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Macalester College Bulletin

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INTRODUCTION

The Macalester community considered and the Board of Trustees approved in the Spring of 1971 the following Statement of Purpose and Belief:

"Macalester College is an academic and humane community which is dedicated to the intellectual and personal growth of its members and which strives to nurture each individual's capacities for compassion, understanding, judgment, knowledge, and action.

"The College has always structured its programs about several concepts of education in which it believes.

"We believe in the fundamental worth of a broad exposure to human intellectual and artistic achievement. We value as a pre-eminent liberating instrument of man the opportunity to ponder and enjoy the best that men have thought and said about man's nature, the world he inhabits, his place in it, and his relationship to his fellows.

"We believe in the advantages of students and faculty closely engaged in common pursuits. The faculty, students, and administration of Macalester College bring specialized competencies, individual expectations, and mutual responsibilities to a common commitment to intellectual endeavor. We believe that this can best be achieved through the close association of members of a heterogeneous group, tolerant of diversity but sharing a sense of community.

"We believe that teaching and learning are the central activities of this institution. This means that in the composite of teaching, service, and research generally expected of faculties in varying degrees, the primary responsibility of a faculty member at Macalester is to foster the intellectual growth of the students; and in the composite of all the learning experiences that contribute to the development of young people, the primary responsibility of a student at Macalester is to develop skills in the methods by which knowledge is acquired and critically evaluated.

"We believe that Macalester College has an obligation to be sensitive and responsive to significant changes in knowledge, technology and society. Moreover, the College is committed to preparing its students to discern the important issues of their time, to see them in some historical perspective, and to deal with them intelligently, humanely, and effectively."

Historical Sketch
Chartered in 1874, "to afford instruction in English literature, in Ancient and Modern Languages, in Mathematics, the Natural Sciences, and the Professions," Macalester College opened its doors to students in 1885. Named for a generous donor of Scottish ancestry, Charles Macalester, the College was the continuing successor of Baldwin Academy (1853), Saint Paul College, and Jesus College, all of which had been established by its founder and first president, Edward Duffield Neill, a distinguished minister and educator who had also served as secretary to President Lincoln. In 1880, the College was adopted by the Presbyterian Synod of Minnesota and, though independent of church control, continues among the colleges related to the United Presbyterian Church. From the beginning some women students were admitted to the College, and in 1893 the College became fully coeducational.

The first few decades of the life of the College were marked by the dedicated scholarship and the courageous endeavors of its leaders to keep the College solvent. Especially notable were the sacrificial efforts of Dr. James Wallace, President of the College (1894-1906) and teacher of Greek (1887-1927), who wrote with deep feeling that "the educational road from the old log college to present has been long and arduous . . . and many have been the heroic men that have fallen in that weary way."

The second quarter of the present century found the College both academically sound and sufficiently, though not bountifully, supported and committed, under the leadership of President Charles J. Turck, to the broadening of its base of community service. To the stream of ministers and other professional men and women who had graduated from the College were added, in enlarged numbers, teachers, nurses, scientists, civil servants and statesmen. The College was also distinguished by its significant program for foreign students and its lively interest in civic and national affairs.

In recent years the generous gifts of many friends, including the challenge gifts of Mr. and Mrs. DeWitt Wallace, have enabled the College to make marked advances. During this period, the College has been engaged in a concerted effort to lift its academic capacity to a maximal level. The Faculty has been substantially strengthened. The quality of the
An Urban Location
Macalester's 50-acre campus is located in a St. Paul residential area about midway between the center of downtown Minneapolis and St. Paul—the Twin Cities. This metropolitan area of 2,000,000, one of the largest industrial, scientific, educational and business centers between Chicago and the West Coast, provides Macalester students with an opportunity to share in the intellectual and cultural diversity of an urban center. Libraries, art galleries, concerts, lectures, governmental agencies, courts and businesses are all available as educational resources.

The resources of the community make possible the exploration through class projects and individual independent research opportunities a variety of political, economic and sociological problems and issues. Many phases of community life; from the religious to the cultural, can become part of a student’s total college educational experience.

Many students work as volunteers for Twin Cities social service agencies and learn firsthand the many problems facing modern society. In addition, they enrich their own lives by making a personal contribution in an area of great need.

Among the many cultural organizations that attract the support of Macalester students are the Minnesota Orchestra, the St. Paul Civic Opera Association and the Saint Paul Chamber Orchestra, for which tickets are available at reduced rates. The Guthrie Theatre offers exceptional repertory productions. Excellent plays from Broadway are presented in the Twin Cities in addition to numerous traditional and experimental local theater productions. A large number of distinguished musicians can be heard on the public concert stage during each musical season.

In addition, the major league baseball, football and hockey teams in the Twin Cities provide opportunities for sports spectators, and the climate is ideal for skiers and for other outdoor enthusiasts as well.

