

MARIST COLLEGE

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GRADUATE PROGRAMS

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84-85

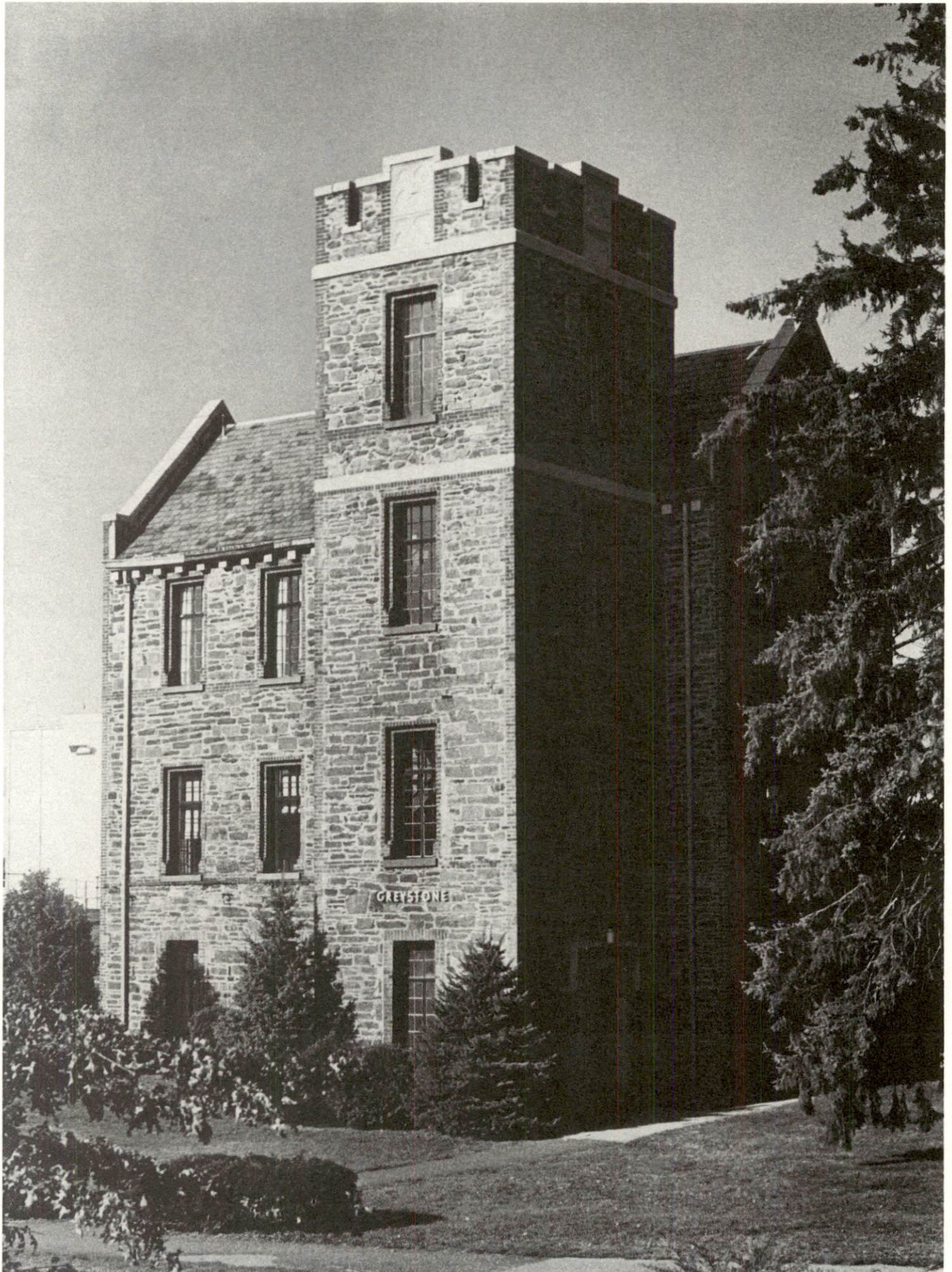
# GRADUATE PROGRAMS 84 - 85

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## Table of Contents

Academic Calendar . . . . .	3
Marist College . . . . .	4
General Academic Information . . . . .	6
Tuition and Fees . . . . .	8
Financial Aid . . . . .	9
Graduate Program in Business . . . . .	10
Graduate Business Courses . . . . .	13
Graduate Certificate Programs in Business . . . . .	16
Graduate Program in Public Administration . . . . .	17
Graduate Public Administration Courses . . . . .	19
Graduate Certificate Programs in Public Administration . . . . .	21
Faculty of the Division of Management Studies . . . . .	22
Graduate Program in Psychology . . . . .	23
Graduate Psychology Courses . . . . .	25
Psychology Alumni . . . . .	26
Faculty of Psychology . . . . .	27
Graduate Program in Computer Science . . . . .	28, 34
Graduate Computer Science Courses . . . . .	32
Faculty of Computer Science . . . . .	39
Administration . . . . .	40
Board of Trustees . . . . .	41
Index . . . . .	42
Campus Directory . . . . .	44
Campus Map . . . . .	Inside Back Cover

The information contained in this catalog was current at the time of publication. The College reserves the right to withdraw or change the policies, tuition charges, programs, or courses described herein.



# GRADUATE ACADEMIC CALENDAR

## SUMMER SESSION 1984 June 4, 1984 through July 20, 1984

<b>1984</b>		
<b>May</b>		
31	<b>Thursday</b>	Registration and orientation for new students on campus.
<b>June</b>		
4	<b>Monday</b>	Classes begin.
6	<b>Wednesday</b>	Last date for late registration, change of courses or full tuition refund for withdrawals (up to 4:00 PM).
13	<b>Wednesday</b>	Last date for withdrawal with half tuition refund (up to 4:00 PM).
16*	<b>Saturday</b>	GMAT given at Marist.
25	<b>Monday</b>	Last date for dropping courses without penalty of WF grade.
<b>July</b>		
4	<b>Wednesday</b>	HOLIDAY. Classes normally meeting this day to meet on Friday, July 6.
16-20	<b>Monday-Friday</b>	Final examinations.

Recess from July 21 to September 4

\* Tentative date, subject to change at time of application to Educational Testing Service.

## FALL SEMESTER September 4, 1984 through December 20, 1984

<b>1984</b>		
<b>August</b>		
30	<b>Thursday</b>	Registration and orientation for new students on campus.
<b>September</b>		
4	<b>Tuesday</b>	Classes begin for MBA, MPA, MS students.
7	<b>Friday</b>	Monday evening classes meet for first time.
10	<b>Monday</b>	Classes begin for MA students. Last date for late registration or change of courses. Half tuition refund after this date.
24	<b>Monday</b>	No tuition refund after this date.
<b>October</b>		
15	<b>Monday</b>	Service charges assessed on unpaid balances as of this date.
20*	<b>Saturday</b>	GMAT given at Marist.
22-23	<b>Monday-Tuesday</b>	HOLIDAYS
<b>November</b>		
9	<b>Friday</b>	Last date for dropping courses without penalty of WF grade.
12-16	<b>Monday-Friday</b>	Registration for Spring 1985 for current students.
21-25	<b>Wednesday-Sunday</b>	Thanksgiving recess.
<b>December</b>		
17-20	<b>Monday-Thursday</b>	Final examinations.

Recess from December 21 to January 21

\* Tentative date, subject to change at time of application to Educational Testing Service.

## SPRING SEMESTER January 21, 1985 through May 10, 1985

<b>1985</b>		
<b>January</b>		
17	<b>Thursday</b>	Registration and orientation for new students on campus.
21	<b>Monday</b>	Classes begin.
25	<b>Friday</b>	Last date for late registration or change of courses. Half tuition refund after this date. Deadline for incompletes from Fall, 1984.
26*	<b>Saturday</b>	GMAT given at Marist.
<b>February</b>		
8	<b>Friday</b>	No tuition refund after this date.
<b>March</b>		
4	<b>Monday</b>	A 2% service charge will be assessed on all outstanding balances. Spring Recess.
11-15	<b>Monday-Friday</b>	Spring Recess.
16*	<b>Saturday</b>	GMAT given at Marist.
22	<b>Friday</b>	Final Draft M.A. Thesis due
29	<b>Friday</b>	Last date for dropping courses without penalty of WF grade.
<b>April</b>		
1-4	<b>Monday-Thursday</b>	Registration for Summer and Fall, 1985.
5	<b>Friday</b>	HOLIDAY
<b>May</b>		
6-10	<b>Monday-Friday</b>	Final examinations.
18	<b>Saturday</b>	Thirty-ninth Commencement.

\* Tentative date, subject to change at time of application to Educational Testing Service

## SUMMER SESSION 1985 June 3, 1985 through July 19, 1985

<b>1985</b>		
<b>May</b>		
31	<b>Thursday</b>	Registration and orientation for new students on campus.
<b>June</b>		
3	<b>Monday</b>	Classes begin.
5	<b>Wednesday</b>	Last date for late registration, change of courses or full tuition refund for withdrawals (up to 4:00 PM).
12	<b>Wednesday</b>	Last date for withdrawal with half tuition refund (up to 4:00 PM).
15*	<b>Saturday</b>	GMAT given at Marist.
24	<b>Monday</b>	Last date for dropping courses without penalty of failure.
<b>July</b>		
4	<b>Thursday</b>	HOLIDAY. Classes normally meeting this day to meet on Friday, July 5.
15-19	<b>Monday-Friday</b>	Final examinations.

Recess from July 20 to September 3.

\* Tentative date, subject to change at time of application to Educational Testing Service.

Overlooking the Hudson River immediately north of Poughkeepsie, New York, Marist College is a private, non-sectarian liberal arts institution for men and women.

Undergraduates can earn a Bachelor of Arts degree in one of fifteen majors, a Bachelor of Science degree in one of ten majors, or a Bachelor of Professional Studies. Undergraduate enrollment is about 2,400 full-time students; of these, almost one-half are majoring in business, accounting, economics and psychology.

Marist College traces its beginnings to 1905 with the arrival of the Marist Brothers in Dutchess County, New York. Settling on the east bank of the Hudson River in Poughkeepsie, the Brothers established their novitiate, St. Ann's Hermitage, on two adjacent riverside estates.

In 1929, the Marist Brothers established a two-year teacher-training institution on the site of the present campus. A four-year undergraduate curriculum for men was established in 1946, and in 1950 New York State granted the College a permanent charter. Lay students were first enrolled in 1957, and during the next decade the ownership of both land and facilities was transferred from the Marist Brothers to the Marist College Educational Corporation. Today all assets are supervised by an independent Board of Trustees which is responsible for the management of College operations.

## Growth Of The College

The campus consists of 100 rolling acres lying 75 miles north of New York City between Route 9 and the Hudson River.

Sixteen buildings have been constructed in the past twenty-five years to respond to the growth of the College. Six dormitories, a major classroom facility, the James J. McCann Recreation Center, and the Library complex are some of the more recent additions to the Marist Campus. Twenty-one new townhouses were completed in the fall of 1982, accommodating 210 students.

Major campus expansion is also planned in the new Lowell Thomas Communication Arts Center, dedicated to the late Lowell Thomas, an honorary alumnus of Marist. Scheduled for completion in the fall of 1985, the new center will feature exhibit galleries with observation windows to broadcast, television and film studios.

## Graduate Programs

Graduate programs in business administration and in psychology were instituted in 1972 when the State of New York authorized Marist to confer the degrees of Master of Business Administration and Master of Arts in Psychology. In 1979, a graduate program leading to the degree of Master of Public Administration was established. A Master of Science

degree program in Computer Science was approved in 1982.

There are over 400 adults pursuing master's degrees at Marist with 30 students attending on a full-time basis. MBA Program Extension Sites have been operating at various locations in the Mid-Hudson Valley area for over eight years. Currently, Extension Sites exist in Kingston, Middletown and Fishkill.

## Memberships and Accreditation

Marist College is chartered by the Board of Regents of the University of the State of New York and is accredited by the State Department of Education and by the Middle States Association of Colleges and Universities. The College is also accredited by the United States Department of Justice for the training of foreign students. It has the approval of the State Approval Agency for Veterans' Education. The College is also approved for holders of New York State Scholarships, including Regents Scholarships, State War Service Scholarships and Scholar Incentive Awards.

Marist holds memberships in the Association of Colleges and Universities of the State of New York, the Commission on Independent Colleges and Universities, the American Association of Colleges for Teacher Education, and the Association of American Colleges. Marist is a charter member of the Visiting Students program sponsored by the Associated Colleges and Universities of the State of New York. Marist is also a member of the American Association of University Women, the Middle Atlantic Association for Colleges of Business Administration, the American Assembly of Collegiate Schools of Business, and the American Chemical Society.

## Academic Facilities

### Library

Central to the educational process at Marist is the College library. The home of study and research, the library contains more than 100,000 volumes, more than 2,000 microfilm reels and a permanent collection of about 800 periodicals. Approximately 1,600 volumes are added each year.

The library was relocated in 1976 to Fontaine Hall, which has been renovated and equipped to provide students with a modern, comprehensive learning resources center. The new library occupies 26,000 square feet—almost double the size of the facility previously located in Donnelly Hall.

### Audio-Visual/Television Center

The Beirne/Spellman Media Center, operated as part of the library learning resources center, is an academic service designed to enrich the learning experience through the application of visual and aural instructional materials. The Center's functions

include media methods consultation, production of film, slides and video tape, dispensing of AV hardware, and the distribution of video programming.

A Kurzweil Reading Machine that converts printed material into spoken language was given to Marist College by the Xerox Corporation. The Machine scans printed material and converts it into readily understood English. Located in the Marist Library, the Kurzweil is available for use by the area community as well as students and is accessible to the disabled.

### Computer Facilities

The recent addition of \$2.5 million in hardware and \$2 million in software from IBM will greatly expand the College's computing capability. Two IBM 4341s, located in Donnelly Hall, supports the Marist College time-sharing system. This system is used by Marist College and other institutions for administrative applications, instructions and research.

Students, faculty members and staff members can communicate with the computer through interactive terminals from various locations on campus. Three student terminal rooms house 60 terminals for student use and two classrooms are equipped with a terminal and monitors.

The software available on the system includes the programming languages VSAPL, PASCAL, ASSEMBLER, ALGOLW, BASIC, FORTRAN, PL/I, COBOL, and APL/2, as well as the following packages: SCRIPT, SPSS, STAT-PAK, COGO, POLYSOLVE, SQL, ADRS, GDDM and a full-screen editor.

## Campus Center

Located in Champagnat Hall, the Campus Center is headquarters of student extra-curricular activity. It houses the College theater, cafeteria, Rathskeller, bookstore, post office and lost and found office. A large number of other rooms for student use are also located here; they can be reserved for meetings by contacting the Coordinator of College Activities.

### Bookstore

Located on the lower level of the Campus Center, the bookstore is open from noon to 5 p.m. every day, as well as for several evenings early in each semester for the convenience of evening and graduate students. It carries texts needed for college courses, as well as other books, stationery and notions.

### Dining Facilities

The Marist dining hall is located on the ground floor of the Campus Center. Dinner is served from 5:00 to 6:45 p.m., and guests are welcome. Located just one flight below the dining hall is the Rathskeller, a coffee shop. There is a snack bar located in Donnelly Hall, Room 218.

### **Automobiles on Campus**

All cars to be parked on campus must be registered annually and bear a parking decal. Registration can be accomplished at the Office of Safety and Security during the day or in the MBA Program Office during the evening, both located in Donnelly Hall.

### **Athletic Facilities**

Athletic facilities include a new sports complex—the James J. McCann Recreation Center, which features a pool with diving well, areas for track, handball, gymnastics, wrestling, dance, and many other activities. In addition, the main floor can host 2,500 spectators for home basketball games or special events. Other facilities include the Martin Boathouse, Leonidoff Field for soccer and football and outdoor tennis courts.

Graduate students wishing to purchase a semester's membership in the McCann Center should apply directly to the office of the Director of Athletics, McCann Center, for information about special student rates.

### **Veterans**

Marist College has the approval of the State Approval Agency for veterans' education. The V.A. certifying official is located in the Office of the Registrar, Room 200, in Donnelly Hall.

### **Cancellations**

The College reserves the right to cancel any course if the enrollment is too small to warrant its offering.

### **Incident Weather**

In the event of a severe snow or ice storm which creates hazardous driving conditions, it may be necessary to cancel classes.

Class cancellation notices will be made over Radio Stations WEOK and WKIP in Poughkeepsie, WHPN in Hyde Park, WBNR in Beacon, WGNY in Newburgh, WGHQ in Kingston, and WALL in Middletown.

### **Safety and Security**

Safety and Security is an administrative service provided to benefit the students and the College as a whole. The service oversees the enforcement of safety standards, including the maintenance of adequate fire alarm systems and fire extinguishers (for the purpose of fire only) and proper service of elevators. Security is maintained 24 hours a day to insure protection of persons and property. The campus security extension is 282; the emergency night number is 471-1822. Safety and Security is also responsible for automobiles on campus. Parking regulations are strictly enforced and the cooperation of all concerned is expected.



# General Academic Information

## Academic Standing

The maintenance of a minimum cumulative index of 3.0 is required for good academic standing. A student must have and maintain a cumulative 3.0 after completion of one semester of full-time study or its equivalent. Any student whose index falls below that required for good standing, or who receives a letter grade of "F," will be subject to academic review and may be placed on probation, or dismissed from the program. A student placed on probation will receive a statement of the requirements necessary to achieve good standing, and will be given a limited time period in which to meet these requirements. Failure to achieve the probationary requirements will result in the dismissal of the student.

## Grading

At the end of each semester, letter grades will be awarded to indicate performance as follows:

A—Indicates outstanding work. For the grade of A, the student receives 4.0 quality points for each semester hour of credit.

B—Indicates good work. For the grade of B, the student receives 3.0 quality points for each semester hour of credit.

C—Indicates minimal passing work. For the grade of C, the student receives 2.0 quality points for each semester hour of credit.

The grades B+ and C+ are used to indicate that a student has shown more than the usual competency required for that grade. A student receives 3.5 quality points per credit hour for a grade of B+ and 2.5 quality points per credit hour for a grade of C+.

F—Indicates failing work. For the grade of F, the student receives no quality points.

W—This grade is assigned to a student who officially withdraws in writing from a course during the first eight weeks of a semester.

WF—This grade is assigned to a student who withdraws in writing from a course after the first eight weeks of a semester. Exceptions may be made by the program director when circumstances warrant it.

I—The temporary grade of I (incomplete) may be given by a professor when a student has not completed the requirements of the course at the end of the semester for serious reasons beyond the individual's control. It becomes the student's responsibility to resolve this grade within three weeks of the publication of final grades by completing the course requirements as determined by the professor. Failure to conform to this time limit results in a final grade of F. The grade of I is *not* assigned in a case where failure to complete course requirements on time is due to student delinquency.

