>Fall Semester Schedule of Classes (registration calendar) published.</td>
</tr>
<tr>
<td></td>
<td>Mail-in/hand-in registration commences for designated categories of</td>
</tr>
<tr>
<td></td>
<td>students the day after schedules are distributed. For times and</td>
</tr>
<tr>
<td></td>
<td>priorities, see Schedule of Classes</td>
</tr>
<tr>
<td>Sunday, April 1</td>
<td>Last day for financial aid applications for Summer 1984</td>
</tr>
<tr>
<td>Friday, April 6</td>
<td>Music major auditions (by appointment)</td>
</tr>
<tr>
<td>Friday, April 13</td>
<td>Spring master's theses due in office of the Graduate Dean</td>
</tr>
<tr>
<td>Friday, April 13</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>Saturday, April 28</td>
<td>Graduate Record Examination (GRE)</td>
</tr>
<tr>
<td>Tuesday, May 1</td>
<td>Last day for financial aid applications for returning upper-classmen</td>
</tr>
<tr>
<td></td>
<td>for Fall 1984</td>
</tr>
<tr>
<td>Tuesday, May 1</td>
<td>Last day for filing Graduate School admissions applications for Fall</td>
</tr>
<tr>
<td>Monday, May 7</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>through Monday,</td>
<td></td>
</tr>
<tr>
<td>May 14</td>
<td></td>
</tr>
<tr>
<td>Saturday, May 5</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>Monday, May 7</td>
<td>Examinations (for times, see Schedule of Classes)</td>
</tr>
<tr>
<td>Saturday, May 12</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>Saturday, May 19</td>
<td>Spring commencement</td>
</tr>
<tr>
<td>Monday, May 28</td>
<td>Memorial Day observed; University closed</td>
</tr>
<tr>
<td>Tuesday, May 29</td>
<td>Summer Session begins</td>
</tr>
<tr>
<td>Tuesday, May 29</td>
<td>Music major auditions (by appointment)</td>
</tr>
<tr>
<td>Friday, June 1</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>Saturday, June 9</td>
<td>Graduate Record Examination (GRE)</td>
</tr>
<tr>
<td>Saturday, June 16</td>
<td>Graduate Management Admission Test (GMAT)</td>
</tr>
</tbody>
</table>

**Summer Session**

Summer Session consists of several terms, ranging in length from five to eight weeks, during the period May 29 through August 4. Classes are offered during both day and evening hours. For details, consult the Summer Session catalog which is available mid-March.
PROGRAMS

Degree Programs

Listed below are all of the programs currently offered by George Mason University. For a complete description of these programs please see 1982-83 catalog, pages 37-107. This addendum only contains changes and/or additions which the departments consider essential for understanding the policies and procedures for their programs.

Undergraduate

Accounting BS
American Studies BA
Anthropology BA
Area Studies BA
Art BA
Biology BA, BS
Business Administration BS
Chemistry BA, BS
Computer and Electronics Engineering BS
Computer Science BS
Dance BA, BFA
Decision Sciences BS
Early Childhood Education BS Ed
Economics BA, BS
Elementary Education BS Ed
English BA
Finance BS
Fire Administration and Technology BS
French BA
Geography BA
Geology BA
German BA
Government and Politics BA
Health Education BS Ed
History BA
Individualized Study BIS
International Studies BA
Law Enforcement BS
Management BS
Marketing BS
Mathematics BA, BS
Medical Technology BS
Music BA, BM
Park, Recreation and Leisure Studies, BS
Nursing BSN
Philosophy BA
Physical Education BS Ed
Physics BA, BS
Psychology BA, BS
Public Administration BS
Social Work BS
Sociology BA
Spanish BA
Speech Communication BA
Theatre BA
Vocational Education BS Ed

Graduate

Biology MS
Business Administration MBA
Computer and Electronics Engineering MS
Computer Science MS
Conflict Management MS
Creative Writing MFA
Economics MA, PhD
Education DA Ed
Elementary Education M Ed
English MA
Environmental Biology and Public Policy PhD
Foreign Languages MA
Geographic and Cartographic Sciences MS
Guidance and Counseling M Ed
History MA, MAT
Information Systems MS
Interdisciplinary Study MAIS
Mathematics MS
Music MA
Nursing MSN
Operations Research and Management Science MS
Physical Education MS
Psychology MA, PsyD.
Public Administration MPA, DPA
Reading M Ed
School Administration and Supervision M Ed
Secondary Education M Ed
Sociology MA
Special Education M Ed

Professional

Law JD

Certificate Programs

Cartography
Environmental Management
Gerontology
International Nursing
Nursing Administration at the Middle Management Level
Nursing Education
Psychology Technician
Teaching of English as a Second Language

Preprofessional Study

Predental
Predivinity
Prelaw
Premedical
Preveterinary
Student Information

Student Affairs

For a complete description of Student Affairs information, see the 1982-83 catalog, pp.7-14. Below is presented the most recent information regarding tuition, fees, and financial aid.

Tuition and Fees

Tuition and Fees

To undertake any form of academic study with George Mason University, an individual must be registered as a student and must pay the prescribed charges. Registration is not allowed if there are outstanding financial obligations.

The in-state tuition rate applies only to students formally classified by the University as Virginia students. New students are required to complete the Virginia Domicile Classification Form (available in the Office of Admissions) and submit it with the Enrollment Request Form. Returning students previously classified as out-of-state should also complete the form if they wish to request a change of classification.

Tuition and fees for early-registered students are due and payable at the Cashier’s office on or before August 5, 1983, and December 15, 1983. Failure to receive a bill does not waive the requirement for payment when due.

All other students must pay during the registration process, including those students registering during the ADD period. Failure to make payment at the Cashier’s office on the day of registering or adding a course during the ADD period results in a late charge of $10. Students who register and then cancel/withdraw prior to the beginning of classes or during the first week of classes are charged a $20 administrative fee.

How To Figure Semester Tuition and Fees Costs

<table>
<thead>
<tr>
<th>Tuition and Fees (per hour)</th>
<th>In-State</th>
<th>Out-of-State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hours</td>
<td>$57.50</td>
<td>$111.00</td>
</tr>
<tr>
<td>1</td>
<td>$57.50</td>
<td>$111.00</td>
</tr>
<tr>
<td>2</td>
<td>115.00</td>
<td>222.00</td>
</tr>
<tr>
<td>3</td>
<td>172.50</td>
<td>333.00</td>
</tr>
<tr>
<td>4</td>
<td>230.00</td>
<td>444.00</td>
</tr>
<tr>
<td>5</td>
<td>287.50</td>
<td>555.00</td>
</tr>
<tr>
<td>6</td>
<td>345.00</td>
<td>666.00</td>
</tr>
<tr>
<td>7</td>
<td>402.50</td>
<td>777.00</td>
</tr>
<tr>
<td>8</td>
<td>460.00</td>
<td>888.00</td>
</tr>
<tr>
<td>9</td>
<td>517.50</td>
<td>999.00</td>
</tr>
<tr>
<td>10</td>
<td>575.00</td>
<td>1,110.00</td>
</tr>
<tr>
<td>11</td>
<td>632.50</td>
<td>1,221.00</td>
</tr>
<tr>
<td>12-17</td>
<td>690.00</td>
<td>1,332.00</td>
</tr>
</tbody>
</table>

For each additional hour over 17, add $49 for In-State and $93 for Out-of-State.

Deferred Payment Plan

A deferred payment plan is available for students whose tuition and fees for the semester exceed $300. There is a $10 administrative fee for this service. Students must pay at least one-third or $300 (whichever is greater) of the tuition and fees at the initial payment, with the remaining tuition and fees payable in two equal payments. Students using the deferred payment plan must come to the Cashier’s office to make the initial payment and sign a deferred payment contract. Bills for installment payments are not prepared. Students are responsible for ensuring payment of installments on or before the due dates published. Contracts are not mailed to students.

Failure to make tuition and fees payment on or before the due date results in a late charge of $10.

Due Dates for Deferred Payments

First Semester: Second and third payments due September 14 and October 14, 1983.


Payments must be received in the Cashier’s office on or before the due date.

Checks

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

A check returned to the University by a bank results in a $10 penalty fee for the payer. Further, students who fail to make good such checks within five calendar days following notification by the business office are placed on financial suspension without further notice.

Failure to Meet Financial Obligations

Students failing to meet a financial obligation to the University are placed on financial suspension. Fines owed to libraries of institutions and participating public libraries of the Consortium for Continuing Higher Education in Northern Virginia similarly affect students’ status.

Reinstatement Fee

Students placed on financial suspension because of outstanding obligations in excess of $50 are not permitted to register in subsequent semesters until all outstanding obligations—including late charges plus a $25 reinstatement fee—have been paid.

Financial Suspension

All academic credit is withheld for students on financial suspension. This means that no transcripts of record are...
issued, no diplomas are released, and no registrations for a subsequent semester or term are permitted until outstanding obligations, including the reinstatement fee (if necessary) have been paid in full. In those instances where the outstanding financial obligation, which caused the financial suspension, is in excess of $50 dollars, a reinstatement fee of $25 is also imposed.

Refunds

If students cancel registration before the beginning of the semester or withdraw within the first five working days of the semester, their tuition and fees, less an administrative charge of $20, are refunded. Assessed penalties are nonrefundable. Tuition and fees are refunded on a graduated scale for subsequent voluntary drops and withdrawals during the second and third weeks of classes. The calculation of the amount of refund is based on the date of the drop or withdrawal form as certified by the Registrar. Hours dropped after the third week of classes must be paid for in full. The refund scale is shown below and is posted on the bulletin board at the Cashier’s office; it is the student’s responsibility to be familiar with the refund scale.

<table>
<thead>
<tr>
<th>Refund Scale</th>
<th>(per hour)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 1983</td>
<td>Spring 1984</td>
</tr>
<tr>
<td>Week 1 (100%)</td>
<td>8/29-9/6</td>
</tr>
<tr>
<td>Week 2 (66%)</td>
<td>9/7-9/13</td>
</tr>
<tr>
<td>Week 3 (33%)</td>
<td>9/14-9/20</td>
</tr>
<tr>
<td>In State</td>
<td>1/23-1/30</td>
</tr>
<tr>
<td>Out of State</td>
<td>1/31-2/6</td>
</tr>
<tr>
<td></td>
<td>2/7-2/13</td>
</tr>
<tr>
<td>$57.50</td>
<td>$38.50</td>
</tr>
<tr>
<td>$111.00</td>
<td>$74.00</td>
</tr>
<tr>
<td>$19.25</td>
<td>$37.00</td>
</tr>
</tbody>
</table>

Students enrolling in off-campus courses are assessed tuition and fees at the same rates as those established for on-campus courses.

Other Required Fees

Deposits. By the end of the second week of classes, students enrolled in a chemistry laboratory course must purchase from the Cashier one laboratory card priced at $5, which covers breakage or loss of equipment. As such loss(es) occur, the card is “punched” for the cost of the item in question. Unused portions of the card which have been validated by the Chemistry Department are redeemed upon presentation to the Cashier no later than May 26, 1984.

Transcript Fee. A fee of $2 is charged for the first copy of each transcript of record requested by students, and $1 for each additional copy ordered at the same time. Payment must accompany the request.

Motor Vehicle Registration Fees. Students who park their vehicles on University property must register them with the University’s Campus Police Department and pay a fee for a parking decal. (Check with Campus Police for details.)

Credits Earned Elsewhere

A few George Mason University degree programs include academic credits which students must earn at other institutions. Students enrolling for academic credits at other institutions assume all financial responsibility for these arrangements.

Eligibility for In-State Tuition

To be eligible for reduced tuition charges, a person must have been domiciled in Virginia for a period of at least one year prior to registration for the semester for which a reduced charge is sought. A person becomes domiciled in Virginia when legally capable of establishing a domicile and present in Virginia with the unqualified intention of remaining in the state permanently.

The domicile of an unemancipated minor may be the domicile of either parent, provided, however, that if one parent has custody, the domicile of an unemancipated minor shall be the domicile of the parent having custody.

Domicile, however, is primarily a question of intent and the burden of proof of domicile is upon the student seeking the benefit of reduced tuition.

Penalties

A student who provides false information or refuses or conceals information for the purpose of achieving in-state status, or who fails to notify the University of a change of facts which might affect reclassification from in-state to out-of-state status, shall be required to pay retroactively any tuition fees which would normally have been charged and shall be subject to appropriate disciplinary action.

Financial Assistance

Financial Aid

The Financial Aid Office provides a variety of services to help students finance their education. These services include financial counseling, referral and information resources, and financial assistance. Student financial assistance consists of grants, loans, and employment; awards are based on financial need. Located in the Student Union Building, Room 354, the office is open Monday, Thursday and Friday from 8:30 a.m. until 5 p.m., and Tuesday and Wednesday until 7:00 p.m.

To apply for financial aid, each year new and currently enrolled students must obtain a copy of the George Mason University Financial Aid Application and return the completed form to the Financial Aid Office. In addition, students must complete a Financial Aid Form and forward it to the College Scholarship Service in Princeton, New Jersey, allowing at least four weeks time prior to the March 1 deadline. The application deadlines for consideration of federal and most of the state funds are as follows:

<table>
<thead>
<tr>
<th>1983-84 Academic Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen and Transfers March 1</td>
<td>1983</td>
</tr>
<tr>
<td>Senior Transfer Grant</td>
<td>1983</td>
</tr>
<tr>
<td>Upperclassmen May 1, 1983</td>
<td>1983</td>
</tr>
<tr>
<td>Summer 1984</td>
<td>1984</td>
</tr>
<tr>
<td>1984-85 Academic Year</td>
<td></td>
</tr>
<tr>
<td>Freshmen and Transfers March 1</td>
<td>1984</td>
</tr>
<tr>
<td>Senior Transfer Grant</td>
<td>1984</td>
</tr>
<tr>
<td>Upperclassmen May 1, 1984</td>
<td>1984</td>
</tr>
</tbody>
</table>

Applications received after the deadline are evaluated according to the availability of funds.

The University administers federal, state, and other aid programs as outlined below.

Students must be in compliance with Standards of Academic Progress in order to continue to receive aid.

Federal Programs

The National Direct Student Loan Program. Long-term, 5 percent interest loans from the federally-sponsored National Direct Student Loan Program are available to qualified students. Repayment begins six months after graduation and may be deferred for students entering graduate school, the Peace Corps, Vista, or military service, and three years for those temporarily disabled. Students must be enrolled at least half-time in order to qualify. Full-time is defined as six credit hours for both undergraduate and graduate students.

Supplemental Educational Opportunity Grant. A limited number of direct grants are available to undergraduate stu-
students who are at least half-time, who show financial need, and who require such assistance to attend college.

The College Work-Study Program. Funds to provide part-time work opportunities to help meet college expenses are available to students enrolled at least half-time.

The Pell Grant (BEOG). This need-based program makes funds available to students attending eligible post-high school institutions at least half-time. Students who have received a first bachelor's degree are not eligible to apply for Basic Grants.

Federal Nursing Program. Loans from the Federal Nursing Loan Program are available to nursing students who show exceptional financial need.

Guaranteed Student Loan Program. Students with family incomes of $30,000 or less may borrow directly from lenders in order to finance educational expenses. While most of these loans are made by commercial lenders, some states are also lenders. The state lending institution for Virginia residents is the Virginia Education Loan Authority. The loan may amount to as much as $2,500 per year up to a maximum of $12,500 for one undergraduate student. The government pays the interest rate of 9 percent until the repayment period begins, six months after the student leaves school. Applications for the Guaranteed Student Loan are made directly to the lending agency, and may be made by students who are enrolled at least half-time. Virginia Education Loan Authority applications may be obtained in the Financial Aid Office.

Virginia Programs for State Residents

Virginia Loans. The state provides funds to be used for long-term, low-interest loans for eligible full-time students.

Virginia Scholarships. These scholarships are for full-time students who demonstrate financial eligibility and who have established a record of academic and personal achievement.

The Virginia College Scholarship Assistance Program (CSAP). This program uses both state and federal funds to provide aid to neediest students. Full-time undergraduate students who are legal residents of Virginia may apply for CSAP on the Virginia Financial Aid Form (VFAF). The VFAF must be received by the Virginia College Scholarship Service in Princeton, New Jersey, prior to April 15.

State Nursing Scholarships. The Bureau of Public Health Nursing provides limited scholarships to Virginia residents. These scholarships are based on need, and applications are made directly to the Bureau of Public Health Nursing and are available to graduates and undergraduates. The application deadline for students previously enrolled in a nursing program is March 1 and for new students entering a nursing program, the deadline is June 1. Applications are available in the Financial Aid Office.

Mary E. Ferguson Emergency Loan Program. Currently enrolled students may borrow funds for legitimate emergencies excluding tuition, fees, books, and supplies. Emergency loans must be repaid within 45 days; overdue payment results in a late charge of $5 for each 45 days past due. Failure to repay the loan within 45 days, without requesting an extension for a reasonable excuse, will result in financial suspension. Students financially suspended for nonpayment of an emergency loan are ineligible for any future emergency loans.

Army ROTC Scholarships

The US Army Reserve Officers' Training Corps (ROTC) offers scholarships for one, two, and three years. Applicants for the two- and three-year programs need not be enrolled in the ROTC Program prior to receipt of the scholarship. Scholarships cover tuition, fees, texts, in-class materials, and travel pay. Additionally, the student receives an allowance of $100 per month for up to 10 months of each school year. George Mason University students may participate in the Army ROTC Program offered on campus by enrolling in the Military Science (MLSC) courses. For more information, contact the Army ROTC Instructor at George Mason or call 625-4087.

Graduate Assistance

University Fellowships. A limited number of unrestricted University Fellowships are awarded competitively to full-time graduate students in all departments. These fellowships, with stipends up to $3500, are funded by the Commonwealth of Virginia and are intended to encourage and promote full-time graduate degree study by superior students.

Applications, available in the Graduate School Office, must be submitted to the Graduate School for major department review. Prospective graduate students must also have filed an application for admission to the Graduate School.

Other Fellowships. Direct fellowship awards are available from a number of foundations. Students may obtain information concerning these fellowships from the Graduate School.

Woodrow Wilson Foundation. The Woodrow Wilson Foundation provides funds for graduate fellowships to students planning college teaching careers in a liberal arts field. Although lack of funds curtailed grants in recent years, seniors interested in applying for such grants as they become available must be nominated by one of their professors in October. Consult the departmental adviser or the local Woodrow Wilson campus representative for further information.

Graduate Assistantships. The Graduate School offers graduate assistantships in the research and instructional programs of all the various graduate departments. Assistantships are available to all graduate students with degree status who carry at least six hours of graduate credit each semester. Application for a graduate assistantship is made to the chairperson of the department involved or to the Dean of the School of Business Administration. Stipends range from $3400 to $3900 for the academic year.

Virginia Graduate Scholarships. Graduate students classified as Virginia residents may receive a Graduate Scholarship to cover tuition and fees. They must be enrolled full time, be formally admitted to the Graduate School, maintain a 3.000 cumulative grade point average, and demonstrate financial need.

In-Service Training Program for Teachers. Candidates for graduate degrees may establish eligibility to receive state funds for graduate study closely related to their field of work through one of the State's Division Superintendents of Schools. Candidates may use the funds to enroll at the University in previously approved courses.

http://catalog.gmu.edu
Undergraduate Policies and Procedures

Admissions Policies and Procedures

Policies

Criteria Governing Admission from High School

Applicants for undergraduate admission are considered individually, in accordance with the following criteria:

1. Evidence of academic promise as demonstrated in previous achievement. Facility in the use of the English language and an understanding of fundamental mathematical processes are essential.
2. Complete record from an accredited secondary or preparatory school with graduation based on no fewer than 15 units (see subject matter requirements below).
3. Satisfactory scores on the Scholastic Aptitude Test given by the College Entrance Examination Board or the American College Test.
4. Ranking in the upper 50 percent of the Senior class.

These criteria and those which follow are applied flexibly to assure that applicants with unusual qualifications are given proper consideration. Personal interviews and recommendations are not required unless requested.

Degree Programs (Except Engineering, Computer Science, and Mathematics)

For admission to all undergraduate degree programs, an applicant must take the Scholastic Aptitude Test given by the College Entrance Examination Board and must present 16 units from high school, usually 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>3 1/2 units</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>3 units</td>
</tr>
<tr>
<td>Social Studies</td>
<td>1 unit</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>1 unit</td>
</tr>
<tr>
<td>Earth Science (ESCP)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Electives</td>
<td>4 units</td>
</tr>
<tr>
<td>Minimum Total</td>
<td>15 units</td>
</tr>
</tbody>
</table>

1. These units must be from Algebra I, Algebra II, Geometry, Trigonometry, Probability, and elementary calculus.
2. These units must be from Algebra I, Algebra II, Geometry.

Procedure for Admissions

Application for admission may be considered if the transfer student:

1. is not presently on social or academic probation at the last institution attended,
2. generally has an average of at least C (2.00) in the institution from which transferring,
3. has not been suspended or dismissed from another institution.

Transfer students should note the requirements shown under the heading "Credits Earned at Other Colleges."

Admission of International Students

The University accepts applications for undergraduate admission from international students. Students should apply directly to the undergraduate admissions office. Such students must meet each of the following conditions:

1. All requirements and regulations of the University, the school, and the department.
2. With the application for admission (Deadline November 1), students must present documents certifying their previous educational training and achievements; such documents should show completion of the equivalent of a U.S. high school diploma. Non-English documents must be presented in original form together with certified translations to English.
3. Students must have completed the Test of English as a Foreign Language (TOEFL) and normally attained a satisfactory level of English proficiency on both the total and subscores. Official test scores must be sent directly from Educational Testing Service. TOEFL examinations are given monthly at the University. Information concerning the time and place of the TOEFL can be obtained from the University or from:
4. Students requesting non-immigrant visas must provide a statement of financial support.
5. After acceptance, the 1-20 form is available to those who wish to secure an F-1 student visa. Students sponsored by their government are required to enter the U.S. on a J-1 visa. The IAP-66 is automatically provided by the University for J-1 Visa holders.

6. Students admitted on F-1 or J-1 visas to study at the University must register for at least the number of courses each semester (excluding summer sessions) that will qualify them as full-time students (12 credits for undergraduates). Students must meet and conform to all current regulations of the U.S. Department of Justice, Immigration and Naturalization Service.

7. Students with F-1 or J-1 visas must initially attend the educational institution which issued the Certificate of Eligibility (Form 1-20 or IAP-66). Transfer from one U.S. educational institution to another must be authorized by the U.S. Immigration and Naturalization Service. Forms are available from the international student adviser.

8. Applications for undergraduate admission should be made to the Office of International Programs insurance program must show proof of comparable coverage.

9. Students who do not enroll in the Office of International Programs insurance program must show proof of comparable coverage.

10. Questions concerning U.S. Immigration and Naturalization Service regulations should be directed to the international student adviser.

Summer Session Enrollment

Enrollment in the Summer Session does not constitute undergraduate admission to a regular (fall–spring) semester.

Extended Studies Enrollment

Extended Studies Enrollment allows qualified students who may not meet admissions criteria, or for whom these criteria are inappropriate, to enroll in any on- or off-campus course(s) without seeking admission to the University. Extended Studies Enrollees may apply for admission at any time. See the section entitled "Division of Continuing Education" for further explanation.

Procedures

Submission of Application

Application for undergraduate admission should be made to the Office of Admissions, on forms provided upon request. A nonrefundable fee of $15 must be attached when the forms are submitted.

Application Deadlines

Undergraduate applications should be submitted no later than March 1 for fall admission and December 1 for spring admission (Deadline for International students, November 1). Application deadlines are during the month of March. Students are notified of decisions in early April. Admission is contingent upon satisfactory completion of requirements and successful completion of the senior year of high school.

Test Requirements

Freshman candidates for admission are required to take the SAT or the ACT. Official test scores must be sent directly by the appropriate testing service. For further information regarding undergraduate policies and procedures, consult the 1982-83 catalog, pp. 16-24.

Below are presented changes to some of those policies resulting from activities taken by the Faculty Senate.

Changing Registration (Drop/Add)

Once registered, students may change their registration (drop/add) only by using a Schedule Change Request Form, available in departmental offices. Students must obtain the written approval of the department in which the dropped or added course is taken; all required signatures must be obtained on or before the deadlines shown below and in the Academic Calendar. Students should complete the form carefully, double-checking all section numbers. Closed–section announcements should be observed carefully. Sections closed at the end of registration will not reopen. Permission to enter a closed section must be obtained in writing from the academic department offering the course on a separate form and attached to the Schedule Change Request.

When completed, the Schedule Change Request Form must be brought to the Office of the Registrar or other announced Schedule Change Station. Schedule changes are made only on the special Schedule Adjustment Day or after classes begin.

Add

The last day for adding a course is 3 calendar weeks after and including the first day of classes. For a course that meets once a week, the add period is 2 weeks. After the dates listed in the Academic Calendar, add actions require approval by the chairperson of the academic department offering the course.

Drop

The last day for dropping a course is 3 calendar weeks after and including the first day of classes.

Withdrawal from a Semester

Upon approval by the appropriate dean, a student may withdraw from a semester after the drop period without academic penalty, but only for nonacademic reasons preventing completion of the courses. A student who withdraws from a semester after the drop period without the dean’s approval receives Fs in all courses.

Upon withdrawal, the following notation is made on the student’s permanent record: “Withdraw voluntarily for nonacademic reasons on ________” (date), ______ (week of a ______ week semester).” A list of the student’s courses follows, together with W grades.

A–B–C–No Credit

A student successfully completing English Composition and Introduction to Literature (ENGL 101, 102, 302) or Composition for Foreign Students (ENGL 100) is graded either A, B, or C; a student not attaining a level of at least C in these courses receives no credit (NC). Until a minimum grade of C is attained, these courses are not entered on a student’s permanent record, nor do they fulfill degree requirements.

Academic Standing

Information regarding academic standing can be found on p. 22 of the 1982-83 catalog. Please note the following changes.

Academic Warning

An undergraduate receives an academic warning at the end of any academic period in which the student fails to perform satisfactorily, i.e., fails to receive satisfactory grades in more than two-thirds of the credit hours undertaken during the period.