Tickets to most events are available on the Macalester Campus; free transportation can often be arranged through the services of the Mac Shuttle Bus.

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The Campus

Old Main for years housed the entire College. Its East wing was begun in 1884 and was dedicated, along with several homes built for faculty, September 16, 1885, when Macalester College formally opened with thirty-six students and seven faculty members. The East wing cost $30,000 and originally housed the dining room, kitchen, laundry and furnace in the basement; classrooms, a reception room and the chapel on the main floor; and 10 double dormitory rooms on the second and third floors. The rest of the structure was completed in 1888 and cost $60,000. Old Main has been remodeled and renovated as the physical plant has grown. Today it houses administrative offices, classrooms and the Departments of History, Philosophy, Political Science, Religion and Sociology and Anthropology.

Wallace Hall, dedicated in 1907, was named to honor James Wallace, fifth president of the College and a member of the faculty for 52 years. It is a residence hall for 124 students.

Shaw Athletic Field, which was dedicated at the opening of the 1909 school year, was named in honor of Prof. Thomas Shaw, a former president of the Board of Trustees, who was instrumental in developing the athletic program. Relocated in 1963 at the southeast corner of the campus, it includes a stadium built in 1964 with an interior remodeled in 1969 to house 23 students. It also has football and baseball fields and a Tartan, all-weather track.

Carnegie Science Hall, a gift of philanthropist Andrew Carnegie, was built in 1910 and now houses the Departments of Economics and Business, Education, Geography and the computer center.

The Gymnasium, dedicated in 1924, includes a swimming pool, indoor track, handball courts, kinesiological laboratories, locker rooms and offices.

The Stella Louise Wood Children's Center, 1652 Summit Avenue, is administered by the Education Department. This nursery and kindergarten laboratory school grew out of Miss Wood's Kindergarten and Primary Training School, founded by Stella Louise Wood in 1897, which became part of the College in 1949. The Center is housed in the old Macalester Presbyterian Church, built in 1890 and acquired by the College in 1925.

Kirk Hall, first occupied in 1926, is named in honor of the late E. B. Kirk, longtime trustee of the College. It is built on a quadrangle plan in nine sections, all opening onto a central court, and arranged in suites of study rooms with adjoining bedrooms. It houses 142 students.

The Weyerhaeuser Library, erected in 1942 and expanded in 1960, is named in memory of Rudolph M. Weyerhaeuser, a long time member of the Board of Trustees. This building is of American Colonial design and has a capacity of 135,000 volumes. The library provides seating for 500 students in the reading rooms, individual carrels, seminars, lounges and small group study rooms. The expansion of the library, completed in 1960, increased the space available for readers, books and work areas, and also provided the Margaret MacGregor Doty Lounge for informal meetings of college-related groups and a rare books room. Mr. Weyerhaeuser's grandson, W. John Driscoll, became Chairman of the Board of Trustees in 1971.

Bigelow Hall, completed in 1947, was named in memory of Charles H. Bigelow, chairman of the Board of Trustees from 1925 to 1936, and Frederic R. Bigelow, his brother who succeeded him as chairman from 1937 to 1946. The building houses 110 students.

Summit House is actually two homes located at the northeast corner of the campus and connected by an enclosed ambulatory. The combined accommodations provide residence for 36 students.

The Student Union, dedicated in 1952, houses student organization offices, grille, post office, information center and the Offices of Campus Programming Services and Career Planning and Placement. Its two-story Cochran Lounge is used for social and academic functions and the James Room is used by seminar groups.

Winton Health Service, which was first used in 1952, houses clinic services including offices, examination, physical therapy and X-ray rooms, a laboratory, wards and an isolation room. Named in memory of the late Mr. and Mrs. Charles J. Winton, it was the gift of their three children, Mrs. Carl W. Jones, Charles J. and David J. Winton.

The Field House, dedicated in 1956, is connected to the gymnasium and includes classrooms and offices in addition
to athletic facilities. Its floor is covered by 3M’s Tartan surfacing.

Dayton Hall, completed in 1957, houses 132 students and was named in honor of George D. Dayton, who was a Trustee of Macalester from 1894 until his death in 1938.

Turck Hall, a residence for 150 students, was opened in 1957 and named in honor of Charles J. Turck, president of the College from 1939 to 1958.

The International Center, at 1635 Summit Avenue, houses the offices of the International Program staff and has facilities for seminars, meetings and discussion groups.

Doty Hall, named to honor Margaret MacGregor Doty, dean of women emeritus, was opened in 1964 and houses 161 students.

Dupre Hall, a residence for 280 students completed in 1964, is named in honor of J. Huntley Dupre, professor of history 1946-64, and dean of the College 1951-61.

The Dining Commons, opened in 1964, accommodates 700 diners at a time in the main dining room on the second floor. The building also has facilities for special groups such as Tartan Inn, a luncheon club for faculty and staff.