S—This grade may be given only for the psychology internships and indicates satisfactory performance.

P—This grade is awarded only in the psychology thesis course when the thesis has been completed and accepted by the department.

X—This grade is awarded only in the psychology thesis course when the thesis is still in progress at the end of the semester. The student must then register for this course in the following semester.

N—This grade indicates completion of an audited course. It is assigned only when a course is being taken on a non-credit basis. Courses so graded may not be applied to fulfill degree requirements.

The student's cumulative index is computed by dividing the number of total quality points received by the total number of semester credit hours attempted. This index pertains only to courses in which grades of A, B+, B, C+, C or F are received.

## Maintenance of Matriculation

A student must maintain status as a matriculated student every semester until attaining the degree. Such status is maintained by registering for at least one course every semester, or by applying for, and receiving, an official leave of absence and paying the maintenance of matriculation fee. Failure to comply with the above results in a student's having to reapply for admission.

A student who is compelled to leave school for a semester or not exceeding one year must apply to the Program Director for an official leave of absence. The application letter should specify the expected semester of return and should be accompanied by the maintenance of matriculation fee. Application must be made within the first six weeks of the semester.

## Re-Admission

A student who fails to maintain status as a matriculated student every semester must apply for reinstatement in the program. An application for reinstatement should be submitted to the Program Director and must be accompanied by any academic transcripts not already on file in the Registrar's Office. Reinstatement is on the basis of degree requirements then in existence. The reinstatement fee must be paid at the time of the first course registration following reinstatement.

## Non-Matriculated Students

Non-matriculated students, with the exception of those described in (2) and (3) below, are *not* admitted to the MBA Program. Non-matriculated students *may* be admitted into the other graduate programs in any of the following categories:

- (1) As a student who is lacking the time to fully complete his or her requirements for admission. In such cases, the applicant must initially present a completed application form and official transcripts of all previous college academic records, including two-year colleges, at least three weeks before registration to allow review of the application by the Admissions Committee;
- (2) As a student lacking *only* GMAT scores, but who satisfies *all* of the following criteria:
  - (a) *Neither* of the prerequisite courses are required.
  - (b) Successfully completed one *year* of college level math, including *at least* one semester of calculus, within the past five years.
  - (c) All official transcripts and application form are *complete*, and
  - (d) A GMAT exam has not been scheduled, since the application file was started.No exceptions to the above criteria being met are allowed.
- (3) As a visiting student matriculated in another graduate program who desires to transfer the credits earned in the Marist College graduate program back to his or her home institution. Such students must complete the application form and pay the required fee. In lieu of other admissions materials, they must have a letter sent *directly* from their Dean or Program Director to the *Marist Program Director* stating that they are matriculated in a graduate program, are in good academic standing, and that the parent institution will accept the specified course credits for transfer.

A non-matriculated student must withdraw from the graduate program or complete his or her application, be accepted as a matriculated student, and pay the matriculation fee by the time of completion of the first 3 credits or first semester in the Program. To change from non-matriculated to matriculated status, the student must have completed all admissions requirements. All decisions and exceptions regarding non-matriculated students are made at the discretion of the Admissions Committee. Denial of permission to enroll as a non-matriculated student does not imply rejection, but indicates that the Admissions Committee has determined that the admissions decision should be deferred until all admission materials are available.

## Transfer Credit

Credit for completed work at other graduate schools will be determined by each graduate program as follows:

**1. The Graduate Program in Business.** The program requires as few as 36 credit hours, with 60 credit hours maximum, for the degree. As many as 24 credit hours may be waived by the program upon examination of a student's previous graduate or undergraduate work.

Criteria considered for *all* waivers and transfer credit are comparability to the Marist course, the grade received (customarily a B or better), semester lengths and credits, recency, and the likelihood of use by the student. Generally, *two* undergraduate courses covering the same subject matter in increasing depth are required for one graduate course waiver, and an additional criterion is the level at which the course was taken (junior or senior college level).

A minimum of 36 credits must be taken at Marist College, 21 of these on campus, and upon acceptance into the program, each student will receive from the program a list of the courses and credits required for the degree. Once admitted, students may not transfer credits into their programs without the prior approval of the Program Director. Such approval will only be granted for substantial reason and graduate credit.

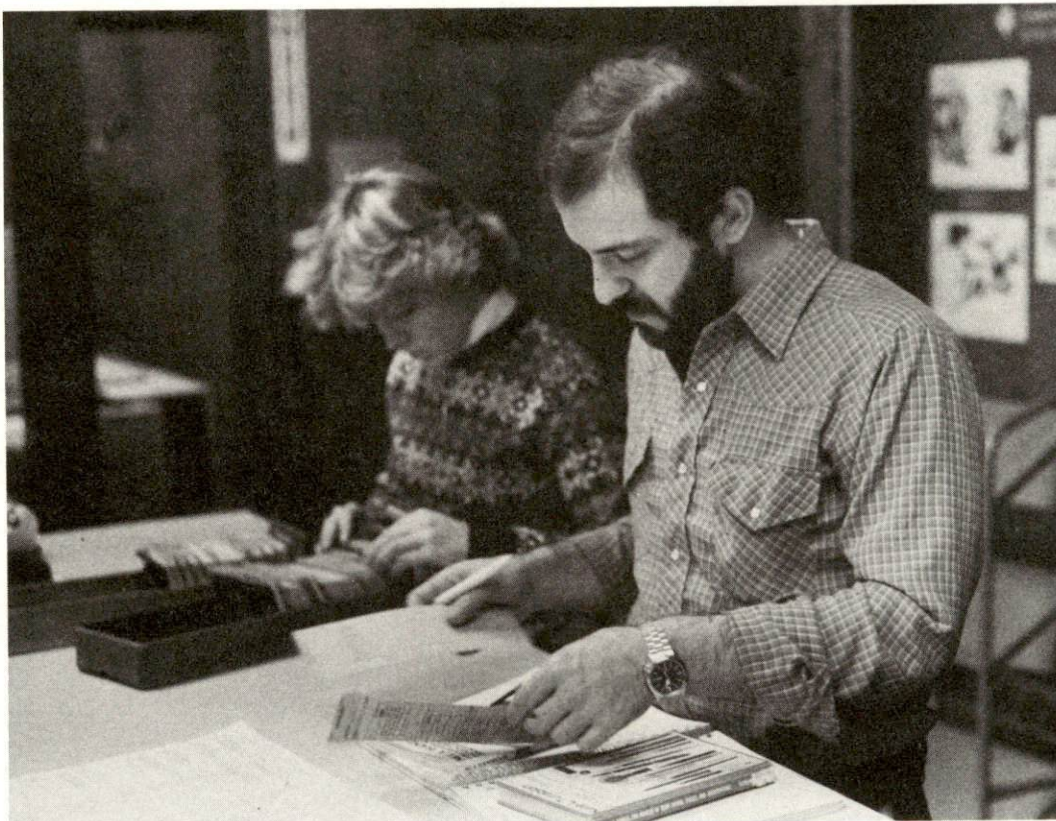
**2. The Graduate Program in Psychology.** A student may transfer up to six credits from a regionally approved graduate program. The student must have a letter grade of B or better. The criterion for transfer is comparability between courses, as well as authorization from the appropriate course instructor. The request should be initiated with the Director of the Program.

**3. The Graduate Program in Public Administration.** The program requires the successful completion of 36 graduate level credits. At least 30 of these must be obtained at Marist College. Additional undergraduate prerequisites may be required depending upon a person's prior education. Upon acceptance into the program, each student will receive a list of courses and credits required for the degree.

**4. The Graduate Program in Computer Science.** A student may transfer up to six graduate credits from a regionally accredited graduate program. Only courses with grades of B or better will be accepted. Courses should be equivalent in content and credit value to courses offered in the Marist Program. The Director of the M.S. Program will determine the status of all applications which include previous graduate study.

## Transfer to Other Marist Graduate Programs

Transfer to another Marist graduate program requires formal admissions application through the Graduate Admissions Office for the new program. All admissions materials required for the new program must be completed, including an up-to-date Marist transcript for program currently, or last, enrolled in. The non-refundable application fee must be paid when the application is sent to the Graduate Admissions Office. Admissions policies of the new program will apply.





# Graduate Tuition and Fees (1984 - 85)

Tuition (per semester hour) . . . . .	\$190.00
Subject to change—Applicant should seek current information from the Business Office.	
Application Fee (Non-Refundable) . . . . .	25.00
Registration and College Services Fee—per semester . . . . .	15.00
(\$10.00 additional if student fails to register on or before Registration Day. *) Non-Refundable.	
Matriculation Fee . . . . .	30.00
This fee is payable immediately upon the student's acceptance and registration for a degree program. It is non-refundable.	
Maintenance of Matriculation Fee . . . . .	15.00
This fee is to be paid to maintain a matriculated status during any semester in which the candidate for a degree is on an official leave of absence.	
Reinstatement Fee (Non-Refundable) . . . . .	30.00
This fee is to be paid by a student who has withdrawn from the program but has applied for, and received, re-admission into the program.	
Degree Fee . . . . .	30.00
This fee is payable by all students upon completion of all degree requirements.	
Thesis Fee . . . . .	30.00
Transcript Fee (Payable at Time of Request) . . . . .	20.00

\*No registration will be accepted after the first week of classes.

## Payment of Tuition and Fees

The student is required to pay tuition and fees in full for the first semester when registering. In subsequent semesters, tuition and fees must be paid prior to the first day of class unless special arrangements have been made with the Business Office. For late registrants (those registering less than two weeks prior to the first day of class), payment is due at the time of registration.

*Students whose accounts are in arrears will not be given a diploma or a transcript of record.*

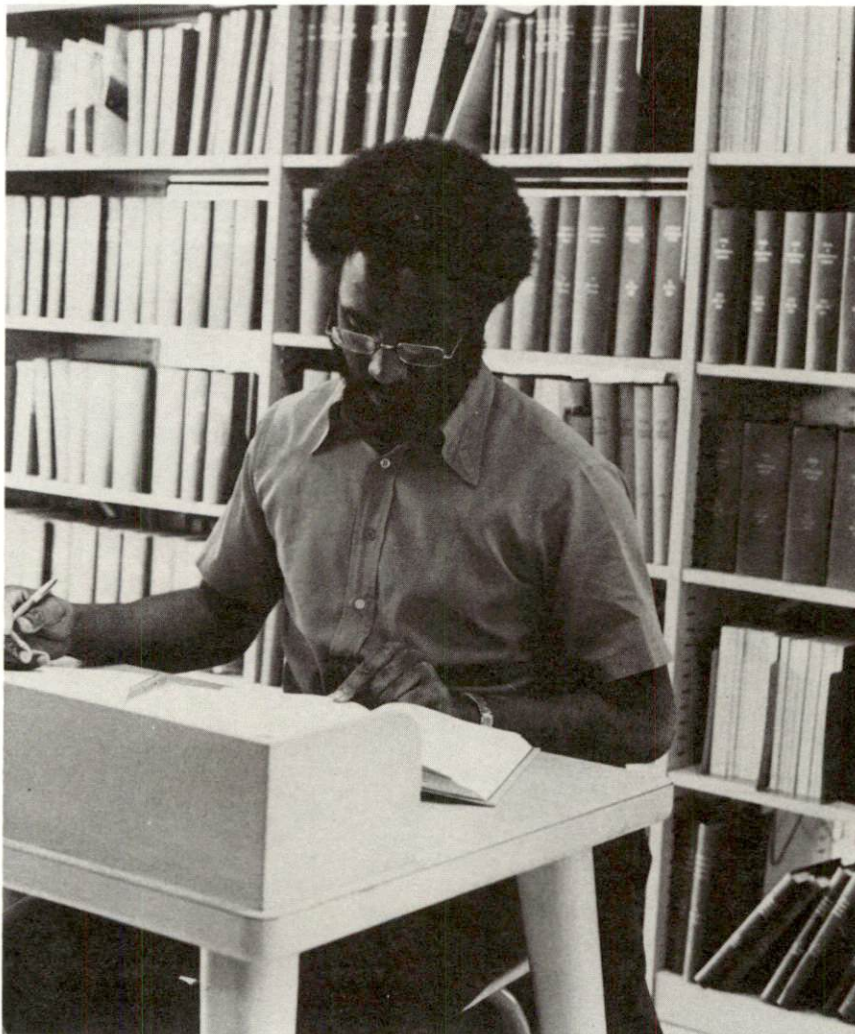
## McCann Center

There is an additional fee, payable at the McCann Center, for membership in the facility. Interested students should apply to the Office of the Director, McCann Center, for information about special student rates.

## Tuition Refunds

In the event a student withdraws from the College during the first week of instruction, the total amount of tuition will be refunded. After the first week, and before the beginning of the fourth week, a refund of one-half tuition will be made. After this time, no refund will be allowed. (See Academic Calendar for specific dates concerning these refunds.)

To withdraw from a course or from the College, a student must notify the Program Director in writing. Simply notifying the classroom instructor is insufficient. In computing the refund, the Business Office accepts the date that the written notice was received by the Program Director. Disbursements of funds must be requested through the Business Office. Disbursements, if due, will be made within four weeks after the date on which the student's period of enrollment ends.



## Financial Aid

Financing an education is a concern for many people. Besides the usual sources—family assistance, personal savings, and occupational earnings there are several financial aid programs available to assist in meeting College expenses. The following types of aid are available to eligible and qualified graduate students who attend Marist College.

To be considered for National Direct Student Loan, Marist Grant, or an Assistantship, graduate students must complete the Financial Aid Form (FAF) or Family Financial Statement (FFS) and the Marist Application for Financial Aid. Application deadline is May 1st. With the exception of limited scholarship funds, financial aid is awarded on the basis of need and academic achievement. Awards are made without reference to racial or ethnic origin, sex, age, religion, color, marital status, or disability.

Recipients of Financial Aid must also provide the Financial Aid Office with the following: 1) Financial Aid Transcripts from previous institutions attended, 2) a signed photostatic copy of parents' and/or student/spouse's 1983 Federal Income Tax Return.

**New York State Tuition Assistance Program (TAP)**—Available to *full-time* graduate students. Awards range from \$100 to \$600 per year. Awards are based upon parent and/or student/spouse's New York State Net Taxable Income. Students must demonstrate program pursuit and satisfactory academic progress. To apply, complete the Student Payment Application Booklet.

**Marist Grants**—Grants for full-time graduate study range from \$200 to \$1000 annually. Awards are not automatically renewed and students must reapply every year. The student must maintain a 3.0 cumulative index to qualify.

**Part-Time Graduate Grant-In-Aid**—A limited amount of financial aid is available for part-time graduate students. Assistance in the form of tuition scholarships will be awarded to students who meet the following criteria:

The student must be enrolled in a graduate program at Marist College and not receive tuition assistance or reimbursement from an employer. Student must not have resided with parent(s) during 1983 nor been claimed as an exemption on their parent(s) Federal Income Tax Return.

Those who meet the above criteria will be eligible for a partial tuition scholarship. Students must apply for the grant each semester. The application deadlines are for the Fall Semester—August 20 and for the Spring Semester—January 15. Applicants must also submit a signed photostatic copy of their 1983 Federal Tax Return (1040, 1040A or 1040EZ) along with the application form to the Financial Aid Office. Forms are available from the Financial Aid Office.

**Graduate Assistantships**—Assistantships are funded through College Work Study, a federally sponsored employment program. Stipends from \$2000 to \$2500 are available for full-time graduate students. Graduate Assistants help instructors with required laboratory courses or engage in research activity. Graduate Assistantships require twenty hours of work per week for twenty-eight weeks. Partial Graduate Assistantships are also available.

**National Direct Student Loan**—NDSL is a federally funded loan program administered through Marist College for students who are enrolled on at least a half-time basis. Graduate students may borrow up to \$3,000 annually, \$12,000 aggregate NDSL limited inclusive of undergraduate loans. Since funds in this program are limited, undergraduate students are given priority at Marist.

**Guaranteed Student Loan**—GSL is a federal loan program which currently enables graduate students to borrow up to \$5,000 annually, \$25,000 aggregate loan limit inclusive of undergraduate GSL. There is a 5% origination fee. Student must be in at least *half-time* attendance. Applications are obtained through banking institutions and are submitted to the Financial Aid Office. Allow six to eight weeks for processing.

**Auxiliary Loans to Assist Students**—ALAS is a student loan program to assist students who do not meet the financial qualifications for a GSL *and* for students whose need exceeds their GSL eligibility. The loan is not federally subsidized; the current interest rate is 12%. Full-time students may defer the principal but are required to make interest repayments. Part-time students must begin repayment immediately. Students may borrow up to \$3,000 annually; \$15,000 is the aggregate loan limit exclusive of any GSL.



# The Graduate Program in Business

Theodore O. Prenting, M.B.A., Director

## Objectives

The purpose of the Marist College M.B.A. program is to provide preparation for the student who aspires to a responsible position in management. Although the quantitative aspects of the management sciences are included in the program, emphasis is on the behavioral influences so significantly affecting the successful operation of modern organizations. The program is structured to accommodate all holders of bachelor degrees, regardless of major. While it focuses on the needs of the part-time student who is employed in the Mid-Hudson region, a number of full-time students are encouraged to apply. All classes are, however, held in the evening. Specifically, the program objectives are:

- (1) To insure an understanding of the basic functions of management, and to provide the opportunity for intensive study in selected fields;
- (2) To develop in students the necessary ability of rapid and incisive decision-making in a constantly changing management environment;
- (3) To familiarize students with the relationships existing between organizations and their environment;
- (4) To instill in future executives an awareness of their role with regard to effective and humane allocation of the world's natural and human resources;
- (5) To establish a foundation for continued self-education.

In keeping with these objectives, the program uses a largely full-time faculty representing a broad spectrum of significant management experience. It is the aim of the program to incorporate the various functions of the business organization into a total management perspective so that the student will be better prepared to meet the demands of an increasingly complex and rapidly changing world. About 250 students are currently enrolled in the program.

## Admission Requirements

The overall scholastic record and potential of the applicant for admission is more important than his or her prior preparation in the area of business. The Admissions Committee is concerned with the interest, aptitude and capacity for business study as indicated in the applicant's previous academic record, achievement on the Graduate Management Admission Test (GMAT, formerly ATGSB), and past experience.

Application for admission may be obtained through the Graduate Admissions Office. All correspondence should be addressed as follows:

Director of Graduate Admissions  
Marist College  
Poughkeepsie, New York 12601

Students are accepted for all semesters—Fall, Spring and Summer. Application for these semesters should be *completed* by July 15, December 15, and May 1, respectively. Notification of status is made not later than two weeks prior to the start of each semester.