Academic Probation

An undergraduate who receives 2 warnings during any 4 consecutive academic periods of enrollment is on probation.
during the academic period of enrollment following the second
warning. (Consecutive academic periods of enrollment are
successive periods during which the student enrolled, re­
gardless of whether there were intervening periods during
which the student did not enroll.)

Suspension
A student receiving academic warnings in 2 immediately
consecutive periods of enrollment is suspended. The 2 con­
secutive periods are extended to 3 if the student attempts less
than 12 credit hours during either of those periods.
Suspension is included in a student’s permanent record.
Course credits earned at other colleges during the period of
suspension from the University are not accepted for the de­
gree program.
A student’s first suspension will be for two academic peri­
ods, unless it is imposed at the end of the summer, in which
case it will be for one semester. A second suspension will be
for one calendar year, i.e., two regular semesters and a sum­
mer. A third suspension results in dismissal.

Effect of Suspension on the Re-Enrolled
Student
A student re-enrolling after suspension is on probation for
one academic period of enrollment. A warning received at the
end of that period results in continuation of probation but not
suspension.

Dismissal
A third suspension results in dismissal. An undergraduate is
also dismissed upon accumulating 36 hours of unsatisfactory
grades. Only unsatisfactory grades received after September
1979 are included in the accumulated hours for dismissal.

Good Academic Standing
A student is in good academic standing unless dismissed,
suspended, or on probation.
"For purpose of determining the duration of probation and
suspension, an academic period will be defined as follows:
Each academic period (semester or summer session) be­
gins on the fifteenth day following the last scheduled day of
final examinations for the previous period. Each academic
period ends on the fourteenth day after the last scheduled day
of final examinations:"
Example: The last scheduled day of final exams this semes­
ter is Monday, December 20th. The period would then end on
Monday, January 3rd. The next period would begin on Tues­
day, January 4th.

The English Composition Requirement
Because the ability to write well is so important to success in
the University and professional careers, the University requires
students to complete two semesters of English composition.
The University composition requirement may be satisfied by
English 101 (or 100) and either 102 or 302, or the equivalent
transfer courses. Students must attain a minimum grade of C in
composition courses to fulfill University degree requirements.
Graduate Policies and Procedures

Graduate School

Administration
Averett S. Tombes, Dean
John C. Evans, Associate Dean
Anthony A. Hickey, Assistant Dean

Graduate Council Members 1982-83
William J. Bolce
Thomasina S. Borkman
Jack R. Censer
Terry Comito
Catherine A. Connelly
W. Mark Crain
Sam A. diBonaventura
Albert W. Edgemon
Esther N. Elstun
John C. Evans (Ex Officio)
Klaus G. Fischer
James W. Fonseca
Theodore Gessner
Anthony Hickey (Ex Officio)

Fields of Study

The Graduate School offers a wide variety of degree programs and courses. Most graduate courses are scheduled in the late afternoon and early evening hours. Programs and coursework at the doctoral level and the master's level are offered in the following fields:

- Master of Arts
- Master of Science
- Master of Business Administration
- Master of Fine Arts
- Creative Writing
- Fine Arts
- Master of Education
- Elementary Education
- Guidance and Counseling
- Reading
- School Administration and Supervision
- Secondary Education
- Special Education
- Economics
- English
- Fine Arts
- Foreign Languages
- History
- Psychology
- Sociology
- Master of Science in Teaching
- Master of Science in Nursing
- Doctor of Public Administration
- Doctor of Philosophy
- Economics
- Environmental Biology and Public Policy
- Doctor of Arts
- Education

In addition to the degree programs listed above, a number of departments without graduate degree programs offer graduate-level courses for elective credit and for personal or professional enrichment.

For further information regarding graduate policies and procedures, consult the 1982-83 catalog pp 25-35. Below are presented changes to some of these policies resulting from actions taken by the Graduate Council.

Application Policies and Procedures

Submission of Application

Correspondence concerning application for admission to the Graduate School should be addressed to the Graduate School Admissions Office. Applicants seeking admission as degree students to the Graduate School must submit the following:

1. Application form.
2. Transcripts two official copies mailed directly from each institution attended to the Graduate Admissions Office, including George Mason University (undergraduate or Extended Studies Enrollment).
3. $10 application fee (non-refundable).
4. Virginia Domicile Classification Form.
5. Official scores on examinations (GRE, GMAT, etc.) as required by the relevant department (see Departmental Entrance Requirements under the appropriate program).
6. Letters of recommendation as required by the relevant department (see Departmental Entrance Requirements under the appropriate program).
7. Affidavit of Support for Foreign Students on J-1 or F-1 visas.
8. Other forms and documents as may be required by the individual department (see application instructions).

It is the responsibility of applicants to ensure that all documents are received for inclusion in their admission files. The University cannot assume any obligation to inform applicants about missing documents or credentials. All documents and credentials submitted in support of applications for admission.
become the property of the University, and will not be returned or duplicated for any purpose.

Applicants who no longer wish to be considered for admission should notify in writing the Graduate School Admissions Office. Applicants for admission to the Graduate School should not seek Extended Studies Enrollment.

Application Deadlines for Master's Programs

Applications and all supporting documents must be received by the Graduate School Admissions Office by no later than May 1 for Fall semester; November 1 for Spring semester; March 1 for Summer Session; and May 1 for Fall semester.

Application Deadlines for Doctoral Programs

Applications and all supporting documents must be received by the Graduate School Admissions Office by the following dates:

- Biology: November 1 for Spring semester
- April 1 for Fall semester
- Economics: October 1 for Spring semester
- April 1 for Fall semester
- Education: February 1 for Fall semester
- Psychology: February 15 for Fall semester
- Public Administration: April 1 for Fall semester

Submission of Transcripts

Two official copies of transcripts from each college or university attended must be received in support of an application for admission as a degree student. Applicants should instruct their institution(s) to send their transcripts directly to the Graduate School Admissions Office. George Mason students and graduates (including Extended Studies Enrollees) who apply for admission to the Graduate School should request the University Registrar to send transcripts directly to the Graduate School Admissions Office.

After admission, graduate students at the University who apply may be given permission to take courses elsewhere for possible transfer credit. Students must have official transcripts of this work, upon its completion, sent to the Graduate School Admissions Office.

Graduate Admission Examinations (GRE and GMAT)

Although a number of graduate programs do not require the Graduate Record Examination (GRE), almost all will use such test scores as an additional measurement of an applicant’s qualifications. The GRE may be taken in either or both of two forms: 1) the Aptitude Test, and 2) the Advanced Test. Some departments require official scores for both the Aptitude and the Advanced Test.

Academic Testing in the Office of Academic Assistance Programs administers all academic examinations for the University, including the GRE and the GMAT. Information concerning examinations, test dates, and test applications may be obtained from Academic Testing, 323–2525 or Graduate Admissions, 323–2105. Applicants also may write directly to GRE, Box 955; or GMAT, Box 966; Princeton, NJ 08540. A local telephone number in the Washington, DC area for ETS is (202) 659–0616.

The Graduate Management Admission Test (GMAT) is required of all applicants seeking a degree in business administration.

Offer of Admission to the Graduate School

A written offer of admission is made by the Dean of the Graduate School to an applicant who has been admitted. The offer specifies the effective date of admission, the category of admission being offered, and the name of the faculty adviser assigned to the applicant. This offer of admission is good for two semesters plus the summer session if the program admits students into the summer session. (e.g. Offer of admission for Fall – the student must register either in the Fall, Spring or Summer). The offer of admission is rescinded if the applicant takes courses elsewhere after the effective date of admission. A written acceptance or rejection of the offer of admission should be sent to the Graduate School Admissions Office as soon as the applicant has made his or her decision on graduate study. An individual whose offer of admission has lapsed must submit a new application and fee to be reconsidered for admission at a later date.

Reactivation of Deferred Applications

Applicants are notified when action on an application has been deferred pending completion of prerequisite courses before graduate study in a chosen field can begin. Such an applicant is encouraged to notify the Graduate School Admissions Office in writing as soon as the prerequisites have been met. It is the responsibility of the applicant to furnish transcripts confirming that the prerequisite courses have been satisfactorily completed even if at the University. No admission decision can be made until these grades are received.

Reevaluation of Denied Applicants

If an applicant is denied admission into a program, he or she may ask for ONLY ONE reevaluation to be done the semester following denial. Any subsequent reevaluations must be initiated by a new application and fee.

Records Maintenance and Disposal

All graduate admission documents, including academic records sent from other institutions, become part of the official University file and cannot be returned nor duplicated for any purpose. A student should maintain copies of official credentials for other personal requirements.

Admission credentials are retained for 24 months only and subsequently destroyed for applicants who (1) do not register for courses within the time period for which the offer of admission is valid; or (2) have been denied admission, or (3) do not respond to requests for additional information, or (4) fail to submit complete applications with respect to the receipt of all official transcripts or test results.

Readmission to the Graduate School

A graduate student whose study at the University is interrupted for any reason for more than one semester (exclusive of summer sessions) must apply for readmission. Readmission forms are available through the Graduate School Admissions Office. It is the student’s responsibility to request the Registrar’s Office to forward a recent transcript of all work completed at George Mason University to the Graduate Admissions Office. Since the department chairperson and the Dean of the Graduate School must approve all readmissions, students are encouraged to complete the forms and return them to the Graduate School Admissions Office no later than one month prior to the anticipated date of registration. A $15 nonrefundable fee must accompany the readmission form. If such readmission is approved, the student is subject to the academic regulations and requirements in effect at the time of registration after readmission.

Requirements Applicable to All Doctoral Degrees

Degree Requirements

A candidate for a doctoral degree at George Mason University must satisfy all Graduate School degree requirements and all requirements established by the specific doctoral program faculty.

In order to meet the degree requirements applicable to all doctoral degrees, a doctoral candidate must:

1. have acquired beyond the baccalaureate degree a minimum of 72 semester hours of graduate credit.
2. have completed at least 36 semester hours of graduate level work at George Mason University after having been admitted to doctoral degree status;
3. have completed at least two semesters, not including the Summer Session, in continuous registration;
4. have filed in the Graduate School a program of study approved by the doctoral supervisory committee within two years after admission to doctoral degree status of which;
   a. a maximum of 24 semester hours may be in doctoral dissertation research (999) or doctoral project research (998);
   b. no more than 12 semester hours of graduate credit may have been earned through enrollment in non-degree status or through Extended Studies Enrollment prior to admission to degree status;
   c. no more than 30 semester hours may be transfer credit for course work taken prior to admission including applicable graduate credit earned in non-degree status or through Extended Studies Enrollment; d. a maximum of 12 semester hours may be transfer credit taken after admission to doctoral degree status;
5. have passed a written doctoral candidacy examination as certified by the doctoral supervisory committee;
6. have passed an oral final doctoral examination as certified by the doctoral supervisory committee;
7. have submitted to the Graduate School office and have defended at the time of the final doctoral examination a doctoral dissertation or doctoral project that has been approved by the doctoral supervisory committee, and the Graduate Dean;
8. have completed all degree requirements within five years following the semester of advancement to candidacy.

Doctoral students are subject to those degree requirements in force at the time of their initial registration in degree status following admission to the Graduate School. Doctoral students who have been readmitted following voluntary withdrawal for more than one semester are subject to those degree requirements in force at the time of their initial registration following readmission. All doctoral candidates have the option of graduating under the degree requirements in force at the time the doctoral degree is to be awarded.

Residency
All doctoral students are required to spend a minimum of two consecutive semesters, not including the Summer Session, in continuous registration. The doctoral program of study must include a minimum of 36 semester hours of graduate work taken at George Mason University after admission to a degree-seeking status.

Time Limit
A doctoral student must complete all degree requirements within five years following the semester of advancement to candidacy. A doctoral student who voluntarily terminates enrollment and is subsequently readmitted to the Graduate School in the same doctoral program after advancement to candidacy is still subject to the five-year time limit commencing with advancement to candidacy.

Doctoral Supervisory Committee
At the time a doctoral student is to be considered for advancement to candidacy, normally by the end of the second year of full-time graduate study, the Dean of the Graduate School will appoint a doctoral supervisory committee upon recommendation by the department chair. The committee shall consist of a major professor and at least two other members of the Graduate Faculty. Additional members may be appointed who are not members of the Graduate Faculty or who are from outside the University. The major professor shall be the chair of the committee. It is the responsibility of the doctoral supervisory committee to approve the program of study, certify the successful completion of the candidacy examination (which may include an oral part in addition to the written part), approve the doctoral dissertation where required, and certify the successful completion of the final doctoral examination (which may include a written part in addition to the oral part).

Doctoral Research Skill Requirements
Some doctoral degree programs require, as part of the degree requirements, demonstration of proficiency in a research skill area. These may take the form of a reading knowledge of the research literature in a foreign language, knowledge of a computer language, knowledge of statistical methods, or knowledge of a research tool specific to the discipline. Research skill requirements are included with the degree requirements for the specific doctoral degree. Where required, the certification of successful completion of research skill requirements must be completed for advancement to candidacy. Forms for certification purposes are available in the Graduate School office.

Program of Study
Normally, before the end of the second year of graduate study, but no later than consideration for advancement to candidacy, a doctoral student must submit a program of study for approval by the Dean of the Graduate School. The program of study must include major courses to be completed, any supporting courses, research skills required, subject areas to be covered by the candidacy examination, and proposed date for candidacy examination. The program of study must be signed by the major professor and all members of the doctoral supervisory committee. Program of Study for the Doctoral Degree forms are available in the Graduate School office.

Advancement to Candidacy
Advancement to candidacy implies that a doctoral student has demonstrated both a breadth and depth of knowledge in their field of study and is capable of exploring problems on the boundaries of knowledge. A doctoral student should normally be considered for advancement to candidacy by the end of the second year of full-time graduate study. The candidacy examination includes a written part and may include, depending on the doctoral program, an oral part. Where an oral portion is required, some programs consider the written and oral portions as one in determining the passing or failing of the candidacy examination, while in other programs the two parts may be passed or failed independent of each other.

Before a doctoral student may be advanced to candidacy by the Dean of the Graduate School, a doctoral student should have completed all doctoral program examinations required by the program faculty, have been certified in all doctoral research skills required, passed the candidacy examination, and be recommended by the doctoral supervisory committee. Report on Candidacy Examination and Recommendation for Advancement to Candidacy forms are available in the Graduate School office.

Doctoral Dissertation and Non-Dissertation Options
A dissertation is required for the Doctor of Philosophy degree and some of the professional doctoral degrees. The dissertation is a written piece of original thinking that demonstrates the doctoral candidate's mastery of the subject matter, methodologies, and conceptual foundations in his or her chosen field of study. This is achieved generally through consideration of a problem on the boundaries of knowledge in the discipline.

Although by no means less demanding, some of the professional doctoral degree programs do not require the preparation of a dissertation. These professional doctorates provide for other means by which the candidate may demonstrate his or her intellectual competency and personal ability.

Doctoral Dissertation
After the appointment of the doctoral supervisory committee by the Dean of the Graduate School, a doctoral student should
begin discussions with his or her major professor to define a suitable problem for the dissertation. However, before a doctoral student may enroll for doctoral dissertation research, a dissertation proposal must be approved by the doctoral supervisory committee and sent to the Dean of the Graduate School for approval.

The major professor of the doctoral supervisory committee is primarily responsible for directing a doctoral candidate's research and guiding the preparation of the written dissertation. Format and style for the dissertation are discussed in the Guide for Preparing the Master's Thesis and the Doctoral Dissertation. The Guide also includes information on the number of copies required, binding, and submission of the dissertation for approval by the doctoral supervisory committee, and Graduate Dean. All copies of the dissertation must be submitted and fees paid before the doctoral degree will be awarded.

Final Doctoral Examination

As soon as all degree requirements have been satisfied, including the completion of the doctoral dissertation where required, a doctoral candidate may arrange with his or her doctoral supervisory committee to petition the Dean of the Graduate School to schedule the final doctoral examination. Forms for petitioning the Graduate Dean are available in the Graduate School office. From the recommended date for the final doctoral examination by the doctoral supervisory committee, the Dean of the Graduate School will schedule the final examination.

The final doctoral examination shall include an oral defense of the dissertation, where a dissertation is required by the doctoral program. It should also demonstrate the candidate's intellectual command and maturity of judgement of those branches of the field of study chosen by the candidate in conjunction with the doctoral supervisory committee. Some doctoral programs may require, in addition to the oral portion of the examination, a written part as listed under the degree requirements for each doctoral program. Depending on the particular program, a passing or failing mark may be assigned to the oral and written portion independently or taken as a single examination.

At the close of the final doctoral examination, the doctoral supervisory committee and will make final judgments for approving the dissertation which may require some minor changes resulting from the oral defense. It is the responsibility of the doctoral candidate to make all required changes promptly, secure the signatures of the major professor, other members of the supervisory committee, and submit the original and required copies to the Graduate School office for the Graduate Dean's approval.

Doctoral Degree Application

At the beginning of the semester in which a doctoral candidate expects to finish all degree requirements, including the final doctoral examination, he or she should submit to the Graduate School office a doctoral degree application and pay the $15.00 graduation fee. Copies of the doctoral degree application form can be obtained in the Graduate School office. The degree application should be submitted by the date designated in the Academic Calendar. If for any reason a doctoral candidate fails to complete all degree requirements in that semester for which the degree application was filed, then a new degree application must be submitted by the next appropriate deadline.

Commencement Exercises for Doctoral Degree Recipients

Commencement exercises provide an opportunity for doctoral candidates to be recognized publicly for their achievements. For those who have completed a doctoral dissertation, the title will be read along with the holding ceremony for all doctoral candidates. However, if a doctoral candidate can not participate in the ceremony, then he or she should notify the Office of the Registrar at least 24 hours prior to the date and time of the ceremony.
Academic Units and Programs

College of Arts and Sciences

The College of Arts and Sciences is the largest and most diverse of the academic units of the University, with programs that encompass both tradition and innovation: tradition of the liberal arts and sciences and innovation in the flexible interdisciplinary offerings. Taught by a faculty of academic excellence and national training and experience, the coursework offered by the College prepares the undergraduate for dealing with the complexities and changes of modern society.

The disciplines of the 17 departments of the College of Arts and Sciences represent the core curricula of the modern University. The disciplines cover a wide range, and the programs feature significant flexibility of design. Through its programs, the College exposes students to high standards and principles for sound reasoning and judgment, while providing the background and skills necessary for understanding and using information. The College strives to develop within students a process of self-education, which will extend life long, in addition to imparting the knowledge needed to deal with the world of today and that of tomorrow.

Within the College offerings there are ample opportunities for double majors, which can be tailored to student needs, to combine intellectual pursuits with preparation for employment. Planning in this direction, the College has also developed faculty advisory committees to assist the undergraduate interested in careers such as medicine, dentistry, veterinary medicine, law, and the ministry.

Administration

F. Donald Eckelmann, Dean
William P. Snavely, Associate Dean
Elaine C. Joyce, Assistant Dean
Randolph H. Lytton, Assistant Dean

Bachelor of Arts Degree Requirements

The general education portion of the Bachelor of Arts degree offers insights into a broad range of human thought and activity. Such insights enable persons to fill more effectively various roles in our society and provide a foundation for continued learning and personal development.

Through general education, students gain knowledge of the basic disciplines, skill in relating materials within a discipline and between disciplines, and some understanding of human civilization as a whole. All courses fulfilling general education requirements should combine such knowledge, skill, and understanding. Thus, in a course in any discipline, students should gain basic knowledge of that discipline, skill in the methods which produced that knowledge, and understanding of that discipline's common attitudes and of its place within human thought and activity.

The courses are grouped below to allow the student to exercise certain options among disciplines utilizing similar modes of thought.

Bachelor of Science Degree Requirements

I. Fulfillment of requirements for the major as listed under the respective departments: biology, chemistry, economics, mathematical sciences, physics, psychology, public administration, and sociology. At least 12 hours of work in the major field at the 300 level or above must be completed at the University.

II. At least 12 semester hours of coursework outside the area of specialization

A. 12 hours outside the fields of economics, geography, government, or history if the degree is in one of these fields; 6 of these hours must be chosen from these fields: astronomy, biology, chemistry, computer science, geology, mathematics, and physics.
The Department of Performing Arts offers major programs under the Bachelor of Fine Arts Degrees through the Divisions of Dance and Theatre. The Dance Division offers a general modern dance major that allows for concentrated study in either performance, choreography or teaching. The Theatre Division offers a major program with emphasis in Acting and Design/Theatre Technology. See the appropriate departmental sections of the catalog for details and the requirements of these major programs.

### Bachelor of Music Degree Requirements

**I. General Education** .................................................. 32  
A. ENGL 101, 302 Students admitted prior to fall 1983 may substitute ENGL 102 for 302. Nonnative speakers of English with limited proficiency in the language may substitute ENGL 100 for 101. Students must attain a minimum grade of C in order to have ENGL 100, 101, 102, 302 fulfill degree requirements in these courses.  
B. Literature  
   Any course in literature at the 200 level or above in English or in foreign languages and literature.  
C. Natural Sciences/mathematics/computer science  
   Six of these courses must be chosen from these fields: astronomy, biology, chemistry, computer science, geology, mathematics, physics.  
D. Social Sciences  
   Anthropology, economics, geography, government, history, linguistics, psychology, sociology.  
E. Additional Non-Music Courses ..................................... 8

**II. Basic Musicianship** ........................................... 58

**III. Music Concentration** ......................................... 18

**IV. Free Electives** .................................................. 22

**V. Total minimum semester hours**  
(For details, see the music section under Department of Performing Arts.)

### Bachelor of Fine Arts Degree Requirements

**Requirements**

1. **General Education** .................................................. 32  
   A. ENGL 101, 302. Students admitted prior to fall 1983 may substitute ENGL 102 for 302. Non-native speakers of English with limited proficiency in the language may substitute ENGL 100 for 101. A student must attain a minimum grade of C in order to have ENGL 100, 101, 102, 302 fulfill degree requirements in these courses.  
   B. Literature (6) Any course in literature at the 200 level or above in English or in foreign languages and literature.  
   C. Natural Science/Mathematics/Computer Science (6-8) Six to eight credits chosen from the areas of astronomy, biology, chemistry, computer science, geology, mathematics, physics or logic (PHIL 173, 273).  
   D. Social Sciences (6) Six credits chosen from the areas of anthropology, sociology, government, history, linguistics, psychology or sociology.  
   E. Additional Non-Major Courses (6-8) See Major Department for recommended list.

2. **Major Program** .................................................... 86–88

**Secondary Teacher Certification**

Students who wish to become secondary school teachers should consult with the secondary education adviser in their department. The professional preparation component of the state-approved teacher education programs for secondary school teachers is offered in the Department of Education. Please refer to the catalog section under the Department of Education, Secondary School Education.

**Physical Education Courses**

Activity courses offered by the Department of Health and Physical Education, College of Professional Studies, cannot be counted within the hours for a degree in the College of Arts and Sciences.

**Sample Schedules**

The sample schedules in the catalog are illustrative schedules only. Courses need not be taken in the precise sequences or semesters indicated, except as prerequisites or other necessities prescribe.

**American Studies**

**Faculty**


**American Studies Coursework**

The American Studies Faculty offers all coursework designated AMST in the Course Dictionary of the catalog and its supplements, including the graduate courses AMST 502 and 690, offered in support of degree programs in the Graduate School.

**Requirements for the Degree**

The interdisciplinary program culminates in the conferment of the BA degree in American Studies and requires a minimum of 120 hours of coursework. All majors must satisfy the requirements for the BA degree at the University and the requirements for a major in American Studies. The major requires 42 hours divided as follows:

1. **American History**
   6 hours in HIST 121–122. This requirement should be fulfilled during the freshman and sophomore years as part of the social science general education requirements. It may also be fulfilled during the junior year.

2. **Introductory Seminar**
   3 hours in AMST 302. It is strongly recommended that students take AMST 302 in the second semester of their sophomore year or in the first semester of their junior year.
3. Disciplinary Concentration
9 hours in the courses of a single College discipline. Three courses from any one of the following approved sets:

- a. Economics: ECON 150, 310, 320, 365
- b. Art and Performing Arts: ARTH 170, 370, 470; MUSI 105, 107, THR 352, 353
- c. Geography: GEOG 215, 301, 304, 306
- e. History: HIST 333, 335, 336, 341, 342, 345, 351, 352, 390, 391, 392, 393, 401, 403, 404, 406, 409, 410, 411, 412, 413, 414, 415, 416, 420, 495
- g. Philosophy and Religion: PHIL 331, RELI 231, 330, 331, 332, 333
- h. Sociology: SOCI 152, 206, 301, 302, 304, 308, 332, 350, 373, 382, 401, 402

4. Interdisciplinary Concentration
9 hours in an interdisciplinary concentration defined by advisor and student by the specific set of interdisciplinary concentrations the Program offers. Courses should be selected from those designated appropriate to the concentration in the courses AMST 310, 320, 330 and 340 or from courses so designated in the College disciplines. For 1983-1986 the Program offers specific interdisciplinary concentrations in Urban and Suburban Culture in America, the 1930s in America, Women in American Culture and Work and Leisure in America.

5. Senior Project
3 hours in AMST 410. A seminar in methodology and completion of a project in the field of the interdisciplinary concentration.

6. AMST Electives
6 hours from the following:
- AMST 201, 202
- AMST 310, 320, 330, 340 (Same course may not be used both here and in requirements above).
- AMST 403, 490, 502.

7. Special "Skills" Courses
6 hours from a. or b. below:
- a. ANTH 201; COMM 460; CS 261; DESC 202, 301; ECON 345; ENGL 310, 467; GOVT 309, 355, 401, 451, 452, 503; INF 201; MATH 252 or SOCI 221, 410. (Statistics must be taken in either Math or Sociology to avoid overlap in content).
- b. Two courses selected in consultation with the student's advisor and approved by the Chairperson.

American Studies in a Double Major
Many students elect to double major in American Studies and another discipline. Students majoring in anthropology, economics, English, geography, government, history, philosophy, psychology, public administration, and sociology can usually also fulfill the requirements for a second major in American Studies within the minimum 120 hours required for all College of Arts and Sciences degrees. Students wishing to design a double major should discuss their plans with the Chairperson of American Studies. A sample schedule follows.
Latin American Studies
Faculty
Danusia Meson-Sosnowski, Chairperson, Rita Ailinger, Ted Bradley, Robert Clark, Martha Paley Fracescato, James Fonseca, Lydia Hazera, Evelyn Jacobs, Donald Kelso, Yereth Knowles, Stephen Ruth, William Shear, John Soder, Frank MacD Spindler.
For a complete description of the requirements for the major in area studies with a focus on Latin American Studies see the 1982-83 catalog pp. 40-41.