The Janet Wallace Fine Arts Center, a gift of DeWitt and Lila Acheson Wallace, founders and co-chairmen of the Reader’s Digest, is named in honor of Mr. Wallace’s mother. The complex is made up of four separate facilities housing art, music, speech and dramatic arts, and the humanities, all linked by a central building containing the Lila Wallace Garden Court, faculty and student lounges and exhibition galleries. It was dedicated October 26, 1965.

Olin Hall of Science, made possible by a gift of the Olin Foundation, houses the Departments of Chemistry, Mathematics, and Physics and Astronomy. Dedicated May 17, 1965, its facilities include a science library, planetarium, and astronomical observatory.

The Weyerhaeuser Memorial Chapel, a hexagonal, glass-walled structure, was dedicated on May 16, 1969. It is a gift of members of the family of Frederick Weyerhaeuser, who was a Trustee of the College from 1957 until his death in 1961. His widow is a member of the Board of Trustees.

Harvey M. Rice Hall of Science, made possible by a grant from the Olin Foundation, is adjacent to Olin Hall of Science. Housing the Departments of Biology, Geology and Psychology, it was dedicated on November 22, 1970. It is named to honor Dr. Rice, president from 1958 to 1968.

The Hugh S. Alexander Alumni House, dedicated May 25, 1969, is named to honor Dr. Alexander, an 1899 graduate of Macalester who was chairman of the Geology Department for 42 years before his retirement in 1948. The 14-room building at 1685 Lincoln Avenue houses the alumni staff and facilities for a variety of activities and services.

77 Macalester Street, a building which the College acquired in 1969, houses Admissions, Financial Aid and other administrative offices.

Black House, Macalester’s Black Student Center, was opened in 1969 at 1626 Portland Avenue. It houses staff offices, a library and has facilities for social activities, meetings and discussion groups.

The Indian Center, which opened in the fall of 1971 at 176 Vernon Street, is used for meetings, educational and cultural programs and social activities.

Four residential houses are oriented toward foreign language programs at Macalester. They include French House, 190 Vernon Street; Russian House, 34 Cambridge Avenue; German House, Summit House East, and Spanish House, in Summit House West.

Hebrew House, opened in 1972 at 37 Macalester Street, is a Jewish religious and cultural center as well as a residence hall.

The Hispanic Center, 1662 Princeton Avenue, was opened in 1972 and has facilities for educational, cultural and social activities.

The Katharine Ordway Natural History Study Area comprises nearly 280 acres of land bordering the Mississippi River about a half-hour's drive southeast of the campus. Its ecological features include a lake, two forests, several ponds, springs, marshes and prairie land. The area also contains a laboratory-field station with research and lecture facilities and eating and sleeping accommodations. It was given by Katharine Ordway, sister of former Macalester Trustee Richard Ordway, in 1967.
Student Services
A college student lives in an environment unique in its resources for learning. The challenge facing each student is how best to utilize those resources for his/her own personal growth. A positive environment in which to meet this challenge is the primary concern of the Dean of Students' Offices. There are a variety of service and activity resources available to students to meet the needs of a diverse student population. Comprehensive counseling and advising services are provided, in addition to housing, health, athletic and social programs. A concerted effort is made to respond to change and enroll student input in focusing on current needs. Students themselves provide counseling and exchange at a drop-in center on campus, and a new addition this year will be a freshman activities program and center.

During the orientation period, students are first introduced to the College's facilities and resources. Upperclass student assistants work closely with new students individually and in small groups during the first week on campus. Students also meet with faculty advisers during this period to examine educational goals and plan a college program. While students are individually responsible for their academic courses, faculty advisers continue to provide counseling and assistance. A program of placement testing in the foreign languages and mathematics assists students in continued challenging study in those areas at the appropriate levels. Vocational interest and psychological assessment tests also are offered during the orientation period, and the results are available later in the year for use in working with professional counselors.

As a student progresses through the first semester and year, numerous questions arise about his/her educational plans, progress, and personal life. In addition to the faculty with whom he/she works in the classroom and the faculty adviser, professional staff are available in the following areas to assist each student in examining his/her educational, career, social and personal development.

The Office of the Coordinator of Counseling and Psychological Services offers specialized psychological counseling and testing and assistance to students in reading, writing and study skills. An Educational Skills Center is operated in conjunction with this office.

Professional counselors are available to assist students in focusing on issues of personal and educational growth and development in and out of the classroom.

The Office of the Coordinator of Academic Advising assists individual students with academic planning and counsels with students who experience academic difficulties.

The Office of the Director of the Freshman Year Program facilitates and implements special programs for incoming students. The special needs of freshmen are recognized and opportunities are made available so that the freshman's initial year at Macalester takes full advantage of the College's diverse program.