Any student planning to matriculate in the graduate program must:

- (1) Hold a baccalaureate degree from an accredited college or university;
- (2) Complete the appropriate application form;
- (3) Have satisfied prerequisite course requirements within the past five years in *College Algebra* (Intermediate Algebra at Marist) and an *Introduction to Computer Systems* course, which must have substantially included a basic understanding of operating systems (MUSIC is used at Marist), use of context editor and wordprocessing (Script is used at Marist), introduction to data base systems, problem solving using BASIC, use of public library programs, especially statistical packages, microcomputer use (IBM-PC and MS-DOS used at Marist), and societal implications of computers. These prerequisites *may* be satisfied by likely use in employment, e.g. engineering, computer science, or by examination.

- (4) Have *official* transcripts of *all* undergraduate, including two year colleges, and graduate academic records sent to the Director of Graduate Admissions (transcripts *must* include satisfactory completion of prerequisite courses in (3) above);
- (5) Achieve an acceptable score on the Graduate Management Admissions Test (GMAT);
- (6) Achieve an acceptable score on the Test of English as a Foreign Language (TOEFL) if a student's native language is other than English.

For information regarding the registration and test procedures for the TOEFL program, request the TOEFL Bulletin of Information for Candidates from:

TOEFL  
Box 899  
Princeton, New Jersey 08541.

## Graduate Management Admission Test

The Graduate Management Admission Test (GMAT) is an aptitude test designed to measure certain mental capabilities important in the study of management at the graduate level. It contains questions that test the ability to read, to understand and to reason logically with both verbal and quantitative material. The test is not a measure of achievement or knowledge in any specific subject matter, and those who take it are neither required nor expected to have had undergraduate preparation in business subjects.

The GMAT is sponsored and controlled by the Admission Council for Graduate Study in Management consisting of representatives of 41 graduate schools of management. The Educational Testing Service (ETS) consults with this council on matters of general policy, develops test material, administers the test and conducts research projects aimed at improving the test.

The test is given four times a year, in October, January, March and June, at numerous test sites throughout the United States and abroad. Marist College is a test site and, due to high demand, early registration for this test is advised. Applications, including a registration fee, must be submitted to the Educational Testing Service five full weeks in advance. Application blanks, the GMAT Bulletin and further information regarding the nature and administration of the test may be obtained from the Director of Graduate Admissions, the Office of Career Development at Marist College, or by writing to the following address:

Graduate Management Admission Test  
Educational Testing Service  
Box 966-R  
Princeton, New Jersey 08541

## Mathematical Competence

With the development and application of quantitative methods in management analysis and decision-making, the professional study of business requires a reasonable level of competence in mathematics. All applicants should have a good working knowledge of college algebra, or the equivalent, *before* taking the GMAT examination.

## Degree Requirements

To qualify for the Master of Business Administration degree, the student needs to complete as few as 36 credit hours to a maximum of 60 credit hours of graduate work. Candidates with appropriate prior academic experience in business and business-related fields can receive waivers of course requirements totaling up to 24 credit hours. (See criteria considered for waivers under General Academic Information, Transfer Credits.) M.B.A. degree require-

ments must be completed within eight years of acceptance into the program, with a cumulative index of no less than 3.0. Requests for any extension of the eight year limit must be made in writing to the Program Director.

Each student, upon acceptance into the program, will receive a list of prescribed courses to be successfully completed to qualify for the degree. Each course will be designated as a core course or a concentration course. The latter are offered in Accounting/Finance, Human Resources Management and Information Systems. All students must take three courses in one concentration and two elective, advanced level, or concentration, courses in fields other than their concentration in the MBA or other Marist Graduate Programs. Changes in concentration may only be made with the *prior* approval of the Program Director.

Elective courses selected from other MBA concentrations, or other college offered graduate courses cannot be courses which the student has previously taken at either the graduate or undergraduate level. Questions regarding this should be addressed to the Program Director *before* the courses are taken to assure compliance with graduation requirements.

Part-time students are limited to registering for *one* course in their first semester, and in the semester in which the Business Policy Seminar is taken, unless prior approval is granted by the Program Director. The terminal courses for each student are the Strategic

Management and Business Policy Seminar courses designed to develop an executive level, entrepreneurial management perspective and to integrate previous knowledge. No thesis or comprehensive examination are required of Marist M.B.A. candidates.

### Summer Session

In addition to the regular academic semesters, a seven week Summer Session is held from early June to late July. Typically, four courses are offered, as chosen by students during the Spring Semester. Since classes meet twice weekly, part-time students are *strongly* advised to take no more than one course in this session.

### Advisement

The Program Director serves as the advisor for all students in the MBA Program, and students should discuss any questions or concerns they may have about their studies, especially before such significant actions as withdrawal from a course or the Program are taken.

### Faculty Award

A plaque, facsimile of which hangs in the Division of Management Studies Office, is awarded annually at commencement by the faculty to the student achieving the highest cumulative average in their program of study for the MBA.

### Other Graduate Electives

The following courses offered by the other Marist Graduate Programs may have general or specific appeal to some MBA students. The course descriptions are listed under the respective programs elsewhere in this catalog. Questions on these, or other courses not listed, should be directed to the Program Director.

*Graduate Program in Public Administration*  
MPA 75504 Fund Accounting and Fiscal Controls  
Certain Electives

*Graduate Program in Counseling/Community Psychology*  
Psychology 77511 Personality  
Psychology 77545 Psychology of Communications

*Graduate Program in Computer Science*  
MSCS 24517 Program, Data and File Structures  
MSCS 24647 Information Analysis  
MSCS 24657 Systems Design  
MSCS 24653 Legal and Economic Issues in Computing

## M.B.A. \* COURSE REQUIREMENTS

### CORE COURSES

MBA 16500 Organization and the Environment . . . . .	3
MBA 16510 Macroeconomic Analysis . . . . .	3
MBA 16511 Microeconomic Analysis . . . . .	3
MBA 16520 Analysis of the Marketing Process . . . . .	3
MBA 16530 Calculus for Management and Economics . . . . .	3
MBA 16531 Statistical Analysis . . . . .	3
MBA 16532 Quantitative Analysis for Managerial Decisions . . . . .	3
MBA 16540 Financial Accounting . . . . .	3
MBA 16541 Management Accounting . . . . .	3
MBA 16550 Human Behavior in Organizations . . . . .	3
MBA 16560 Operations Management . . . . .	3
MBA 16570 Management of Finance . . . . .	3
MSCS 24527 Systems & Information Concepts in Organizations . . . . .	3
Total Core	39

### CONCENTRATIONS

#### Requirements for M.B.A. with Concentration in **ACCOUNTING/FINANCE**

MBA 16642 Internal Auditing . . . . .	3
MBA 16643 Federal Income Taxation . . . . .	3
MBA 16671 Financial Planning . . . . .	3

Requirements for M.B.A. with Concentration in  
**HUMAN RESOURCES MANAGEMENT**

MBA 16551 Personnel Management . . . . .	3
and two of the following:	
MBA 16652 Labor Economics and Wage Payment Systems . . . . .	3
MBA 16653 Management and Collective Bargaining . . . . .	3
MBA 16654 Organization and Management Development . . . . .	3

Requirements for M.B.A. with Concentration in  
**INFORMATION SYSTEMS**

MSCS 24517 Program, Data and File Structures . . . . .	3
MSCS 24647 Information Analysis . . . . .	3
MSCS 24657 Systems Design . . . . .	3
Total Concentration	9

**ELECTIVES**

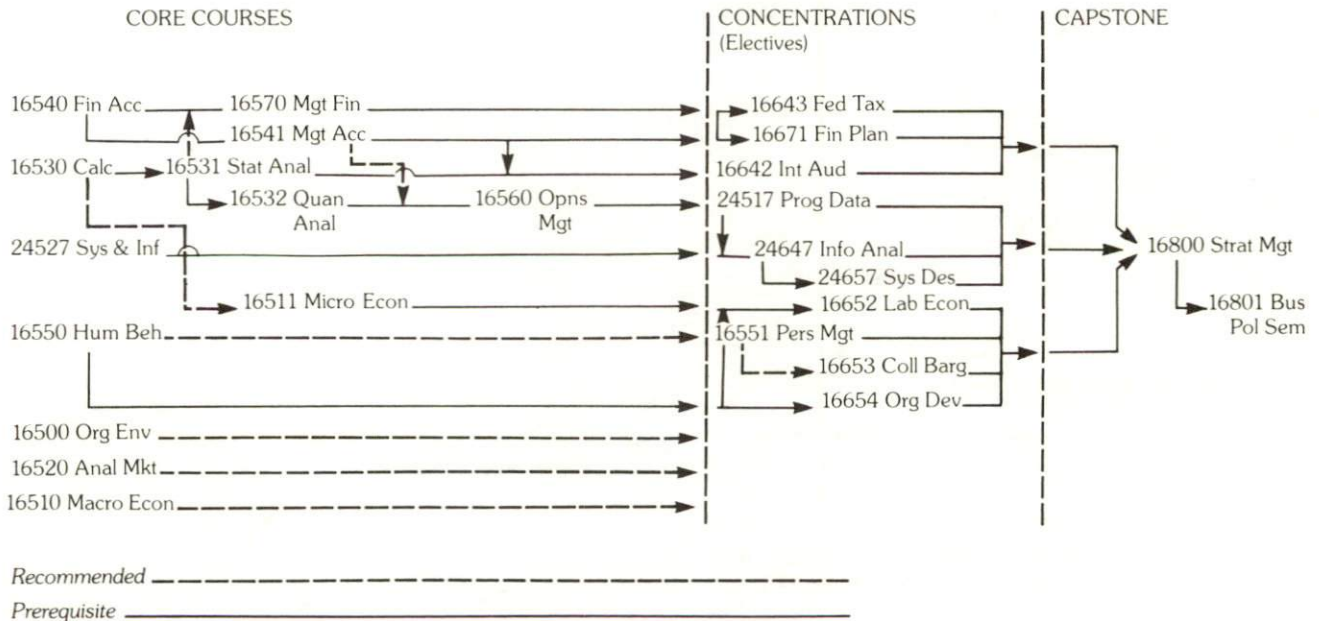
Electives (Advanced or Concentration, in MBA or other Marist Graduate Programs . . . . .	
Total Electives	6

**CAPSTONE COURSES**

MBA 16800 Strategic Management . . . . .	3
MBA 16801 Business Policy Seminar . . . . .	3
Total Capstone	6
Total Credits*	60

\*These requirements may be reduced by as much as 24 credit hours, due to credit waivers granted for a student's prior academic work in the subject area.

**MBA COURSE SEQUENCE DIAGRAM**



Note: In general, students should attempt to complete Core Courses, especially those related to their concentration, before proceeding to the concentration. The Business Policy Seminar normally may not be taken until the last semester. For part-time students this is the **only** course permitted in this semester unless prior approval is granted by the Program Director.

# Graduate Business Courses

## CORE COURSES

### MBA 16500 **Organization and the Environment**

A study of the relationships, interactions, and behavior of organizations with their environment from technological, legal, political, socio-cultural, and economic points of view. Attention is given to the changing nature and responsibilities of organizations with regard to current social problems and potential social problems and opportunities. Taught in seminar style, it probes underlying structures.

Spring *Three Credits*

### MBA 16510 **Macroeconomic Analysis**

A study of the important aggregates that establish the economic environment of business. Examines the influence of consumer and investment demand, government finance, and monetary changes on the levels of national income, prices and employment. Considers the influence of current government policies on general business conditions.

Recommended prerequisite: computer competency  
Fall *Three Credits*

### MBA 16511 **Microeconomic Analysis**

A study of the economic influences directly confronting the individual firm and industry. Considers the determinants of consumer demand, the theory of production, the behavior of costs, and the determination of prices for goods and factors under various competitive conditions.

Recommended prerequisite: Calculus  
Spring *Three Credits*

### MBA 16520 **Analysis of the Marketing Process**

The student will describe and identify characteristics of sound marketing management policies and strategies including the areas of systems management; marketing potential assessment; marketing planning, organization, and control; product policy, promotion and distribution policies; and pricing.

Fall *Three Credits*

### MBA 16530 **Calculus for Management and Economics**

Mathematics essential for managerial competence in business. After a very brief review of algebra, includes the study of sets, functions, linear equations, analytic geometry and selected concepts of calculus of particular applicability to management and economics.

Prerequisite: College Algebra  
Spring *Three Credits*

### MBA 16531 **Statistical Analysis**

An introduction to statistical concepts and methods. Topics include probability theory, sampling and sample survey methods, statistical inference, types of distributions, simple and multiple regression, correlation analysis, Bayesian theory and time series. Applications in management and economics are emphasized.

Prerequisite: Calculus for Management and Economics; computer competency  
Fall *Three Credits*

### MBA 16532 **Quantitative Analysis for Managerial Decisions**

An introduction to mathematical methods of decision theory and operations research. Topics included are vectors and matrices, mathematical models; linear programming techniques: simulation, game theory, and introduction to decision theory; queuing theory; and Markov processes. The computer is extensively used in the application of these topics to management problems.

Prerequisites: Calculus and Statistical Analysis; computer competency  
Spring *Three Credits*

### MBA 16540 **Financial Accounting**

A survey of accounting principles and practices used in preparing financial accounting information which fulfills management's public reporting responsibilities. Included is an intensive study of the preparation and meaning of financial statements and management's influence over them. Among the topics highlighted are accounting terminology and mechanics, valuation approaches, cost concepts, income determination, interpretive fund flow analysis and the influences of the federal income tax on decisions.

Fall *Three Credits*

### MBA 16541 **Management Accounting**

A treatment of cost analysis and control. Emphasis is placed on cost accounting methods and the use of cost data by management in long-range plans, budgets, forecasts, and evaluation of the results of operations. Topics covered include job order, process and standard costing, cost volume analysis, by-product and joint product costing. Cost Accounting is studied as a segment of accounting controls. A knowledge of college algebra is assumed.

Prerequisite: Financial Accounting, with computer competency recommended.  
Spring *Three Credits*

### MBA 16550 **Human Behavior in Organizations**

Introduces basic concepts of the individual in an organization and the organization as a system. Presents a framework for thinking about the human side of organizations. Examines a variety of topics including: leadership styles, motivation, managerial stress, political maneuvering, improving subordinates' performance, behavioral aspects of decision-making, managerial and organizational effectiveness. Case problems are extensively used.

Fall *Three Credits*

### MBA 16560 **Operations Management**

Topics fundamental to the operations of the enterprise are studied. Product or process design; facility location and layout; and control of the process through techniques such as network planning, methods analysis, work measurement, and quality control. Important developments and concepts from the behavioral, economic, mathematical and production engineering fields are highlighted.

Prerequisites: Quantitative Analysis for Managerial Decisions, Management Accounting; computer competency  
Fall *Three Credits*

### MBA 16570 **Management of Finance**

Presents a basis for advanced understanding of the financial management functions of the enterprise. Develops ability in: collecting and interpreting financial data in order to implement capital expenditure policies, solving short-term and long-term financing problems; establishing dividend policies, calculating out cost of capital, effecting mergers and consolidations, and adapting to trends in financial markets. Explains the role of the financial management system in relation to the total management system.

Prerequisite: Financial Accounting with Statistical Analysis recommended.  
Fall *Three Credits*

### MSCS 24527 **Systems & Information Concepts in Organizations**

An identification and basic exploration of the systems point of view, the organization of a system, information flows, and the nature of information systems in organizations. The relation between systems and information to organizational objectives is examined. Specific information system applications are explored. Examples may include accounting, operations, marketing, management control, decision making, and/or others appropriate to the class population.

Spring *Three Credits*

COURSES IN ACCOUNTING/FINANCE  
CONCENTRATION

**MBA 16642 Internal Auditing**

Current auditing standards, practices and problems are studied, emphasizing the internal auditor's role. The influences of external agencies on auditing approaches are also considered.

Prerequisite: Management Accounting and Statistical Analysis  
*Fall, 1985* *Three Credits*

**MBA 16643 Federal Income Taxation**

A study of federal income tax laws and regulations as they affect management decisions in the business firm.

Prerequisites: Management Accounting and Management of Finance  
*Spring, 1985* *Three Credits*

**MBA 16671 Financial Planning**

This course examines techniques for estimating and evaluating expected returns on committed funds. Problems and cases illustrating specific applications of these procedures are reviewed in such decisions as plant and equipment acquisitions, make or buy, product line changes, mergers and acquisitions, sources of funds.

Prerequisites: Management Accounting and Management of Finance  
*Fall, 1984* *Three Credits*

COURSES IN HUMAN RESOURCES  
MANAGEMENT CONCENTRATION

**MBA 16551 Personnel Management**

This course includes discussion of those personnel functions common to any organization: establishing sound employee policies and procedures, staffing the organization, providing support to line management, and compensating the workforce. Emphasis is placed on critical or evolving areas of personnel administration, such as manpower planning, employee appraisal and compensation systems for technical, professional and managerial personnel.

Recommended prerequisite: Human Behavior in Organizations  
*Spring, 1985* *Three Credits*

**MBA 16652 Labor Economics and Wage Payment Systems**

Beginning with an examination of the American labor market and relevant wage theory, the institutions influential in this market, government and labor, are then addressed. This is followed by a study of wage payment systems in the firm, including job evaluation, job pricing methods, and current practices in wage and salary administration.

Prerequisite: Microeconomic Analysis, with Personnel Management recommended.  
*Spring, 1985* *Three Credits*

**MBA 16653 Management and Collective Bargaining**

Labor as an institution and a political force is examined. Since the labor contract is the cornerstone of the American labor movement, its evolution through the collective bargaining process is studied. An important element of the course is attention to opportunities available to management to be more responsive to worker needs where collective bargaining is not practiced.

Recommended prerequisite: Personnel Management  
*Fall, 1984* *Three Credits*

**MBA 16654 Organization and Management Development**

Continuing change in the environment makes it essential that organizations meet and adapt to change to remain healthy and effective. Two dimensions of internal change are examined to understand significant areas and methods for organizational improvement to meet these constant changes: 1) organization development, which focuses heavily on group structure and process, e.g., team-building, intergroup conflict and other dimensions of group behavior; 2) management development, which focuses on improving the skills, abilities and effectiveness of individual managers. Here we are interested in exploring education, training, and behavioral change that will benefit the manager.

Prerequisites: Human Behavior in Organizations and Personnel Management  
*Fall, 1985* *Three Credits*

COURSES IN INFORMATION SYSTEMS  
CONCENTRATION

**MSCS 24517 Program, Data, and File Structures**

An examination of the logical and physical structure of both programs and data. Emphasis is on discipline in program design (including structured programming), data organization and accessing, algorithmic analysis, and the basic aspects of string processing, recursion and simple data structures. PASCAL is used for demonstration and/or assignments.