Russian Studies
Faculty
Leo Hecht, Chairman, Alice C. Andrews, James S. Levine, Ronald J. Jensen.
For a complete description of the requirements for the major in area studies with a focus on Russian Studies see the 1982-83 catalog pp. 41-42.

Art
Faculty
Associate Professors: Kravitz, Ward
Assistant Professors: Clapsaddle, Ifollott, Hammond, Mattusch, North
Lecturers: Kendall, Mahoney, McCarty

Department of Art Coursework
This department offers all coursework designated ARTH and ARTS in the Course Dictionary of the catalog.
For a complete description of the requirements for the major in Art with concentration either in Art History or Art Studio see the 1982-83 catalog pp. 42-43.

Biology
Faculty
Professors: Emsley, Ernst, Johnston, Shaffer, Stanley, Taub, Tombes
Associate Professors: Andrykovitch, Bradley, Hart, Joyce, Kaplan, Kelso, Rockwood (Acting Chairman), Seward, J. Skog, Wilson
Assistant Professors: Adamkewicz, Brown, deFur, Egghart, Jones, Klemcke, Kowalski, Lawrey, O'Melia, Royl, Torzilli
Adjunct Professors: Cook, Drohan, Kleiman, Laybourne, Phipps, Redfield, L. Skog,
Lecturers: Ascione, Bright, Chambers, Dunkle, Everly, Hupp, Killos, Puckett, Smith, Stewart, Yanosky
(italics indicate graduate faculty)

Department of Biology Coursework
This department offers all coursework designated BIOL and MTCH in the Course Dictionary of the catalog.
For a complete description of the requirements for the major in Biology or Medical Technology see the 1982-83 catalog pp. 43-45. For a complete description of the requirements of MS in Biology or the PhD in Environmental Biology – Public Policy see the 1982-83 catalog pp. 45-48.

Chemistry
Faculty
Professors: Walter (Chairman), Cozzens, Eckelmann, Mose, Mushrush
Associate Professors: Davies, Deanhardt, Roth, Slayden, Stalick
Assistant Professors: Chen, Davis, Johnson, Machuga, Neece
Lecturers: Caulder, Greer, Hepner, Kianpour, Palmer, Russ, Talebian, Thompson, Trzaskoma
(italics indicate graduate faculty)

Department of Chemistry Coursework
This department offers all coursework designated CHEM in the Course Dictionary of the catalog.
For a complete description of the requirements for the major in Chemistry see the 1982-83 catalog p. 48.

Transfer students, please use the following:

Transfer Students
For students majoring in chemistry, transfer credit ordinarily will not be allowed for courses in Organic Chemistry which are numbered below 300, i.e., those courses taught at the Freshman or Sophomore level. Credit for such courses may be obtained by passing an examination administered by the Department of Chemistry.

Communication
Faculty
Professors: Taylor (Chairman)
Associate Professors: Decker
Assistant Professors: Broome, Friedley, Rainey
Acting Assistant Professors: Nadler
Lecturers: Bartelt, Boileau, Freson, Hughes, Joffe, Ryan
(italics indicate graduate faculty)

Department of Communication Coursework
This department offers all coursework designated COMM in the Course Dictionary of the catalog.

Requirements for the Degree
Undergraduate
Speech Communication
BA Degree with a Major in Speech Communication
The following material represents a change in major requirements from those presented in the 1982-83 catalog.
Communication
Study in speech communication prepares students for graduate study or entry level positions in one of three areas of concentration:
1. public communication
2. interpersonal communication
3. mass communication, including journalism
In addition to the general requirements for the Bachelor of Arts, speech communication majors must complete 36 semester hours in communication.

Required courses are as follows:

**CORE COURSES:**
- COMM 300 Public Communication: 3 hours
- COMM 301 Interpersonal Communication: 3 hours
- COMM 302 Mass Communication: 3 hours
- COMM 400 Introduction to Research in Communication: 3 hours

COMM 420 Senior Seminar in Theories of Communicative Interaction (to be taken in spring of junior year): 3 hours

To graduate, students must earn satisfactory grades (C or better) in each of these five required courses.

The remaining 21 hours of communicative electives should be selected in consultation with an adviser.

Admission to major status in communication is competitive. Students interested in majoring in communication should declare themselves as PRE-COMM majors and consult the Communication Department in T-135 for details of the admission process.

To fulfill CAS general education requirements in speech communication, COMM majors must take COMM 101, 110, 120, or 130. COMM majors are urged to choose the following specific courses in fulfilling College of Arts and Sciences general education requirements.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 101 and 36; COMM 101, 110, 120 or 130</td>
<td>12 hours of a foreign language</td>
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<tr>
<td>Analytical Reasoning: MATH 250</td>
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<td>3</td>
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<tr>
<td>Humanities</td>
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<td>12</td>
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<tr>
<td>6 hours literature at 200 level or above</td>
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<td>3</td>
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<tr>
<td>3 hours art, dance, music or theatre</td>
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<td>3</td>
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<tr>
<td>3 hours philosophy or religion: philosophy recommended</td>
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<tr>
<td>Social Science</td>
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<td></td>
<td>12</td>
</tr>
<tr>
<td>ENGL 103 and 104; ANTR 114 and PSYC 100</td>
<td>.</td>
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<td>8</td>
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<tr>
<td>Natural Science: any two semesters lab sequence</td>
<td>Non-Western Culture: 2 courses chosen from list</td>
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<td></td>
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<tr>
<td>37 of 1982-83 GMU catalog</td>
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<td>6</td>
</tr>
</tbody>
</table>

COMM majors are urged to consult with an advisor in planning an appropriate schedule that will contribute to developing a strong cognate field or double major.

*Advanced placement is possible. Consult Department of Foreign Languages for test information.*

Economics

**Faculty**
- **Professors:** Bennett, Bloch, Coelho (Chairman), Phillips, Snively, W. Williams
- **Associate Professors:** Bhandari, Chung, Crain, Holden, M. Johnson, Vaughn, Wiest
- **Assistant Professors:** DiLorenzo, High, Lareau, Lavoie, Orzechowski, Pupp, Pennington, Shear
- **Acting Assistant Professors:** Carpenter, Egger, Fink, Gajewski, Levy, McReynolds, Shear, G. Williams
- **Lecturers:** Back, Bailey, Bender, Bowen, Dolan, Duffy, Elsworth, Entin, Fisher, Hanweck, Hoffman, Hooke, T. Johnson, Kilpatrick, Lamm, Malkerson, Mayberry, Moran, Park, Prato, Preston, Ramsett, Rossiter, Roth, Scandizzo, Thorpe, Tsao, Uri

(Illustrate indicate graduate faculty.)

**Department of Economics Coursework**

This department offers all coursework designated ECON in the Course Dictionary of the catalog.

**For a complete description of the requirements for the major in Economics see the 1982-83 catalog p. 50.**

Please note that the requirement of "6 hours of statistics" has been replaced by "Math 109 and DESC 202." For a full description of the complete MA and PhD degrees in Economics see pp. 49-50 of the 1982-83 catalog.

English

**Faculty**
- **Professors:** Cohn (Chairman), Baxter, L. Brown, S. Brown, Garson, Gras, Kelley, Molin, Williams
- **Associate Professors:** Bergmann, Brunette, Comito, Foreman, Galehr, Goodwin, Karlson, Keaney, Klappert, Kuebrich, Lewis, Nadeau, O'Connor, Owens, Palmieri, Radner, Rutledge, Shreve, Story, Thaiss, Tsukui
- **Assistant Professors:** Adamson, Bausch, Foster, Grossberg, Hammond, Hodges, Holisky, Irvine, Kaplan, Masse, Nelson, Sypher, Yocum

**Senior Lecturer Jackson**


(Illustrate indicate graduate faculty.)

**Department of English Coursework**

This department offers all coursework designated ENGL in the Course Dictionary of the catalog.

**Requirements for the Degrees**

**Undergraduate**

**BA Degree with a Major in English**

The English department offers two major programs: the Literature Program and the Writing Program.

**The Literature Program.** In addition to general requirements for a BA degree, students who wish to receive the traditional BA in English Literature must complete 30 hours of coursework beyond sophomore English with the following distribution:

1. ENGL 325 "Dimensions of Literature," (may be taken concurrently with the second semester of sophomore literature).
2. Twelve semester hours of English courses at the 400–level.
3. One major authors course (ENGL 471, 472, 473, 474, 477, 478).
4. Three semester hours in language/style/criticism (ENGL 481 (391), 485, 592, 397, 398, 489 (467), 511, 551, 556, and 557.)

http://catalog.gmu.edu
5. Nine semester hours in upper-level English courses of the student’s choice.

The Writing Program. For students who wish to prepare for a career in fictive or nonfictive writing, the English department offers a major program with special emphasis in writing. In addition to general requirements for a BA degree, students who wish to pursue this program must complete 30 hours of coursework beyond sophomore English with at least 12 credits in the following courses: ENGL 309, 310, 397, 398, 458, 464, 489, 503.

In choosing the additional hours in English required for the Literature or Writing Programs, each student, working with an adviser, should make a judicious selection of courses that foster a broad liberal education and prepare the student for graduate education or employment.

For information concerning English in a Double Major, Graduation with Distinction and Recognition, Undergraduates in Graduate English Courses, Related Courses, and Secondary Teacher Certification, please refer to p. 52 of the 1982–83 catalog.

Graduate

The Department of English offers graduate study designed to provide professional training in the study and practice of writing and literature to students with widely differing aims. The MA in English (30 semester hours) provides concentrations in literature, in professional writing and editing, in the writing of fiction and poetry, and in the teaching of writing and literature. The department also offers a MA in English: Linguistics (30 semester hours) and a MFA in creative writing (48 semester hours); a certificate in the teaching of English as a second language (15 semester hours); and courses as part of the Doctor of Arts in Education degree.

For a complete description of any of the above see pp. 52–53 of the 1982–83 catalog. Please note the following change in degree requirements which applies only to the Linguistics concentration.

Master of Arts in English: Linguistics

Departmental Degree Requirements

A. Successfully complete 30 semester hours of graduate credit distributed as follows:

1. 15 hours in the following core courses: ENGL 520, 531, 536, 623, 624 (Candidates in the TESL program will substitute ENGL 522 for ENGL 624).
2. 15 hours of graduate electives, chosen in consultation with an adviser, which reflect one or more areas of language study. The electives can be in such areas as literary criticism, bilingual education, or a foreign language, and may include 6 hours of thesis.

B. Students who have not already successfully complete 12 hours of undergraduate credit in a foreign language (or its equivalent) must either do so or demonstrate equivalent proficiency by passing a translation test administered by the English department.

Department of Foreign Languages and Literatures Coursework

This department offers all coursework designated CLAS, FREN, FLRN, GERM, GREE, ITAL, JAPA, KORE, LATN, PORT, RUSS, SPAN, and VIET in the Course Dictionary of the catalog.

For a complete description of the requirements for the major in French, German, or Spanish see the 1982–83 catalog pp. 54–55.

Graduate

Please note the changes in the Graduate Program entrance and degree requirements and programs of study.

Master of Arts in Foreign Languages

The Master of Arts in Foreign Languages offers students the possibility of concentrating their work in one language field: French, German, or Spanish alone; or in any two of these in combination; or in Spanish in combination with Bilingual Education. In addition, the student chooses between two orientations: A) Language/Linguistics/Methodology; and B) Literature and Literary Criticism. The first orientation will best meet the needs of foreign language teachers; the second, the diverse needs of students preparing for graduate study at the doctoral level.

Master of Arts in Foreign Languages

Departmental Entrance Requirements

In addition to satisfying the general entrance requirements of the Graduate School, applicants seeking degree status must: (1) hold a baccalaureate degree with an undergraduate major in French, German, or Spanish; (2) have at least a 3.000 grade-point average (on a 4.000 scale) in the undergraduate major; and (3) submit two letters of recommendation from persons familiar with the applicant’s qualifications.

Applicants whose baccalaureate degrees were earned in other fields or who otherwise do not meet the above requirements, but who provide evidence of a capacity to pursue graduate study, are encouraged to apply. They may be admitted to the program with provisional status. Applicants in this category must also satisfy the general entrance requirements of the Graduate School and submit two letters of recommendation. They may also be asked to appear for a personal interview and to take the appropriate part(s) of the Graduate Record Examination. They will usually also have undergraduate deficiencies to make up before being advanced to degree status.

Departmental Degree Requirements

Candidates who have elected to do their work in one language must complete a program of 30 semester hours of study. Those who do their work in two languages or in Spanish/Bilingual-Multicultural Education must complete a program of 36 semester hours. In either case, six of the total hours may—at the candidate’s option—be earned with a thesis. All candidates must also pass a final M.A. examination.

Programs of Study

Language/Linguistics/Methodology Orientation (one language)

3 hours in the history of the language
3 hours in materials & methods of scholarly research
9 hours in methodology: Language, Literature, Culture
15 hours of electives in the language field of concentration

Foreign Languages and Literatures

Faculty

Professors: Francescato (Chairman), Aguera, Elstun, Font, Willis

Associate Professors: Chu, Cordero, Goldin, Hazera, Hobsion, LePage, Meyer, Tedder

Assistant Professors: Bufill, Evans, Levine, Meson-Sosnowski, Wakerla

Lecturers: Barilla, Berls, Brinkley, Kang, Layman, Neudling, Seidman, Werres

(Italics indicate graduate faculty.)
Language/Linguistics/Methodology Orientation (two languages)
- 3 hours in the history of the major language
- 3 hours in the history of the minor language
- 3 hours in materials & methods of scholarly research
- 9 hours in methodology: Language, Literature, Culture
- 18 hours of electives in the language fields of major and minor concentration

Literature/Literary Criticism Orientation (one language)
- 3 hours in the history of the language
- 3 hours in materials & methods of scholarly research
- 3 hours in literary theory and criticism
- 12 hours in literature covering three major periods
- 9 hours of electives in the language field of concentration

Literature/Literary Criticism Orientation (two languages)
- 3 hours in the history of the major language
- 3 hours in materials and methods of scholarly research
- 3 hours in Literary Theory and Criticism
- 12 hours in literature of the major language covering three major periods
- 9 hours in literature of the minor language
- 6 hours of electives in the major and/or minor language fields

Geology

Faculty
Professors: Mose (Chairman), Eckelmann
Assistant Professors: Diecchio, Kimmel, Turner

Department of Geology Coursework
This department offers all coursework designated GEOL in the Course Dictionary of the catalog.

Requirements for the Degree

Undergraduate

BS Degree with a Major in Geology
In addition to the general requirements for this degree established by the College of Arts and Sciences, candidates are required to submit at least 40 semester hours of geology, no more than 12 semester hours of which may be at the 100 level. Required geology courses are GEOL 101, 102, 201, 202, 207, 301, 303, plus two courses from the following group: GEOL 304, 305, 314 and 401. Up to 12 semester hours of credit for geography and biology courses approved by the geology chairman may be counted in the required 40 semester hours of geology. Also required are one year of calculus (MATH 113–114), one year of chemistry (CHEM 211–212) and one year of physics (PHYS 341–342 or 250, 350). Geology majors are strongly encouraged to take GEOL 104, 310 and 311 and a 6–8 week summer field-camp course approved by the field-camp advisor.

The geology major is also required to complete at least 14 additional semester hours in mathematics and science (astronomy, biology, chemistry, computer science, geography, or physics) approved by a geology staff advisor. One year each of biology & computer science, and two years of French, German or Russian are strongly recommended for geology majors that contemplate graduate study in geology.

Students must receive better than a C average in GEOL 101 and 102 in order to enroll in 200–400 level geology courses. A minimum of 45 credits in courses numbered 300 or above is required for a BS in geology.

Courses in Support of Graduate Programs
Although a graduate degree is not offered by the Department of Geology, the department does offer courses in support of graduate programs. Descriptions of these graduate courses appear in the Course Dictionary of this catalog. Minimum course requirements are as follows:

Geology......................................................... 40
English and Literature................................. 12
Chemistry 211–212........................................... 8
Math 113–114.................................................... 8
Physics 341–342 or 250,350.............................. 8
Other Sciences and Math.................................. 14
Electives....................................................... 30

Total.......................................................... 120

Sample Schedule for BS in Geology

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>GEOL 101</td>
<td>GEOL 102</td>
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<td>ENGL 101</td>
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<td>CHEM 211</td>
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<tr>
<th>Third Semester</th>
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<tr>
<td>GEOL 201</td>
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<td>GEOL 302</td>
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<td>MATH 113</td>
<td>MATH 114</td>
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<td>BIOL 113</td>
<td>BIOL 114</td>
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<th>Fifth Semester</th>
<th>Sixth Semester</th>
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<td>GEOL 301</td>
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<td>GEOL 304</td>
<td>GEOL 314</td>
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<td>PHYS 341</td>
<td>PHYS 342</td>
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<tr>
<td>Literature</td>
<td>Literature</td>
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<tr>
<td>CS 211</td>
<td>GEOL 310</td>
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<th>Seventh Semester</th>
<th>Eighth Semester</th>
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<tr>
<td>GEOL 345</td>
<td>GEOL 401</td>
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<td>GEOL 403</td>
<td>GEOL 311</td>
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<td>Electives</td>
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History

Faculty

Faculty
Professors: Cassara*, Pugh, Spence
Associate Professors: Harsh (Chairman), Censer, Deshmukh*, Gleissner, Henriques, Jensen, Lytton, Pacheco, Saeed, Soder, Spindler, Walker
Assistant Professors: Cohen, D'Amico, Hawkes, Holsinger, Rosenzweig, Siu
Lecturers: Angel, Butowsky, Fagan, Jessup, LeBlanc, Lykes, Simms
*On study leave Fall 1982

Department of History Coursework
This department offers all coursework designated HIST and LAC in the Course Dictionary of the catalog.

For a complete description of the requirements for the major in History and for the Master of Arts in History see the 1982-83 catalog pp. 56-58.

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Mathematical Sciences

Faculty
Professors: Draper (Chairman), Smith (Mathematics Education)
Visiting Professors: Herschner
Associate Professors: R. Bolstein, Cabell, Fischer, Gabel, Gantz, Hamburger, (Computer Science) Kiley, Levy, Nomis, (Computer Science) Rice, Saperstone, Seidman
Assistant Professors: Brandenburg, (Mathematics and Computer Science) Chen, Damiano, Ephraim, Gerasch, (Mathematics and Computer Science) Greenland, Grotzinger, Jo, Kofner, Lim, Miller, Mohamed, Paik, Shapiro, Trenholme, Zoltek
Acting Assistant Professor: Fox
Instructor: Martens
Lecturers: Ambler, Andersen, Bruckheim, Cantor, Cragg, Dharamsi, Donelson, Dykes, Egan, Falk, Fernsler, Glei, Goldshel, Haenisch, Hodson, Huband, Kennedy, Marlin, Mayer, Miller, Morse, Mullen, Oliver, Roberts, Scalzo, Schwartz, Shrivastava

Department of Mathematical Sciences
Coursework
This department offers all coursework designated CS, MATH, OR, and STAT in the Course Dictionary of the catalog.
For a complete description of the requirements for the BA and BS degrees with a major in mathematics see the 1982–83 catalog pp 58–59.

BS Degree with a Major in Computer Science
In addition to the general degree requirements for a BS degree, the following courses are required: Computer Science: CS 111, 211, 212, 311, 365, 483 (465), plus 12 additional hours of courses numbered above 300 for a total of 30 hours in computer science. Mathematics: MATH 113, 114, 213, 303, 305, 351, 446, for a total of 23 hours in mathematics. Engineering: ENGR 301, 441.
Students are also required to complete an additional 12 hours of computer–science–related courses. These courses may be chosen from the following: INF 311, 312, 411; ENGR 285, 341, 342, 432, 442, 511, 512, 540; PHIL 371; any MATH course numbered above 300 except MATH 350, 371, 372, 373; any computer science course numbered above 300. This paragraph represents a change from the 1982–83 catalog. CS 261, 262 do not count toward satisfying the requirements for a major in computer science.
For a complete description of the MS degrees in Mathematics and in Computer Science see the 1982–83 catalog pp. 60–61.

Performing Arts
Faculty
Professors: di Bonaventura, J. Smith, Swann
Associate Professors: Brawley, Burton, Hill, Kanyan, (Chairman), Murphey, G. Smith
Assistant Professors: Harrison, Houser, Jahnke, Powell

Lecturers: Buxton, Fertik, Havely, J. Taylor

Applied Music
Faculty
Bassoon
Truman Harris. BA, North Texas State University; MM, Catholic University; bassoonist, National Symphony Orchestra.

Cello
Yvonne Caruthers. BM, Eastman School; cellist, National Symphony Orchestra.

Clarinet
Joseph Kanyan. BS, Indiana University, Pennsylvania; MM, DMA, Catholic University; former clarinetist, US Army Band (Washington, DC); Director Instrumental Music, GMU.

Euphonium
Merrill Erler. BM, University of Minnesota; former brass performer, National Theatre Orchestra, National Gallery Orchestra, and US Navy Band (Washington, DC).

Flute

Guitar (Classic)
Jeffrey Meyerriechs. BM, North Carolina School of the Arts; concert tours in the US, Europe, South America, and Caribbean; former guitarist, US Navy Band (Washington, DC.).

Harp
Jeanne Chalifoux. Curtis Institute of Music.

Horn
David Whaley. BME, Drake University; MM, DMA, University of Illinois; hornist, National Symphony Orchestra.

Oboe
Gene Montooth. BME, Indiana University; principal oboist, Kennedy Center Opera House Orchestra, Filene Center Orchestra (Wolf Trap), and National Gallery Orchestra.

Organ
Charles Whittaker. BM, Westminster Choir College; organist, Fairfax United Methodist Church.

Percussion
Kenneth Harbison. BM, Eastman School; MM, Catholic University; percussionist, National Symphony Orchestra.

Piano
Thomas Brawley. BM, Greensboro College; MM, PhD, Northwestern University.

SAXOPHONE
Richard Klenfeldt. BME, Millikin University; MM, Catholic University; saxophonist, US Army Band (Washington, DC).

String bass
Donald Havas. BM, Oberlin Conservatory; MM, University of Tulsa; string bassist, National Symphony Orchestra.

Trombone

http://catalog.gmu.edu
Merrill Erler (see listing under Euphonium).

**Trumpet**
David Flowers. BM, MM, University of Michigan; DMA, Catholic University; trumpeter, National Symphony Orchestra.

**Tuba**
Merrill Erler (see listing under Euphonium).

**Viola**
Richard Parnas. Curtis Institute of Music; principal violist, National Symphony Orchestra.
Ramon Scavelli. Philadelphia Musical Academy; violist, National Symphony Orchestra.

**Voice**
Ing=a-Brita Elgcrna. AB, Barnard College; soloist, Hermon Presbyterian Church.
Rilla Mervine. AA, North Dakota State University; Certificate, Peabody Conservatory; soloist, US orchestras, oratorio and choral societies, Phillips Collection, and National Gallery of Art.
James G. Smith. BM, MM, Peabody Conservatory; DMA, University of Illinois; former conductor, University of Illinois Chamber Choir; former Director, Choral Activities, Eastman School.

Vera Tilson. Mannes School of Music; music director, Unitarian Church of Arlington; former music director and conductor, Arlington Metropolitan Chorus.

Gene Tucker. BM, Eastman School; soloist with Marlboro Music Festival, US orchestras, opera companies, oratorio and choral societies.

Jane White. BM, Eastman School; MA, American University; soloist, Marlboro Bach Festival, Phillips Collection, and musical organizations in Washington, DC.

**Non-Western Instruments**

**Koto**
Kyoko Okamoto. Bachelor in Languages, Kyoto University of Foreign Studies; Toho Kinshu Kai (Koto School).

**Composition**
Sam di Bonaventura. BS, Juilliard School; BM, MM, Yale University; MA, Harvard University; DMA, Peabody Conservatory.

Glenn Smith. BA, MA, California State University, Hayward; D Mus, Indiana University.

**Conducting**
James G. Smith (see listing under Voice).

**Department of Philosophy and Religion Coursework**
This department offers all coursework designated PHIL and RELI in the Course Dictionary of the catalog.
For a complete description of the requirements for a major in Philosophy see the 1982–83 catalog pp. 68–69.

**Physics**

**Faculty**

**Professors:** Ehrlich (Chairman), Johnston, Lankford, Mielczarek

**Associate Professors:** Black (Coordinator, Engineering), Dworzecka, Elsworth, Evans, Flinn, Kafatos, Kruppa, Lieb, Mouchahour, Schaefer, Wang

**Assistant Professors:** Ceperley, Kowalski

**Instructors:** Hannigan, Kowalski

**Lecturers:** Anderson, Halle, Morgan, Papaconstantopoulos, Smith, Triplett

(Italics indicate graduate faculty.)

**Department of Physics Coursework**
This department offers all coursework designated ASTR, ENGR, and PHYS in the Course Dictionary of the catalog.
For a complete description of the requirements for the BS and BA degrees with a major in Physics see the 1982–83 catalog pp. 69–70. For a description of the MS in Applied Physics see p. 70. For a description of the BS and MS degrees in Computer and Electronics Engineering see pp. 71–72 of the 1982–83 catalog.

**Psychology**

**Faculty**

**Professors:** Barocas, Boneau, Jordan, Mandes, Pasnak, Tyer

**Associate Professors:** Allen, Blaha, Buffardi, Pasnak, Flinn, Gasser, Lehman, Mellinger, Moreitz, Rugel, Sanford, (Acting Chairman), Savage*, Smith, Wahl

**Assistant Professors:** Goplerud, Hollenbeck, Holt, Pense, Reed, Small, Williams, Zlotogorski

**Adjunct Professor:** Kurke

**Lecturers:** Brandon, Dunn, Eddy, Goodman, Jamieson, Johnson, Levy, Long, Muchler, R., Muchler, T., Pelham, Ross, Weisman, Werber

*On leave, 1982–83

(Alrics indicate graduate faculty.)