The Office of Career Planning and Placement provides vocational and career counseling for all students, freshmen through seniors. Extensive files, pamphlets, and information sheets on careers are maintained for all students' use. Students are urged to utilize every opportunity during their college years — in student activities, volunteer service experiences, part-time jobs on and off campus — and to learn through involvement and experience more about their interests and abilities. The office assists students in locating internships in business, hospitals, government agencies, private agencies, laboratories and professional offices on a part-time basis during the academic year and full time during the summer.

Special emphasis is given to job placement for seniors. This placement service includes counseling on job opportunities; scheduling interviews with representatives of industry and specialized agencies, such as the government and the Peace Corps; and maintaining reference credentials. The office also provides counseling on professional and graduate school planning in cooperation with faculty advisers and departmental chairmen. An extensive library of graduate catalogs and information on assistantships and fellowships are available.

The Office of Student Academic Records is responsible for class scheduling, maintaining academic records of all students, and collecting and disseminating certain institutional data, in addition to offering students a variety of services related to academic status and records. This office
administers all student registrations for fall, interim, spring, and summer terms. Changes of course registrations and grading options are initiated here. Students may request transcripts and statements certifying full-time attendance and/or good standing. The office also publishes in advance fall and spring term final examination schedules.

Involvement and Decision Making in the College Community

While the central concerns of students and faculty revolve around the educational content of the academic program of the College, all members of the campus community, by virtue of their individual and common goals in the same institution, are part of an on-going, interrelated and dynamic college community. The student community, the faculty, the staff, the administrative officials and the Board of Trustees are all part of a complex college society.

Planning for improvements and change, reaction to new problems, developing program and budgets all require decision-making machinery that is responsive to the needs and realities of a college society and the greater society of which the College is a part.

Macalester has striven to respond to this challenge by recognizing that students as well as faculty, administration and trustees have a serious stake and role in defining the directions and emphasis of the educational program and the quality of campus life.

Students serve as voting members on the following College committees that make policy recommendations to the faculty or college administration: Curriculum, Admissions and Financial Aid Advisory Committee, International Program Advisory Committee and Intercollegiate Athletics Advisory Committee.

Students also have a chance to voice their views directly at faculty meetings, where individual students are given the opportunity to speak and participate in discussions of the faculty. Students have opportunities to share their concerns and views with the Board of Trustees, both through frequent and regular meetings of student officers, administrative officials, faculty representatives and Board of Trustee representatives and as members of the various committees of the Board of Trustees. Three of the Board's regular meetings include open sessions at which students are encouraged to express their views.

One of the most significant achievements growing out of an intensive student-faculty cooperative study was the statement on "Student Rights, Freedoms and Responsibilities at Macalester College" approved by the student body and the faculty in May of 1969. This comprehensive document consists of three parts: basic student rights, basic student responsibilities, and responsibilities of membership in the Macalester College community and relationship between violation of campus policies and civil law. It sets forth the rights of all members of the college community, essentially extending the freedoms guaranteed by the Bill of Rights and the due process clause of the 14th Amendment to the college campus. The document places the responsibility for maintaining order and an atmosphere of mutual respect on each individual member of the community and describes judicial recourse through a student judicial system and a Student-Faculty Judicial Council. The document and its parts are subject to review and change by the enacting constituencies.

The Macalester College Student Government (MCSG)

The major organ of the Macalester student government is the Community Council. It provides official representation for the student body in the governing of the College and fulfills such needs as the coordination of student action and the allocation of funds. Meeting regularly throughout the year, the Council serves as a forum for the expression of student viewpoints.

Community Council selects members for various special and standing committees of the faculty, administration, and Board of Trustees. The Council itself studies and recommends in all aspects of campus life. The actual control exercised by the Council lies in the policy for financing student organizations, student government procedure and elections, and regulation of student publications.

Community Council is composed of a president and vice-president elected by the entire student body, eight representatives from off-campus residences; twelve representatives from the residence halls; and a representative
from both the faculty and the administration. Half of the representatives are elected in the spring and half in the fall.

In addition, student government is also composed of a Publications and Communications Board, a Program Board, a Residence Hall Policy Council, a judicial system, and various standing and ad hoc committees.

Student government is concerned with orienting Macalester students to their total community — not just academic, but the socio-political environment as well. On campus, this active role is basically channeled through the above mentioned committees, officers, and the Council. Off campus, Mac students are found "where the action already is" — closely working with such groups as the Minnesota Public Interest Research Group, and the Macalester-based volunteer Community Involvement Programs.

In keeping with its emphasis on individual student responsibility in community affairs, Community Council employs two students to work part-time as administrative assistants for the Council, for student members of committees and for the residence hall councils. The administrative assistants' principal responsibility is to maintain communication between Community Council and students.