Prerequisite: Quantitative Analysis for Managerial Decisions  
*Fall* *Three Credits*

**MSCS 24647 Information Analysis**

An extensive examination of the strategies for developing information system applications including a study of the system development life cycle for managing application development. Group dynamics and individual behavior in the development process are explored. Strategies for determining information requirements for an application, methods for analyzing requirements, and the development of a general logical design are examined in detail.

Prerequisite: Program, Data and File Structures and Systems and Information Concepts in Organizations  
*Spring* *Three Credits*

**MSCS 24657 Systems Design**

A rigorous study of the design of information systems including specifications, design, implementation, and testing. Both managerial and technological aspects of system design and implementation are considered. The process of planning for change, audits, and post-implementation reviews are addressed. At the conclusion, the student will have the knowledge and skills necessary to develop a physical design and implement an operational system from the logical design.

Prerequisite: Information Analysis  
*Fall* *Three Credits*

CAPSTONE COURSES

**MBA 16800 Strategic Management**

This is the first of two courses that must be taken in sequence by students finishing their program. Due to the limited enrollment permitted, students must register for the course at least *two* semesters prior to when they intend to take it. Further, as with all courses, the College does not guarantee admission if the course is closed due to over-registration. Students closed out are guaranteed space in the following semester's offering.

The *Strategic Management* course builds on previous courses in the MBA Program and is in this sense an integrative one. Equally as important, however, the course examines the developing field of strategic planning theory and concepts, introduces the student to their application, and seeks to heighten the development of students in formal oral and written communications skills. The perspective is an executive level one in which entrepreneurial skills are seen as more important than administrative ones.

*Fall, Spring* *Three Credits*

**MBA 16801 Business Policy Seminar**

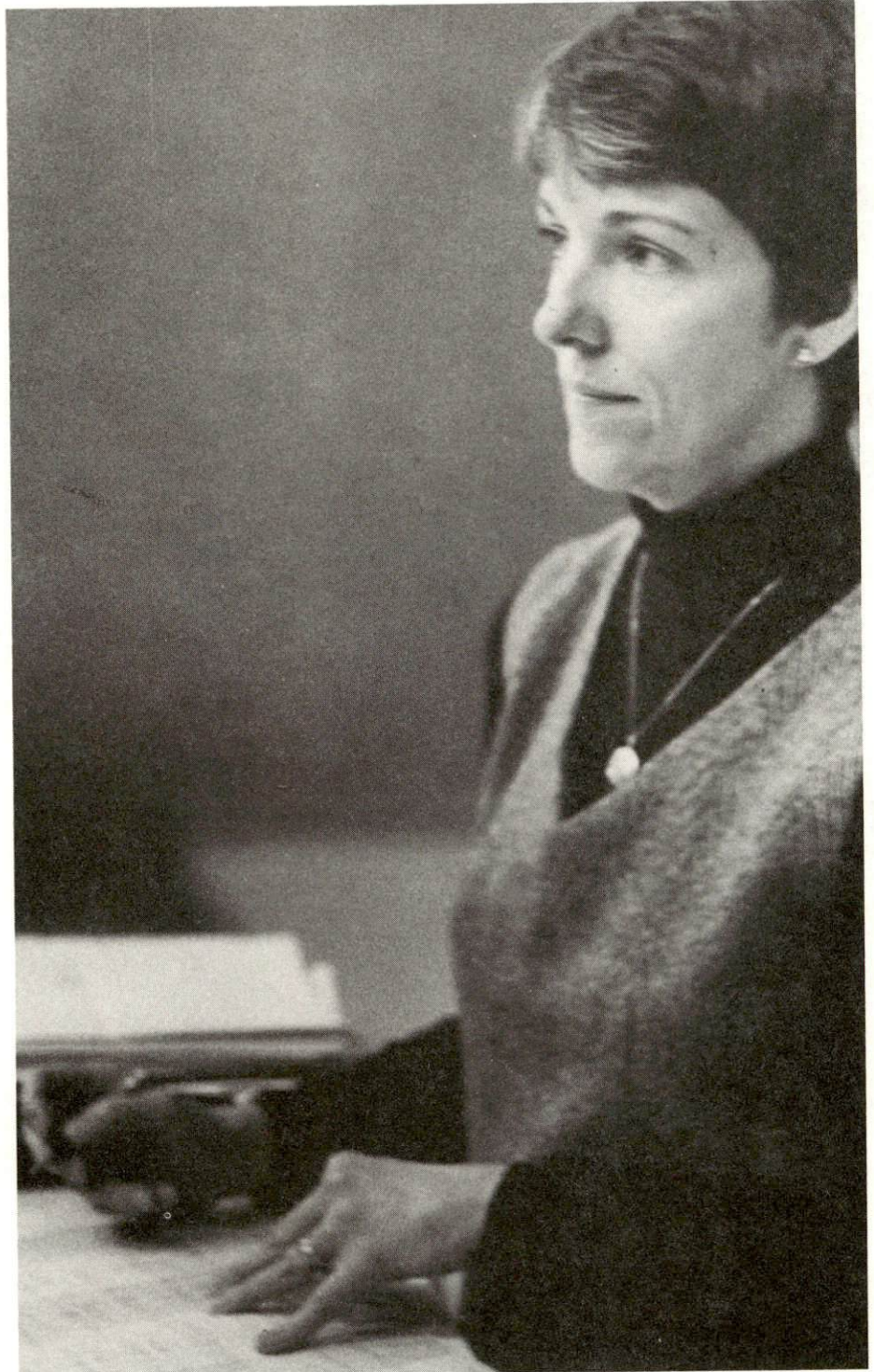
Drawing upon information and skills learned in the preceding course, the *Seminar* requires the student to integrate and process, or synthesize, that which has been learned in the past. Strategic management cases, typically employed, or comprehensive computer oriented management games, involve the totality of an organization's situation at a certain time, are unstructured, and require a significant amount of time to research, diagnose, and make realistic long-range recommendations. Even students who may have done very well in more structured courses, including case oriented ones, find the course particularly demanding. For these reasons, this is the *only* course permitted for part-time students in the semester taken, and full-time students should limit themselves to two additional courses. The course requires at least the equivalent of the amount of time ordinarily required by two courses, and students should be prepared for this.

All students registering for the Seminar must have a 3.0 cumulative average. Those below this average must repeat courses starting with courses in which the lowest grade was received, until the 3.0 is achieved. If the cumulative average upon completion of the Seminar is less than 3.0, the Seminar must be retaken.

*Fall, Spring*

*Three Credits*

Semester in which courses are expected to be offered applies to Marist campus only, not to extension sites. The college reserves the right to cancel a course due to insufficient enrollment.





# Graduate Certificate Programs in Business

## Human Resources Management Accounting/Finance

### Objectives

These Certificate Programs have been designed to satisfy the professional needs of persons working in the fields of human resources management (personnel administration) and accounting/finance, who wish to acquire graduate level knowledge, but are not interested in pursuing a full graduate degree program.

### Admission Requirements

Since the Certificate Program is intended for persons working in, or being transferred to, human resources or accounting/finance management or professional staff positions, and who have little, or no, formal education in the particular field, applicants must hold a bachelor's degree in a field other than the one they wish to study. Applicants who are deemed by the Admissions Committee to have completed too much course work in the field already, and, therefore, would not stand to benefit from the Program, will not be admitted. Individuals not working in the intended field of study must demonstrate through the required reference letter from the supervisor that their transfer to either the human resources (personnel) or accounting/finance areas is imminent.

Admission is based on prior academic performance and potential, maturity and commitment to professional development, and demonstrated professional/leadership growth, as determined from the application, required letters of recommendation, and official transcripts of academic work. Job titles (positions) must be reflective of work in the chosen field, and job progression, membership and participation in appropriate professional societies would be viewed as indicators of academic promise and commitment to professional development in the field. The Graduate Management Admission Test (GMAT) is not ordinarily required, but may be needed in certain cases by the Admissions Committee. Decision of the Committee on this and all Admissions matters are final.

Applications are accepted for the Fall and Spring Semesters and must be completed by July 15 and December 15, respectively.

Required are:

- (1) Completion of appropriate application form;
- (2) *Official* transcripts of all undergraduate, including two year college, and graduate academic records sent to the Director of Graduate Admissions;
- (3) Submission of three (3) letters of reference; one from a professional in the selected field of study, one from the immediate supervisor in the intended field of study, and one from a college professor *who can evaluate your academic work and potential.*

### Program Structure and Certificate Requirements

The Graduate Certificate is obtained upon satisfactory completion of six courses from the Graduate Program in Business Curriculum. At least four of these courses must be in the field selected for the certificate from the following:

#### Certificate in Human Resources Management

MBA 16550 Human Behavior in Organizations  
MBA 16551 Personnel Management  
MBA 16652 Labor Economics and Wage Payment Systems  
MBA 16653 Management and Collective Bargaining  
MBA 16654 Organization and Management Development

#### Certificate in Accounting/Finance

MBA 16540 Financial Accounting  
MBA 16541 Management Accounting  
MBA 16570 Management of Finance  
MBA 16643 Federal Income Taxation  
MBA 16671 Financial Planning

The remaining two courses may be selected from any other Graduate Business offerings in the same, or other fields, including economics, accounting, management or quantitative methods.

All Graduate Business courses carry three semester hours credit and must be taken on a letter grade basis. A cumulative average grade of "B" or better must be maintained in order to receive the certificate.

### Relationship to MBA Program

All courses taken in the Certificate Program are regular MBA courses, and upon award of the certificate, the credits may later be applied to MBA Program requirements. Because of the broader and more quantitative nature of the MBA Program, however, admission requirements are more rigorous, require an acceptable score on the GMAT, and no applications from students in the Certificate Program will be considered until the Certificate Program is completed.

Since admission to the MBA Program is independent of the Certificate Program, and the College makes no guarantee to admit Certificate holders to it, students anticipating matriculation as an MBA candidate are strongly advised to apply directly to the MBA program.

### Class and Program Length

Classes meet one night each week for a typical 15 week semester from 6:30-9:10 p.m. In addition to the Fall and Spring Semesters, a shortened Summer Session is offered. Because the courses offered require considerable time and effort, certificate students are limited to one course in their first semester. A reasonable guide thereafter would be to complete two to three courses per academic year. This would mean two to three years to complete the Certificate Program. The maximum time permitted for completion is four years from date of entry into the Program.

### Tuition

Regular graduate tuition, plus semester registration fee.

# The Graduate Program in Public Administration

Lee M. Miringoff, Ph.D., Director

## Objectives

The purpose of the M.P.A. program is to provide students with the necessary skills and knowledge for a successful career in government and not-for-profit organizations. Its goal is to meet the demand for skilled public administrators by providing professional education to men and women who wish to prepare for careers in public service or to enable those now working in the public sector to augment their skills.

The curriculum reflects a dual orientation. Students are exposed at a conceptual level to issues of public administration as well as the practical application of various skills and techniques of the field. The program is interdisciplinary—drawing from business, political science, and economics. Resources from Marist's MBA program are also utilized.

Candidates for full-time enrollment are encouraged to apply. The program is also structured to facilitate part-time enrollment. Accordingly, all classes are held in the evening.

## Admission Requirements

The Admissions Committee will review applications of students regardless of their undergraduate major. The overall scholastic record and potential of the applicant is assessed. In addition, achievement on the Graduate Management Admissions Test (GMAT) and prior experience is considered.

Applications for admission may be obtained through the Graduate Admissions Office. All correspondence should be addressed as follows:

Director of Graduate Admissions  
Marist College  
Poughkeepsie, New York 12601

Students are accepted for fall, spring, and summer semesters. Notification of status is made not later than 10 days prior to the start of the semester.

Any student planning to matriculate in the graduate program must:

- (1) Hold a baccalaureate degree from an accredited college or university;
- (2) Complete the appropriate application form and personal statement;
- (3) Have *official* transcripts of *all* undergraduate, including two year colleges, and graduate academic records sent to the Director of Graduate Admissions;
- (4) Achieve an acceptable score on the Graduate Management Admissions Test (GMAT);

- (5) Achieve an acceptable score on the Test of English as a Foreign Language (TOEFL), if a student's native language is other than English. For information regarding the registration and test procedures for the TOEFL program, request the TOEFL Bulletin of Information for Candidates from:  
TOEFL  
Box 899  
Princeton, New Jersey 08541.

Admission as a non-matriculated student is described under General Academic Information, page 7.

## Graduate Management Admission Test

The Graduate Management Admission Test (GMAT) is described in detail in the section, The Graduate Program in Business, page 10.

The GMAT Bulletin and further information regarding the nature and administration of the test may be obtained from the MPA program office, the Office of Career Development at Marist College, or by writing to the following address:

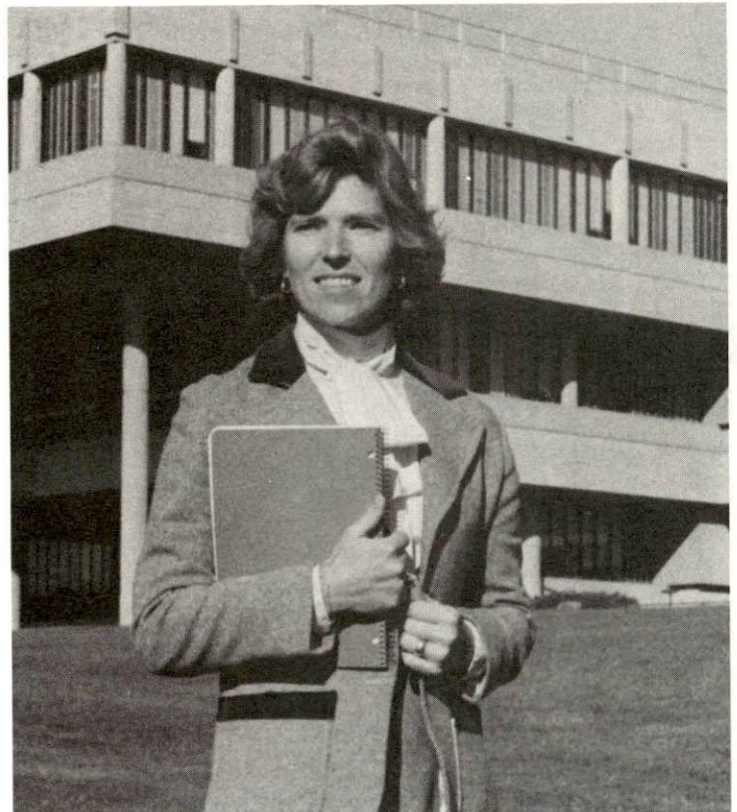
Graduate Management Admission Test  
Educational Testing Service  
Box 966-R  
Princeton, New Jersey 08541

## Degree Requirements

To qualify for the master of Public Administration degree, a student must complete 36 credits of graduate work. An additional 9 credits of undergraduate work may be required as a prerequisite. M.P.A. degree requirements must be completed within seven years of acceptance into the program, with a cumulative index of no less than 3.0. Requests for any extension of this seven year limit must be made, in writing, to the Program Director.

Each student, upon acceptance into the program, will receive a list of prescribed courses to be successfully completed. Each course will be designated as either a prerequisite, core, or elective course. Each student must satisfy prerequisites, 30 core credits, and 6 elective credits. Each student must complete coursework in one of four concentration areas in order to fulfill elective requirements.

Part-time students are limited to registering for one course in their first semester, unless prior approval is granted by the Program Director. No thesis or comprehensive examinations are required. **Contemporary Issues of Public Administration** is the terminal course for each student.



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## M.P.A. COURSE REQUIREMENTS

PREREQUISITES (Undergraduate—9 credits)

(Waivers may be granted based on prior academic work)

21101 Introduction to Computing  
23101 Economics I  
58108 Intermediate Algebra

### CORE PROGRAM (30 credits)

MBA 16531 Statistical Analysis  
MBA 16550 Human Behavior in Organizations  
MBA 16551 Personnel Management  
MSCS 24527 System & Information Concepts in Organizations  
MPA 75500 Concepts & Issues of Public Administration  
MPA 75501 Administration and the Policy Process  
MPA 75502 American Federalism and Intergovernmental Relations  
MPA 75503 Contemporary Issues of Public Administration (Last course to be taken)  
MPA 75504 Fund Accounting and Fiscal Controls  
MPA 75506 Administrative Law

### ELECTIVES (6 credits)

Each student must complete one concentration.

#### CONCENTRATION IN PUBLIC MANAGEMENT

MPA 75513 Program Planning and Evaluation  
MBA 16653 Management and Collective Bargaining

#### CONCENTRATION IN CRIMINAL JUSTICE ADMINISTRATION

MPA 75509 Principles and Processes of Criminal Justice Administration  
MPA 75510 Practices and Problems of Criminal Justice Administration

#### CONCENTRATION IN HUMAN SERVICE ADMINISTRATION

MPA 75511 Introduction to Human Service Administration  
MPA 75512 Human Service Administration: Problems and Case Analysis

#### CONCENTRATION IN INFORMATION SYSTEMS

Students in this concentration must complete an additional prerequisite, Math 58101 Calculus with Management Applications. They are not required to take MPA 75506 Administrative Law or MBA 16551 Personnel Management. Instead they must complete the following four courses for a total of 36 graduate credits.

MBA 16532 Quantitative Analysis for Managerial Decisions  
MSCS 24517 Program, Data and File Structures  
MSCS 24647 Information Analysis  
MSCS 24657 Systems Design

# Graduate Public Administration Courses

## CORE COURSES

### MBA 16531 **Statistical Analysis**

An introduction to statistical concepts and methods. Topics include probability theory, sampling and sample survey methods, statistical inference, types of distribution, simple and multiple regression correlation analysis, Bayesian theory, and time series.

Prerequisite: College Algebra and computer competency.

Fall *Three Credits*

### MBA 16550 **Human Behavior in Organizations**

Introduces basic concepts of the individual in an organization and the organization as a system. Presents a framework for thinking about the human side of organizations. Examines a variety of topics including: leadership styles, motivation, managerial stress, political maneuvering, improving subordinates' performance, behavioral aspects of decision-making, managerial and organizational effectiveness. Case problems are extensively used.

Fall *Three Credits*

### MBA 16551 **Personnel Management**

This course includes discussion of those personnel functions common to any organization: Providing support to line management, establishing sound employee policies and procedures, staffing the organization, and compensating the workforce. Emphasis is placed on critical or evolving areas of personnel administration, such as manpower planning, employee appraisal and compensation systems for technical, professional and managerial personnel.

Spring *Three Credits*

### MPA 75500 **Concepts and Issues of Public Administration**

A general overview of the field of public administration and its important theoretical literature. Characteristics of American bureaucracy are exposed to illuminate the complex problems of contemporary governmental administration. Among topics considered are: the historical development of Public Administration and examination of major organizational theories, the contributions of social science to understanding organizations, ethical issues involved in contemporary government activities.