**Department of Psychology Coursework**
This department offers all coursework designated PSYC in the Course Dictionary of the catalog.
For a complete description of the requirements for the BA, BS, MA, and PsyD degrees see the 1982–83 catalog pp. 72–76.

**Public Affairs**

**Faculty**

**Professors:** Clark (Chairman), Early (Director, Law Enforcement and Fire Administration Programs), Newland, Stillman

**Research Professor:** Cole (Director, Public Management Institute)

**Adjunct Professor:** Pustay

**Visiting Professors:** Gibbons, Hager, Knowles

**Visiting Fellows:** Fisher, Komer
Department of Public Affairs Coursework

This department offers all coursework designated GECA, GEOG, GOVT, PUAD, and PUAF in the Course Dictionary of the catalog.

For a complete description of the BA degree with a major in Geography or Government and Politics, and the BS degree with a major in Law enforcement or in Public Administration see the 1982-83 catalog pp. 76-78. The requirements for the BA degree with a major in International Studies have been changed. The new requirements are as follows:

BA Degree with a Major in International Studies

To earn a BA with a major in international studies a student must complete 120 semester hours of coursework and satisfy all requirements for the BA degree prescribed by the College.

Each candidate for the degree must complete the following:

I. A required core of courses amounting to 62 hours distributed as follows:

   Communication .................................................. 21
   Composition (ENGL 101, 102) .................................. 6
   Oral (COMM 100, 110, 120, 130) ................................ 3
   Foreign language .................................................. 3
   Analytical reasoning ............................................. 3
   Humanities ......................................................... 12
   Literature .................................................................. 6
   Fine Arts ................................................................ 3
   Philosophy or Religion ........................................... 3
   Social sciences ....................................................... 18
   ECON 103, 104; GOVT 132; HIST 122 ....................... 12
   ANTH 114, 332 ..................................................... 6
   Laboratory science .................................................. 8

II. A required core of International Studies courses (24 hours)

   GOVT 132, 133 (6) (preferably in freshman year)
   GOVT 243-244 (6) (preferably in sophomore year)
   GOVT 340, 341 (6) (preferably in junior year)
   GOVT 449 (3) (must be completed in last semester)
   ECON 390 or 390 (3)

III. Advanced courses in international studies (18 hours)

   Two courses from GOVT 330s, 430s (6)
   Two courses from GOVT 340s, 440s (6)
   Two courses from a selected list of courses drawn from other disciplines including geography, history, economics, sociology, anthropology and foreign languages (list to be revised annually) (6)
   3 hours of GOVT 480 or 490 may be substituted for the GOVT hours with permission of adviser

IV. Free electives (22 hours)


BS Degree with a Major in Fire Administration and Technology

Please note that the required courses in Computers, Accounting and Information Systems have been changed.

This program is designed principally for students who have completed their professional courses at Northern Virginia Community College and who desire to earn a baccalaureate degree. However, under appropriate circumstances it may be open to other students as well. Credits earned in Northern Virginia Community College courses in fire science may not be transferred to other majors within the University. Not more than one-half of the total of 128 semester hours required by this program may be transferred to the University from one or more junior or community colleges. Furthermore, a minimum of 45 semester hours of upper division courses is required.

Fire Administration and Technology Program

Requirements

<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>General</td>
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<tr>
<td>English composition</td>
</tr>
<tr>
<td>Literature, humanities and/or speech</td>
</tr>
<tr>
<td>Science with laboratory</td>
</tr>
<tr>
<td>Mathematics (MATH 110 and 111)</td>
</tr>
<tr>
<td>Sociology (SOCI 101)</td>
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<tr>
<td>Government (GOVT 103 and 204)</td>
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<tr>
<td>Psychology (PSYC 100)</td>
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<tr>
<td>Management (MGMT 301)</td>
</tr>
</tbody>
</table>

Major requirements

1. Fire science—at NVCC .......................... 20
   Fire science—at GMU .......................... 20
   Fire science—courses that satisfy one of the AAS degree programs but excluding FIRE 290 and 298. Not more than 30 semester hours of fire science credits may be included in the BS program at this University. .......................... 30

2. Directly related .......................... 9

3. Management tools—three courses to be selected from the following options:
   Accounting: ACCT 201 and 202
   Statistics: MATH 250
   Computer science: CS 261 or INFS 201

3. Concentration

   To consist of 18 hours of coursework additional to that offered to meet requirements designated above and taught by either the School of Business Administration, the Department of Public Affairs, or by the Departments of Psychology and Sociology, in combination. The maximum possible hours of credit, but not fewer than nine, should be earned by completing courses numbered at the 300 and 400 levels. Only courses of psychology and sociology may be mixed to form a concentration.

Acceptable courses by academic unit are:

School of Business Administration
   ACCT 201, 202, 311, 312, 331, 332, 411, 471
   INFS 201, 310, 311, 312
   MGMT 311, 381, and 411

Departments of Psychology and Sociology
   PSYC 211, 220, 230, 231, 310, 325 and 361
   SOCI 203, 205, 304, 308, 332, 340, 373, 392, 401, and 441
   Department of Public Affairs
   GOVT 309, 355, 356, 358, 401, 402, 451, and 452

Open electives .......................... variable
Sufficient credit hours in courses of the student's unrestricted choice may be earned as is necessary to bring the total presented for graduation to 128 semester hours of credit.

**Graduate**

There have been changes in the degree requirements for the MS in Geographic and Cartographic Sciences and for the MPA in Public Administration. The new requirements are as follows:

**Master of Science in Geographic and Cartographic Sciences**

This program is designed to serve the needs of: a) those currently employed in research, technical, or teaching fields related to geography or cartography and who wish to improve their occupational skills; b) those with baccalaureate degrees in geography or cartography who desire to improve their skills before entering a career; c) and those who wish to earn a master's degree as a prelude to additional graduate work in geography or cartography.

**Program Entrance Requirements**

In addition to meeting all general requirements for admission to the Graduate School, students must have a BA or BS in geography or cartography, or the equivalent. They must present GRE aptitude scores taken within five years. They must have earned a GPA of 2.75 during their last two years of undergraduate work. Three letters of recommendation and transcripts of all college coursework must be submitted in support of the application. In addition to these general program requirements, applicants must have completed a course in statistics. Persons who do not have undergraduate degrees in geography or cartography must take the following before beginning graduate work: a course in physical geography, a course in human geography, a course in regional geography, a course in cartography, and a course in statistics. Applicants who intend to elect a large number of highly technical cartography courses in their degree programs are advised that some preparation in elementary photogrammetry, FORTRAN or BASIC, calculus, or matrix algebra is highly desirable.

**Degree Requirements**

Each student must complete a core of 6 required courses (18 hours) in geographic and cartographic sciences (prefix GECA). These required courses are:

- GECA 579 Remote Sensing
- GECA 652 Computer Applications in Cartography
- GECA 653 Geographic Information Systems
- GECA 680 Seminar in Geographic Thought and Methodology
- GECA 785 Geographic Fieldwork
- GECA 585* Quantitative Methods

*(new course; separated out of 785)

In addition to this core of five technological and one philosophical/methodological courses, the student may choose from a number of GECA electives at the 500 level and above to complete his/her program. Some of these courses are cartography, others are applied geography. It is thus possible for a student to gain some degree of specialization by careful choice of electives. Up to 6 hours of work in closely related disciplines may also be applied to the degree, with the approval of the department.

A thesis is optional in the M.S. in Geographic and Cartographic Sciences. Students may elect to complete a 33 hour program which includes 6 hours of thesis, or they may complete 36 hours of coursework with no thesis required. The non-thesis option shall be open to all students who graduate under this catalog, even though they may have begun their program prior to the introduction of the new 18 hour core. Those students who elect to write a thesis should refer to the Graduate Policies and Procedures section of the 1982–83 catalog for regulations concerning the thesis committee, style, and fees.

**MPA Degree Requirements**

All students in the MPA program must meet the following requirements in addition to those established by the Graduate School:

1. **Analytic and Managerial Tools** – Students in the MPA program must demonstrate proficiency in the use of the following analytic and managerial tools:
   a. Written Communication. Students must show the ability to write cogent, concise, precise, and lucid English. Proficiency in this area is proven through the preparation of course-related written work.
   b. Statistics
   c. Either Computer Science or Accounting. Students may demonstrate their proficiency in statistics, computer technology, and accounting either by completing an appropriate course in each of those subjects, or by satisfying the MPA faculty that work experience clearly demonstrates proficiency of the appropriate tool.

2. **Core Courses (18 hours)** – required of all students in the MPA program. PUAD 502, 503, 611, 612, 615 and 700 (PUAD 700 to be taken in the final semester of a student's program.)

3. **Distributive Requirements (9 hours)** – students must take the course related to their concentration and 2 of the other 3. PUAD 620, 640, 660 and 670.

4. **Concentrations (9 hours).** One concentration is required of each student. The concentration is composed of 3 courses (in addition to the one taken in the distributive requirement).

   - Public Financial Management
     PUAD 661, 662, 769
   - Public Management
     PUAD 621, 622, 729
   - Public Personnel Administration
     PUAD 671, 672, 779
   - Public Policy Analysis
     PUAD 641, 642, 749
   - State and Local Government Administration
     PUAD 651 or 759
     PUAD 662, 671

This concentration is designated either "state" or "local" depending on which of the first two courses is taken. The other courses in the concentration may have either focus, students should check with the instructors to determine the content of these courses. Students should also note that the second two courses have prerequisites that may be fulfilled as part of their distributive requirements.

Additional concentrations may be developed to meet the specific needs of students. Such concentrations must be developed in cooperation with the student's advisor, and the concentration program must be approved by the director of the Public Administration Program. Examples of such concentrations include Administrative Regulation, Environmental Administration, International Development Administration, Planning Administration, Public Health Administration, and Public Works Administration.
Transfer and Equivalency Credit

Transfer Credits. Subject to overall University requirements, a student with prior approval of the graduate faculty adviser may transfer a maximum of 6 semester hours of graduate work completed at another fully accredited institution of higher learning. As appropriate, and with the prior approval of the graduate faculty adviser, these 6 hours may be used to fulfill the MPA degree requirements. Such transfer credit hours must have been completed prior to admission as a degree student to the MPA program at the University. In addition to all other requirements, the credits must have been earned within 6 years of admission as a degree candidate to the MPA program; the credits must not have been previously used to satisfy any requirement for any other University degree; and the credits must relate closely to the field of public administration, covering, for example, such subjects as public administration, government, political science, management, policy analysis, behavioral science, or similar material. Approval of transfer credits in the MPA program must be obtained from the student’s graduate adviser and from the faculty of the Department of Public Affairs. Decisions on transfer credits by the faculty of the Department of Public Affairs are final, subject to overall approval of the Dean of the Graduate School.

Equivalency Credit. Students who, prior to admission to the MPA program, have had extensive professional, managerial, administrative, or technical experience in the public service and who have successfully completed programs of instruction of graduate level caliber for which no graduate academic credit was awarded, may request the Department of Public Affairs to grant graduate credits therefor. The department may grant graduate credit for such work not to exceed 6 graduate semester hours. Instructional experiences submitted for consideration as academic credit must have been completed in programs that operate at an instructional level comparable to that of a university graduate school; or have been conducted by recognized professional societies that present courses of comparable graduate level; or have been conducted by an accredited university. Credit, if granted, will be awarded at the rate of 3 semester hours for each 45 clock hours of instruction. In no case, however, may more than 3 credit hours be awarded for a single instructional experience (e.g., completion of one full session at the Federal Executive Institute). The graduate faculty adviser in the Department of Public Affairs must find that equivalency credits proposed for acceptance into the MPA program fit the career needs and program requirements of the individual student.

Students who petition for such equivalency credit must submit to the Department of Public Affairs the following:
1. Name, address, and affiliation of the organization that conducted the instruction.
2. Name, description, contents, and requirements of the course.
3. Name, profession, qualifications, and position of the instructor or instructors.
4. Exact dates, duration of the course, and the total hours of contact with the instructor.
5. Evaluation of the course by the student.
6. Account of the instructional tools, physical environment, and materials used during the course of instruction.
7. If available, evidence that the course was successfully completed. In all cases, the courses for which equivalency credit are claimed, if any, must have been completed prior to admission as a graduate student under the MPA program at the University.

Limitation on Transfer and Equivalency Credits

1. A minimum of 30 graduate semester hours of credit must be earned at George Mason University toward the Master of Public Administration degree.

2. A maximum of 12 graduate semester hours of credit may be earned toward the Master of Public Administration degree by a combination of the following:
   a. Transfer of no more than 6 graduate semester hours of credit awarded according to the paragraph headed "Transfer Credit" of this section, and/or
   b. By award of not more than 6 graduate semester hours of credit awarded according to the paragraph headed "Equivalency Credit" of this section.
   c. Transfer and equivalency credits cannot total more than 6 hours unless some of these hours can be accepted as comparable to one or more of the required courses in the MPA program. To the extent that transfer or equivalency credits correspond to required courses, the transfer and/or equivalency credits may increase to a maximum of 6 hours of each type.
   d. After admission to degree status in the Master of Public Administration program by earning at one or more universities offering accredited graduate programs a maximum of 6 transfer graduate semester hours of credit not available in the graduate curricula of George Mason University. These courses must receive the approval of the student’s graduate faculty adviser and the Graduate Dean prior to registration at another institution and must be relevant to the student’s professional development. Students should read the paragraph of the Graduate School academic regulations entitled “Permission to Take a Course Elsewhere.”

3. The graduate semester hours of credit resulting from options exercised under section 2 may not exceed more than 12 hours from any combination of the above options. The 12 hours thus allowed is reduced by the number of hours taken through extended studies.

Social Work

Faculty
Associate Professors: Polivka (Chair), Hughes, Raskin
Assistant Professors: Bowler, Greene, Turner

Department of Social Work Coursework

This department offers all coursework designated SOCI in the Course Dictionary of the catalog. For a complete description of the BS degree in Social Work see the 1982–83 catalog p. 84. Please note that the requirement of 12 elective hours outside of the behavioral sciences has been eliminated (see p. 4, no. 6).

Sociology

Faculty

Professors: Scimecca (Sociology) (Chairman), Gittler (Sociology), Williams (Anthropology)
Associate Professors: Borkman (Sociology), Hickey (Sociology), Kolker (Sociology), Krech (Anthropology), Rader (Sociology), Tavani (Sociology)
Assistant Professors: Anderson–Sherman (Sociology), Avruch (Anthropology), Black (Anthropology), Golomb (Anthropology), Horton (Sociology), Paikovich (Anthropology), Rosenblum (Sociology), Schueter (Sociology)

Lecturers: Badr (Sociology), Bragdon (Anthropology), Courtless (Sociology), Daddio (Sociology), Doan (Sociology), Harris (Sociology), Jacobs (Sociology), Lucas (Sociology), McVoy (Sociology), Myers (Sociology), Rizvi (Sociology), Wyatt (Sociology), Yrckh (Sociology)

This department offers all coursework designated ANTH and SOCI in the Course Dictionary of the catalog. For a complete description of the BA degree with a major in Anthropology or Sociology see the 1982–83 catalog p. 85.
Graduate

Master of Art (M.A.) in Sociology

The following statement of degree requirements and required courses supersedes those listed in the 1982–83 catalog pp. 85–86. For a detailed discussion of the MA in Sociology see pp. 85–86 of the 1982–83 catalog.

Degree Requirements

Degree students are required to complete 33 hours consisting of 12 hours of core requirements. Students may choose either an applied or a general track. The faculty has expertise in the areas of Suburban–Urban Studies; Criminal Justice; Medical Sociology and Health Delivery Systems, and Clinical Sociology. Students are encouraged to elect courses in these concentrations.

Required Courses

The following courses are required of students in both the General and Applied concentrations:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 612</td>
<td>Contemporary Sociological Theory</td>
<td>(3)</td>
</tr>
<tr>
<td>SOCI 620</td>
<td>Design of Social Research</td>
<td>(3)</td>
</tr>
<tr>
<td>SOCI 630</td>
<td>Analytic Techniques of Social Research</td>
<td>(3)</td>
</tr>
<tr>
<td>SOCI 640</td>
<td>Social Theory and Social Policy</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

The following is required of those in the General concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 611</td>
<td>Classical Sociological Theory</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>A Master’s Thesis</td>
<td>(6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(9)</td>
</tr>
</tbody>
</table>

The following is required of those in Applied concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 510</td>
<td>Applying Sociology</td>
<td>(3)</td>
</tr>
<tr>
<td>SOCI 632</td>
<td>Evaluation of Social Programs</td>
<td>(3)</td>
</tr>
<tr>
<td></td>
<td>A Master’s Thesis or Applied Project</td>
<td>(6)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(12)</td>
</tr>
</tbody>
</table>

Those in the General concentration will be able to take 12 credits of electives. Those in Applied concentration will be able to take 9 credits of electives. Up to 6 credits of electives can be from appropriate courses in other disciplines.

Transfer Credit:

Subject to University requirements, a student may transfer with prior approval of his/her graduate faculty adviser up to 6 graduate credits taken at another university.
College of Professional Studies

Mission

The College of Professional Studies is dedicated to preparing competent practitioners in the fields of human services. Students come to the College from diverse backgrounds and are encouraged to seek excellence through programs of study which have become increasingly multidisciplinary in order to emphasize the richness and complexity of the human personality.

All degree options require that students experience knowledge in a variety of disciplines in order to become thoughtful, informed, and skilled members of their professions.

The College of Professional Studies has a unique position within the university community. Its mission derives from the integration and application of knowledge from a variety of disciplines, including the practicing disciplines. The professional school develops in the student the potential for research and practice. Students integrate this wide scope of learning and define their personal contribution within the real world in which they will function.

Majors and degrees possible in the College of Professional Studies are: Bachelor of Science in Education (BS Ed) with majors in early childhood education, elementary education, health education, physical education, and vocational education; Bachelor of Science in Nursing (BSN); and Bachelor of Science in Parks, Recreation, and Leisure Studies (BS).

Programs

The College of Professional Studies enrolls students preparing for specific professions. The College is composed of 3 departments in which baccalaureate professional programs are offered as major fields of study:

Department of Education
- Early Childhood Education ................................ BS Ed
- Elementary Education ........................................... BS Ed
- Vocational Education .......................................... BS Ed

Department of Health and Physical Education
- Health Education ................................................. BS Ed
- Physical Education .............................................. BS Ed
- Parks, Recreation and Leisure Studies ...................... BS Ed

Department of Nursing .......................................... BSN

Administration

Larry S. Bowen, Dean
Betty J. Schuchman, Assistant Dean

Teacher Certification

The College of Professional Studies is responsible for professional courses, special standards, and certification recommendation for students desiring to complete requirements for the Virginia Collegiate Professional Teaching Certification in all state-approved and NCATE-accredited programs preparing teachers and administrative, supervisory, and related instructional personnel. Virginia requires persons seeking initial certification to submit score(s) obtained on National Teacher Examinations. Information on these tests can be obtained from the Teacher Certification Specialist in the Education Department.

Academic Policies and Degree Requirements

College of Professional Studies academic policies and degree requirements are described in detail under the following departmental sections: Education, Health and Physical Education, and nursing.

Sample Schedules

Sample schedules listed are illustrative only. Courses need not be taken in sequences or semesters indicated, except as prerequisites or other necessities prescribe.

Education

Faculty

Professors: Azarowicz, Beyer, Bindel, Bowen, Edgemon, Gistrap, Martin, Montebello, Skikell

Associate Professors: Levy (Chairman), Bonfadini, Carroll, Chu, Dobson, Duck, Dzama, Given, Gray, Jacobs, Sears, Schuchman, Seligman, Smith, C. Thomas

Assistant Professors: Behrmann, Collier, Doebler, Fauth, Haynie, Isenberg, Jacob, Jones, W. Thomas

Instructor (clinical): Burnham


Department of Education Coursework

This department offers all coursework designated EDAS, EDCI, EDGC, EDRD, EDSE, EDUC and DAED in the Course Dictionary of the catalog.

The Department of Education offers a BS in Education with a major in Early Childhood or Upper Elementary Education or a major in Industrial Arts and Trade and Industrial Education. In addition to the work associated with the major in Early Childhood and Upper Elementary Education, one may pursue a specialization in one of the following areas: Bilingual/Multicultural Education, Vocational Education. In addition, one may pursue a program of certification for Secondary School Teaching. For a complete description of these programs and specialties see the 1983-84 catalog pp. 88-90.

Instructional Applications of Microcomputers

Students in either the elementary or secondary Master of Education programs may complete a specialization in the Instructional Applications of Microcomputers. This specialization is designed to enable students to incorporate microcomputers in the instructional programs of elementary and secondary schools.

In addition to general degree requirements, program requirements for the degree include EDCI 701, 782 or 783, and one course selected from EDCI 567, 569, 572, 573, 658, 663, 666 or EDUC 565. Specific courses required in the specialization are EDCI 530, 532, 630, and 730. Interested persons should consult an adviser for the specialization.

Graduate

Master of Education Programs

The Department of Education offers the Master of Education degree (M.Ed.) in the following fields: elementary education,
guidance and counseling, reading, school administration and supervision, secondary education, and special education.

For a complete description of these programs see the 1982–83 catalog pp. 91–94. The requirements for the program in School Administration and Supervision have been changed significantly. The following statement supersedes the one found in the 1982–83 catalog.

Page 93, Bottom left and right columns – Change description of School Administration and Supervision program to the following:

Education Administration and Supervision

The Master of Education program in education administration and supervision is designed to enable qualified individuals to prepare for positions of leadership in education. Students may personalize their study in order to focus on the institutional environment to which their interest in leadership related.

Entrance Requirements

Applicants for certification or endorsement in school environments must:
1. Provide evidence of certification at the Collegiate Professional level by the state of Virginia or another jurisdiction.
2. Have completed 2 years of successful teaching experience, a portion of which must be at the level where qualification is desired.
3. Be recommended by 3 professional educators in the position of principal, supervisor, or administrator, including at least one who has observed the applicant’s teaching.
4. Present a 3.0 or better undergraduate GPA.

All other applicants must:
1. Present a 3.0 or better undergraduate GPA.
2. Be recommended for graduate study in education leadership by 3 persons relevant to the institutional environment in which the leadership is to be based. At least one of these references should be currently such a leader.

Degree Requirements

In addition to departmental degree requirements, students must take at least one course in each of the following:
1. Curriculum appropriate to the student’s specialization
2. Administration appropriate to the specialization
3. Supervision of instruction
4. Seminar in education leadership (EDAS 789)
5. Practicum in education leadership (EDAS 790)

Approved electives permit students to specialize in administration or supervision and to meet requirements such as those for endorsement as school administrator or supervisor in Virginia.

Courses

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical, philosophical, or sociological foundations</td>
<td>3</td>
</tr>
<tr>
<td>Psychological foundations</td>
<td>3</td>
</tr>
<tr>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>Curriculum administration</td>
<td>3</td>
</tr>
<tr>
<td>School administration</td>
<td>3</td>
</tr>
<tr>
<td>Supervision of instruction</td>
<td>3</td>
</tr>
<tr>
<td>School law</td>
<td>3</td>
</tr>
<tr>
<td>School-community relations</td>
<td>3</td>
</tr>
<tr>
<td>Education finance</td>
<td>3</td>
</tr>
<tr>
<td>Personnel administration in education (Pending)</td>
<td>3</td>
</tr>
<tr>
<td>Seminar in education leadership</td>
<td>3</td>
</tr>
<tr>
<td>Practicum in education leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 36

Sample Program

Department of Health and Physical Education Coursework

The department offers all coursework designated HEAL, PHED, and PRLS in the Course Dictionary of the catalog.

Requirements for the Degrees

Undergraduate

Physical Education

Bachelor of Science in Education Degree in Physical Education with Teacher Certification

The physical education major includes basic coursework in biological and social sciences with special preparation in theory and methodology of physical education and education meeting state certification requirements for teaching grades K–12. Students must take both the Common and the Physical Education Area Examinations of the National Teacher Examinations prior to being recommended for state certification.

For a complete description of the requirements for this program see the 1982–83 catalog pp. 95–96. The following certification requirements have been added since the last catalog.

Certification in Athletic Training

Certification in Athletic Training by the National Athletic Training Association (NATA) may be obtained through meeting the following requirements:

Educational Requirements

A. A college degree with teaching certification.
B. Completion of the following courses:
1. Anatomy and Physiology – Biology 124-125
2. Physiology of Exercise – Physical Education 450
3. Applied Anatomy & Kinesiology – Physical Education 300
4. Psychology (two courses)
5. First Aid and CPR – HEAL 111
7. Remedial Exercise – Physical Education 308
8. Personal, Community, and School Health – HEAL 110 & 120
9. Techniques of Athletic Training – Physical Education 430
10. Advanced Techniques of Athletic Training – Physical Education 431
11. Clinical Experience – 1800 clock hours of on the job training with a certified athletic trainer over a period of at least two years.

Recommendations

A. Acting team physician.
B. NATA supervising athletic trainer.

Doctor of Arts in Education

The Doctor of Arts in Education (DA Ed) program offers an advanced liberal–professional education for individuals pursu-
Examination

Students must pass written and practical tests administered by NATA and make application for certification.

Note: The requirements are subject to change and students must meet current NATA certification standards.

The department also offers a BS in Education in Health Education with Teacher Certification and with a Community Health Specialization. Check with the department for the distribution requirements for these programs.

Parks, Recreation and Leisure Studies

Bachelor of Science in Parks, Recreation and Leisure Studies

This degree is designed to prepare students for management careers in private and public recreation agencies or park systems. A broad background in the behavioral sciences is required for people management and leadership at recreation sites, with additional training in the biological sciences to aid in natural resource decision making. Specialized coursework in management, marketing, economics and communication systems provide a strong base for the professional courses in planning, design operation and evaluation of park and recreation facilities. The curriculum provides three options: park resources, recreation services and leisure studies.