Student Housing
A student's living arrangements and relationships are influential factors in his/her personal development. The residence halls serve as miniature communities, providing an opportunity for the student to receive some of his/her most effective education in human relations. The Residence Hall Directors and the resident assistants cooperate with the student residence hall councils in planning and encouraging an active intellectual and social life.

The College places primary responsibility for policies governing residence halls with the people who live in them. Each hall council establishes and enforces policies under authority delegated from the Residence Hall Policy Council, which the faculty has empowered to establish social policy in College housing. Under RHPC policy, College housing is coeducational. Some residence halls house men and women in alternate rooms, others on alternate floors.

Residence Halls
Macalester College accommodates approximately 60 percent of its students in campus residence halls. A number of dwellings adjacent to and owned by the College are also available for students. Among these are four language houses (French, German, Russian, and Spanish) and a Hebrew culture house.

Each student assigned to a residence hall is furnished with a single bed, pillow, mattress and pad, desk, desk chair, a wardrobe or closet and a chest of drawers. The occupant furnishes sheets, pillowcases, towels, blankets, alarm clocks and other personal necessities. Rooms are usually for double occupancy. A recreation room, lounges, vending machines, and storage areas are provided in each hall. Students living in residence halls must take their meals in the dining hall.

Campus Activities and Organizations
The student Program Board is responsible for initiating and coordinating out-of-class activities on campus. Its goal is a living-learning situation in which students can plan and attend the activities they feel are relevant to their educational and personal goals.

Program Board is responsible for many projects during the year. Recent activities have included concerts by Sleepy John Estes, Yank Rachel, Hammie Nixon, Bonnie Raitt, Townes Van Zandt, Ralph Stanley and the Clinch Mountain Boys, Byard Lancaster Quartet, Mighty Joe Young Blues Band, Larry Coryell Quintet; plus many folk singers; Don Luce; Sabana De Vedra, co-sponsored by Hispanos Liberados; Die Brucke, co-sponsored by the Macalester German Department; "Winnie the Pooh," in conjunction with the Macalester Theater Department for the Scottish Country Fair; and almost weekly dances, including square and country folk dances. Mac Cinema, with its foreign film series and popular series, has continued to play an important role in the out-of-class activity for Macalester students.

Program Board committees are open to the entire Macalester community. Faculty, administration and staff are encouraged to participate as well as students. The structure is deliberately flexible to accommodate new committees and as many people who wish to be involved for as long as they are interested.
Program Board is composed of an executive committee, a popular attractions committee, an educational affairs committee, and a Mac Cinema committee. The executive committee is composed of three Macalester students elected by the student body; one representative appointed by the administration; one representative appointed by the Community Council; one treasurer appointed by the executive committee; and the chairmen of all standing committees of Program Board.

Program Board works closely with the office of Campus Programming Services in the Student Union, which provides assistance and advice in planning activities, making necessary arrangements and informing the community.

The office works also with other organizations which plan campus activities. Black House and the Black Liberation Affairs Committee present a Black Culture Series and sponsor performing groups including Macalester’s Black Arts Midwest theater troupe and the Sounds of Blackness Choir. The Hispanic student group sponsors a Hispanic Week cultural festival and the Native American Coalition sponsors various cultural activities.

Other student organizations provide a variety of social, educational, cultural, recreational and volunteer activities.

They include:

Academic Clubs — Classics, French, Geology, German, Russian and Spanish Clubs; the Macalester Debate Society; in addition to academic honorary societies.

Athletics — Scots Club (lettermen); Cheerleaders; Rowing Club; Ski Club; Co-Rec (coed) and Women’s Recreation Association and an extensive intramurals program.

Citizenship and Community Action — Black Liberation Affairs Committee (BLAC), Hispanos Liberados, Native American Coalition (NAC), International Club, Student Project for Amity Among Nations (SPAN), Young Democrats, Macalester Republican Club, Young Socialists, Macalester Association of Commuting Students (MACS), and Minnesota Public Interest Research Group (MPIRG).

Communications and Publications — The Chanter (literary magazine); KMAC (campus radio station); Mac Weekly (newspaper); and the Spotlite (directory).

Music — Symphony Orchestra; Symphonic Band; Concert Choir; Festival Choir; Pipe Band and Highland Dancers.

Religious Organizations — Christian Science Group; Hebrew House; Inter-Varsity Christian Fellowship; Roman Catholic Student Group.

Speech and Theatre Arts — Drama Club; Macalester College Debate Union; Macalester Symposium; National Collegiate Players.

Community Involvement Programs
During 1972-73 more than 350 students were involved in Community Involvement Programs in association with the Dean of Students’ Office. Students serve as tutors for children and adults in schools, churches, homes, and community centers, and as aides in nearby day care centers. They befriend the elderly in nursing homes; lead youth groups; work with recovering mental patients at a halfway house in St. Paul, and with the physically handicapped. In addition, CIP places students who are awarded Federal work/study funds as part of their financial aid with nonprofit agencies throughout the metropolitan area. Students work in hospitals and health clinics, schools, day care centers; with Minnesota Public Interest Research Group (MPIRG); in state and city government offices in halfway houses and community centers; and more. Community Involvement Programs are a liaison between the College and Twin Cities community organizations which want and need students to round out their program offerings.