Fall and Spring *Three Credits*

### MPA 75501 **Administration and the Policy Process**

An investigation into the relationship of bureaucracy to the policy process with emphasis on institutional structures and experience. An examination of the ways in which the political sector conditions bureaucratic behavior and the mechanisms which keep administration responsible and responsive. Emphasis is also placed on the nature of program formulation and implementation within the policy-making process.

Prerequisite: Concepts and Issues of Public Administration

Annually *Three Credits*

### MPA 75502 **American Federalism & Inter-Governmental Relations and Planning**

A discussion of the relationships among federal, state and local governments with regard to the performance of government functions. Emphasis is placed on the theoretical background of conflict and cooperation among the various levels of government and on the practical administrative problems resulting from the division of government powers. Features of the "New Federalism" and fiscal policies such as Revenue Sharing will also be examined.

Prerequisite: Concepts and Issues of Public Administration

Annually *Three Credits*

### MPA 75503 **Contemporary Issues of Public Administration**

This course is intended to provide an integrating experience for students. Emphasis will be placed upon specific problems. Extensive research and analysis of public policy will be conducted. (Note: This is the final course in the MPA Program.)

Annually *Three Credits*

### MPA 75504 **Fund Accounting and Fiscal Controls**

This course will present two fiscal control devices currently utilized in government: program planning and budgeting and municipal accounting. The theory of these systems and related illustrations will be studied. In addition, several problem solutions will be required to enable the student to apply these concepts in practical situations.

Offered every two years *Three Credits*

### MPA 75506 **Administrative Law**

This course involves the study of the legal framework of public administration. Basic principles of constitutional law and the institutions of American government are reviewed. The development of the administrative agency as a contemporary legal and social phenomenon and its relationship to other branches of government are considered. The structure of an administrative agency, its jurisdiction, powers, processes, and accountability are analyzed.

Fall *Three Credits*

### MSCS 24527 **Systems & Information Concepts in Organizations**

An identification and basic exploration of the systems point of view, the organization of a system, information flows, and the nature of information systems in organizations. The relation between systems and information to organizational objectives is examined. Specific information system applications are explored. Examples may include accounting, operations, marketing, management control, decision making, and/or others appropriate to the class population.

Spring *Three Credits*

## ELECTIVE COURSES

### MBA 16653 **Management and Collective Bargaining**

Labor as an institution and political force is examined. Since the labor contract is the cornerstone of the American labor movement, its evolution through the collective bargaining process is studied. An important element of the course is attention to opportunities available to management to be more responsive to worker needs where collective bargaining is not practiced.

Fall *Three Credits*

### MPA 75513 **Program Planning and Evaluation**

This course is designed to develop an understanding of the uses of evaluation research in planning, designing and implementing public programs. Need identification and assessments, planning interventions, target population selection, program monitoring and impact assessment will be examined. Special attention will be given to the application of sample surveys, advanced questionnaire design and techniques for survey analysis in program development and evaluation.

Offered when there is sufficient enrollment  
*Three Credits*

**MPA 75509 Principles and Processes of Criminal Justice Administration**

This course is for students and criminal justice practitioners who wish to improve their managerial effectiveness and efficiency. It provides an overview of the fundamental concepts of public administration with particular relevance to law enforcement agencies, youth and correctional services, probation and parole. Topics to be covered include organizational structure and behavior, human resources management, leadership style, group dynamics, policy analysis and formulation, organizational development, conflict resolution, cost-effectiveness and evaluation.

*Offered when there is sufficient enrollment*  
*Three Credits*

**MPA 75510 Practices and Problems of Criminal Justice Administration**

This course examines contemporary crises and challenges facing the criminal justice system. Areas of concern are: public demands for greater productivity and accountability in a period of diminishing resources; decision-making at a time of uncertainty and rapid social change; and the long range, comprehensive planning process in the criminal justice system. Organizational adaptability to such factors as increased inmate law suits and affirmative action requirements is explored.

Prerequisite: Principles and Processes of Criminal Justice Administration  
*Offered when there is sufficient enrollment*  
*Three Credits*

**MPA 75511 Introduction to Human Services Administration**

The purpose of this course is to develop an understanding of the dynamics inherent in the functioning of human service organizations. By identifying what underlies its daily activities, appropriate management concepts designed to improve service effectiveness may be developed. A number of key organizational typologies are studied. A systematic framework for analysis will be integrated, identifying significant organizational factors, their range of variability, their relationship to each other, and how these factors may function to bring about patterns of effective service.

*Offered when there is sufficient enrollment*  
*Three Credits*

**MPA 75512 Human Services Administration: Contemporary Problems and Case Analysis**

This course involves the specific application of the management concepts developed in Intro to Human Services Administration to the functions of the Human Service Organization. It examines what needs to be achieved and avoided in such management functions as budgeting, program evaluation, staff development and community organization. Specific attention will be given to the relationship of organizational and professional goals, the role of personnel, staff and line functions, and the limitations of the human service technology in achieving management functions. Case studies are used to illustrate the essential dynamics of organizational functions.

Prerequisite: Introduction to Human Service Administration  
*Offered when there is sufficient enrollment*  
*Three Credits*

**MSCS 24517 Program, Data, and File Structures**

An examination of the logical and physical structure of both programs and data. Emphasis is on discipline in program design (including structured programming), data organization and accessing, algorithmic analysis, and the basic aspects of string processing, recursion and simple data structures. PASCAL is used for demonstration and/or assignments.

Prerequisite: Quantitative Analysis for Managerial Decisions  
*Fall*  
*Three Credits*

**MBA 16532 Quantitative Analysis for Managerial Decisions**

An introduction to mathematical methods of decision theory and operations research. Topics include: mathematical models, linear programming techniques, simulation game theory, queuing theory, and Markov processes.

Prerequisite: Statistical Analysis, and computer competency.  
*Spring*  
*Three Credits*

**MSCS 24647 Information Analysis**

An extensive examination of the strategies for developing information system applications including a study of the system development life cycle for managing application development. Group dynamics and individual behavior in the development process are explored. Strategies for determining information requirements for an application, methods for analyzing requirements, and the development of a general logical design are examined in detail.

Prerequisite: Program, Data and File Structures and Systems and Information Concepts in Organizations  
*Spring*  
*Three Credits*

**MSCS 24657 Systems Design**

A rigorous study of the design of information systems including specifications, design, implementation, and testing. Both managerial and technological aspects of system design and implementation are considered. The process of planning for change, audits, and post-implementation reviews are addressed. At the conclusion, the student will have the knowledge and skills necessary to develop a physical design and implement an operational system from the logical design.

Prerequisite: Information Analysis  
*Fall*  
*Three Credits*

# Graduate Certificate Program in Public Administration

CONCENTRATIONS IN  
PUBLIC MANAGEMENT  
CRIMINAL JUSTICE ADMINISTRATION  
HUMAN SERVICES ADMINISTRATION

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## Objectives

This Certificate Program has been designed to satisfy the professional needs of persons who wish to acquire graduate level knowledge, but who are not interested in pursuing a full graduate degree program. The program will allow these individuals to develop a general background in public administration, as well as, obtain knowledge in a specific policy area.

## Admission Requirements

The Program is intended for persons currently in, or aspiring to, management or professional staff positions, and who have little, or no, formal education in the particular field. Applicants must hold a bachelor's degree.

Admission is based on prior academic performance and potential, maturity and commitment to professional development, and demonstrated professional/leadership growth, as determined from the application, required letters of recommendation, and official transcripts of academic work. The Graduate Management Admission Test (GMAT) is not ordinarily required, but may be needed in certain cases by the Admission's Committee. Decisions of the Committee on this and all Admission's matters are final.

Applications are accepted for the fall and spring semesters and should be *completed* by August 1st and January 1st, respectively. Required are:

- (1) Completion of appropriate application form;
- (2) *Official* transcripts of *all* undergraduate, including two year college, and graduate academic records sent to the Director of Graduate Admissions;
- (3) Submission of three (3) letters of reference, at least one from the immediate supervisor, one from a professional in the selected field of study, and one from a college professor, *who can evaluate your academic work and potential.*

## Program Structure and Certificate Requirements

The Graduate Certificate is obtained upon satisfactory completion of six courses from the Graduate Program in Public Administration.

Four Core courses are required by all students:

MPA 75500 Concepts and Issues of Public Administration  
MPA 75501 Administration and the Policy Process  
MBA 16550 Human Behavior in Organizations  
MPA 75502 American Federalism and Intergovernmental Relations

Each student must also complete an area of specialization:

### CERTIFICATE IN PUBLIC MANAGEMENT

MPA 75513 Program Planning and Evaluation  
MBA 16551 Personnel Management

### CERTIFICATE IN CRIMINAL JUSTICE ADMINISTRATION

MPA 75509 Principles and Processes of Criminal Justice Administration  
MPA 75510 Practices and Problems of Criminal Justice Administration

### HUMAN SERVICE ADMINISTRATION

MPA 75511 Introduction to Human Service Administration  
MPA 75512 Human Services Administration: Contemporary Problems and Case Analysis

All Graduate P.A. courses carry three semester hours credit and must be taken on a letter grade basis. A cumulative average grade of "B" or better must be maintained in order to receive the certificate.

## Relationship to MPA Program

All courses taken in the Certificate Program are regular MPA courses, and for those in which the grade of B or better is achieved, the credits may later be applied to MPA Program requirements. Because of the broader and more quantitative nature of the MPA Program, however, admission requirements are more rigorous, require an acceptable score on the GMAT, and *no* applications from students in the Certificate Program will be considered until the Certificate program is *completed*.

Since admission to the MPA Program is independent of the Certificate Program, and the College makes no guarantees to admit Certificate holders to it, students anticipating matriculation as an MPA candidate are *strongly advised* to apply directly to the MPA Program.

## Class and Program Length

Classes meet one night each week for a typical 15 week semester from 6:15-9:00 p.m. In addition to the fall and spring semesters, a seven week Summer Session with classes meeting on two nights is offered. The courses offered require considerable time and effort, only one course is permitted in the first semester, and a reasonable guide would be to complete 2-3 courses per *calendar year*. This would mean two to three years to complete the Certificate Program. The maximum time permitted for completion is four years from date of entry into the Program.

## Tuition

Regular graduate tuition, plus semester registration fee.

## Faculty of the Division of Management Studies

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- DANIEL D. ACTON, Assistant Professor of Business 1979  
B.A., Muskingum College  
M.B.A., Miami University  
C.P.A., New York
- EDWIN BOLZ, Adjunct Professor in Public Administration 1980  
B.B.A., Pace University  
M.P.A., New York University
- DONALD J. CALISTA, Associate Professor of Sociology 1977  
B.A., Brooklyn College  
M.A., City University  
M.A., Washington University  
Ed.D., University of Sarasota  
M.P.A., State University of New York at Albany
- PHILIP H. CHASE, Associate Professor of Business 1976  
A.B., Dartmouth University  
M.A., University of Colorado  
Ph.D., University of Colorado
- ANN E. DAVIS, Adjunct Professor of Economics 1981  
B.A., Barnard College  
M.A., Northeastern University  
Ph.D., Boston College
- PAUL J. DONADIO, Adjunct Instructor in Business 1983  
B.S., State University of New York at Albany  
M.S., State University of New York at Albany  
C.P.A., New York
- HELMY H. EL SHERIF, Adjunct Instructor in Business 1982  
B.S., Ain Shams University  
M.S., Michigan State University  
Ph.D., Michigan State University
- KENNETH J. FORDYCE, Adjunct Instructor in Business 1982  
B.S., Union College  
M.S., Union College  
Candidate, Ph.D., Union College
- RAYMOND P. GILA, Assistant Professor of Business 1974  
B.S., Lehigh University  
M.B.A., Lehigh University  
C.P.A., New York
- JOHN J. GRIFFIN, Associate Professor of Economics 1965  
A.B., St. Peter's College  
M.B.A., New York University
- JOHN C. KELLY, Associate Professor of Economics 1962  
*Chairman of the Division*  
B.S.S., Fairfield University  
Ph.D., Boston College
- GREGORY J. KILGARIFF, Associate Professor of Economics 1971  
B.S., St. Joseph's College  
M.A., University of Notre Dame  
Ph.D., University of Notre Dame
- CHESTER KOBOS, Assistant Professor of Finance 1981  
B.A., Canisius College  
M.B.A., New York University  
Ph.D., Fordham University  
Candidate, Ph.D., Rutgers University
- EUGENE H. MELAN, Adjunct Instructor in Business 1979  
B.A., New York University  
M.S., New York University  
M.S.I.A., Union College
- LEE M. MIRINGOFF, Assistant Professor of Political Science 1975  
*MPA Director*  
B.A., Clark University  
Ph.D., Massachusetts Institute of Technology
- DENNIS J. MURRAY, Professor of Public Policy 1979  
B.A., California State University, Long Beach  
M.P.A., University of Southern California  
Ph.D., University of Southern California
- WESLEY G. NILSON, Assistant Professor of Business 1978  
B.S., Bucknell University  
M.M.E., Polytechnic Institute of Brooklyn  
M.E.E., Bucknell University  
M.S., Stevens Institute of Technology  
M.B.A., Iona College  
Candidate, Ph.D., Rensselaer Polytechnic Institute
- PAUL G. NORTON, Assistant Professor of Business 1982  
B.S., Boston University  
M.B.A., Northeastern University  
Ed.D., Boston University
- EDWARD O'CONNOR, Adjunct Instructor of Public Administration  
B.A., St. Bonaventure  
M.P.A., American University
- THEODORE O. PRENTING, Professor of Business 1968  
*MBA Director*  
M.B.A., University of Chicago
- JOHN T. RITSCHDORFF, Assistant Professor of Mathematics 1970  
B.A., Marist College  
M.S., New York University
- NAZIK ROUFAIEL, Assistant Professor of Business 1981  
B.B.A., Cairo University  
M.A., Cairo University  
Ph.D., Cairo University
- CORNELIUS S. RUSSELL, Assistant Professor of Business 1961  
B.A., Marist College  
M.A., Columbia University
- ROBERT SADLIER, Associate Professor of Business 1976  
B.B.A., Adelphi University  
M.B.A., City College of New York  
C.P.A., New York
- RICHARD TEN DYKE, Adjunct Instructor of Business 1982  
B.S., University of Minnesota  
M.B.A., University of Minnesota
- PAUL A. TOBIAS, Adjunct Instructor of Business 1981  
B.S., Polytechnic Institute of Brooklyn  
Ph.D., Columbia University
- STEPHEN WING, Adjunct Instructor of Public Administration  
A.B., William and Mary  
J.D., Fordham University
- LOUIS D. ZUCCARELLO, Professor of Political Science 1966  
B.A., St. John's University  
M.S., Fordham University  
M.A., Fordham University  
Ph.D., Fordham University

# The Graduate Program in Psychology

MASTER OF ARTS DEGREE IN PSYCHOLOGY: Emphasis on Clinical/Community Psychology

Royce White, Ph.D., Acting Director

Since 1974 170 students have graduated from the program.

The large majority of the alumni are employed in the field of human services. Most often they work with the mentally ill and the developmentally disabled. Usually they enter employment whether for inpatients or outpatients in the area of clinical services. An increasing number of the graduates now hold administrative positions usually with state and county services. The Marist program therefore educates and trains professionals to assist materially poor people with serious psychological problems.

## Curriculum Summary

REQUIRED COMPONENTS:		CREDITS
(1) Clinical	Assessment I and II . . . . .	6
	Developmental I and II . . . . .	6
	Clinical Interventions I and II . . . . .	6
	Personality & Psychopathology . . . . .	6
		24
(2) Research	Survey and Program Evaluation . . . . .	6
(3) Community	Community Psych and Elective (1) . . . . .	6
		36
(4) Externship	(Final Semester) or Thesis . . . . .	6
		42
(5) Elective	(General) . . . . .	3
		45

## Curriculum Sequence

### FIRST YEAR

R Assess I	3	R Assess II	3
R Develop I	3	R Develop II	3
R Research I (Survey- Interview)	3	R Personality	3
R Comm. Psych	3	E Comm. Elective or General Elective	3
	12		12

### SECOND YEAR

R Research II (P.E.)	3	Clinical II	3
R Clinical I	3	Externship or Thesis	6
R Psychopathology	3		
E Community (Elective) or General Elective	3		
	12		9





### Admission Requirements

A baccalaureate degree from an accredited college or university is mandatory for admission to the graduate program in psychology. In addition, an applicant is expected to:

- (1) Complete undergraduate courses in general psychology, statistics, psychological testing and experimental psychology;
- (2) Achieve a 2.5 cumulative undergraduate grade point average based on a system in which 4.0 is equivalent to an "A" grade;
- (3) Achieve an acceptable score on the Graduate Record Examination (GRE) morning aptitude tests; or the Miller Analogies Test (MAT);
- (4) Submit three letters of recommendation from former faculty members;
- (5) An interview on campus with the Program Director.

### Degree Requirements

To qualify for the master's degree in community psychology, a student must:

- (1) Complete all requirements not later than five years after matriculation;
- (2) Complete a total of 45 credit hours in courses and externship or thesis;
- (3) Achieve a 3.0 cumulative grade point average in graduate courses;
- (4) Achieve either a grade of "S" for the externship or a grade of "P" for the thesis.

### Statement of Probationary Status

A minimum grade point average (GPA) of 3.0 in graduate courses attempted is a requirement for graduation. If at any time the student's GPA falls below 3.0, the student will be sent a letter notifying him/her of academic review. Academic review will result in either dismissal or assignment of probationary status.

If placed on probation, the student is expected to take immediate steps to raise the GPA. This can be done by (1) earning enough grades of B+ or A, or (2) retaking the course(s) in which a grade of C+ or below was earned and achieving a B or better in this course. Note that grades of B in any subsequent course, while they will raise a GPA when it is below a 3.0, will not by themselves be sufficient to raise the GPA to 3.0 or above.

A student is allowed 12 credit hours of work to raise his GPA above 3.0 after being placed on probation. If, after attempting 12 credit hours, the GPA has not been raised to 3.0, the student will be required to leave the program.

### Externship Option

Since 1968, all Marist undergraduates have been required to extern in their final semester. As a result, the department has acquired an extensive list of placements covering all populations and providing either clinical or research experience and supervision. The graduate externship occurs in the final semester and consists of the equivalent of two work days a week for the semester. A full-time faculty member is assigned to coordinate each student's externship.