Requirements for a Bachelor of Science Degree in Parks, Recreation and Leisure Studies:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>32</td>
</tr>
<tr>
<td>Language Arts and Culture</td>
<td>12</td>
</tr>
<tr>
<td>ENGL 101,102, COM 120, LAC (3) (Art, Music, Drama, Literature)</td>
<td>11</td>
</tr>
<tr>
<td>Science</td>
<td>9</td>
</tr>
<tr>
<td>BIOL 103,104, INF 201</td>
<td>9</td>
</tr>
<tr>
<td>Behavioral Science</td>
<td>9</td>
</tr>
<tr>
<td>ECON 103, SS (6) GEOG, ANTH, PSYCH, SOC, GOVT</td>
<td>9</td>
</tr>
<tr>
<td>Professional Interest Option (2nd year)</td>
<td>12</td>
</tr>
<tr>
<td>Park Resource Option</td>
<td></td>
</tr>
<tr>
<td>Emphasis in science (Biology, Chemistry, Geology and technology courses)</td>
<td>3</td>
</tr>
<tr>
<td>Recreation Service Option</td>
<td></td>
</tr>
<tr>
<td>Emphasis on social and behavioral sciences with skill development in physical, social or cultural arts</td>
<td>3</td>
</tr>
<tr>
<td>Leisure Studies Option</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>To include a minimum of six (6) semester hours in a combination of 200 and 300 level courses taken outside the Parks, Recreation and Leisure Studies major,</td>
<td>6</td>
</tr>
<tr>
<td>Professional Development Program</td>
<td></td>
</tr>
<tr>
<td>PRLSISO103,205, PRLS activities courses, HEAL 111, PRLS 305, 310, 315, 320, 326, 405, 410, 415, 420, 425</td>
<td>44</td>
</tr>
<tr>
<td>Field Experience</td>
<td>16</td>
</tr>
<tr>
<td>PRLS 325,400,401,450</td>
<td></td>
</tr>
<tr>
<td>Management Emphasis</td>
<td>12</td>
</tr>
<tr>
<td>ACCT 201, MGMT 301, MKTG 301, ECON 104</td>
<td></td>
</tr>
</tbody>
</table>

Graduate

Master of Science in Physical Education

This program is designed to serve the needs of: a) those currently employed in teaching, sports or fitness fields related to physical education and who wish to improve their occupational skills; b) those with baccalaureate degrees in physical education who desire to improve their skills before entering a career; and those who wish to earn a master's degree as a prelude to additional graduate work in physical education.

Graduate Assistantships

Administrative, research, and teaching related graduate assistantships are available in the Department of Health and Physical Education. Persons awarded assistantships may be assigned to one or more of the various programs, services, or faculty in the department. To be eligible for an assistantship, a student must be admitted to degree status and take a minimum of 6 semester hours of graduate credit each semester. Interested students should contact the Health and Physical Education Department office for applications. Information about other types of graduate financial assistance can be found in the Student Information section of this catalog.

Department Entrance Requirements

In addition to fulfilling the Graduate School entrance requirements, the applicant must:
1. hold a bachelor's degree in physical education or related field
2. submit three letters of recommendation
3. submit transcripts of all college coursework
4. must have completed courses in Human Anatomy and Physiology, Kinesiology and Exercise Physiology. Applicants who do not meet these requirements may be offered provisional or non-degree status in accordance with the general regulations of the Graduate School.

Departmental Degree Requirements

In addition to fulfilling the Graduate School degree requirements, the candidate must complete the following program:

To be eligible for an assistantship, a student must be admitted to degree status and take a minimum of 6 semester hours of graduate credit each semester.

Program Entrance Requirements

In addition to fulfilling the Graduate School entrance requirements, the applicant must hold a bachelor's degree in health education or related field and submit three letters of recommendation, submit transcripts of all college coursework, must have completed courses in Biology, Human Anatomy, Physiology. Applicants who do not meet these requirements may be offered provisional or non-degree status in accordance with the general regulations of the Graduate School.

Program Degree Requirements

In addition to fulfilling the Graduate School degree requirements, the candidate must complete the following program:

Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAL 511 History and Philosophy of Health Education</td>
<td>15</td>
</tr>
<tr>
<td>HEAL 512 Scientific Dimensions of Healthful Living</td>
<td></td>
</tr>
<tr>
<td>HEAL 513 Current Issues in Health Education</td>
<td></td>
</tr>
<tr>
<td>HEAL 516 Curriculum Development and Resources in Health Education</td>
<td></td>
</tr>
<tr>
<td>HEAL 517 Health Education Process: School and Community</td>
<td></td>
</tr>
<tr>
<td>HEAL 500 Workshop Courses of Health Elective</td>
<td>6</td>
</tr>
<tr>
<td>Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Historical, Philosophical or Sociological Foundation</td>
<td>3</td>
</tr>
<tr>
<td>Psychological Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Research or Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Successful Completion of Written Comprehensive Examination

Total Semester Hours: 33
### Department of Nursing Coursework

This department offers all coursework designated NURS in the Course Dictionary of the catalog.

For a complete description of the requirements for the Bachelor of Science in Nursing and the Master of Science in Nursing see the 1982–83 catalog pp. 98–100. Check with the department regarding the conditions for acceptance into Junior Study. The following certificate program has been added since the 1982–83 catalog.

#### Graduate Certificate in International Nursing

**Purpose**

The Graduate Certificate in International Nursing provides an opportunity for students to enrich their understanding of international health through a sequence of courses including but not limited to international nursing, anthropology, international relations and economics.

**Program Requirements**

Students applying to the certificate program must be in degree status in the graduate nursing program or hold a master’s degree from the N.L.N. accredited program. Application is made through the Graduate School of the University.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 611</td>
<td>Anthropology of Health</td>
</tr>
<tr>
<td>NURS 698</td>
<td>International Nursing</td>
</tr>
<tr>
<td>NURS 699</td>
<td>Practicum in International Nursing</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Suggested Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOVT 536</td>
<td>Context of Development</td>
</tr>
<tr>
<td>ECON 560</td>
<td>Economics of Development</td>
</tr>
<tr>
<td>ECON 563</td>
<td>Seminar in Latin American Development</td>
</tr>
<tr>
<td>NURS 670</td>
<td>Cultural Dimensions of Aging</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Students must complete all required courses and two electives with a 3.0 GPA, to be granted the certificate.
## School of Business Administration

### Aims

The basic philosophy of the School of Business Administration is reflected in these goals:

1. To present degree and non-degree programs that serve the needs of the citizens of Northern Virginia.
2. To attract, maintain, and support a multidisciplinary business administration faculty that meets the various career, intellectual, and developmental needs of its students.
3. To encourage a balanced faculty orientation toward teaching, research, scholarship, and community service that recognizes individual strengths and preferences while advancing the academic excellence of the University as a whole.
4. To structure graduate and undergraduate programs with a focus on preparing students for professional careers which are responsive to community needs based on continuous assessments, interdisciplinary resources, and coordination with other institutions.
5. To foster an atmosphere of open communication among students, faculty, and community which contributes significantly to the professional development of students and faculty.

### Administration

The administrative office for the School of Business Administration is located in Room 4611, Robinson Hall.

Lloyd M. DeBoer, Dean
Ben F. Sands, Jr., Assistant Dean for Undergraduate Program

### School of Business Administration Coursework

The School of Business Administration offers all coursework designated ACCT, BUAD, BULE, DESC, FNAN, INFS, MGMT, MKTG, and REUD in the Course Dictionary of the catalog.

### Requirements for the Degree

#### Undergraduate

**Bachelor of Science Degree**

The programs in business administration offered by the University culminate in a BS degree with majors in accounting, business administration, decision sciences, finance, management, or marketing. A minimum of 122 hours of coursework is required.

The areas of concentration in the majors are designed to meet the needs of students with highly diverse interests and career goals: careers in business or government, graduate work, or studies which will support their current occupation or profession. Each of the 5 faculties has developed groups of required and optional courses pertaining to specific areas of concentration within each major.

All students must complete at least 30 semester hours in this degree program following acceptance to Junior Standing. Of these 30 semester hours, at least 18 must be in the required and elective semester hours of concentration in a major, and 3 semester hours must be in the policy course (MGMT 498).

#### Degree Requirements

The following requirements must be met by all degree applicants.

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Core Courses</td>
<td></td>
</tr>
<tr>
<td>Accounting (ACCT 201, 202)</td>
<td>6</td>
</tr>
<tr>
<td>Applied Statistical Analysis (DESC 201)</td>
<td>3</td>
</tr>
<tr>
<td>Computer-Based MIS (INFS 201)</td>
<td>3</td>
</tr>
<tr>
<td>Decision Models (DESC 301)</td>
<td>3</td>
</tr>
<tr>
<td>Business Legal Studies (BULE 301, 401)</td>
<td>6</td>
</tr>
<tr>
<td>Finance (FNAN 301)</td>
<td>3</td>
</tr>
<tr>
<td>Management (MGMT 301)</td>
<td>3</td>
</tr>
<tr>
<td>Marketing (MKTG 301)</td>
<td>3</td>
</tr>
<tr>
<td>Business Strategy and Policy (MGMT 498)</td>
<td>3</td>
</tr>
<tr>
<td>Major</td>
<td>28</td>
</tr>
<tr>
<td>Language Arts and Culture</td>
<td>18</td>
</tr>
<tr>
<td>English Composition (ENGL 101, 102)</td>
<td>6</td>
</tr>
<tr>
<td>Oral Communication (COMM 101 or 130)</td>
<td>3</td>
</tr>
<tr>
<td>Literature</td>
<td>6</td>
</tr>
<tr>
<td>Humanities (Any ARTH (Art History) course, or DANC 101, 391)</td>
<td>6</td>
</tr>
<tr>
<td>MUSI 101, 105, 106, 107, or THR 101, 351, 352, 353, 356, 357, or any PHIL (Philosophy) or any RELI (Religion) course</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>27</td>
</tr>
<tr>
<td>Principles of Economics (ECON 103, 104)</td>
<td>6</td>
</tr>
<tr>
<td>Economics (Upper level, including ECON 306 or 310)</td>
<td>6</td>
</tr>
<tr>
<td>History or Government or Geography</td>
<td>3</td>
</tr>
<tr>
<td>Psychology and/or Sociology/and/or Anthropology</td>
<td>6</td>
</tr>
<tr>
<td>General and Health Sciences</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics (MATH 108, 109)</td>
<td>6</td>
</tr>
<tr>
<td>Laboratory Sciences (Astronomy, Biology, Chemistry, Geology, Physics)</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>122</td>
</tr>
</tbody>
</table>

1. Completion with a grade of C or better required before or in semester of application for acceptance to Junior Standing.
2. Must be taken at George Mason University.
3. Approved areas of concentration within a major are shown in each program.
4. May include no more than 4 semester hours of physical education activity courses.
5. May include a maximum of 62 semester hours of credit from accredited 2-year institutions.

### Change in Business Legal Studies Sequence

A change in the Business Legal Studies sequence for the School of Business Administration becomes effective with the 1982 Fall semester. The required sequence of BULE 301 and 302 is replaced by the sequence BULE 301, 401. Students who have completed the old sequence are not required to complete the new sequence, but may take BULE 401 for general elective credit. Students who have completed BULE 301 in the old sequence should take BULE 401 in order to finish the sequence.

### Change in Mathematics–Statistics Sequence

A change in the mathematics–statistics sequence for the School of Business Administration became effective with the 1980 Fall Semester. The required sequence of MATH 107, 109, DESC 202, 301 was replaced by the required sequence of MATH 108, 109, DESC 202, 301. Students who have completed the old sequence are not required to complete the new sequence. Students who have only completed 1–3 courses of the old sequence should consult the table below for the courses they must complete in order to finish the mathematics–statistics sequence.

#### Have Completed

<table>
<thead>
<tr>
<th>Course</th>
<th>Must Complete</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>MATH 108, 109, DESC 202</td>
</tr>
<tr>
<td>MATH 107, 109</td>
<td>MATH 109, DESC 202</td>
</tr>
<tr>
<td>MATH 108</td>
<td>MATH 109, DESC 202, 301</td>
</tr>
<tr>
<td>MATH 107, 108, DESC 205</td>
<td>DESC 202</td>
</tr>
</tbody>
</table>

Students who will complete the required mathematics–statistics sequence by taking DESC 202 may take courses with a prerequisite of DESC 301 following completion of DESC 202. A minimum of 30 hours of coursework must be completed following acceptance to Junior Standing. Of these 30 hours, 18
must be in the upper-level business courses required or elective concentration in a major offered by the School of Business Administration, and 3 must be in MGMT 498. No upper-level (courses numbered 300 or 400) business credits other than those designated "Business Core Courses" will be accepted for graduation, except for general elective credit, unless taken in residence following acceptance to Junior Standing. This restriction applies only to courses taken in the Fall 1981 and succeeding semesters.

Acceptance to Junior Standing in Business Administration

Acceptance to Junior Standing is competitive and limited to the resources available to the School and an appropriate share of projected total University enrollment.

To apply for acceptance to Junior Standing, students must meet these eligibility requirements:

1. Completion of 60 or more hours at the University, or by acceptable transfer credit by the end of the semester in which application is made.
2. Completion of these courses or equivalent with a grade of C or better in each course: ENGL 101 and 102; ECON 103 and 104; MATH 108 and 109; ACCT 201 and 202; INF5 201; and DESC 202 by the end of the semester in which application is made.

*For the 1982-83 academic year, students in residence who will complete the Mathematics-Statistics requirements by taking DESC 202 will be allowed to present MATH 109 in their application for acceptance to Junior Standing in lieu of DESC 202. Such students are expected to complete DESC 202 in the following semester.

The decision to accept a student to Junior Standing is based on grades received in all coursework completed by the student at the University and/or another college, including that completed during the semester of application.

Note: failure to perform satisfactorily (defined as satisfactory grades in more than two-thirds of the credit hours undertaken) during the semester of application is cause for denial of acceptance to Junior Standing, regardless of the student's overall performance.

Acceptance to Junior Standing is competitive based on quality of academic work and the courses presented on the application. Special consideration is given to grades earned in the courses specified in eligibility requirement no. 2 above and any other courses offered by the School of Business Administration that students may have completed prior to acceptance.

Students should file for acceptance to Junior Standing as soon as eligible. The deadline in any given semester is on or before February 1 or October 1. Applications received after these dates will be returned. Students have the right to appeal a denial.

Students planning to transfer to the University from another institution and who have completed or will complete the requirements for acceptance to Junior Standing by the end of their current term should make application on or before the appropriate deadline. A student planning to transfer to the University in, e.g., the Fall Semester, is required to apply for acceptance to Junior Standing on or before the deadline for application in the preceding Spring Semester. Failure to comply with this requirement will mean that the student, if admitted, would enter the School as a pre-business student and would be expected to apply for acceptance to Junior Standing in the semester following the semester admitted. Upper-level, non-core business courses (required or elective in the major) taken during the first semester of attendance in such a case may be presented on the application for graduation as general elective credit only.

Students should submit an application for acceptance to Junior Standing as soon as eligible. In the case of a full-time student in residence, this should be no later than the beginning of their fourth semester. In the case of a part-time student or student intending to transfer, this should be no later than the beginning of the semester in which the requirements for acceptance will be completed. Note that "semester" does not include summer terms.

All business administration students newly admitted to the University who previously was pursuing a degree in the School of Business Administration is classified as pre-business unless in their previous enrollment they had been accepted to Junior Standing. The program for pre-business students is administered by the Assistant Dean for Undergraduate Program.

Upon acceptance to Junior Standing, students must complete the requirements for the degree as declared majors in accounting, business administration, decision sciences, finance, management, or marketing. The programs of business administration majors are administered by the Faculty Chairman of the School of Business Administration and the Assistant Dean for Undergraduate Program.

Sample Schedules

Sample schedules for pre-business students and students accepted to Junior Standing are shown below. The Sample Schedule shown for pre-business students should be completed in the sequence shown if at all possible. The Sample Schedule for students accepted to Junior Standing is illustrative only. Courses need not be taken in the precise sequence or semesters indicated, except as prerequisites or other necessities prescribe.

### Sample Schedule for First Four Semesters in Pre-Business

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
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<tbody>
<tr>
<td>ECON 103</td>
<td>ECON 104</td>
</tr>
<tr>
<td>ENGL 101</td>
<td>ENGL 102</td>
</tr>
<tr>
<td>MATH 108</td>
<td>MATH 109</td>
</tr>
<tr>
<td>Laboratory Science</td>
<td>Laboratory Science</td>
</tr>
<tr>
<td>Humanities</td>
<td>Humanities</td>
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<table>
<thead>
<tr>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>ACCT 202</td>
</tr>
<tr>
<td>INF5 201</td>
<td>History or government or geography</td>
</tr>
<tr>
<td>Literature</td>
<td>Literature</td>
</tr>
<tr>
<td>DESC 202</td>
<td>Oral communication</td>
</tr>
<tr>
<td>Psych or soci or anthrop</td>
<td>COMM 101 or 130</td>
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<td>Psych or soci or anthrop</td>
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*Completion with a grade of C or better required before or in the semester of application for acceptance to Junior Standing. 

### Sample Schedule for Students Accepted to Junior Level Standing

<table>
<thead>
<tr>
<th>Fifth Semester</th>
<th>Sixth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>BULE 301</td>
<td>BULE 401</td>
</tr>
<tr>
<td>DESC 301</td>
<td>ECON 306 or 310</td>
</tr>
<tr>
<td>FNAN 301</td>
<td>Area of concentration</td>
</tr>
<tr>
<td>MGMT 301</td>
<td>Elective</td>
</tr>
<tr>
<td>MKTG 301</td>
<td></td>
</tr>
</tbody>
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<thead>
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<table>
<thead>
<tr>
<th>Seventh Semester</th>
<th>Eighth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area of Concentration</td>
<td>MGMT 498</td>
</tr>
<tr>
<td>ECON upper-level elective</td>
<td>Area of Concentration</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
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</tbody>
</table>
Accounting/Business Legal Studies

Faculty
Associate Professor: Coffinberger, Floyd, Samuels, Stagliano (Faculty Chairman)
Assistant Professors: Buchanan, Cao, Jones, Lynn, Millspaugh, Potts, Swanson
Instructors: Clarkson, Ingram, Reisig
Lecturers: Berkowitz, Bueter, Capps, Carroll, Dabney, Dawson, Donovan, Gillespie, Harr, LeRosen, Mehal, Michaud, E. Miller, J. Miller, Norcio, O'Rourke, Pape, Pope, Patterson, Rizzo, Schoen, Schoenauer, Sielicki, Steele, Stephens, M. Williams, Wills, C. Woehrle, T. Woehrle

The accounting faculty offers a major in accounting with four areas of concentration designed to prepare students for careers in accounting and related fields. In addition to general degree requirements for the BS degree, students must complete 18 hours in upper-level courses. Within the major, students must choose an area of concentration.

For a complete description of the available concentrations, see the 1982-83 catalog p. 103.

Finance/Real Estate and Urban Development

Faculty
Associate Professors: Johnston (Faculty Chairman), Hysom
Assistant Professors: Crawford, Grimshaw, Kim, Oblak, Pierce
Lecturers: Shaikh, Winter

The finance and real estate and urban development faculty offers a major in finance with 5 areas of concentration designed to prepare students for professional careers in finance as well as in real estate and urban development. In addition to the general degree requirements for the BS degree, students desiring to major in finance must complete 18 hours in upper-level courses.

Within the major, students must choose an area of concentration.

For a complete description of the available concentrations, see the 1982-83 catalog p. 104.

Business Administration

The faculty of the School of Business Administration, with the Assistant Dean for Undergraduate Programs, offers a major in business administration with 4 interdisciplinary areas of concentration. In addition to the general degree requirements for the BS degree, students must complete 18 hours of upper-level courses. NOTE: Students may not utilize the major in business administration if credit for more than one major is desired.

Within the major, students must choose an area of concentration.

For a complete description of the available concentrations, see the 1982-83 catalog p. 103.

Decision Sciences

Faculty
Professor: Greenberg
Associate Professors: Baum, Hardgrove, Ruth, Siff, (Chairman)
Assistant Professors: Gardner, Koll, Mitchell, Parent, Ridley, Rogue
Instructors: Bocast, Schank
Lecturers: Beutel, Bryant, Carlson, Chamberlain, Hwang, Onasch, Quitmeyer, Pugh, Sheehan, Weed, Wenker

The Decision Sciences Faculty offers a variety of courses and programs that deal with the application of the modern technologies of computer information systems and management science to practical problems of both business and governmental organizations. The faculty is also responsible for the undergraduate core courses in data processing, statistics and quantitative analysis.

The faculty offers a major in Decision Sciences with concentrations in the areas of General Decision Sciences, Management Science, and Information Systems. Within the concentration of Information Systems, one of three tracks in Applications, Decision Support Systems, or Computer Systems Programming may be pursued. As the names indicate, each track provides a different perspective on information systems. In addition to the general degree requirements for the BS degree, students desiring to major in decision sciences must complete 18 hours in upper-level courses.

Within the major, students must choose an area of concentration.

For a complete description of the available concentrations, see the 1982-83 catalog pp. 103-104.

Management

Faculty
Professors: English, Steinhauer (Faculty Chairman)
Associate Professors: Kovach, Marchione, Sands
Assistant Professors: Bolce, Carper, Duke, Ondeck, Roberson-Bennett, Pejar
Acting Assistant Professors: Smith
Senior Lecturers: Stimson
Lecturers: Cohany, Godden, Gordon, Gray, Haggard, Hampton, Hanser, Heenan, Henry, Kreps, O'Kelley, Ridolfi, Schlie, Zimmer

The management faculty offers a major in management with 3 areas of concentration designed to prepare students for managerial careers in the public and private sectors. In addition to general degree requirements for the BS degree students must complete 18 hours in upper-level courses.

Within the major, students must choose an area of concentration as shown below. The list of courses presented for the concentration differs somewhat from that presented in the 1982–83 catalog.

Concentration in General Management
Required: MGMT 311, 321, 411 or 471, 461 or 491
Electives: Two or more from MGMT 331, 341, 381, 411, 421, 431, 451, 461, 471, 491

Concentration in Personnel/Industrial Relations
Required: MGMT 311, 321, 331, 421 or 431
Electives: Two or more from MGMT 341, 381, 411, 421, 431, 451, 461, 471, 491

Concentration in Entrepreneurship & Small Business Management
Required: MGMT 311, 381, 451, 461, or 491
Electives: Two or more from MGMT 321, 341, 461, 491, ACCT 311, INFS 411, MKTG 311, 332

Note: Students may take additional management courses as well as other courses offered by the School of Business Administration to satisfy any or all of the 15 hours of "General Elective" requirements for graduation.

http://catalog.gmu.edu
Marketing

Faculty
  Professors: DeBoer (Dean), Tongren
  Associate Professor: Entrikin (Faculty Chairman), McCrohan
  Assistant Professors: Domzal, Goretsky,
  Instructors: Rishell,
  Lecturers: Cramer, Hoelzel, Iodice, B. Jones, Mason, McNallen, Rahn

The marketing faculty offers a major in marketing with 6 areas of concentration designed to prepare students for careers in marketing and related fields. In addition to general degree requirements for the BS degree, students must complete 18 hours in upper-level courses. Within the major, students must choose an area of concentration. For a complete description of the areas of concentration see the 1982–83 catalog.

Graduate

Master of Business Administration
  The MBA program is designed to provide an advanced level of professional education in the several functional areas of business administration.
  For a complete description of the entrance and degree requirements for the MBA see the 1982–83 catalog pp. 105–106.

Note the following change under electives:
  In addition to the chosen areas, each candidate must complete at least two graduate courses (6 hours) in courses outside of the selected specialty area.
  BUAD 799: Thesis
  (Substitute for BUAD 788 and one elective course)

Master of Science in Information Systems
  The Master of Science in Information Systems is a rigorous program in the modern field of computer based information systems technology. Offered by the Decision Sciences Faculty of the School of Business Administration, it is designed for baccalaureate degree holders from a variety of disciplines who wish to pursue careers in this vital field. Decidedly applications-oriented, the program recognizes, and is aimed at satisfying, the need in both the private and public sectors for graduate trained individuals who are both technically proficient and organizationally and managerially qualified. The program provides a strong technical foundation from which critical skills in the design, development, and management of information systems are developed.
  For a complete description of the entrance and degree requirements see the 1982–83 catalog pp. 106–107.
Division of Continuing Education

Interdisciplinary Programs

Administration
Robert T. Hawkes, Jr., Dean
Sally J. Reithlingshoefer, Assistant Director

Programs and Services
The Division of Continuing Education provides the Northern Virginia community with a comprehensive program of learning opportunities: the nontraditional Bachelor of Individualized Study degree program; undergraduate evening programs; the nursing continuing education program; in-service education; the Extended Studies Enrollment procedure; off-campus credit instruction; contract courses; undergraduate guest matriculant enrollment; senior citizen enrollment; community services; and noncredit courses. Academic programs offered through the Division of Continuing Education originate in the appropriate colleges and schools of the University and are subject to official University regulations and procedures. The Dean of the Division of Continuing Education serves as the academic dean of all students enrolled in programs administered by the Division.

For a complete description of the programs sponsored by the Division of Continuing Education and the requirements and procedures for enrolling see the 1982–83 catalog pp. 109–112.

University Courses

Committee on University Curriculum Matters
John M. Smith, (Chairman), Richard F. Baum, Barry K. Beyer, Richard L. Coffinberger, Amelia A. Rutledge

On January 26, 1977, the Faculty Senate of the University voted to establish a new category of courses, University Courses. These were first offered during the Spring 1978 semester.

University Courses are special academic offerings which are interdisciplinary, in-depth presentations of broad interest. Proposals for University Courses are developed by faculty, usually by several acting together. After review and approval by the University Faculty Standing Committee on Curriculum Matters, these courses are administered by the Office of the Vice President for Academic Affairs. Unless specific prerequisites are indicated, the courses are open to all students.

University courses are designated UNIV. Descriptions appear in the Course Dictionary.

Certificate Programs
The Faculty Senate, acting on advice from the committee on University Curriculum Matters, has established guidelines for the offering of certificate programs by the various units of the University. Not meant as substitutes for degree programs, these certificate programs are special sequences of credit study, the completion of which is signified by the awarding of a certificate. Their use may be significant to individuals who already hold degrees and/or who are greatly interested in the fields in which these certificates are offered.

Each of the colleges and schools of the University has the ability to devise certificate programs, following the University guidelines.

Presently the University offers certificates in: Gerontology, Nursing Education, International Nursing, Nursing Administration at the Middle Management Level, Psychology Technician, Teaching of English as a Second Language, Cartography, and Environmental Management. For a complete description of these programs, except International Nursing, see the 1982–83 catalog of pp. 113–115. The certificate program in International Nursing is a new program. A complete description can be found in this addendum under the Nursing department listing in the College of Professional Studies.