Academic Honorary Societies
PHI BETA KAPPA — the Macalester chapter, Epsilon of Minnesota, was established in 1968. This national honorary fraternity recognizes and encourages broad cultural interests and outstanding scholarship in the liberal arts and sciences. While the grade-point average is not the only criterion applied, a student nominated is ordinarily expected to have achieved a GPA of at least 3.50 in liberal arts courses, or one which places him/her in the upper twelve per cent of his class. Factors also taken into consideration are outstanding work in Honors and other evidence of intellectual achievement in liberal art studies. All candidates must have demonstrated a knowledge of mathematics and of a foreign language at least minimally appropriate for a liberal education.
Student academic records (including GPA) and recommendations from members of the faculty are screened by a nominating committee which in turn presents candidates to the full membership of the chapter. Additional nominations may be made by any member at chapter meetings. Election generally takes place early in the spring term. Normally students are elected in their senior year; a few exceptional juniors are also so honored.

National honorary societies in various disciplines with chapters at Macalester are: Alpha Kappa Delta (sociology); Delta Phi Alpha (German); Kappa Delta Pi (education); Omicron Delta Epsilon (economics); Phi Alpha Theta (history); Phi Epsilon Delta (dramatics); Phi Lambda Upsilon (chemistry); Pi Kappa Delta (speech); Pi Mu Epsilon (mathematics), and Pi Sigma Alpha (political science).

Information on eligibility criteria may be obtained from the respective academic departments. Any student who believes he/she might be eligible for election to any honor societies should request the Office of Student Academic Records to compute his/her GPA and provide it to the appropriate nominating committees.

Religious Life
Believing that the religious dimension is an essential part of education, the College offers a variety of opportunities for worship and coming to grips with religious questions. The Weyerhaeuser Memorial Chapel, dedicated in 1969, with its ecumenical sanctuary seating 375, its offices, conference room, library, kitchen and lounge, serves as a campus center for traditional, folk and experimental rock worship services, a meeting place for religious and concerned groups, a platform for dialogue and debate of issues, a stage for creative expression, and a retreat for necessary quiet moments. The Chaplain’s office seeks to enable and facilitate the encounter with, and development of, religious commitment through institutes, retreats, groups, and programs co-ordinated with the other departments and centers of the College, the neighborhood, city and regional churches, nearby colleges and religious movements, as well as national and international organizations.

International Center
The Macalester International Center is the campus focal
HEALTH SERVICE/LIBRARY SERVICES

point for the international programs of the Macalester
Community.

In cooperation with the language and social science
faculties, the Center staff has developed and administers
college study abroad programs in France and Austria. Close
contacts are maintained with the Associated Colleges of the
Midwest programs in Costa Rica, Japan, and India, and with
the Great Lakes Colleges Association program in Columbia.
In addition, the Office of Overseas Programs represents
SPAN (Student Project for Amity among Nations). An up-to-
date file is maintained on study, work, and travel
opportunities throughout the world and experienced
counseling is available during regular office hours.

The Foreign Student Advisor's Office recruits foreign
students, provides orientation, counseling, and a variety of
services to the foreign students on campus.

Located at the edge of the campus on Summit Avenue, the
Center provides an informal meeting place for American and
foreign students every evening. Color television, radio,
Stereo, daily newspapers, magazines, and coffee are a few of
the amenities providing a congenial atmosphere for
conversation. More formally, the on-campus programs
include conferences, seminars, discussions, social events,
language classes, and films. Members of the International
Student Organization offer lectures about their home
countries, festivals typical of national holidays, international
dinners, and sponsor Wednesday Night Discussion Group.

Macalester's unique "Ambassadors for Friendship," a good-
will travel program, sends foreign and American students in
rented station wagons through many states during the
summer months.

The Center also administers the ten college consortium for
the Interim term abroad known as UMAIE (Upper Midwest
Association for Intercultural Education) and is headquarters
for the World Press Institute, a program for foreign
journalists providing background seminars, wide ranging
travel, and interviews which focus on the United States
political and cultural scene.

Winton Health Service
The Winton Health Service is located at 1595 Grand Ave.

and offers a consulting physician during morning hours,
Monday through Friday. A registered nurse is on duty from
7:30 a.m. to 4:30 p.m. and 6:30 p.m. to 8:30 p.m., Monday
through Friday, and Saturday mornings.