### Thesis Option

For those choosing the thesis option, the steps to be followed in fulfilling the thesis requirement are:

- (1) The student must submit a proposal to the Psychology Department by the middle of the next to last semester of graduate study.
- (2) The thesis proposal will be circulated among the full-time graduate faculty members, and among others who may be involved. Each faculty member may comment on the proposal's feasibility, logical consistency and value. Each faculty member may ask that the proposal be revised. A simple majority of the faculty approving the proposal constitutes acceptance of the Department. Step 2 should take no more than 10 days.
- (3) If there is any question regarding the ethical acceptability of the research, the thesis proposal must then be submitted to a committee for review. Upon successful review of this committee, the program director will inform the student by letter that his/her proposal is accepted, and that he/she may proceed with the research.
- (4) The student's thesis committee will be formed as follows: the student selects two faculty members to serve as the supervisor and the reader of the thesis. The graduate program director appoints two additional faculty members.
- (5) The student must submit his/her completed thesis to the committee by the middle of the last semester of graduate study. The format of the thesis is to follow APA Format. The thesis must be acceptable to at least three of the four members of the committee.
- (6) After the written thesis has been found acceptable, the graduate student has the option to orally present and summarize his/her thesis at a meeting to which the psychology faculty and graduate students have been invited.

- (7) After successful completion of all of the above, the student is to submit four copies of the thesis, one each to the supervisor, the reader, the department, and the library, by the beginning of the last week of the last semester of graduate study.

### Schedules

The graduate program in community psychology is designed to be completed in four semesters of full-time study. Part-time students must complete the program within five years.

For the first three semesters, a full-time student attends classes four evenings a week and takes twelve credits.

Each course is offered in the evening and meet one night a week from 6:30 to 9:15 p.m.

Summer classes meet two nights a week during June and July. A student is limited to taking one course during the summer session.

### Advisement

At the time of matriculation, each student is assigned a faculty advisor. A student thereafter may request a change in faculty advisor. Each student is urged to arrange a meeting with his or her faculty advisor prior to registration. Early registration is recommended for the selection of the externship or the thesis.

### Graduate Student Association

Academic and social functions are arranged throughout the academic year by the graduate students. The association has a budget to sponsor talks, symposia, and workshops of interest to the student, faculty and community. The officers have been successful in obtaining a diverse array of speakers to address the students. A graduate student attends department meetings and also sits on the Graduate Council.

# Graduate Psychology Courses

## PSYCH 77511 **Personality**

A variety of personality theories from each of three schools of thought in psychology will be examined. Theorists to be discussed include Freud and Adler from the Psychoanalytic school, Dollard and Miller from the Behaviorist school, Lewin, Rogers, and Kelly from the Gestalt-Phenomenological tradition. In addition to an in-depth understanding, the course will emphasize critical perspectives for evaluating each theory, philosophical assumptions underlying each school of thought, life-span considerations, and, where appropriate, the psychotherapeutic rationale and method associated with each personality theory. Primary source readings will be included. It is recommended that this course be taken prior to or concurrent with the Counseling Methods Course.

*Offered annually*

*Three Credits*

## PSYCH 77540 **Developmental Psychology I**

The study of changes in human behavior with increased age is accomplished through discussion in some detail of basic concepts, research methodology, current empirical evidence, and theoretical formulations which constitute contemporary developmental psychology. This course provides a life-span perspective on development with particular emphasis on adolescence as a period in which the foundations of adult decision-making are set down. Course material is aimed at providing students with a knowledge base from which to make distinctions between normal and abnormal development and a framework for possible remediation where abnormalities are found to occur.

*Fall*

*Three Credits*

## PSYCH 77547 **Developmental Psychology II**

Life-span development with emphasis on adulthood and aging is the focus of this course. Course material deals with the transition from adolescence to young adulthood and subsequent physical and personality change as one proceeds through the adult years. Attention is given to non-normative, as well as normative, events which have been demonstrated to affect adult development. Current empirical evidence on changes in sensation, perception, learning, memory, motivation generally associated with increasing age will be considered. Social factors, such as changes in the family, educational, economic, and social support systems, will be examined with reference to their impact on varying cohorts. It is expected that greater knowledge of normal adult development will provide students with a framework within which to make better judgments with reference to abnormal adult development.

*Spring*

*Three Credits*

## PSYCH 77625 **Learning: A Community Systems Approach**

This course consists of three components relevant to a community psychological approach to education. The first component, "Why Can't Johnny Learn?" consists of a systems approach to the factors affecting learning in schools. In this approach, the class will consider the individual and family, classroom, school and community level factors and their interactions and effects on academic achievement. The second component, Educational Innovations, includes strategies for intervening in the schools to promote system changes which will enhance learning. Students will propose a hypothetical intervention to enhance learning. In the final part of the course, Community Mental Health, the issue of how a community psychologist can work in the schools to promote the mental health of the student will be addressed.

*Fall or Spring*

*Three Credits*

## PSYCH 77542 **Psychopathology**

The course considers the causes of psychopathology viz. genetic, biologic, psychogenic and cultural. The origins of psychopathologies are related to the DMS-III classification. Consider the influences within and outside psychiatry in diagnosing psychopathology and prescribing treatment. Lastly, a consideration of treatment approaches from the neurobiological view to the stress of designated life events.

*Offered annually*

*Three Credits*

## PSYCH 77543 **Multimodal Therapy**

The relationship between theory, research and practice in the modification of human functioning is explored. More specifically, a conceptual and practical framework is provided for understanding, assessing, and changing one's own functioning and that of others. The holistic and systematic approach of Multimodal Psychology serves as the vehicle for achieving these goals.

*Offered annually*

*Three Credits*

## PSYCH 77545 **Psychology of Communication**

Covers the principles of effective interpersonal communication in dyads, small groups and community settings. In addition to readings and discussions of theory and techniques of communicating, students will practice skills of self-disclosure, active listening, confrontation and persuasive communication. Since communication also involves self-awareness, students may also participate in value clarification workshops, role play simulations, and other small group experiences. Opportunities for groups of students to investigate optional related topics such as non-verbal communication, transactional analysis, communicating

through the mass media, and constructive patterns of communications in work groups, families and couples, and other social systems will be provided.

*Summer session*

*Three Credits*

## PSYCH 77546 **Experimental Social Psychology**

An intensive study of the theories, principles, and research on social psychology issues which have potential applications to community psychology. Such topics would include social influence and persuasion, altruism and community organization.

*Offered if there is student interest Three Credits*

## COMMUNITY COURSES

### COMM 77520 **Community Psychology**

Study the impact of public policy, e.g. deinstitutionalization, on clinical psychology. Traces the extension of community mental health into other areas within psychology and related disciplines. Examines the new methodologies employed in the emerging field of community psychology.

*Fall and Spring*

*Three Credits*

### COMM 77620 **Community Change**

Identifies psychological theories and findings that may contribute to community change. Considers facilitating and impeding factors to community change. Emphasizes strategies for change for emerging social problems. Reviews ethical issues involved in community change.

*Offered every other Spring*

*Three Credits*

### COMM 77621 **Community Public Health**

Approaches the study and analysis of the community from the Public Health model. A strong emphasis is placed on a disease-prevention orientation and strategic planning. The empirical component is composed of reviews and discussions of epidemiology research studies. The administration and organization component is viewed from the county level of government.

*Fall*

*Three Credits*

### COMM 77622 **Community Human Services Systems**

Traces the rapid and diversified expansion of government-sponsored social welfare services (health, housing, education, etc.). Theoretically, it considers the tensions between government control and power, and individual privacy and liberty. Practically, it considers the problems of organization and administration of human service programs. Judicial decisions are included for illustrative purposes.

*Offered every other Spring*

*Three Credits*

**COMM 77623 Community Problems I**

Community Problems is an in-depth treatment of a particular community problem. The instructor selects a particular topic from the areas of health, education or welfare.

*Offered if there is student interest Three Credits*

**COMM 77624 Community Problems II**

Community Problems II is comparable to Community Problems I. The designations I and II do not refer to different levels of the course, but rather to the fact that different topics from the areas of health, education and welfare are treated in each course.

*Offered if there is student interest Three Credits*

**COMM 77628 Community and the Aged**

The relationship between policymaking and the operation of programs for the aged is the focus of this course. Lectures and discussions focus on a re-appraisal of the federal role in the allotment of financial resources, the network of delivery systems. Autonomy and responsibility within the system are examined with an eye to training administrative skills. Program development and future planning discussions focus on such problem areas as health care, housing, income maintenance, legal services, transportation and meaningful communications.

*Spring Three Credits*

**PSYCH 77505 Assessment I**

The foundation of all psychological assessment is laid by integrating theory, treatment, and assessment via a "holistic" model of human functioning. A review of the basic principles of test construction, analysis and interpretation provides for the use of formal psychometric measures, as well as clinical judgment. Particular emphasis is placed on cognitive functioning, through the use of the Wechsler, Binet, and McCarthy Scales. Aptitude, achievement, and interest inventories are included in addition to self rating scales of cognitive style. Practical experience and report writing is emphasized, as is life span assessment.

*Fall Three Credits*

**PSYCH 77506 Assessment II**

This course serves as the logical extension of the "holistic" approach developed in Assessment I. Psychometric and clinical assessment across behavioral, affective, sensory, imaginal and interpersonal modalities is detailed throughout the entire life span. Practical experience with traditional projective tests (Rorschach, TAT, CAT, Drawings, etc.), personality inventories and rating scales is included, in addition to the use of functional analysis, self observation and imaginal techniques. Comprehensive report writing is required.

*Spring Three Credits*

**PSYCH 77710 Research Methods I: Survey/Interview**

The use of questionnaires and interviews to collect information as part of a research project. Covers development and construction of questions, selecting a sample of persons, administering the survey, analyzing and interpreting data, writing report of results. Theoretical issues and practical applications.

*Fall Three Credits*

**PSYCH 77711 Research Methods II: Program Evaluation**

The course focuses on the techniques of program evaluation in human services including needs assessment, outcome, cost/benefit and quality assurance. Also included are discussions of the politics of evaluation, approaches to increase utilization and publishing of results. Case examples from the literature are analyzed.

*Spring Three Credits*

**PSYCH 77695 Clinical Interventions I**

This course will examine the process involved in individual counseling and psychotherapy. Supportive, re-educative, and reconstructive approaches to therapeutic interaction will be explored. Various theoretical approaches to understanding personality change will be examined. These will include behavioral, psychodynamic, and client centered orientations. This course will assume a life-span perspective on therapeutic interaction. As such, techniques for counseling child, adolescent, adult, and aged populations will be discussed.

*Fall Three Credits*

**PSYCH 77696 Clinical Interventions II**

This course will examine group approaches to therapeutic interaction. The history and development of group therapy will be presented. Various theoretical models of group treatment will be considered: behavioral, gestalt, and psychodynamic. Issues in technique, client selection, and group composition will be presented. Students will participate in group experiences as part of the learning process for this course. Role playing of groups with various client populations, e.g. adolescents, retarded, the aged, will be included. Approaches to family therapy and marriage counseling will also be considered.

*Spring Three Credits*

**CAPPING ALTERNATIVES**

**EXTERNSHIP 77700**

The externship is a semester-long, culminating, applied experience. The student selects the work setting and is under professional supervision for two days a week. The student may extern after all course work is completed or while the final course is being taken.

*Recommended for a Spring semester Six Credits*

**THESIS 77705**

The thesis may be of a theoretical or empirical nature. The final draft of the thesis must be submitted by the middle of March for May graduation.

*See calendar for precise date Six Credits*

## Psychology Alumni

### Employment Survey of Alumni

Seventy-five alumni responded to an employment survey mailed to 115 addresses in the summer of 1982.

#### SURVEY RESULTS

Mental Health	37	19 clinical, 18 administrative
Developmental Disabilities	13	10 clinical, 3 administrative
Corrections	3	3 clinical
Education	7	4 college faculty, 3 high school faculty (6 doctorates)
Doctoral Candidates	5	Arizona State, Brandeis, Florida State, Syracuse (2)
Business/Industry	7	
Other	<u>3</u>	
Total	75	

## Faculty of Psychology

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JOSEPH CANALE, Adjunct Instructor 1982

B.A., Marist College  
Ed.D., University of Tennessee

ANNE CONSTANTINOPLÉ, Adjunct Instructor 1983

B.A., Smith College  
Ph.D., University of Rochester

WILLIAM R. EIDLE, Associate Professor of Psychology 1965

*Chairperson*  
B.A., Fordham College  
M.A., Fordham University  
Ph.D., Fordham University

DANIEL KIRK, Professor of Psychology 1956

B.A., Marist College  
M.A., St. John's University  
Ph.D., St. John's University

FRED McMANUS, Assistant Professor of Psychology 1981

B.A., State University of New York at Plattsburgh  
Ph.D., State University of New York at Stony Brook

EDWARD J. O'KEEFE, Professor of Psychology 1961

B.S., Iona College  
M.A., Fordham University  
Ph.D., Fordham University

ANN O'SULLIVAN, Adjunct Instructor 1982

R.N., Misericordia Hospital  
B.A., Syracuse University  
M.P.H., Columbia University

JOHN PODZIUS, Assistant Professor of Psychology 1979

B.A., St. John's University  
M.A., New School for Social Research  
Ph.D., New School for Social Research

JOHN PORCELLA, Adjunct Instructor 1980

B.A., SUNY New Paltz  
M.S., St. John's University  
Ph.D., St. John's University

MARJORIE SCHRATZ, Assistant Professor of Psychology 1975

B.A., Marist College  
M.A., University of Bridgeport  
Ph.D., Fordham University

JOHN SCILEPPI, Associate Professor of Psychology 1973

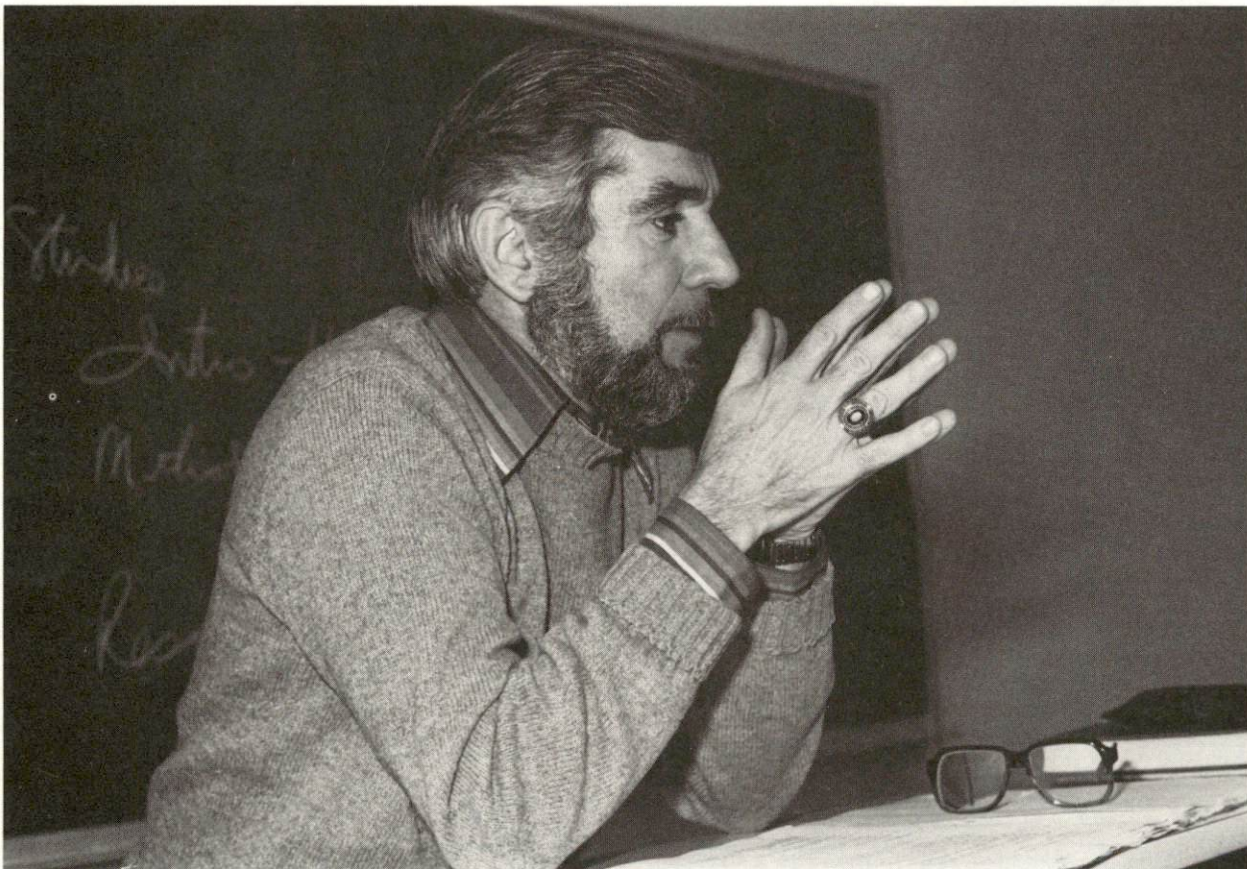
B.A., Marist College  
M.A., Loyola University  
Ph.D., Loyola University

JAMES SMITH, Adjunct Instructor 1980

A.B., St. Joseph's Seminary & College  
M.A., Fordham University  
Ph.D., Fordham University

ROYCE WHITE, Assistant Professor of Psychology 1975

B.A., Anderson College  
M.A., University of Florida  
Ph.D., University of Florida



# The Graduate Program in Computer Science

## Master of Science (M.S.) Degree – Major in Software Engineering

John E. MacDonald, Jr., Ph.D., Director

The purpose of the master's degree is to provide advanced training and experience in the various disciplines of computer science to individuals who hold a bachelor's degree in computer science, mathematics, physics, engineering, or some other closely allied field.

A natural extension of the undergraduate program, Marist's MSCS/SE is designed to prepare individuals for a working career in industry or government as well as to assist those who are already employed within the industry to acquire advanced professional training necessary in today's rapidly changing technological environment. This latter group consists of applications programmers, design engineers, managers, materials scientists, manufacturing specialists, field engineers, test specialists, and others who wish to broaden their understanding of the computer science field, particularly in the rapidly developing disciplines known collectively as software engineering.

### Admission Requirements

A baccalaureate degree from an accredited college or university is required for admission to the graduate program in computer science. In addition to filing a formal application, each student must:

- (1) Arrange to have official transcripts of all undergraduate (including two-year colleges) and graduate academic records sent to the Director of Graduate Admissions.
- (2) Submit evidence of satisfactory completion of certain undergraduate courses in computer science and mathematics. (Applicants whose undergraduate major is in a field other than computer science should refer to the section on Mathematical/Computer Science Competency.)
- (3) Foreign applicants are required to submit scores on the Test of English as a Foreign Language (TOEFL). Documentation of financial resources and support is also required of all foreign applicants.

Applications for admission may be obtained through the Graduate Admissions Office located in Fontaine Hall. All correspondence should be addressed as follows:

Director of Graduate Admissions  
Marist College  
Poughkeepsie, New York 12601

Students are accepted for all semesters—Fall, Spring and Summer. Application for these semesters should be completed by August 15, January 15 and May 15, respectively.