The University offers several graduate programs which because of their interdisciplinary character are not housed in a single department. These programs are the Master of Science in Conflict Management, the Master of Science in Operations Research and Management Science, and the Master of Arts in Interdisciplinary Studies. The latter two tracks in Individualized Study and in Liberal Studies. For a complete description of the MS in Conflict Management and the MS in Operations Research and Management Science see the 1982–83 catalog pp. 115–116. The MA in Interdisciplinary Studies is a new program and is described below.

Master of Arts in Interdisciplinary Studies (MAIS)
The Master of Arts in Interdisciplinary Studies (MAIS) differs from traditional graduate programs by offering individual study
which emphasizes the integration of knowledge from various disciplines. With the help of an adviser, students in the program design a course of study which is tailored to their particular interests and needs. Since most of the courses are offered in the evening, the program is especially suitable for people who are pursuing a career and wish to attend on a part-time basis.

The MAIS is divided into two tracks, Liberal Studies and Individualized Studies. The Liberal Studies (LS) track offers a broad course of study for those who wish to explore the fundamental ideas of Western culture within the context of contemporary society. In addition to appealing to students who wish to broaden the humanistic dimension of their knowledge, this track is also of value to business and professional people who feel the need for liberal studies in order to cope with the complex issues posed by modern society. In addition, teachers, librarians, and similar professionals often find that this program offers a useful alternative to graduate work in a single discipline. For students with less specific goals, the program may be more satisfying than participating in a series of unrelated courses. Students in the LS track choose one broad area of concentration from four interdisciplinary topics: 1) Technology and Culture, 2) The Secular and the Sacred, 3) The Arts and Society, and 4) Personal, Social, and Political Values. Within their areas of concentration, students pursue an individually designed course of study.

The Individualized Study (IS) track is designed for students who have specific professional or career interests in interdisciplinary areas which are not served by traditional graduate programs. Students in this track may combine courses from various disciplines which are appropriate to their particular career needs. Since the IS track is for the professionally oriented student, applicants must demonstrate their career interests by prior work and educational experience in their proposed area of concentration. Under the guidance of a faculty adviser, students entering the program develop an area of concentration which is tailored to their particular interests. A major part of the IS program is the completion of a project which integrates knowledge gained from courses with the student's career interests. Students in the IS track may earn credit for prior experimental learning related to their field of concentration.

Liberal Studies Track, MAIS

The LS track of the MAIS offers a broad, interdisciplinary course of study that elucidates the fundamental ideas and values of Western culture and seeks to interpret these ideas and values within the context of contemporary society. This track is directed primarily to employed adults possessing at least a baccalaureate degree, who wish to broaden the humanistic dimensions of their knowledge in an integrated and disciplined course of study.

Admission Requirements

In addition to fulfilling the entrance requirements of the Graduate School, applicants to LS track are expected to provide: i) three letters of recommendation, and ii) a written statement of 750-1000 words detailing the reasons for choosing this degree program rather than a more traditional one. Care should be given to the preparation of the statement. The applicant should cover the following issues in the statement: a) in terms of your goals and objectives, why the LS track of the MAIS is more appropriate than a traditional masters program; b) in view of the four concentrations listed above, detail the interests you wish to pursue within this degree; c) how you see this degree relating to your previous education and/or life experience.

Degree Requirements

The program is designed to provide students with (1) a common framework for examining and understanding the origins, historical development and contemporary impact of ideas and values that are characteristic of western culture, and (2) opportunity for individually designed courses of study leading to in-depth analysis of particular issues or problems confronting the paradigms of western culture in contemporary society. The key factors in this design are core seminars, an interdisciplinary concentration in an approval topical area, supporting coursework and a masters thesis (see below). Credit hours required for graduation total thirty-six, including six hours in core seminars, at least thirty hours in coursework at the 500-level including the masters thesis. Students must complete all requirements for the degree within six years of matriculation.

Core Seminars

Seminar I. Entering students are required to take an introductory three-hour graduate seminar during the first nine hours of their program. This seminar introduces the student to the study of human culture, as well as to the unique features of western culture in its origins and continuing historical development.

Seminar II. This seminar is designed to be the last course which the student takes before commencing work on the thesis. Through the vehicle of a problem or theme chosen by the professor, the student will again turn to the question of culture. In this case, however, they will apply the knowledge gained from the introductory seminar as well as the courses they have completed particularly those in the area of concentration.

Interdisciplinary Concentration

Students will choose, with the assistance of an adviser, an interdisciplinary project and area of study from among the following general topics:

1. Technology and Culture
2. The Secular and Sacred
3. The Arts and Society
4. Personal, Social, Political Values

Since each of these topics can be studied successfully from the perspective of several of the traditional academic disciplines (humanities, social sciences, etc.), students will be expected to choose courses from supporting departments in order to complete their fields of study.

Coursework and Master Thesis

Courses relating to the student's area of study may be selected, with approval of the student's adviser, from among the graduate offerings of the departments in the College of Arts and Sciences. Courses from other areas may also be selected if they contribute to an understanding of the student's project. At least six of the courses presented for the degree must be in the student's area of concentration.

The thesis is planned as the majority activity in the student's course of study in the chosen area of concentration. The thesis will be an interdisciplinary study of a significant problem identified by the student, and approved by the adviser, arising out of the student's coursework and research within the chosen area of concentration.

For further information contact:
Dr. Martin J. De Nys
Department of Philosophy & Religion
George Mason University
Fairfax, Virginia 22030
(703) 323-2255

Individualized Studies Track, MAIS

The Individualized Studies Track of the Master of Arts in Interdisciplinary Studies degree is a program designed for adult students who desire to continue their graduate education in non-traditional areas of study. Non-traditional areas of study are those in which degree programs are not offered.

Admission Requirements

Application to the program is completed when a student has (1) obtained counseling through the IS Office; (2) applied to the
Graduate School and submitted appropriate transcripts and three letters of reference; (3) filled out the application to the IS Program. All stages of the application process must be completed by June 1 for Fall admission and by November 1 for Spring admission.

Degree Requirements

This IS Track is a professionally oriented Master’s Program. Three years of work in the area of proposed study concentration must be demonstrated prior to acceptance in the program. A provision for credit for experiential learning may be included for students who successfully demonstrate to a panel of full time faculty advanced learning in the field of study. Credit is available for graduate level coursework taken in normal educational settings at non-university institutions (provided that such coursework has been evaluated by the American Council on Education).

The Individualized Study Track also requires that the student have demonstrated a commitment to graduate education by completing at least six hours of graduate level work related to the proposed concentration prior to admission to the program. Students who have not yet completed six hours of coursework may be admitted to provisional status.

The proposed course of study must be designed in conjunction with and approved by a full time member of the George Mason University faculty. A three credit Individualized Study Project is required. With approval of the faculty adviser and the chair of the department of the faculty adviser, a six credit IS Thesis may substitute for the I.S. Project.

Transfer Credit Provisions of IS Track

The Individualized Studies Track allows acceptance of up to 12 hours of transfer credit provided that such coursework has a minimum grade of B and provided that the coursework relates to the area of proposed concentration. In all cases a minimum of 18 hours of coursework at George Mason University must be completed with a minimum grade of B (excluding credit for experimental learning and IS Project or Thesis credits). In total, a minimum of 36 hours towards the MAIS degree must be completed. No more than 12 hours of coursework in a single discipline may be taken at George Mason University and offered toward the 36 hour requirement in the IS Track. The extent to which transfer credit and credit earned at George Mason University in the same discipline may be offered toward the degree will be determined on an individual basis.

For further information contact:
Dr. James W. Fonseca
Division of Continuing Education
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Effective with the Fall 1983 semester the University will launch a new, experimental program in general education called PAGE. The program is described below.

Plan for Alternative General Education (PAGE)

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PAGE Coursework

The PAGE faculty offers all coursework designated “PAGE” in the Course Dictionary of this catalog addendum.

Prerequisites

Only students enrolled in the PAGE program are eligible to take PAGE courses.

PAGE Program

The George Mason Plan for Alternative General Education is an integrated, sequential general education program, introducing students to a wide range of concepts and subject matter in the humanities, social sciences, sciences, and mathematics, as well as developing and increasing literacy in writing and speaking and in the use of the computer. The PAGE program fulfills, in whole or in part, general education and graduation requirements for a bachelor’s degree at George Mason.

Students in PAGE will not only explore a range of diverse academic fields, such as computer science, history, mathematics, physics, biology, arts, literature, sociology, and political science, but will also learn how these disciplines influence and interact with each other. The program emphasizes both breadth of knowledge and the acquisition of skills and provides opportunities for students to integrate and apply both knowledge and skills in order to prepare themselves better for living and working in contemporary society. Augmenting the interdisciplinary thrust of the various courses in PAGE will be two weekly lecture series (1 credit each) by PAGE faculty and guest lecturers.

Model PAGE Curriculum Sequence

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http://catalog.gmu.edu
# Course Dictionary

A comprehensive list of undergraduate and graduate credit courses offered by the University can be found in the 1982-83 catalog pp. 117-164. The list below contains only those courses that have been newly approved or have been substantially altered since the 1982-83 catalog was published. Courses are listed in alpha-discipline order beginning with “Accounting” and ending with “Vietnamese.” The computer name for courses is included with each heading. Except where obvious (i.e. English), the department offering the course is cited in the heading. The computer names used are:

- Accounting: ACCT
- American Studies: AMST
- Anthropology: ANTH
- Arabic: ARAB
- Art History: ARTH
- Art Studio: ARTS
- Astronomy: ASTR
- Biology: BIOL
- Business Administration: BUAD
- Business Legal Studies: BULE
- Cartography (Graduate): GECA
- Chemistry: CHEM
- Chinese: CHIN
- Classics: CLAS
- Communication: COMM
- Computer Science: CS
- Doctor of Arts in Education: DAED
- Dance: DANC
- Decision Sciences: DESC
- Economics: ECON
- Education: EDUC
- Education: Administration/Supervision: EDAS
- Education: Elementary/Secondary: EDCI
- Education: Guidance/Counseling: EDGC
- Education: Reading: EDRD
- Education: Special Education: EDSE
- Engineering: ENGR
- English: ENGL
- European Studies: EUST
- Finance: FNAN
- Foreign Language: FRLN
- French: FREN
- Geography (Undergraduate): GEOG
- Geography (Graduate): GECA
- Geology: GEOL
- German: GERM
- Government and Politics: GOVT
- Greek: GREE
- Health Education: HEAL
- History: HIST
- Information Systems: INFS
- Italian: ITAL
- Japanese: JAPA
- Korean: KORE
- Latin: LATN
- Latin American Studies: LAS
- Library Science: LSCI
- Management: MGMT
- Marketing: MKTG
- Mathematics: MATH
- Medical Technology: MCH
- Music: MUSI
- Nursing: Nurs
- Operations Research: OR
- Park, Recreation, and Leisure Studies: PRLS
- Philosophy: PHIL
- Physical Education: PHED
- Physics: PHYS
- Portuguese: PORT
- Psychology: PSYCH
- Public Administration: PUAD
- Public Affairs: PUAF
- Real Estate and Urban Development: REUD
- Regional Cultures: RELI
- Religion: RUSS
- Russian: SOCW
- Social Work: SOC
- Sociology: SOC
- Spanish: SPAN
- Statistics: STAT
- Theatre: THR
- University: UNIV
- Vietnamese: VIET

## Course Numbering and Abbreviations

### General

1. Course titles are followed by numbers in parentheses (0:0:0), separated by colons. The numbers have the following significance:

   - First number: semester credit hours for the course
   - Second number: hours of lecture/seminar per week for the course
   - Third number: hours of laboratory/studio per week for the course

2. For independent study, reading, topics, or similar courses, individual instructors set hours.

3. The following abbreviations are used in the course dictionary:

   - Pol: Permission of instructor
   - PoC: Permission of chairman, chairperson
   - PoD: Permission of department
   - hr: hour(s)
   - cr: credit(s)
   - sem: semester(s)
   - reg: registration/register
   - 24 hr: sophomore standing
   - 54 hr: junior standing
   - 84 hr: senior standing
   - lab: laboratory(ies)
   - sci: science(s)
   - nat: natural
   - non-W: non-Western
   - undergrad: undergraduate(s)
   - grad: graduate(s)
   - prereq: prerequisite(s)
   - coreq: corequisite(s)
   - req: required/d/requirement(s)/requirement(s)
   - intro: introduction/introductory
   - incl: including
   - equiv: equivalent(s)

### Undergraduate

1. Courses numbered 499 and below are undergraduate courses. 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.

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

   a. A single number (as HIST 301) indicates that the course is complete within a single semester, and that the semester course may be taken separately with credit toward a degree.

   b. A double number separated by a hyphen (as BION 124-125) indicates that the course extends through two semesters, that both semesters must be completed before the course may count toward a degree, and that the first semester is prerequisite to the second semester. Students may not take the second semester of a hyphenated course unless they have received either transfer credit for the equivalent of the first semester or advanced placement from the department concerned.

   c. A double number separated by a comma indicates that the subject matter or content of the course extends through two semesters but that either semester may be taken by itself. Unless otherwise specified, the first semester is not prerequisite to the second semester.

### Graduate

1. Courses numbered 500 and above are graduate courses.

2. Courses are occasionally renumbered by departments. Additional credit may not be received for a course under a different number if all requirements have been completed and a satisfactory letter grade has been earned in the course under its original number. Graduate students are required to determine prior to registration whether they have completed a subject in a prior semester under a different number. For one year after the change the new number is accompanied by the old number in parentheses. Thus, 791 (591) means that the old course number was 591, and the new course number is 791. Students also may check with the department.
offering the coursework to be certain that they are not repeating a graduate course for which they already have credit.

3. General Numbers for Graduate Courses:

500- Graduate courses open only to graduate students (admitted to master's or doctoral programs), to other bachelor's degree holders, and to approved advanced undergraduate students. Advanced undergraduate students who have secured the permission of the department offering the course may select from these courses to accumulate the hours necessary for the completion of an undergraduate degree.

600- Graduate courses open only to graduate students (admitted to master's or doctoral programs) and to other bachelor's degree holders.

700- Master's level graduate courses open only to graduate students (admitted to master's or doctoral programs). These numbers are used only for master's level coursework.

800- Doctoral level graduate courses open only to graduate students (admitted to master's or doctoral programs). These numbers are used primarily for doctoral level (post-master's) coursework.

4. Special Numbers for Graduate Courses (Courses with these numbers are reserved for the uses designated.)

609 Limited applicability graduate credit courses. Courses intended for in-service professional development and not directly leading to a graduate degree. From courses with these numbers a limited number of hours may be applied to a graduate degree.

798 Master's project research. A course under the supervision of a graduate faculty member resulting in the final professional project to be submitted in partial fulfillment of the requirements for the professional master's degree.

799 Master's thesis research. A course for research under the supervision of a graduate faculty member resulting in a master's thesis to be submitted in partial fulfillment of the requirements for the master's degree.

998 Doctoral project research. A course under the supervision of a graduate faculty member resulting in the final professional project to be submitted in partial fulfillment of the requirements for the professional doctoral degree.

999 Doctoral dissertation research. A course for research under the supervision of a graduate faculty member resulting in a doctoral dissertation to be submitted in partial fulfillment of the requirements for the doctoral degree.

890 Supervised practicum.

894 Internship.

796 Directed reading and research courses for master's and doctoral level students.

797 Independent reading and research courses for master's and doctoral level students.
American Studies (AMST)

310 Places and American Culture (3:3:0) Prereq 45 hr
The course will examine the relationship between the natural landscape and American culture. Particular subtiles will be announced and the courses may be repeated when the subtitle is different. Seminars are limited to 15.

320 Peoples and American Culture (3:3:0) Prereq 45 hr
The course will examine the relationship between the various peoples of the American continent and American culture. Particular subtiles will be announced, and the course may be repeated when the subtitle is different. Seminars are limited to 15.

340 Institutions and American Culture (3:3:0) Prereq 45 hr
The course will examine the relationship between American institutions and American culture. Particular subtiles will be announced and the course may be repeated when the subtitle is different. Seminars are limited to 15.

410 Senior Seminar in American Studies (3:3:0) Prereq AMST majors with 90 hrs. Senior majors in the Program will complete significant projects in the interdisciplinary concentration they have chosen. Seminars are limited to 15.

Department of Foreign Languages & Literatures

New Courses

Undergraduate

Arabic 101 Introduction to The Arabic Language (3) Prereq none Not part of a sequence that fulfills the foreign language requirement. Introduction to Modern Standard Arabic, with emphasis on the written language. Lab work required.

Arabic 102 Introduction to The Arabic Language (3) Prereq Arabic 101 or PoD Continuation of Arabic 101. Lab work required.

Business Legal Studies Courses (BULE)

School of Business Administration

Effective with Fall Semester 1981, non-core, upper-level (300-400 series) courses offered by the School of Business Administration may not be presented on an undergraduate degree application for any major in the School (except as general elective credit) if taken prior to acceptance to 54 hr. This restriction does not apply to such courses taken prior to Fall Semester 1981.

303 Law and Business Organization (3:3:0) Prereq BULE 301 Law of agency, bailments, business organizations contracts, and property.

401 Law, Business and Society (3:3:0) Prereq BULE 301, FNAN 301, MGMT 301, and MKTG 301 Interrelations between profit and non-profit organizations and their external political, social, economic, international, and ethical environments along with consideration of the public policy process and issues that arise out of the business environments. This course may not be taken by anyone who has previously taken and satisfactorily completed BULE 311 Principles of Business Law.

Cartography (GECA)

Public Affairs

551 Thematic Cartography (3:3:0) Prereq Grad stdig or Poli. Analysis of the nature of perceptual organization and visual systems in thematic map communication, portrayal, graphic handing and analysis of data.
Economics Courses (ECON)

754 Public Choice II (3:3:0) Prereq ECON 511 or Pol
This is the second course in the two course sequence in Public Choice. The Public Choice approach will be applied to study such topics as the causes and consequences of governmental growth, the behavior of public bureaucracies, and the economic reasoning behind constitutional limitations on the size and growth of government.

772 Managerial Economics (3:3:0) Prereq ECON 602 and BUAD 641.
Economic theory as it applies to specific business situations and decisions. Production levels, price determination, cost, competition, profits, supply-demand.

Education Courses (EDUC)

Courses numbered through the 400 series constitute the undergraduate program. Courses in the 200 and 300 series are open to all undergraduates. The 400 series is open only to students admitted to a Teacher Education Program. Students may not receive degree or for more than one of the comparable courses relating to early childhood and upper elementary grades. For example, students taking EDUC 407 may not receive degree or for EDUC 408.

Undergraduates may enroll in grad courses only upon exhausting all the upper–level undergraduate courses relevant to their educational objectives and upon demonstrating a level of maturity req for grad level courses. In these circumstances undergrads may, with the written permission of the course instructor and the chairperson of the department offering the course, register for grad courses (those numbered 500 and above) and apply the cr earned toward the undergrad degree. Undergraduates electing this option must have completed all Prereq hours and courses for the grad course in which they wish to enroll.

438 Vocational Education, Trade Area Technical Certification (30 sem. hr.) Prereq Teacher of Vocational Education. Advanced placement credits given to vocational teachers for certain teaching experience or completion of approved competency testing programs. Requests for approved credits by the office of Vocational Education will be considered upon admission to university course requirements.

587 Administration and Coordination of Cooperative Work Programs (ICT) - (COE) (3) Prereq Completion of undergraduate requirements in Vocational Education for Industrial cooperative instructors. This course will prepare teachers in developing and selecting cooperative work stations. Teachers will obtain proficiency in planning and working with advisory groups. Included in the course are materials related to employment opportunities, rules and regulations of employment, and design and completion of necessary documentation. State certification for Cooperative ICT instructor is included upon completion of this course. The course is the second in the required sequence for certification.

810 Problems and Methods in Education Research (2) Prereq Enrollment in Doctor of Arts in Education degree program or Pol. This is an advanced course in the interpretation and application of education research methods. Emphasis is on comparing alternative philosophies of research, ways of formulating questions/hypotheses, research plans and analysis procedures. Students will evaluate existing studies and participate in exercises designed to acquaint them with a range of research approaches.

811 Quantitative Methods in Educational Research (2) Prereq Successful completion of EDUC 610 or its equivalent or Pol. This course will introduce advanced methods of conducting research using quantitative methods of data collection and analyses which are appropriate for doctoral research in education. The emphasis of the course will be the design of experimental and quasi–experimental research studies and methods of analysis appropriate to these studies, including the analysis of variance and multiple linear regression. Students will also evaluate existing studies and will participate in exercises utilizing quantitative research methods.

812 Qualitative Methods in Educational Research (3) Prereq Successful completion of EDUC 610 or its equivalent or Pol. Enrollment in Doctor of Arts in Education program or Pol. In this seminar students will study and apply qualitative data collection and analysis in educational research. Focus will include ethnographic and other field-based methods, historical materials, and unstructured measures. Emphasis among these will vary depending on the research questions and needs of the students.

820 Evaluation Methods for Educational Programs and Curriculum (3) Prereq Successful completion of EDUC 610 or its equivalent or Pol. Course explores the evaluation needs and problems of public and private elementary and secondary schools as well as colleges and universities. The evaluation needs of government and industrial programs are also addressed.

Education Courses Administration/Supervision (EDAS)

725 Educational Finance (3:3:0) Study of the economic interdependence of educational systems and society and economic concepts as they relate to schooling. Focus on issues, solution sets, and philosophies of educational funding. This course may not be taken by anyone who has previously taken and satisfactorily completed EDAS 625.

Education Courses Elementary/Secondary (EDCI)

530 Programming Microcomputers in BASIC in Instructional Applications (3) Prereq None. Students will learn how to write and use programs on a microcomputer and the programming language BASIC. The major focus of the course will be learning to use the BASIC language to program microcomputers for instructional applications.

532 Programming Microcomputers in LOGO in Instructional Applications (3) Prereq EDCI 530 or Pol. Students will learn how to write and use programs in LOGO, an interactive programming language used in schools. They will program microcomputer activities which develop problem solving skills and testing abilities.

571 Teaching Mathematics in the Secondary School (3:3:0) Study of curriculum, current issues, and research literature in secondary school mathematics. Emphasis on teaching of different styles of teaching. Field experience req for those seeking initial teacher certification. Spring. Sem only. This course may not be taken by anyone who has previously taken and satisfactorily completed EDCI 572.

630 Supervising and Organizing Instructional Uses of Microcomputers (3) Prereq EDCI 530 or Pol. Teachers will learn how to use and write programs in LOGO, an interactive programming language used in schools. They will program microcomputer activities which develop problem solving skills and testing abilities.

730 Designing Learning Activities for Microcomputers (3) Prereq EDCI 530 or Pol. Students will design, write, implement, and evaluate microcomputer learning activities and ancillary materials for microcomputers.

Engineering Courses (ENGR)

Physics

207 Material Science (3:3:0) Prereq CHEM 211 Intro to microscopic structure of engineering materials and effects on macroscopic properties. Topics: crystalline and amorphous structures and defects, semiconductors, ceramics, and metals.

208 Fundamentals of Materials (3:3:0) Prereq ENGR 205 Concept of stress, strain, elasticity and plasticity, combined stress, torsion, stress and deflection of beams, statically indeterminate members, unbalanced bending, buckling of columns.

301 Digital Electronics (3:2:2) Intro to digital systems, circuits, and computers. Topics: binary systems and codes, digital logic gates and circuits, microelectronics and integrated circuits, coding and multiplexing, multivibrators, shift registers, counters, A/D converters, computer architecture. (Not intended for those majoring in Computer and Electronics Engineering.)

302 Electronic Devices (4:3:3) Prereq PHYS 342 or 351, or Pol. Lecture and laboratory course in electronics, semiconductor physics, electronic devices and circuits, feedback, design and operational characteristics of power supplies, amplifiers, oscillators, and digital logic circuits. (Not intended for those majoring in Computer and Electronics Engineering.)

308 ENGR Fluid Mechanics (3:3:0) Prereq ENGR 206, MATH 213 Principles of fluids in equilibrium and in motion. Topics include hydrostatic pressure, continuity, Bernoulli and momentum equations, viscous flow problems, measuring instruments, and applications to closed conduits and open channels.

331 Digital Electronics and Logic Design (3:3:0) Prereq ENGR 285 or Pol. Principles and techniques of logic design. Topics: digital devices and circuits. Topics: number systems, logic fundamentals, logic circuit families, flip–flops and latches, counters, registers, memories, A/D and D/A conversion, and computer architecture. ENGR 333 is normally taken concurrently with ENGR 331. Cr may not be received for ENGR (PHYS) 301 and 331.

333 Linear Electronics (3:3:0) Prereq ENGR 286 and PHYS 350. ENGR 334 is normally taken concurrently with ENGR 333. Cr may not be received for ENGR (PHYS) 302 and ENGR 333 Principles of operation and application of linear and analog electronics, circuits and devices.

334 Linear Electronics and Digital Systems (3:3:0) Prereq ENGR 107 and ENGR 205 Intro to basic operations and processes in engineering design and analysis. Topics include methodology for selection of alternatives, measures of investment worth, income and cost evaluation, depreciation methods, benefit–cost and cost–effectiveness analyses, and applications of decision trees to capital investment.

429 Control Systems Lab (2:1:3) Coreq ENGR 421 Lab associated with ENGR 421.

430 Principles of Semiconductors Devices (3:3:0) Prereq MATH 304, ENGR 332 or 302 or Pol Intro to Solid State Physics and its application to semiconductors and semiconductor devices. Topics: band theory, doping, p–n junctions, diffuson theory, low frequency circuits, devices, bipolar transistor, MOSFET, CMOS, photo transistors.

432 Digital Circuits and Systems Design (3:4:3) Prereq ENGR 331 and 332, or 301 with emphasis on advanced digital circuit and systems design and applications. Topics: sequential circuits – principles and realizations, tabular minimizations; logical design using LSI, timing analysis, digital systems case studies, code conversions.

434 Digital Computer Design and Interfacing (4:2:4) Prereq ENGR 331 and 332, or 301 or eqv Design of digital computers, microprocessor systems, and interfacing techniques. Digital logic circuits, flow diagrams, memory systems, I/O interface.