Services available include consultation with the physician,
laboratory facilities, physiotherapy which includes whirlpool
diathermy, ultra sound machine, services of a part-time
physical therapist, infra-red lamp, ultraviolet lamp (the use
of ultra-violet lamps in the residence halls or rooming
houses is not permitted) and the X-ray machine for limited
use. All cases requiring major surgery and all serious illnesses
and accidents are cared for at local hospitals. The College
is not responsible for expenditures in such cases. A minimum
fee is charged for antibiotics, special drugs and X-rays.
All other medications are free.

A voluntary plan of accident insurance is available to
students. The policy provides reimbursement up to $2000
for each accident for any medical expenses originating from
an accident in which the student is injured. The plan protects
all participating students 24 hours a day for the school year,
September through June. Full protection is assured during
Interim term, vacations during the policy period, and
participation in all activities including athletics.

The premium is added to the student's account during the
Fall term only. Students entering in the Spring term must
make special arrangements if they wish accident insurance
coverage.

Hospital, Medical and Surgical Group Insurance is also
available at favorable group rates to all students. Premiums
for this coverage are payable in September for the 12-month
period beginning October 1.

Additional information will be furnished by the Business
Office.

Library Services
Library services of the College support and extend the
academic programs of its students, assist in meeting the
teaching and research needs of its faculty, and provide study
facilities, research materials and recreational reading for the
College community. Housed in the Weyerhaeuser Library
and Olin Science Library, the collection now numbers about
230,000 volumes. The library receives nearly 1,100 current
periodicals, journals and newspapers.
Copies of a "Guide to the Weyerhaeuser Library" are available at the library. This pamphlet gives detailed information to assist all library users.

The library services are so organized that all students have open access to the main book collection. In the periodicals room are found current journals and a small reserve book collection. A curriculum laboratory provides a wide variety of materials in the field of teacher education.

Monographs and journals of interest to the disciplines supported are in the Olin Science Library and are indexed in the Weyerhaeuser Library card catalog. Micro-readers and copying equipment are available to support student and faculty use of library facilities.

The reference room houses an extensive reference collection. United Nations, U. S., state and local government documents and their indices are located in this room, as well as pamphlet runs, annual reports, college catalogs and ephemeral publications. Numerous bibliographies to assist faculty and student researchers are also found in the reference area. They cover a wide variety of study areas, such as anthropology, the social sciences, international affairs, all forms of literature, and pure sciences and history.

Special collections of the library include the memorial library of Edward Duffield Neill, strong in early American and Minnesota history; the Arthur Billings Hunt books on American hymnology; the Gustavus Loewinger Shakespeare collection, the Stella Louise Wood collection of juvenile literature; the J. Harold Kittleson collection of Sinclair Lewis materials, and smaller collections of Willa Cather and Adlai Stevenson materials; the Cyrus B. Yandes collection on field sports; the Norman H. Strouse collection of Mosher imprints; the Charles W. Ferguson Word Library; the Frances Densmore Ethnological Library; the Tartan Room, housing college archival materials; a treasure room for rare books; a growing fine arts collection of Macalester undergraduate work, and collections of art prints, phonograph records and tapes. The library continues to rely on gifts and special purchases to strengthen subject collections in particular areas.

Trained librarians who staff the Weyerhaeuser Library and Olin Science Library organize the collections and provide expert assistance to students and faculty in bibliographic search, book selection, reference work and related areas of academic library service. Members of the staff conduct initial student visits to the library as a part of the freshman orientation program; appear in classes at the invitation of faculty members to discuss with students various methods of making effective use of the library's resources; and offer a formal course, "Introduction to Bibliography," for students who wish to develop competency in doing library research. The continuing goal of the library staff is to develop in Macalester students lifelong habits which will make the intelligent use of books an essential part of each individual's college experience.

All students are encouraged to make full and independent use of the library's resources, knowing that librarians are available to provide assistance when needed. Rules are kept to a minimum, and exceptions can be made when circumstances warrant. Such an operational pattern is based on the assumption that students are mature individuals who make honorable and responsible use of library materials provided by the College.

Because of its urban location, library services at Macalester are backed up by major research collections accessible from the campus. These include: the James Jerome Hill Reference Library, the St. Paul Public Library, the library and manuscript collections of the Minnesota Historical Society, the Minnesota State Law Library, the University of Minnesota Libraries, the Minneapolis Public Library, and special libraries in the metropolitan area. In addition, through College Libraries in Consortium (CLIC), Macalester students may borrow materials from six other metropolitan area private liberal arts colleges.

Audio-Visual Department (Library)
This department is dedicated to the expansion of learning possibilities for students and faculty through the use of non-book media. It attempts to inform members of the community about new developments in the audio-visual area and to assist the faculty in developing instructional uses of non-print materials. With facilities for photographic and graphic arts work, the Audio-Visual staff is available to produce instructional materials or to advise on where such services can be obtained. The department includes a video tape studio for closed-circuit television and a large film...
RESEARCH/DEGREE AND ACCREDITATION

library (holdings are included in the main Library catalogue). All kinds of audio-visual equipment are provided on free loan for classroom use, and services and equipment are also available at reasonable fees for other purposes.