### Transfer Credit

A student may transfer up to six (6) graduate credits from a regionally accredited graduate program. Only courses with grades of "B" or better will be accepted. Courses should be equivalent in content and credit value to courses offered in the Marist Program. The Director of the MSCS/SE Program will determine the status of all applications which include previous graduate study.

### Advisement

The Program Director serves as the advisor for all students in the S.E. Program, and students should discuss any questions or concerns they may have about their studies with the Director.

### Facilities and Equipment

Two IBM 4341s, located in Donnelly Hall, support the Marist College time-sharing system. This system is used by Marist College and other institutions for administrative applications, instruction and research.

Students, faculty members and staff members can communicate with the computer through interactive terminals from various locations on campus. The student terminal rooms house 100 terminals for student use and three classrooms are equipped with a terminal and monitor to facilitate instruction.

The software available on the system includes the programming languages VSAPL, PASCAL, ASSEMBLER, ALGOLW, BASIC, FORTRAN, and PL/C, as well as the following packages: SCRIPT, SPSS, STAT-PAK, COGO, POLYSOLVE, and a full-screen editor.

### MATHEMATICAL/COMPUTER SCIENCE COMPETENCY

It is expected that all applicants for admission to the MSCS/SE Program will have demonstrated proficiency in programming and mathematics. Each student's academic record will be carefully reviewed to assure that this level of proficiency has been reached.

#### UNDERGRADUATE PRE-REQUISITES:

	<b>CREDITS</b>
At least two Programming Languages* (APL, ASSEMBLER, PASCAL, FORTRAN, PL/I, etc.)	6
Computer Organization	3
File Processing**	3
Data Structures**	3
Operating Systems and Computer Architecture	<u>3</u>
	18
Calculus	6
Linear Algebra	3
Probability and Statistics	<u>3</u>
	12
	<b>TOTAL: 30 credits</b>

\*PASCAL is strongly recommended.

\*\* A combined intensive course is available.

Formal admission to the master's degree program will be granted only to students who have satisfied these prerequisites. Some students may, however, be permitted to enroll in graduate courses as a non-matriculated student upon satisfactory completion of specific prerequisites. The maximum number of graduate credits that can be earned by a non-matriculated student is *nine*. Questions concerning mathematical/computer science competency and non-matriculated status should be directed to the Graduate Admissions Office.

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### **Degree Requirements**

To qualify for the master of Computer Science degree, a student must complete thirty (30) credits at the graduate level. Additional undergraduate coursework may be required to satisfy prerequisite requirement or remedy deficiencies as identified by the Admissions Committee. M.S. degree requirements must be satisfied within 7 years of acceptance into the program, with a cumulative index of no less than 3.0. Requests for any extension of the seven year limitation must be made, in writing, to the Program Director. Students must take at least six (6) courses at or above the 600 level.

Each student, upon acceptance into the program, will receive a list of prescribed courses to be successfully completed. Graduate students are assigned a faculty advisor who assists in program planning.

All courses leading to the M.S. degree are offered in the late afternoon and evening in order to serve the needs of the working adult. Part-time students are limited to registering for one course during their first semester unless prior approval is granted by the Program Director. Full-time study is defined by a semester load of twelve (12) or more credits.

### **Matriculated Status**

Applicants who satisfy all requirements, including undergraduate prerequisite courses for admission into the graduate program, are admitted as matriculated students. Those applicants who are required to complete undergraduate prerequisite courses are admitted as non-matriculated students. Graduate students must matriculate upon completion of prerequisite courses.



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**Requirements for the M.S. degree with a Software Engineering major are as follows:**

**Area A Programming Languages (at least 2 courses)**

- 24510 Software Design and Development
- 24591 Special Topics in Computer Science Area A
- 24610 Advanced Theory of Programming Languages
- 24611 Formal Methods in Programming Languages
- 24612 Architecture of Assemblers
- 24613 High Level Language Computer Architecture
- 24691 Advanced Special Topics in Computer Science Area A

**Area B Operating Systems and Computer Architecture (at least 2 courses)**

- 24520 Performance Evaluation
- 24521 Large Computer Architecture
- 24592 Special Topics in Computer Science Area B
- 24620 Computer Communication Networks and Distributed Processing
- 24621 Real Time Systems
- 24692 Advanced Special Topics in Computer Science Area B

**Area C Theoretical Computer Science (at least 1 course)**

- 24530 Algorithms
- 24531 Automata, Computability, and Formal Languages
- 24532 Applied Combinatorics and Graph Theory
- 24593 Special Topics in Computer Science Area C
- 24630 Theory of Computation
- 24693 Advanced Special Topics in Computer Science Area C

**Area D Data and File Structures (at least 1 course)**

- 24540 Information Systems Design
- 24541 Information Storage and Access
- 24542 Database Management
- 24594 Special Topics in Computer Science Area D
- 24640 Distributed Database Systems
- 24694 Advanced Special Topics in Computer Science Area D

**Area E Other Topics (at least 1 course)**

- 24550 Artificial Intelligence
- 24555 Computer Graphics I
- 24595 Special Topics in Computer Science Area E
- 24650 Pattern Recognition
- 24652 Modeling and Simulation
- 24653 Legal and Economic Issues in Computing
- 24654 Introduction to Symbolic and Algebraic Manipulation
- 24655 Computer Graphics II
- 24695 Advanced Special Topics in Computer Science Area E

**Area X Capstone Activity (2 courses)**

- 24700 Thesis I
- 24701 Thesis II
- 24710 Project
- 24711 Seminar

All courses carry three (3) graduate credits.

### Capstone Activity

Two methods are available which allow the master's degree candidate to demonstrate a satisfactory level of competence in writing, speaking, and research.

### Option I—Thesis (6 credits)

For those choosing the thesis option, the steps to be followed in fulfilling the thesis requirement are:

- (1) The student must submit a proposal to the Computer Science Department at the completion of eighteen (18) graduate credits.
- (2) The thesis proposal will be circulated among graduate faculty members who may comment on the proposal's feasibility, logical consistency, and worthwhileness. A simple majority of the faculty approving the proposal constitutes acceptance of the Department.
- (3) The student's thesis committee will be formed as follows: the student selects two faculty members to serve as the supervisor and the reader of the thesis. The Graduate Program Director appoints two additional faculty members.
- (4) The student must submit the completed thesis to the committee by the middle of the last semester of graduate study. The thesis must be acceptable to at least three of the four members of the committee.
- (5) After successful completion of all of the above, the student is to submit four copies of the thesis, one each to the supervisor, the reader, the department, and the library by the beginning of the last week of the last semester of graduate study.

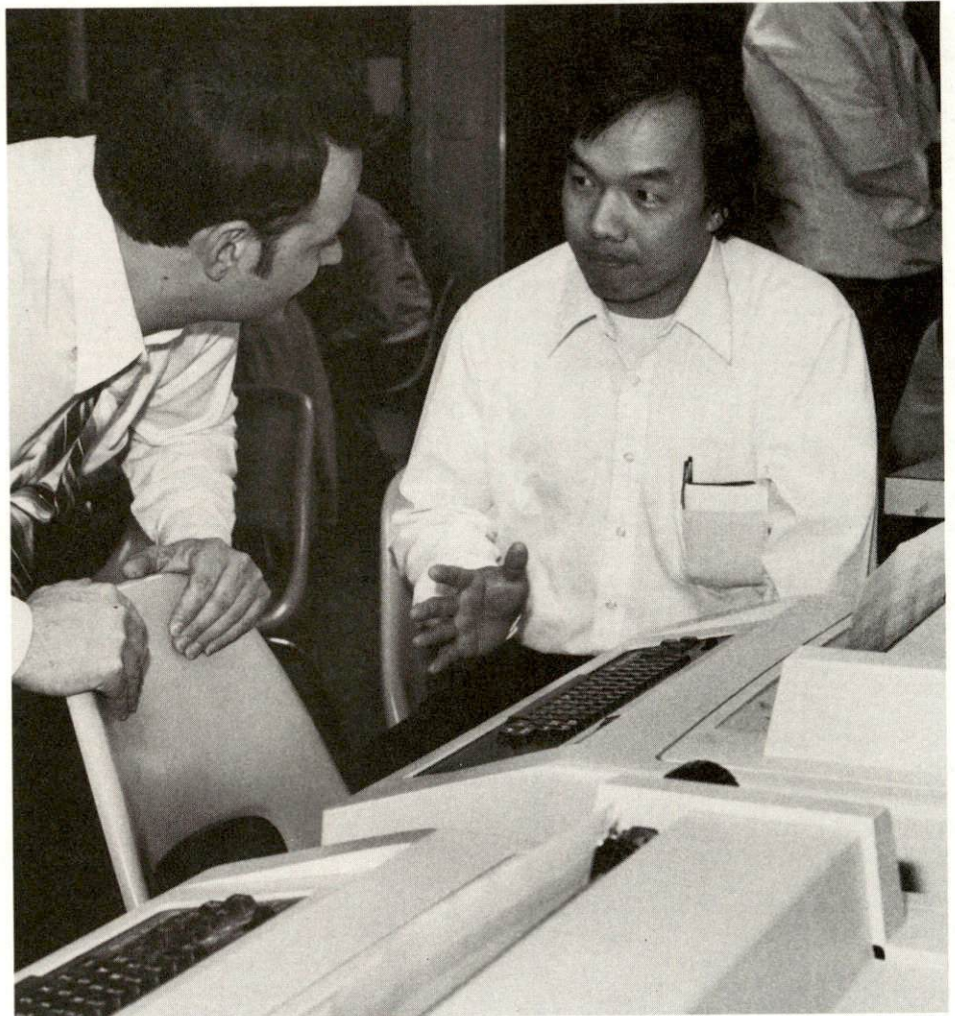
Students selecting the Thesis Option must register for 24700 Thesis I and 24701 Thesis II during two consecutive semesters, or both courses during the last semester.

### Option II—Project and Seminar (6 credits)

This option facilitates the use of practical and useful computer programs as a project topic. In particular, the program which is developed to interface with the work of fellow students will give important laboratory experience in some of the crucial aspects of software design and development.

The Project may be carried out alone or in cooperation with one or two other candidates. The Seminar, which follows the Project in point of time, is a group activity in which each student describes the Project orally and also develops written critiques of similar oral presentations by fellow students.

Students selecting the Project and Seminar Option must register for 24710 Project and 24711 Seminar during two consecutive semesters. Summer-Fall and Spring-Summer registrations are permitted with approval of the director.





# Graduate Computer Science Courses

## **MSCS 24510 Software Design and Development**

This course presents a formal approach to state-of-the-art techniques in software design and development and provides a means for students to apply the techniques.

## **MSCS 24520 Performance Evaluation**

A survey of techniques of modeling concurrent processes and the resources they share. Includes levels and types of system simulation, performance prediction, benchmarking and synthetic loading, hardware and software monitors.

## **MSCS 24521 Large Computer Architecture**

A study of large computer systems which have been developed to make special types of processing more efficient or reliable. Examples include pipelined machines and array processing. Tightly coupled multiprocessors will be covered.

## **MSCS 24530 Algorithms**

This course will develop students' abilities as writers and critics of programs. The student will be introduced to a variety of program design techniques including recursion, heuristics, divide-and-conquer, and dynamic programming. Methods of performance analysis with respect to space and time will also be covered.

## **MSCS 24531 Automata, Computability, and Formal Languages**

This course offers a diverse sampling of the areas of theoretical computer science and their hierarchical interconnections. Basic results relating to formal models of computation will be introduced.

## **MSCS 24532 Applied Combinatorics and Graph Theory**

A study of combinatorial and graphical techniques for complexity analysis including generating functions, recurrence relations, Polya's theory of counting, planar directed and undirected graphs, and NP complete problems. Applications of the techniques to analysis of algorithms in graph theory and sorting and searching.

## **MSCS 24540 Information System Design**

A practical guide to Information System Programming and Design. Theories relating to module design, module coupling, and module strength are discussed. Techniques for reducing a system's complexity are emphasized. The topics are oriented toward the experienced programmer or systems analyst.

## **MSCS 24541 Information Storage and Access**

Advanced data structures, file structures, databases, and processing systems for access and maintenance. For explicitly structured data, interactions among these structures, accessing patterns, and design of processing/access systems. Data administration, processing system life cycle, system security.

## **MSCS 24542 Database Management**

A study of the concepts and issues related to managing data in an information system. The evolution of computerized information systems from early file systems to current decision support systems is examined. Major database design philosophies along with their corresponding data models are explored. Specific examples of current database management systems are examined as well as issues such as recovery, integrity, concurrency and security.

## **MSCS 24550 Artificial Intelligence**

This course introduces students to basic concepts and techniques of artificial intelligence, or intelligent systems, and gives insights into active research areas and applications. Emphasis is placed on representation as a central and necessary concept for work in intelligent systems.

## **MSCS 24555 Computer Graphics I**

An overview of the software, hardware, and techniques used in computer graphics, including two-dimensional transformations, clipping, windowing, display files, and input devices as well as the three types of graphics hardware: refresh, storage, and raster scan.

## **MSCS 24610 Advanced Theory of Programming Languages**

This is a course in the formal treatment of programming language translation and compiler design concepts. Emphasis is on machine-independent implementation of programming language constructs.

## **MSCS 24611 Formal Methods in Programming Languages**

Data and control abstractions are considered. Advanced control constructs including backtracking and nondeterminism are covered. The effects of formal methods for program description are explained. The major methods for proving programs correct are described.

## **MSCS 24612 Architecture of Assemblers**

Anatomy of an assembler; source program analysis, relocatable code generation, and related topics. Organization and machine language of two or three architecturally different machines; survey and comparison of these machines in various programming environments.

## **MSCS 24613 High Level Language Computer Architecture**

An introduction to architectures of computer systems which have been developed to make processing of programs in high level languages easier.

## **MSCS 24620 Communication Networks and Distributed Processing**

A study of the concepts and terminology of data communications, network design, and distributed information systems. The problems, rationales, and possible solutions for both distributed processing and distributed databases is examined. Common carrier services, protocols, network design and control, local area networks (LANS), value added networks (VANS), and future network technologies are explored.

## **MSCS 24621 Real-Time Systems**

An introduction to the problems, concepts, and techniques involved in computer systems which must interface with external devices. These include process control systems, computer systems embedded within aircraft or automobiles, and graphics systems. The course concentrates on operating system software for these systems.

## **MSCS 24630 Theory of Computation**

A survey of formal models of computation. Including Turing Machines, partial recursive functions, recursive and recursively enumerable sets, the recursion theorem, abstract complexity theory, program schemes, and concrete complexity.

## **MSCS 24640 Distributed Database Systems**

A consideration of the problems and opportunities inherent in distributed databases on a network computer system. Includes file allocation, directory systems, deadlock detection and prevention, synchronization, query optimization, and fault tolerance.

## **MSCS 24650 Pattern Recognition**

An introduction to the problems, potential, and methods of pattern recognition through a comparative presentation of different methodologies and practical examples. Covers feature extraction methods, similarity measures, statistical classification, mini-max procedures, maximum likelihood decisions, and the structure of data to ease recognition. Applications are presented in image and character recognition, chemical analysis, speech recognition, and automated medical diagnosis.

**MSCS 24652 Modeling and Simulation**

A study of the construction of models which simulate real systems. The methodology of solution will include probability and distribution theory, statistical estimation and inference, the use of random variates, and validation procedures. A simulation language will be used for the solution of typical problems.

**MSCS 24653 Legal and Economic Issues in Computing**

A presentation of the interactions between users of computers and the law and a consideration of the economic impacts of computers. Includes discussion of whether or not software is patentable, as well as discussion of computer crime, privacy, electronic fund transfer, and automation.

**MSCS 24654 Introduction to Symbolic and Algebraic Manipulation**

A survey of techniques for using the computer to do algebraic manipulation. Includes techniques for symbolic differentiation and integration, extended precision arithmetic, polynomial manipulation, and an introduction to one or more symbolic manipulation systems. Automatic theorem provers are considered.

**MSCS 24655 Computer Graphics II**

This course will cover individual topics in computer graphics such as three dimensional graphics, hidden line and surface removal, and animation.



# The Graduate Program in Computer Science

## MASTER OF SCIENCE (M.S.) DEGREE – MAJOR IN INFORMATION SYSTEMS

**Jerome A. McBride, M.S.C.S., Director**

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The Information Systems master's program provides advanced training and experience in both computer science and business administration. Its goal is to help meet the increasing demand for knowledgeable personnel who possess a balanced combination of technical and managerial skills.

The primary areas of study include information systems technology, information concepts and processes, and organization functions and management (including interpersonal and organizational behavior). This advanced education and training prepares the graduating student to assist in defining and planning information systems, to elicit information requirements for application systems, to assist in designing such systems, to implement information systems applications, and to manage information system development and operation.

The MSCS/IS degree program has been designed to prepare individuals for a working career in industry or government. Specific career paths for the graduating student would include Systems Analyst and/or Designer, Data Administrator, Information Systems Consultant, Data Processing Auditor, Project Manager, or Information Systems Manager. For those already employed in related disciplines, the program provides advanced professional training to enhance career advancement opportunities.

### Admission Requirements

A baccalaureate degree from an accredited college or university is required for admission to the graduate program in computer science. In addition to filing a formal application, each student must:

- (1) Arrange to have official transcripts of all undergraduate (including two-year colleges) and graduate academic records sent to the Director of Graduate Admissions.
- (2) Submit evidence of satisfactory completion of undergraduate courses in Computer Programming and Quantitative Methods.
- (3) Foreign applicants are required to submit scores on the Test of English as a Foreign language (TOEFL). Documentation of financial resources and support is also required of all foreign applicants.

Applications for admission may be obtained through the Graduate Admissions Office located in Fontaine Hall. All correspondence should be addressed as follows:

Director of Graduate Admissions  
Marist College  
Poughkeepsie, New York 12601

Students are accepted for all semesters—Fall, Spring and Summer. Application for these semesters should be completed by August 15, January 15 and May 15, respectively.

### Transfer Credit

A student may transfer up to six (6) graduate credits from a regionally accredited graduate program. Only courses with grades of "B" or better will be accepted. Courses should be equivalent in content and credit value to courses offered in the Marist Program. The Director of the I.S. Program will determine the status of all applications which include previous graduate study.

### Advisement

The Program Director serves as the advisor for all students in the I.S. Program, and students should discuss any questions or concerns they may have about their studies with the Director.

### Degree Requirements

To qualify for the master of Computer Science degree in Information Systems, a student must complete as little as 30 credit hours to a maximum of 48 credit hours at the graduate level. Additional undergraduate coursework may be required to satisfy prerequisite requirements or remedy deficiencies as identified by the Admissions Committee. M.S. degree requirements must be satisfied within 9 years of acceptance into the program, with a cumulative index of no less than 3.0. Requests for any extension of the nine year limitation must be made, in writing, to the Program Director.