491 Engineering Seminar (1:0:0) Prereq 84 hr Engineer­
ing ethics, professionalism, the role of the engineer in society, current topics, employment opportunities.

540 Computer Engineering and Operating Systems and System Development (3:3:0) Prereq ENGR 341, 441, CS 311 or eqv General design principles of computer systems, the operating system of various types
325 Dimensions of Literature (3:3:0) An intensive study of the basic concepts, questions, and assumptions of the study of literature. All sections will address the study of genre and of literary history. Other issues such as author, region, ethnic, racial and sexual groups, and oral and popular culture will also be addressed in various sections of the course. Open to all majors, required of all English majors.

332 (300) Introduction to Film (3:3:0) Intro to film medium as an art form. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 350.

333 American Folklore (3:3:0) Topics incl folklore, personal narratives, legends, proverbs, jokes, folk songs, folk art, folk craft, and folk architecture. Consideration of ethnicity, community, family, festival, folklore in literature, and oral history. Discussion of students own lives. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 330.

334 Literary Approaches to Popular Culture (3:3:0) Emphasis on the reading and interpretation of popular prose genres to media which have strong verbal and visual elements. Relationship between verbal and non-verbal elements of such media as film, comics, and radio. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 331.

335, 336 Shakespeare (3:3:0), (3:3:0) 20 selected plays. First semester emphasizes histories and comedies; second semester, tragedies and romances. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 335.

347 (314), 348 (315), 414, 415 Special Studies in English I, II (3:3:0), (3:3:0) Prereq PoD Seminar sequence primarily, but not exclusively. Open to graduate students with Distinction and Recognition in English, ordinarily to be taken in addition to other courses. Specific texts and contexts from different periods of English and American literature are studied in order to consider the virtues and limitations of various perspectives on literary experience, and their relation to other areas of humanistic learning.

Special Studies I: A single major work, studied systematically in several different ways, from several critical perspectives, what each reveals or fails to account for.

Special Studies II: The career of a major author: the gradual assumption of authority, development of themes and techniques, interaction of life and work, adjustment of artistic vision to cultural change.

Special interdisciplinary: An subsection of a particular historical moment or relation between literature and fine arts, theology, philosophy, social and political history, scientific thought.

Special Studies IV: A single theme or motif traced through many literary periods and in a variety of genres. Literary history as the evolution of the ways fundamental questions have been articulated.

360 (307), 363 (308) Special Topics in Literature (3:3:0), (3:3:0) A study of literature by topics, such as women in literature, science fiction, and literature of the avant garde. Topics change each time the course is offered. May be repeated with PoD.

364 (300) Significant Authors (3:3:0) One or two major authors, such as Shakespeare, Dickens and Hardy, or Tolkien and C. S. Lewis, as announced. May be repeated with PoD.

366 (283) Jewish American Writers (3:3:0) Major twentieth-century American Jewish writers, incl works by such authors as Roth, Singer, Friedman, Mallamud, and Bellow. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 384.

367 (384) Literature of the Modern South: 1920 to the Present (3:3:0) Novels, short stories, drama, poetry, and essays of the American South. From post-World War I to recent times, the works of such authors as Faulkner, Warren, Tate, Wright, Porter, McCullers, Styron, and O'Conor. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 386.

369 Women and Literature (3:3:0) An exploration of the experience of women in American literature. A consideration of the imaginative literature. May be repeated once for credit when subject is different with PoD.

370 Recent American Fiction (3:3:0) American short story and novel writing in the present. This course, with emphasis on such writers as Mailer, Barth, Hawkes, Cheever, Oates, Gass, and Dorfman, and others.

371 Recent American Poetry (3:3:0) Major American poets from World War II to the present. This course, with emphasis on the work of such poets as Roethke, Wilbur, Dickey, Lowell, Merwin, Kinnell, and Ammons.

372 Introduction to Poetry Writing (3:3:0) Intro to the theory and practice of poetry writing. Original student work is read and discussed in class and in conferences with the instructor. Ict techniques in the craft of poetry and may include reading assignments. Individual students may do some work in fiction or drama, but the course concentrates on poetry.

373 Introduction to Fiction Writing (3:3:0) Intro to theory and practice of fiction writing. Original student work is read and discussed in class and in conferences with the instructor. Ict techniques in the craft of fiction and may include reading assignments. Individual students may do some work in poetry or drama, but the course concentrates on fiction. Students who have taken ENGL 396 may not take this course.

374 (342) Literature of the Middle Ages (3:3:0) Selected English and Latin literature from the late seventh century to the eleventh century, including Beowulf, Chaucer, and the works of such authors as Boccaccio, Chaucer, Dante, and Chaucer. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 345.

381 (445) English Poetry and Prose of the Sixteenth Century (3:3:0) English poetry and prose from the 15th to the 16th century. Excl Milton. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 345.

382 (454) English Poetry and Prose of the Seventeenth Century (3:3:0) English poetry and prose of the early Renaissance in England. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 345.

383 (455) The Augustan Age (3:3:0) English literature from the late seventeenth century to the middle of the eighteenth century, emphasis on works of Dryden, Swift, and Pope. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 357.

384 (456) English Poetry of the Romantic Period (3:3:0) Works of the major poets of the Romantic period. Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 361.

385 (461) English Poetry of the Victorian Period (3:3:0) Works of Tennyson, Browning, Arnold, Hopkins, Swinburne, and the Pre-Raphaelites. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 362.

408 Special Topics: British Literary Periods (3:3:0) A study in depth of a selected period of British literature. In addition to literary examples, materials may be chosen from the art, philosophy, or popular culture of the time. May be repeated once for credit when subject is different with PoD.

409 Film History and Theory (3:3:0) Prereq: ENGL 300 and 301 Advanced survey of the basic ideas of film and art and major theories concerning the nature of film.

423 (381) Colonial and Federalist American Literature (3:3:0) The works of the first 200 years of American literature. Edweds, Franklin, and Irving. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 382.

425 (382) Literature of the American Renaissance (3:3:0) Major writers of the American Renaissance (1830-1865), with emphasis on the works of Emerson, Thoreau, Hawthorne, Melville, Whitman, and Poe. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 382.

429 Special Topics: American Literary Periods (3:3:0) A Study in depth of a selected period of American literature. In addition to literary examples, materials may be chosen from the art, philosophy, or popular culture of the time. May be repeated once for credit with subject is different with PoD.

431 Medieval Intellectual Topics (3:3:0) (Same as HIST 431 and FRIL 431) May be taken for cr by English or history or English and history majors. Examination of the intellectual history of the Middle Ages. Specific topic may vary. The primary emphasis is literary or historical, depending on the discipline of the instructor. Relevant material drawn from theology, philosophy, and the arts.

432 (393) Selections from the Literature of the Indian Subcontinent (3:3:0) Selected literary masterpieces in translation from the ancient and modern literature of the Indian continent. Includes epics, plays, and poetry from Sanskrit, Hindi, Tamil, Urdu, and other literatures. (Course cr is accepted for the BA non-W req but may not be counted toward the reqs for the English major.) This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 393.

433 (394) Japanese Literature in Translation (3:3:0) Selected literary masterpieces from translation from ancient and modern Japan, incl a court romance (The Tale of Genji), essays (The Pillow Book), classical poetry, noh and Burrraku plays, haiku poetry, and modern fiction. Review of the genres and traditions represented by those masterpieces. (Course cr is accepted for the BA non-W req but may not be counted toward the reqs for the English major.) This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 394.

434 (395) Chinese Literature in Translation (3:3:0) Selected masterpieces of Chinese literature in translation, incl the Confucian classics, ancient songs and poems, Tang and Sung poetry and prose, Yuan and Ming plays, novels and short stories. (Course cr is accepted for the BA non-W req but may not be counted toward the reqs for the English major.) This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 395.

436 (377) Selected Continental Novels in Translation (3:3:0), (3:3:0) Selected European novels in translation. ENGL 436 concerns the continental novel from the eighteenth century to the end of the nineteenth century, and incl works of such writers as Balzac, Gogol, Sterndale-Turgenev, Flaubert, Dostoevski, Tolstoy, and Galdos. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 377.

437 (378) Selected Continental Novels in Translation (3:3:0) ENGL 437 deals with the continental novel from the beginning of the eighteenth century of the present and incl such writers as Proust, Mann, Gide, Seline, Kafka, Sarte, Coia, Moravia, and Grass. Attention to the influence of this literature on the novel in English. (Offered in cooperation with the Department of Foreign Languages and Literatures.) This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 378.

439 Special Topics: Non-British or American Literature (3:3:0) Study of selected topics, periods, genres or authors in Commonwealth or in Oriental literatures. May be repeated once for credit with subject is different with PoD.

440 (353) English Renaissance Drama (3:3:0) Major dramas and dramatists of the English Renaissance, exclu-
anyone who has previously taken and satisfactorily completed ENGL 356.

445 (374) English and Irish Drama of the Twentieth Century (3:3:0) English and Irish drama from Yeats to Pinter. Plays by such authors as O'Casey, Synge, Eliot, Frye, Osborne, Wesker, Behan, Delaney, and Pinter. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 374.

447 (389) American Drama of the Twentieth Century (3:3:0) American drama of the twentieth century, with special attention to the plays of Eugene O'Neill, Thornton Wilder, Arthur Miller, Tennessee Williams, and Edward Albee. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 389.

448 (375) Contemporary Drama (3:3:0, 3:3:0) Representative plays of contemporary dramatists of Europe and America, with emphasis on dramatic styles such as realism, expressionism, and existentialism. In alternate semesters, authors such as Ibsen, Strindberg, Hauptmann, Shaw, O'Neill, O'Casey, and others will be studied. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 375.

452 (387) Development of the American Novel to 1914 (3:3:0) Major American novels of the pre-World War I period, with emphasis on the work of Brown, Cooper, Hawthorne, Melville, Twain, Howells, James, Crane, Dreiser, Norris, and others. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 387.

453 (371) English Novel of the Nineteenth Century (3:3:0) The English novel of the nineteenth century. Works by such authors as Dickens, Thackeray, E. Bronte, Eliot, Trollope, Meredith, and Hardy. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 371.

454 (388) Development of the American Novel since 1914 (3:3:0) The American novel from the end of World War I to the present, with the work of such authors as Fitzgerald, Hemingway, Faulkner, Dos Passos, Wolfe, Bellow, and Nabokov. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 388.

456 (372) English Novel of the Twentieth Century (3:3:0) The English novel from the beginning of the twentieth century to the present. Works by such authors as Conrad, Ford, Hemingway, Joyce, Waugh, Greene, and others. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 372.

458 (465) Fiction Writing Workshop (3:0) Prereq: ENGL 397 or 398 or equiv and Pol. Students must submit a typed manuscript at least one week before they intend to register. For specific guidelines, consult the department's Course Description Booklet, the instructor, or the department secretaries. A workshop course, intensive practice in creative writing and study of the creative process. The course concentrates on a specialized literary type other than the short story or poetry (for example, playwriting, film-writing, children's literature, travel literature, autobiography, the gothic novel, translation) and the concentration is announced in the department's Course Description Booklet before preregistration. Intended for students already writing original creative work. (By Pol. may be taken a second time or for the additional 3 hr. may not be counted toward the req for the English major. No more than a combined total of 9 hr may be taken in ENGL 464, 465, 466. Students who have taken ENGL 465 may take 464, 465, or 466 up to a combined total of 9 hr.)

468 Special Topics in Poetry (3:3:0) Study in depth of selected topics, periods, or periods. May be repeated once for credit when subject is different with Pol.

471 (341) Chaucer and the Canterbury Tales. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 341.

472 (346) Special Topics (3:3:0) Poetry of Edmund Spenser, with emphasis on The Faerie Queene. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 346.

473 Special Studies in Shakespeare (3:3:0) Study in depth of one aspect of Shakespeare's art or critical issues surrounding his work. May be repeated once for credit when subject is different with Pol.

474 (355) Milton (3:3:0) Milton's major poetic works, with emphasis on Paradise Lost. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 355.

477 Special Topics: British Authors (3:3:0) Study of one or two major figures in British literature. May be repeated once for credit when subject is different with Pol.

481 (391) General Linguistics (3:3:0) Intro to general linguistics: phonetics, phonemics, morphology, and syntax. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 391.

485 Structure of Contemporary American English (3:3:0) Phonology, morphology, and syntax of contemporary American English. Accepted norms are discussed in detail, but dialect variation due to region or social class is also covered.

489 (407) Advanced Expository Writing (3:3:0) Theory and practice of advanced expository writing, practice in developing written and oral arguments, and skills in the use of computer forms. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 407.

490 (301) Special Topics in Film (3:3:0) American and foreign films, as well as features, period, or director. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 301.

491 Special Topics in Folklore (3:0) An exploration of various aspects of folklore and folk music such as folklore and literature, folk arts, folk song, material culture. May be repeated once for credit when subject is different with Pol.

492 (306) Science Fiction (3:3:0) Major works of science fiction in terms of the underlying or alternative techniques, especially the role of hypothesis in science fiction. Focus on novels and short stories from the early 19th century to the present. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 306.

493 Special Topics in Popular Literature (3:3:0) Study of a specific topic or theme in popular literature. May be repeated once for credit when subject is different with Pol.

494 (313) Special Topics in Criticism (3:3:0) Study in depth of a selected approach to literary criticism as announced with exercises in critical analysis. Examples new criticism, modernism, deconstruction, psychoanalysis. May be repeated with Pol.

495 (373) Literary Modes (3:3:0) Theory and practice of such modes as tragedy, comedy, tragicomedy, romance, and satire. Considered in varying genres over a variety of periods ranging from biblical times to the present, with examples from drama, poetry, and fiction. May be repeated with Pol.

496 (314) Special Topics: British or American Literature (3:3:0) Study in depth of a selected literary topic or genre. As announced. May be repeated with Pol.

497 (466) Special Topics in Creative Writing (3:3:0) Prereq ENGL 397 or 398 or equiv and Pol. Students must submit a typed manuscript at least one week before they intend to register. For specific guidelines, consult the department's Course Description Booklet, the instructor, or the department secretaries. A workshop course, intensive practice in creative writing and study of the creative process. The course concentrates on a specialized literary type other than the short story or poetry for example, playwriting, film-writing, children's literature, travel literature, autobiography, the gothic novel, translation, and the concentration is announced in the department's Course Description Booklet before preregistration. Intended for students already writing original creative work. (By Pol. may be taken a second time or for the additional 3 hr. may not be counted toward the req for the English major. No more than a combined total of 9 hr may be taken in ENGL 464, 465, 466. Students who have taken ENGL 465 may take 464, 465, or 466 up to a combined total of 9 hr.)

Recent changes in course numbers will affect the listings of prerequisites for the graduate courses in the Department of English as stated in the 1982-83 catalog. When consulting that catalog for course descriptions, please note the following changes.

Old
ENGL 391
ENGL 465
ENGL 466
ENGL 497
ENGL 620

New
ENGL 481
ENGL 458
ENGL 459
ENGL 489

499 (470) Independent Study (1-3:0) Prereq Pol. and Open: Only English majors with 84 hr and 15 hr in 300- and 400-level courses. Intensive study of a particular author, genre, period, or critical or theoretical problem in literature or linguistics, to be conducted by an individual student in close consultation with an instructor. The student produces at least one substantial piece of written work during the term on the findings of his or her research. (By Pol. the course may be twice for a total maximum of 6 hr of cr.)

520 (620) Descriptive Linguistics (3:3:0) An intro to the terminology and methodology of modern linguistic science, and to the related structural and functional approach to language, morphology, and syntax. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 620.

621 (821) Applied Linguistics: Teaching English as Foreign Language (3:3:0) Prereq Linguistics (descriptive or historical, grad or undergrad) Theories and basic principles of the acquisition of a second language, especially as they relate to the English language, supplying students with methods of teaching English to speakers of other languages. This course may not be taken by anyone who has previously taken and satisfactorily completed ENGL 621.

614 Internship in the Teaching of Writing (1:0) Prereq open to graduate students currently enrolled in ENGL 615-A. Subject to approval by the CTC Director or the Writing Place Director. Qualified students will serve as tutors for 3 hours a week in the University's Composition Center or in the English Department Writing Place under the guidance of the Writing Place Director. They will keep a journal on their experience and submit a paper at the end of the semester synthesizing what they have learned and describing their progress as teachers. No repeatable for credit.

622 The Structure of Contemporary American English (3:3:0) An introductory survey of the phonology, morphology, and syntax of the language as spoken in the United States. It is intended to familiarize instructors with the variation of language attitudes and dialect variation due to regional social class, and sex. This course is intended primarily for non-linguistic majors, it cannot be taken for credit by
students who have taken both ENGL 520 (620) and ENGL 522.

624 Syntax (3:3:0) Prereq ENGL 520 (620), 481 (391), or Pol. The study of transformational grammar. This course is intended to acquaint students with a broad range of syntactic phenomena (mainly from English) and with the style of argumentation and the notation system used in contemporary syntactic analyses.

799 Topics in the 3-4-5(S) Students who take ENGL 798 in order to develop a thesis topic and then elect the thesis option receive 3 cr for ENGL 799 upon completion of the thesis. Students who do not take ENGL 798, or who take it in order to work on a project unrelated to their thesis, receive up to 6 cr for ENGL 799 upon completion of the thesis.

FOR FURTHER INFORMATION, SEE THE 1982-83 CATALOGUE

Foreign Language Courses (FRLN)

431/ENGL 431 and HIST 431 Medieval Intellectual Topics (3:3:0) May be taken for cr by English, History, or Area Studies majors. Topic in the intellectual history of the Middle Ages. Specific topic varies. Emphasis is literary or historical, depending on the discipline of the instructor. Relevant material drawn from philosophy, theology, and art may be considered.

510 Materials and Methods of Scholarly Research (3:3:0) Prereq Grad stdg or PoD. Approaches to literature dealing with selected topics in literature, language, bilingualism, culture, methodology, etc. May not be normally applied toward the MA in foreign languages.

615 Literary Theory and Criticism (3:3:0) Study of the nature of the literary work, analysis of contemporary critical approaches to literature.

645 (454) The Study and Teaching of Literature (3:3:0) Prereq Grad stdg or PoD. Current methodologies of literary analysis. Emphasis on role of literature in foreign language programs, and on providing students with various methods of teaching literature. This course may not be taken by anyone who has previously taken and satisfactorily completed FRLN 545.

650 The Study and Teaching of Culture (3:3:0) Prereq Graduate standing or PoD Purpose and methods of the study of culture, with emphasis on strategies and techniques for teaching cultures foreign in foreign language programs.

665 Theory of Translation (3:3:0) Prereq Graduate standing Lectures on the nature and function of the translating process. Evaluations of theories of translation with respect to text-linguistic. Critics of selected translations from the target languages to English and vice versa.

660 Approaches to the Study of Language (3:3:0) Prereq Grad stdg or PoD. The discipline of linguistics and its relationship to other disciplines, incl study of generative grammar with syntactic problems drawn from common-taught foreign languages.

670 (570) Foreign Language Learning and Teaching (3:3:0) Theories, methods, strategies of second and foreign language learning and teaching. This course may not be taken by anyone who has previously taken and satisfactorily completed FRLN 570.

French Courses (FREN)

Foreign Languages and Literatures Placement. See Academic Policies and Procedures. 452 French-Canadian Literature (3) Prereq 15 sem hr of French or PoD. A study of the Francophone literature of Canada with emphasis on contemporary works.

GEOGRAPHY & GOVERNMENT (GECA)

Graduate Courses

M.S. in Geographic and Cartographic Sciences 503 (GEOG 403)

600 Seminar in Geographic Thought and Methodology (3:3:0) Prereq Grad stdg or PoD. Historical development of geographic thought and the current philosophy of geography. Analysis of the rationale for the discipline's various subfields. Role of geographic techniques and methods of analysis. Concept of region as both a tool and an object of study.

681 World Food and Population in Geographical Perspective (3:3:0) Prereq Grad stdg or PoD. Issues of malnutrition and population, regional disparities in growth rates and income distribution, food production and world hunger, agricultural concentrations of wealth, and the discussion of population policies, with emphasis on Third World countries.

684 Applied Economic Geography (3:3:0) Prereq Baccalaureate degree or PoD. Analytical techniques and patterns of location of economic activity, its theories and regional systems. Emphasis on case studies.

790 Selected Topics in Geography (3:0:0) Prereq Baccalaureate degree or PoD. Content varies, determined by student's and instructor's interests and expertise. May be repeated for cr.

969 Directed Readings in Research (1-3:0:0) Prereq Prof. director and PoD. Reading and Research on a specific topic, under the direction of a faculty member. Written report is req. oral exam and report may be req. May be repeated.

Geography Fieldwork (3:3:0) Prereq Acceptance to degree status and PoD into the nature, scope, and objectives of geographic field methods and techniques, incl the use of base maps, acquisition of data, and field research design. The course will be taught, as much as possible, in the field, with the students required to develop and carry out relevant field research projects pertaining to both physical and cultural geography.

979 Seminar in Regional Analysis (3:3:0) Prereq Baccalaureate degree or PoD. Analysis and synthesis of physical and cultural elements of geography in a selected region. Should be taken near the end of the master's degree program and should provide an opportunity for the student to apply methods learned in previous systematics courses to a specific region.

799 Thesis (3-6:0:0) Prereq Degree candidacy and departmental approval of thesis proposal.

Geology Courses (GEOL)

Geology

207 Petrology (4:3:3) Prereq GEOL 101, 102, & 201. The genesis, classification and recognition of igneous, sedimentary and metamorphic rocks. May incl field trips.

305 Optical Mineralogy (4:3:3) Prereq GEOL 101, 102, & 201. Optic properties and applications of minerals as a means of identification. Minerals are studied as crushed fragments, oriented mineral sections, and rock thin sections with the polarizing microscope. Introduction to the use of Universal Stage for 3-dimensional rotations of mineral specimens under microscopical examination.

314 Sedimentary Facies Analyses (3:3:0) Prereq GEOL 101, 102, 201, 202. Analysis of modern depositional systems and environments with the purpose of developing analogs for the recognition of ancient sedimentary environments. May incl field trips. 315 Topics in --. (3-0:0:0) Prereq GEOL 101, 102, PoD. A special topic course, as designated by the class schedule. May incl field trips.

417 Geophysics (3:3:0) Prereq GEOL 101, 102, 201, 301. MATH 113. 114. Seismological and gravitational theory and application to understanding the earth's interior.

514 Biostatistical and Biotopic Analysis (4:3:3) Prereq Acceptance in the Geology M.S. Program or PoD. Use of fossils in correlating and dating rock units in various fields of energy exploration. Relationships between fossils and paleo-environments. May incl field trips.

515 Advanced Structural Geology (3:3:3) Prereq Acceptance in the Geology M.S. Program or PoD. The concepts of stress and strain in rock materials, and the application of this theory, to understanding complex three-dimensional structures in deformed rocks. Emphasis is placed on a quantitative approach to resource deposits.

516Aclastic Stratigraphy (3:3:3) Prereq Acceptance in the Geology M.S. Program or PoD. Analysis of the stratigraphy and tectonics of sedimentary rocks of Appalachian Mountain system with emphasis on the stratigraphic provinces that contain energy resources.
618 Geochemical Methods of Analysis (4:3:3) Prereq Acceptance in the Geology M.S. Program or POL Principles and application of geochemical analyses as applied to rocks found on Earth. Emphasis on the production of natural organic compounds. Discussions on the influence of diagenetic factors such as hydrolysis, heat and pressure on such compounds as cellulose, lignin, proteins and lipids, and a consideration of the origin of organic matter. Carbonaceous shales, coal and crude oil. May incl field trips.

800 Studies for the Doctor of Arts in Education (var cr) Prereq GOVT DA Ed admission to study in geology. Program of studies designed by student's discipline director and approved by student's doctoral committee which brings the student to participate in the current research of the discipline director and results in a paper reporting the original contributions of the student. The paper is presented in a subsequent DA Ed summer seminar. Enrollments may be repeated.

German Courses (GERM)

Foreign Languages and Literatures Placement: See Academic Policies and Procedures.

301 German Culture and Civilization (3:3:0) Prereq 54 hr or Pol Development of German civilization from eighteenth century to the present. German cultural contributions to world history and to English. 302 German Today (3:3:0) Prereq 54 hr or Pol Contemporary German life, its major aspects, problems, and goals, seen from the West German perspective. Taught in English. 550 Special Topics (3) Prereq Graduate standing or PolD Study of a special topic in the area of German language, literature, or culture. Specific topics are announced in advance. May be repeated for cr with PolD.

Government and Politics Courses

(GOVT) (Public Affairs)

132 Introduction to International Politics (3:3:0) Nature of international politics; approaches to study of international politics; states and non-state actors in international system; patterns of actions and interactions among nation-states; international institutions; major global issues.

133 Comparative Politics (3:3:0) Intro to the methods and subject matter of comparative political analysis; the major issues of political systems; the setting of policies; participation in politics; government structures; the policy-making process, and the evaluation of political performance.

243-244 American in the Global System (3:3:0) Prereq GOVT 132 Courses must be taken in sequence Policies and role of the United States in the global community. Emphasis on analysis of internal and external factors that shape conduct of the United States in the global system from independence to present. Structure of foreign policy making; selected major issues in American foreign policy.

308 The American Presidency and Chief Executive (3:3:0) Prereq GOVT 103 Institutions, authority and duties of the American presidency, organization of the executive staff and operation of the President's office. Emphasis on the interaction of economic and political factors on the presidency and the behavior and activities of the President.

311 Political Public Opinion (3:3:0) Prereq GOVT 103 & 250 Nature, sources, structure, formation, expression, transmission, change, and measurement of politically relevant public opinion in a democratic system of government.

312 Political Parties and Elections (3:3:0) Prereq GOVT 103 Characteristics and functions of political parties; influence of parties and other political forces on electoral decisions; emphasis on parties in Britain and Germany. 318 The Industrial Process (3:3:0) Prereq GOVT 103 Role of interest groups; internal operations of groups; strategies and activities they pursue. Evaluation of groups ability to enable citizens to influence and control government. Evaluation of groups ability to enhance the democratic process. Conditions under which social movements become, or fail to become, effective interest groups.

411 The Individual Citizen in a Democracy (3:3:0) Prereq GOVT 103 Aspects of various forces on attitudes and behavior of citizens in a democracy; personality, family and other socialization factors, current events and other political events. How attitudes and behavior of citizens facilitate or hinder operation of democratic system.

412 Politics and the Mass Media (3:3:0) Prereq GOVT 103 Techniques and processes of political argument and persuasion as used in campaigns, public education and political debate. Propaganda in both domestic and international arenas. Political persuasion, myths, and symbols as used by governments, groups, and individuals. Films and tapes supplement examples of classic political speeches.

599 Independent Study in Health Education (1-3:0:0) Prereq 18 hr in health education research, practice or under direction of faculty. May be repeated for cr with instr.

Health Education Courses (HEAL)

Health and Physical Education

599 Independent Study in Health Education (1-3:0:0) Prereq 18 hr in health education research, practice or under direction of faculty. May be repeated for cr with instr.

History Courses (HIST)

304 The Eastern Roman Empire and Byzantium (3) Prereq 6 hr of history or Pol. The political, social, economic, cultural, and religious history of the Eastern Roman and Byzantine Empires from the 1st century to the fall of Constantinople in 1453.

341 History of the United States Constitutional Law (3:3:0) Prereq 6 hr of history or Pol. Study of constitu­ tional development of the United States from its beginnings to 1865. Major constitutional cases and decisions. Their significance.

342 History of the United States Constitutional Law (3:3:0) Prereq 6 hr of history or Pol. Study of the development of the United States Constitution from its creation to its present status. Major constitutional cases and decisions.

343 Methods of International Relations Research (3:3:0) Prereq GOVT 103 Techniques and procedures of political argument and persuasion as used in campaigns, public education and political debate. Propaganda in both domestic and international arenas. Political persuasion, myths, and symbols as used by governments, groups, and individuals. Films and tapes supplement examples of classic political speeches.

466 Directed Readings and Research (1-3:0:0) Open to seniors in political affairs, PolD. Reading and research in a selected area of political science. Development of a research proposal. A written report is required; an oral examination over the research and report may be required. May be used for elective credit only.

469 Political Persuasion and Propaganda (3:3:0) Prereq GOVT 103 Techniques and processes of political argument and persuasion as used in campaigns, public education and political debate. Propaganda in both domestic and international arenas. Political persuasion, myths, and symbols as used by governments, groups, and individuals. Films and tapes supplement examples of classic political speeches.

542 Politics and the Mass Media (3:3:0) Prereq GOVT 103 Techniques and processes of political argument and persuasion as used in campaigns, public education and political debate. Propaganda in both domestic and international arenas. Political persuasion, myths, and symbols as used by governments, groups, and individuals. Films and tapes supplement examples of classic political speeches.

599 Independent Study in Health Education (1-3:0:0) Prereq 18 hr in health education research, practice or under direction of faculty. May be repeated for cr with instr.
course may not be taken by anyone who has previously taken and satisfactorily completed HIST 710.

626 (709) Seminar in State and Local History (3:3:0) Prereq: HIST 700 or PD in Historical and Political Science 1870-1900. An introduction to the study of the political, social, and cultural history of the United States and the world. Course may not be taken by anyone who has previously taken and satisfactorily completed HIST 709.

635 (739) Problems in European History (3:3:0) Investigation of selected problems in the history of Europe. Readings, discussions, development of bibliographies. Where possible, primary sources are utilized. Maximum of 6 hr may be earned.

637 (737) Great Britain: Empire to Commonwealth, 1870-1970 (3:3:0) Examines the rise of the new imperial relationship of the U.K. to the British Commonwealth of Nations and the gradual formation of the Commonwealth of Nations. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 737.

639 (739) Society and Politics in Western Europe, 1750-1914 (3:3:0) Focus on changes in social conditions and their ramifications in political life. Attention to urbanization of workers, changes in the peasantry, growth of middle classes, decline of nobility, as well as major political developments and expansion of liberal reforms. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 739.

645 (745) The Russian Revolution and the Origins of the Soviet State (3:3:0) The period between 1890 and 1924 with concentration on the sources of Bolshevism, problems of the old regime as they led up to the revolutions of 1905 and 1917, the development of a new regime and its survival in an environment of foreign and civil war. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 745.

655 (755) Problems in Asian History (3:3:0) Subjects announced by instructor. Discussion of readings and historical interpretations and compilation of a comprehensive bibliography on given theme. Maximum of 6 hr may be earned.

670 (720) Social Revolution in Latin America (3:3:0) Analysis of revolutionary forces that are challenging traditional institutions and transforming all aspects of society in contemporary Latin America. Selected countries are studied in depth. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 720.

675 (725) Problems in Latin American History (3:3:0) Analysis of selected problems in Latin American history. Emphasis on reading and discussion of historical interpretations and development of bibliography. Maximum of 6 hr may be earned. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 725.

678 (728) Latin American Cultural and Intellectual History, Nineteenth Century (3:3:0) (a) the intellectual and artistic expressions of independence literatures; (b) mid-century Romanticism, Liberalism, and Traditionalism; (c) secular and religious positivism; (d) Marxism socialism. Intellectual developments traced in major Latin American thinkers. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 728.

679 (719) Seminar on Inter-American Diplomacy (3:3:0) Prereq: HIST 700 or PD in Seminar on geographic, political, economic, military, and other forces that have influenced inter-American relations. Study of the special relationship between U.S. and Latin America. May be applied toward the major or minor in either U.S. or Latin American History. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 719.

683 (783) The Cultural History of the Islamic World (3:3:0) Eastern Islamic philosophy, religion, literature, arts, and architecture of the Arabs of the Umayyad and Abbasid period. Persians of the Safavid Period. Gaznudins of Afghanistan, grand Mughuls of India and Pakistan, Timurids of central Asia, Moors of Spain, and the Turks. Important political and cultural movements in different parts of the Islamic World are discussed. This course may not be taken by anyone who has previously taken and satisfactorily completed HIST 783.

690 The Administration of Archives and Manuscripts (3) Prereq: 6 hr of U.S. History or Pol. An intro to the principles and practices in the management of records and the administration of archival and manuscript collections, public and private. Designed for graduate students with a special interest in historical sources as well as those specializing in applied history.

691 Museum Studies (3) Prereq: 6 hr of U.S. history or Pol. General intro to museums and history studies in the United States, intended for the interested citizen as well as for assistance to students in course and career choices. Course explores the development, present state, and future possibilities of museums in the United States, with some reference to international developments.

692 Historical Editing (3) Intro to the fundamentals of historical editing of documents, including the use of microform, word processing, and computer techniques. Designed for persons seeking an intro to various areas of applied history and for persons intending to edit historical documents for publication.

693 Historic Preservation (3) Prereq: 6 hr of U.S. history or Pol. General intro to historic preservation in the United States, intended for the interested citizen as well as for assistance to students in course and career choices. Course explores the development, present state, and future possibilities of historic preservation in the United States, with some reference to international aspects of preservation.

695 (785) History Symposium (3:3:0) Subject of academic and community interest pursued through discussions and lectures by distinguished guest instructors. Maximum of 6 hr may be applied toward the MAT, and maximum of 3 hr toward the MAI.

711 Research Seminar in United States History (3:3:0) Prereq: HIST 700 or PD in Research in special topics using primary sources. Maximum of 6 hr may be earned.

712 Research Seminar in Latin American History (3:3:0) Prereq: HIST 700 or PD in Research in special topics using primary sources. Maximum of 6 hr may be earned.

716 Internship in Applied History (3:3:0) Prereq: 3 hr of applied history (3:3:0) in major field or permission of internship director. All internship placements must be approved by the department to insure their suitability to the student's program. An introduction to applied history through the field placement at a museum, site, library, archival project, editing project, or other approved agency.

716 Directed Readings (3:3:0) Independent reading on a topic agreed to by student and faculty member. Maximum of 6 hr may be earned.

799 Thesis for the Doctor of Arts in Education (var cr) Prereq: DA Ed admission to study in program History of education of studies designed by student's discipline director and approved by student's doctoral committee which brings the student to participate in research of discipline director and results in a paper as a contribution of the student. Paper presented in a subsequent DA Ed seminar. Enrollments may be repeated.

Information Systems Courses (INFS)

School of Business Administration

After Fall Semester 1981, non-core, upper-level courses offered by the School of Business Administration may not be presented on an undergraduate degree application for any major in the School (except as general elective credit) if taken prior to acceptance to Junior standing.

201 An Introduction to Computer-Based Management Information Systems (3:3:0) Examination of the components of the management information system (MIS) and their integration for managerial control and decision support. Analysis, design, and implementation of MIS software, using the BASIC programming language. Computing lab.

315 Programming Languages I (3:3:0) Prereq: INFS 312 FORTAN and ASSEMBLER programming languages. Focus on structure and application of both languages, with emphasis on the management of data types, data structures, and algorithms. Computing lab (Fall).

316 Programming Languages II (3:3:0) Prereq: INFS 312. 315 PL/I and ADA programming languages. Focus on algorithms and data structures and their applications in both languages. Computing lab. (Spring).

492 Special Topics in Group Project Implementation Prereq: 6 hr of INFS or CS. Programming courses in this course, the student will experie nce working in a computer-based information system project. With the aid of the professor, the student will participate in an implementation project. Typical projects might be development of a mini computer control system, a student records information system, or a package for office instruction or a comprehensive model of some phenomenon.

520 Human Engineering Issues in Computer Systems Design (3) Prereq: INFS 600 and INFS 710 (the latter may be taken concurrently) or Pol. This course will survey the various human factors and ergonomic aspects in the design of computer systems. Topics include: human factors aspects of computer hardware and information display as well as human factors principles of software design.


711 Comparative Programming Languages for Business Applications (3:3:0) Prereq: INFS 710 (may be taken concurrently). Investigation of the variety of environments for computer applications to organizational and scientific problems. Selection of the appropriate computing language for a specific application is demonstrated through case studies. Examples of languages are PASCAL, COBOL, PL/I, FORTRAN, RPA, ADA. Computing lab.

712 Data Communications and Distributed Processing (3:3:0) Prereq: INFS 710 (may be taken concurrently) or Pol. Concepts and applications of telecommunications, networks, and distributed information systems, including data communications, network pricing, and management. Case studies and computing lab.

714 Database Management (3:3:0) Prereq: INFS 710 (may be taken concurrently) or Pol. INFS 714, 720, INFS 712 is strongly recommended. Integration of computer systems, systems analysis, systems design, and organizational behavior in the design of large-scale information systems. Computing and case studies. Cases and computing lab.

723 Information Retrieval (3) Prereq: INFS 714 This course is concerned with information systems for textual and less well structured data bases. It covers hardware and software and it covers the design, implementation and evaluation of such systems. Laboratory (computer programming).

780 Technical and Administrative Issues in Office Automation (3) Prereq: INFS 600 and INFS 710 (the latter may be taken concurrently). This course examines office automation as an issue in applying the concepts of MIS in an organization. It focuses on the selection of hardware and software selection as well as administrative problems associated with successful integration of the appropriate technologies. Major class project is the development of an OA system in an organization and laboratory.

791 Special Topics in Group Project Design (3) Prereq: INFS 600 and INFS 710 (may be taken concurrently) Study of the various techniques for managing a computer-based information systems design project. The student will select a project and prepare a detailed project plan with professional guidance. The project developed in this course will be used in practice in the follow-on course INFS 792.

792 Special Topics in Group Project Implementation (3) Prereq: INFS 600, INFS 710, INFS 791. The student will study the various techniques for managing a computer-based information system design project. Using the project plan developed in INFS 791, the student will implement the project with undergraduate students enrolled in INFS 492 as group members.

Italian Courses (ITAL)

Foreign Languages and Literatures

101 Elementary Italian I (3) Designed for students with no knowledge of Italian. Emphasizes fundamental grammar vocabulary, oral skills, listening comprehension and reading. Lab work req.

102 Elementary Italian II (3) Prereq: ITAL 101 or PD in Continuation of Italian 101.
581 Graduate Choral Ensembles (1:0:3) Prereq Audition Performance of works from the choral repertoire. Public concerts are given. Three hours per week. May be taken for credit four times.

583 Symphonic Winds (1:0:3) Prereq Audition Performance of works from the band repertoire. Public concerts are given. Three hours per week. May be taken for credit four times.

587 Chamber Orchestra (1:0:3) Prereq Audition Performance of works from the chamber orchestra repertoire. Public concerts are given. Three hours per week. May be taken for credit four times.

Latin American Studies Courses (LAS)

489 Independent Study (1-6:0:0) Prereq junior standing. PoC and PoI intensive study of a period, problem or project related to Latin American Studies proposed by an individual student to be conducted in close consultation with a LAS faculty member. Enrolled for a total of six credits.

490 Internship (2-6:0:0) Prereq junior standing and PoC Internships are non-paying, work-study positions that focus on interdisciplinary LAS issues. Qualified students are placed with area institutions, interest groups, agencies, museums, or corporations. Placement depends upon availability of positions.

491 Contemporary Latin America (3:3:0) Req of senior LAS majors or PoI Interrelationship of economic, political, social, and cultural factors in explaining current Latin American reality. Topic announced. May be repeated for credit provided that course subtitle is different.

Management Courses (MGMT)

School of Business Administration

After Fall Semester 1981, non-core, upper-level (300–400 series) courses offered by the School of Business Administration may not be presented on an undergraduate degree application for any major in the School (except as general elective credit) if taken prior to acceptance of Junior standing.

301 Management of Organizations (3:3:0) Prereq COMM 101 or 130, and 60 hr or PoI Principles of management, emphasizing managerial functions. Fundamentals of organization theory and behavior and how they impact on the management of organizations, domestic and international.

461 Management of Production/Operations (3:3:0) Prereq IBMN 301, MGMT 301, and APPM 301. Adaptable study of selected topics in the management of production/operations in manufacturing and service industries. Examination of integrated systems of production/operations management. Applications of theory to practice are emphasized.

471 Organizational Management and Environmental Change (3:3:0) Prereq BULE 401. An examination of organizational management concepts and applications in response to changing environments. The organizational impact of various stakeholders, as well as the interaction between organizations and processes will be reviewed. Management practices, structures, and processes will be emphasized.

Mathematics Courses (MATH)

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

Computer Science courses, Operations Research courses, and Statistics courses offered by the Department of Mathematical Sciences are listed separately under the prefixes CS, OR, or STAT respectively.

114 Analytic Geometry and Calculus II (4:4:0) Prereq C or better in MATH 113 and knowledge of high school trigonometry. Transcendental functions, methods of integration, applications of the integral, analytic geometry.

321 Abstract Algebra (3:3:0) Prereq MATH 200 and 215 Theory of groups, rings, fields.

Music Courses (MUSI)

Performing Arts

593 The Psychology of Music Teaching and Learning (3:3:0) Prereq Baccalaureate degree in music or PoI. A study of the learner's musical behaviors (affective, cognitive, and psychomotor) in an effort to devise an empirically based teaching method founded on learning principles.

5110 Intermediate Italian I (3) Prereq ITAL 102 or PoD Further development of skills in listening, speaking, reading, and writing. As a junior, ITAL 201 and 202 must be taken in sequence. Lab, work req.

202 Intermediate Italian II (3) Prereq ITAL 201 or PoD Application of language skills to reading, composition, and discussion. Lab work req.

Nursing Courses (NURS)

254/204 Introduction to Professional Nursing (3) (2:2:0) Pre or coreq to NURS 250 or with PoD. Intro to nursing as an emerging discipline, profession, and occupation. Emphasis on development of a dynamic concept of nursing, essential behaviors of the profession, and the design of nursing systems.

250 Concepts of Health throughout the Life Span (3:3:0) Prereq PSYC 3 (1 hr) and SCI (3 hr) Consideration of health maintenance and health promotion behaviors throughout the life cycle. Examination of normal growth, development, nutrition.

262 Technologies in Nursing (4:3:0) Pre or coreq COMM 3 (1 hr) Skills req in the assessment, design, and control of nursing systems. Clinical practice arranged.

622 Clinical Management in Primary Care Nursing (3) Prereq NURS 550 and NURS 621. Students should be currently enrolled in, or have completed, the nursing major core courses. Students must be enrolled in, or have completed, the nursing core curriculum. Students will be given an M.S.N. from an accredited nursing program will be considered on an individual basis.

Analysis of the scope of the advanced nurse clinician role in the management of primary care nursing. An integrated approach to in assessment and management of common physical and psychosocial health problems. Advanced skills in biopsychosocial assessment and development of plans for health maintenance.

Operations Research Courses (OR)

Mathematical Sciences

648 Production and Inventory Systems (3) Prereq OR 514 and OR 542 or PoI. An analysis of production and inventory systems. Introduction to the use of mathematical modeling for solutions of production planning and inventory control problems. Stochastic inventory systems of lot sized reorder type, periodic review models. Applications of dynamic programming theory to deterministic and stochastic cases. Static and Dyanmic production-planning models.

Plan for Alternative General Education (PAGE)

120 Computers in Contemporary Society (4:4:0) Provides computer literacy through hands-on programming and information processing, as well as appreciation of the computer role in modern society.

122 Reading the Arts (3:3:0) Explores the relationships of the parts to the whole in a work of art, the connections among different art forms, and the links between art and the outside world. Topic announced from section to section and will be announced before registration.

123 Reading Cultural Symbols (3:3:0) Uses techniques developed in PAGE 122 and how methods introduced from sociology, economics, history, anthropology, and psychology to explore ways in which various media (art, architecture, movies, literature, and music) reflect and shape personal and social values.

125, 225 Analysis & Solution of Quantitative Problems I, II (3:3:0) Discusses real world modeling and problem solving techniques and, in conjunction with the computer and tools introduced from the mathematical sciences, applies these to the analysis and solution of a variety of quantitative problems in the natural and social sciences as well as the business environment.

130 Conceptions of Self (3:3:0) Examines, drawing from appropriate works in the social sciences, arts and humanities, different conceptions of the self, characteristics of different cultures and historical eras.

131 Contemporary Society in Multiple Perspectives (3:3:0) Explores methods and perspectives in the social sciences and humanities to evaluate the contribution of different disciplines to an understanding of significant social issues and their global ramifications.

150, 152, 250 Symbols, Codes as Information (1:1:0) (1:1:0) Prereq Taken in sequence. Provides a synthesis of the PAGE courses emphasizing the various ways in which people communicate ideas to one another—through language, mathematics, the graphic and musical arts. Lectures by PAGE faculty and guest speakers.

227, 228 Scientific Thought & Processes I, II (4:3:3) (4:3:3) Prereq Taken in sequence. Explores and integrates the principles of classical and modern science through the study of such topics as cosmology, evolution, ecology, mechanics, relativity, and quantum physics.

230 Cross-Cultural Perspectives (3:3:0) Enables students to broaden cultural horizons and to understand human behavior by studying in depth a society different from their own.

252 The Decision Making Process & the Choice of Technologies (3:3:0) Prereq PAGE 150, 152. Examines decision making in large organizations, its effects on the choice of technologies, and the impact of these choices on values.

253 The Contemporary United States (3:3:0) Prereq PAGE 151, 153, 251. Studies specific aspects of contemporary United States society in its historical, sociological, political, economic, cultural and global perspectives.

Park, Recreation, and Leisure Studies Courses (PRLS) Health and Physical Activity Courses (PRLS)

115 Recreation—Fishing and Camping (2:0:3) Fishing techniques with various rods; basic camping techniques. This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 115.

117 Rock Climbing (1:0:2) Basic climbing skills, safety and use of equipment. S–NC Only. (Fee) This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 117.

119 Recreation—Trap and Skeet Shooting (2:0:3) Fundamentals and safety in shooting clay targets and reloading. (Fee) This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 119.

120 Recreation—Orienteering, Backpacking, and Cookery (2:0:3) Basic skills and knowledge of these activities. This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 120.

180 Whitewater Canoeing (1:0:2) Prereq Must be able to swim fully clothed for 5 minutes and to put on the PFD in water. Basic skills must be mastered on flat water prior to the 2 whitewater canoe trips. (Fee) This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 180.

190 Downhill/Cross-Country Skiing (2:0:3) Basic skills, safety and equipment for downhill and cross-country skiing. S–NC Only (Fee) This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 190.

255 Basic Scuba Diving (2:0:3) Prereq Intermediate level swimming. Basic scuba techniques to allow you to prepare for the Open Water Diver Certificate (PADI). (Fee) This course may not be taken by anyone who has previously taken and satisfactorily completed PHE D 255.

Professional Courses

100 Introduction to Parks, Recreation, and Leisure Studies (3:3:0) An intro to the field of leisure delivery.
Lectures and field trips will explore the historic, philosophical, and technical developments of the leisure service profession and organizations. Outlines the development of man's leisure behavior, the value and role of leisure in actualizing human potential. Incl an overview of the PRLS Program.

103 Careers in Leisure (1:1:0) In cooperation with the Career Counseling program, students analyze personal and professional interests, attributes, and skills regarding the training needs for various job opportunities in leisure services.

210 Leisure in Society (3:3:0) An investigation into the changing nature of leisure in today's society. Dealing with cultural, demographic, social, and economic aspects of leisure pursuits and the positive and negative effects on individuals, the family and the community.

305 Planning and Management of Leisure Resources (3:3:0) Overview of concepts involved in formal and informal organizational structures. Principles and techniques of planning, incl systems analysis, master-planning, goals and objectives identification, cooperative efforts with related planning agencies. Critical view of the importance of planning and organization in the total leisure delivery system.

310 Leisure Programming (3:3:0) An examination of the role of programming in providing leisure opportunities for society. Development of special skills and theories in need and resource assessment; social, cultural, physical, and educational program values; and the role of the professional in programming such as: assessing liability, publicity, staffing, multi-use resources and trends in programming for special groups (travel-tourism, commercial and private organizations) will be analyzed by on-site visits.

315 Public Management of Leisure Resources (3:3:2) An in-depth, skill-oriented course analyzing the use and importance of public relations and in leisure service delivery. Topics include publicity (brochures, flyers, TV, radio, newspaper, bulletin boards and displays), use of media in public relations, and the marketing of leisure services. Emphasis will be placed on practical applications and demonstrated competency in the various media modes.

320 Leadership Principles and Techniques (3:3:0) An individualized course that explores the dynamics of leadership from small group process to agency directorship through analysis of leadership techniques and individual leadership styles in working with volunteers, advisory boards, community organizations, personnel, and leisure participants. The importance of communication in leadership is stressed.

325 Cooperative Education or Internship (6:6:0) A paid or voluntary experience in a park and recreation agency. Application of academic research and coursework into the work environment. Supervisory roles explored, management structure and operation analyzed. Must be taken concurrently with PRLS 326.

326 Seminar: Practical Problem Solving (3:3:0) Students involved in internship or cooperative education experiences will meet to confer on management styles, organization and leisure facilities operation. Problem solving methods will be reviewed and applied in the work environment. Professional standards, legal and fiscal policy will be compared among different agencies. Must be taken concurrently with PRLS 325.

400, 401 Field Study of Metropolitan Park and Recreation Resources (3:3:0) (3:3:0) A field course which reviews and compares a wide variety of park and recreation facilities, museums, national parks, community centers, sports facilities, theme parks, reservoirs, campgrounds, visitor centers, natural state and local lands and facilities. Command and private developments, large scale redevelopment and restoration projects.

405 Design and Maintenance of Leisure Facilities (3:2:2) A direct application course that reviews the principles of design, and maintenance in terms of demand, function, efficiency, and economy. A variety of leisure facilities will be analyzed including parks, recreation centers, playgrounds, campgrounds, commercial facilities and multi-use conservations.

410 Management and Operation of Leisure Resources (3:3:0) A comprehensive course addressing the day-to-day problems in the direct management of leisure resources. Discussion will include: role definitions; management techniques; problem solving and decision making; affirmative action mandates, emergency and legal problems as well as legal implications, organization of local parks, and management of use fees.

415 Leisure Funding and Finance (3:3:0) An examination of methods and techniques of funding generation, appropri-
prepare students for the study of Hispanic Literatures. It introduces basic terminology of literary analysis and provides practice in the examination of texts in the major genres: poetry, narrative and drama.

Statistics Courses

(STAT) Mathematical Sciences


University Courses (UNIV)

Academic Affairs

426 Human Allegiances and Modernization (3:3:0) This course explores what happens to individual and group loyalties, allegiances, and commitments in societies and states affected by economic, social and political changes. This important topic includes such contemporary phenomena as the resurgence of ethnic identity, which finds its expression among such groups as the Basque, Moslem fundamentalism, and the Quebecois. Theoretical issues to be explored include the power and cogency of such popular theories as modernization and assimilation theory. Alternative theories such as the world political economy model will be considered. The course will focus on particular case studies in Western Europe, Northern America, in the Third World and in communist states. The final section of the course will raise basic questions about the wisdom of trying to suppress pre-modern loyalties, and will look at pressures related to ethnic resurgence within and across state boundaries.
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Edgar Horhonyou, Acting Director

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Norman W. Gordon, MA, Coordinator of Intramurals

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Joan S. Pedersen, MEd, Career Information Specialist

Dinah Griggsby, MA, Coordinator for Employer Relations and Placement
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Cynthia Sedgwick, BA, Assistant Coordinator of Cooperative Education

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Dennis W. Webster, PhD, Counselor and Coordinator of Black Peer Counseling

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Aileen L. Ferguson, BS, Financial Aid Counselor
Barbara LaMoreaux, MA, Financial Aid Counselor
Carol A. Elstad, Coordinator of Veterans Affairs

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Joseph Kienle, MS, Director of Housing Services
Carol J. Sudol, RN, Coordinator of Student Health Services
John L. Spaldo, MA, Coordinator of the Student Union
Jennifer Rugel, BA, Coordinator, Services for Students with Disabilities

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Dorcas Goodwin, MEd, Program Advisor

Office of the Vice President for University Development
Joan M. Fisher, MPA, Vice President
Elizabeth Dahlin, MA, Administrative Assistant
Charles Pickell, ThM, Development Officer

Alumni Relations
Carren Bersch Roberts, BA, Director
## Areas of Study Leading to Degrees
### Undergraduate

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<td>Accounting</td>
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<td>General</td>
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<td>Government</td>
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# Telephone Directory

Note: The general information number for George Mason University is (703) 323-2000. The University exchange is ‘323’ except where indicated.

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