Each student, upon acceptance into the program, will receive a list of prescribed courses to be successfully completed. Graduate students are assigned a faculty advisor who assists in program planning.

All courses leading to the M.S. degree are offered in the late afternoon and evening in order to serve the needs of the working adult. Part-time students are limited to registering for one course during their first semester unless prior approval is granted by the Program Director. Full-time study is defined by a semester load of twelve (12) or more credits.

### Matriculated Status

Applicants who satisfy all requirements, including undergraduate prerequisite courses for admission into the graduate program are admitted as matriculated students. Those applicants who are required to complete undergraduate prerequisite courses are admitted as non-matriculated students. Graduate students must matriculate upon completion of prerequisite courses.

### Capstone Activity

The Information Systems Projects course is used to demonstrate a satisfactory level of competence in writing, speaking and research.

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**Requirements for the M.S.C.S. degree in Information Systems are as follows:**

MSCS 24507	Computer Concepts & Software Systems
MSCS 24517	Program, Data, and File Structures
MSCS 24527	Systems & Information Concepts in Organizations
MBA 16520	Analysis of the Marketing Process
MSCS 24542	Data Base Management
MSCS 24647	Information Analysis
MBA 16540	Financial Accounting
MBA 16550	Human Behavior in Organizations
MSCS 24620	Communication Networks & Distributed Processing
MSCS 24652	Modeling & Simulation
MSCS 24657	Systems Design
MBA 16560	Operations Management
MSCS 24667	Information Systems Policy
MSCS 24720	Information Systems Projects
MBA 16570	Management of Finance
	Plus one of the following:
MBA 16500	Organization and the Environment; or,
MBA 16510	Macroeconomic Analysis; or,
MBA 16511	Microeconomic Analysis

Prerequisite courses for the Information Systems major include CMSC 21101 (Introduction to Computing) and CMSC 2111 (Computational Models) or their equivalent. The above requirements may be reduced by as much as 18 credit hours due to waivers granted for a student's prior academic work in the subject area. Where waivers are granted, the Director may recommend the inclusion of alternate courses into a specific program. Examples of such courses would be MBA 16541 (Management Accounting) or PSYCH 77545 (Psychology of Communication). All courses in the program provide three (3) graduate credits.



# Graduate Information Systems Courses

## **MSCS 24507 Computer Concepts & Software Systems**

An introduction to computer organization, architecture and operating system principles. Interrelationships between the operating system and the architecture are addressed in depth. Machine language, Assembly language and the operating environment for application programs are discussed.

Prerequisite: Introduction to Computing and Computational Models or their equivalent.

## **MSCS 24517 Program, Data, and File Structures**

An examination of the logical and physical structure of both programs and data. Emphasis is on discipline in program design (including structured programming), data organization and accessing, algorithmic analysis, and the basic aspects of string processing, recursion and simple data structures. PASCAL is used for demonstration and/or assignments.

Prerequisite: Introduction to Computing and Computational Models or their equivalent.

## **MSCS 24527 Systems & Information Concepts in Organizations**

An identification and basic exploration of the systems point of view, the organization of a system, information flows, and the nature of information systems in organizations. The relation between systems and information to organizational objectives is examined. Specific information system applications are explored. Examples may include accounting, production, marketing, management control, decision making, and/or others appropriate to the class population.

## **MBA 16520 Analysis of the Marketing Process**

The student will describe and identify characteristics of sound marketing management policies and strategies including the areas of systems management; marketing potential assessment; market planning, organization, and control; product policy, promotion and distribution policies; and pricing.

## **MSCS 24542 Data Base Management**

A study of the concepts and issues related to managing data in an information system. The evolution of computerized information systems from early file systems to current decision support systems is examined. Major database design philosophies along with their corresponding data models are explored. Specific examples of current database management systems are examined as well as issues such as recovery, integrity, concurrency and security.

## **MSCS 24647 Information Analysis**

An extensive examination of the strategies for developing information system applications including a study of the system development life cycle for managing application development. Group dynamics and individual behavior in the development process are explored. Strategies for determining information requirements for an application, methods for analyzing requirements, and the development of a general logical design are examined in detail.

## **MBA 16540 Financial Accounting**

A survey of accounting principles and practices used in preparing financial accounting information which fulfills management's public reporting responsibilities. Included is an intensive study of the preparation and meaning of financial statements and management's influence over them. Among the topics highlighted are accounting terminology and mechanics, valuation approaches, cost concepts, income determination, interpretive fund flow analysis and the influence of the federal income tax on decisions.

## **MBA 16550 Human Behavior in Organizations**

Introduces the basic concepts of the individual in an organization and the organization as a system. Presents a framework for thinking about the human side of organizations. Examines a variety of topics including: leadership styles, motivation, managerial stress, political maneuvering, improving subordinates' performance, behavioral aspects of decision making, managerial and organizational effectiveness. Case problems are extensively used.

## **MSCS 24620 Communication Networks & Distributed Processing**

A study of the concepts and terminology of data communications, network design, and distributed information systems. The problems, rationales, and possible solutions for both distributed processing and distributed databases is examined. Common carrier services, protocols, network design and control, local area networks (LANS), value added networks (VANS), and future network technologies are explored.

## **MSCS 24652 Modeling & Simulation**

A study of the construction of models which simulate real systems. The methodology of solution will include probability and distribution theory, statistical estimation and inference, the use of random variates, and validation procedures. A simulation language will be used for the solution of typical problems.

## **MSCS 24657 Systems Design**

A rigorous study of the design of information systems including specifications, design, implementation, and testing. Both managerial and technological aspects of system design and implementation are considered. The process of planning for change, audits, post-implementation reviews are addressed. At the conclusion, the student will have the knowledge and skills necessary to develop a physical design and implement an operational system from the logical design.

Prerequisite: Information Analysis

## **MBA 16560 Operations Management**

Topics fundamental to the operation of the enterprise are studied. Product or process design; facility location and layout; and control of the process through techniques such as network planning, methods analysis, work measurement, and quality control. Important developments and concepts from the behavioral, economic, mathematical and production engineering fields are highlighted.

Prerequisites: Quantitative Analysis for Managerial Decisions or its equivalent.

## **MSCS 24667 Information Systems Policy**

An examination of the overall information needs of an organization and role of information systems in meeting them. The administrative and management issues related to administering the information system function are explored. Alternative structures for matching an information system department to the structure and behavior of the organization are examined including the concept of the Information Center.

## **MSCS 24720 Information Systems Projects**

Through the use of projects, this course fits together all of the concepts from previous courses regarding information system development. The student is provided with experience in analyzing, designing, implementing, and evaluating information systems. Students are assigned one or more system development projects involving part or all of the systems development cycle. Students work in teams to acquire practical experience in such projects, including the behavioral considerations in systems development.

Prerequisites: Information Analysis and Systems Design. Modeling & Simulation or its equivalent is strongly recommended.

**MBA 16570 Management of Finance**

Presents a basis for advanced understanding of the financial management functions of the enterprise. Develops ability in: collecting and interpreting financial data in order to implement capital expenditure policies, solving short-term and long-term financing problems, establishing dividend policies, calculating out the cost of capital, effecting mergers and consolidations, and adapting to trends in financial markets. Explains the role of the financial management system in relation to the total management system.

Prerequisite: Financial Accounting

**MBA 16500 Organization and the Environment**

A study of the relationships, interactions, and behavior of organizations with their environment from the technological, legal, political, socio-cultural, and economic points of view. Attention is given to the changing nature and responsibilities of organizations with regard to current social problems and potential social problems and opportunities. Taught in seminar style, it probes underlying structures.

**MBA 16510 Macroeconomic Analysis**

A study of the important aggregates that establish the economic environment of business. Examines the influence of consumer and investment demand, government finance, and monetary changes on the levels of national income, prices and employment. Considers the influence of current government policies on general business conditions.

**MBA 16511 Microeconomic Analysis**

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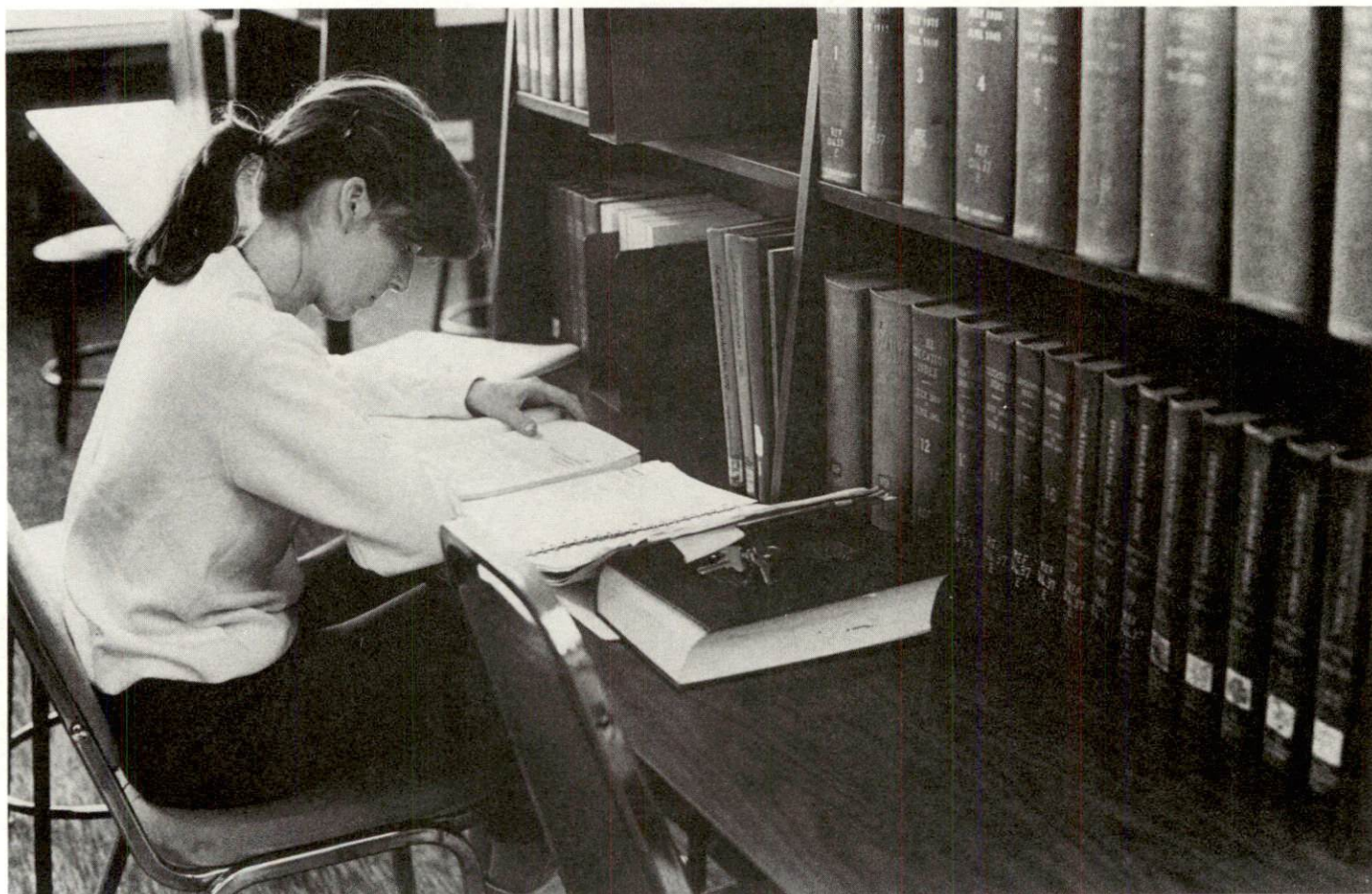
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# Index

Academic Facilities . . . . .	4	Mathematical/Computer Competency . . . . .	28	Non-Matriculated Students . . . . .	6
Academic Standing . . . . .	6	Objectives for Major in Software Engineering . . . . .	28	Payment of Tuition and Fees . . . . .	8
Accounting/Finance Concentration in . . . . .	12	Objectives for Major in Information Systems . . . . .	34	Personnel Management and Organizational Behavior, Concentration in . . . . .	12
Administration . . . . .	40	Course Requirements Business . . . . .	12	Psychology Admission Requirements . . . . .	24
Admission Requirements Business . . . . .	10	Computer Science . . . . .	28	Advisement . . . . .	24
Computer Science . . . . .	28	Major in Software Engineering . . . . .	28	Alumni . . . . .	26
Psychology . . . . .	24	Major in Information Systems . . . . .	35	Assistantships, Graduate . . . . .	9
Public Administration . . . . .	17	Psychology . . . . .	23	Course Descriptions . . . . .	25
Assistantships . . . . .	9	Public Administration . . . . .	18	Curriculum Summary . . . . .	23
Athletic Facilities . . . . .	5	Courses of Instruction Business . . . . .	13	Curriculum Requirements . . . . .	23
Audio Visual/Television Center . . . . .	4	Computer Science . . . . .	32	Degree Requirements . . . . .	24
Automobiles on Campus . . . . .	5	Psychology . . . . .	25	Externship . . . . .	24
Bookstore . . . . .	4	Public Administration . . . . .	19	Faculty . . . . .	27
Business Admission Requirements . . . . .	10	Degree Requirements Business . . . . .	10	Graduate Student Association . . . . .	24
Advisement . . . . .	11	Computer Science . . . . .	29	Objectives . . . . .	23
Computer Competence . . . . .	10	Psychology . . . . .	24	Probationary Status . . . . .	24
Coordinating Seminar . . . . .	15	Public Administration . . . . .	17	Thesis Option . . . . .	24
Course Descriptions . . . . .	13	Dining Facilities . . . . .	4	Public Administration Admission Requirements . . . . .	17
Course Requirements . . . . .	12	Faculty Computer Science . . . . .	39	Course Descriptions . . . . .	19
Degree Requirements . . . . .	10	Management Studies . . . . .	22	Degree Requirements . . . . .	17
Faculty Award . . . . .	11	Psychology . . . . .	27	GMAT . . . . .	17
Faculty, Division of Management Studies . . . . .	22	Fees . . . . .	8	Graduate Certificate Programs . . . . .	21
GMAT . . . . .	10	Financial Aid . . . . .	9	Objectives . . . . .	17
Graduate Certificate Programs . . . . .	16	Grading . . . . .	6	Re-Admission . . . . .	6
Mathematical Competence . . . . .	10	Graduate Certificate Programs Business Accounting/Finance . . . . .	16	Summer Session . . . . .	11
Objectives . . . . .	10	Human Resources Management . . . . .	16	Transfer Credit Business . . . . .	7
Sequence of Courses, Suggested . . . . .	11	Public Administration Criminal Justice Administration . . . . .	21	Computer Science . . . . .	7
Calendar . . . . .	3	Human Services Administration . . . . .	21	Psychology . . . . .	7
Campus Center . . . . .	4	Information Systems . . . . .	21	Public Administration . . . . .	7
Campus Directory . . . . .	44	Public Management . . . . .	21	Trustees, Board of . . . . .	41
Cancellations & Inclement Weather . . . . .	5	Graduate Management Admission Test . . . . .	17	Tuition . . . . .	8
Computer Facilities . . . . .	4	Historical Statement . . . . .	4	Tuition Refund . . . . .	8
Computer Science Admissions Requirements for Major in Software Engineering . . . . .	28	Library . . . . .	4	Veterans . . . . .	5
Admissions Requirements for Major in Information Systems . . . . .	34	Maintenance of Matriculation . . . . .	6		
Advisement . . . . .	28	Maps of Campus . . . . .	Inside Back Cover		
Advisory Board . . . . .	38	Memberships and Accreditation . . . . .	4		
Course Descriptions . . . . .	32				
Course Requirements . . . . .	30				
Curriculum . . . . .	28				
Degree Requirements . . . . .	29				
Facilities and Equipment . . . . .	28				
Faculty . . . . .	39				



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Program Office, MPA	Donnelly	280
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Veterans	Donnelly	250

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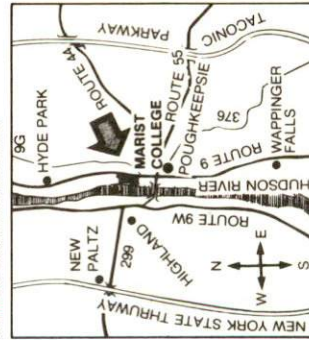
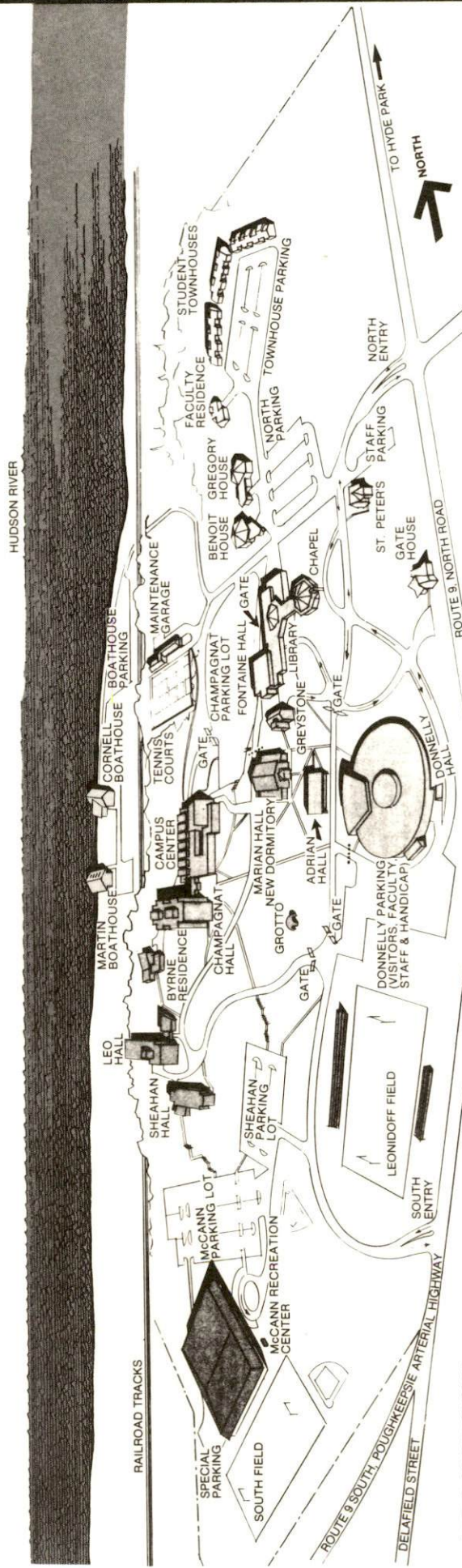
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