Office of Research and Planning
This Office pursues three objectives: to assess the impact of Macalester College upon its students; to engage in research which will lead to a better understanding of the learning process among college students; and to assist in the collection, interpretation, and dissemination of data which may be used by various segments of the College in decision-making and planning. In working toward these objectives, the Office attempts to respond to the needs of faculty-student committees, academic departments, administrative offices, and individual members of the faculty and student body. Meeting these needs may take the form of short- or long-range projects requested by members of the college community, projects initiated by the Office staff, involvement in inter-college research, or individual consultation with faculty or students. Through these projects and the consultative work of its staff, the Office hopes to play a significant role in the continual improvement of Macalester's learning environment.

Macalester College Alumni Association
The Macalester College Alumni Association was incorporated in 1918 as a social or charitable corporation under the laws of Minnesota for the year 1913.

Communications to the Association should be sent to the Alumni Office. Checks for contributions should be made out to "Macalester College Alumni Fund."

Macalester holds the three basic types of memberships in the American Alumni Council: Type A (Alumni Administration), Type B (Educational Fund Raising), and Type C (Publications). The official publication of the Association is Macalester Today.

By action of the Board of Directors of the Alumni Association on May 2, 1968, the Hugh S. Alexander Alumni House was established. This facility — a 14-room building at 1685 Lincoln Avenue — houses the professional staff and provides accommodations for nearly 200 persons for such varied activities as seminars, meetings, conferences, receptions and open houses. The House was dedicated May 25, 1969.

Macalester Clubs (Clans), whose membership is made up of both graduates and former students, are active in some 50 centers in the United States and abroad.

The Board of Directors of the Alumni Association is the governing body and meets bi-monthly on the campus during the school year on the first Thursday of September, November, January, March and May. There is also an annual meeting. Directors, of whom there are 39, serve for a three-year term.

By action of the Board of Directors, an Advisory Council was set up in January, 1949. The Council membership includes the presidents or chairmen of every organized Macalester Club (Clan) in the United States and abroad with personnel changing as new officers are elected. The Council is designed to bring wide geographical representation of the alumni family to the Alumni Board. These members are ex-officio members of the Board, may participate in all discussions, but are not entitled to vote.

In 1971, the number of alumni elected to the College's Board of Trustees was doubled so that two alumni (one must have attended Macalester within the 15 preceding years) now are added annually for three-year, rotating terms.

Degrees and Accreditation
The Bachelor of Arts degree is awarded to students who fulfill the requirements for graduation. Macalester is fully accredited as a member by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education. Approved by the American Chemical Society and National Association of Schools of Music, Macalester is also a member of the Association of American Colleges, the Presbyterian College Union, the Minnesota Association of Colleges, the American Association of Colleges for Teacher Education and Associated Colleges of the Midwest. Macalester also holds a Phi Beta Kappa charter.
Admissions Policies
Any person may apply for admission to Macalester College. All applications will be equitably considered by the Admissions Office, and no applicant shall be barred from admission to the College on the basis of race, religious preference or national origin.

The quality of students and faculty who make up the College is of basic importance in determining the impact that the educational process will have on an individual. It is essential that the student have the opportunity to live and study with others who can contribute insights into people and events that his/her background may have failed to provide. The College therefore strives to insure that both students and faculty represent varied economic, social and cultural backgrounds.

General Information
Admission is based on the student's school record, including rank in class; personal commitment; performance on the College Entrance Examination Board (SAT) or the American College Testing Program (ACT) test; and on potential success at the College, as evaluated by advisers and others who know him/her well.

The composite of these items will provide a comprehensive overview of the student's abilities, achievements and, as now developed, plans for the future. Evidence of social and ethical concerns, leadership potential and extracurricular involvements — in addition to academic qualifications — are important considerations noted by the Admissions Committee.

Special consideration is given to students who apply for admission under the Expanded Educational Opportunities (EEO) Program for Black, Native American and Hispanic students whose educational and economic backgrounds are such that they might not otherwise consider applying to Macalester.

Since the number of qualified students exceeds the number of spaces in the class, the Admissions Committee will give preference to students whose credentials are most satisfactory and who appear to have the greatest probability of having a successful experience at Macalester.

Visitors to the Campus
Prospective students and others desiring guided campus tours should go to the Admissions Office, 77 Macalester Street. It is recommended that visitors notify the Office of their arrival time in advance. Appointments for tours and interviews will normally be made between the hours of 9 a.m. and 3:30 p.m. Administrative offices are open from 8 a.m. to 4:30 p.m., Monday through Friday. The Admissions Office is also open for appointments and tours until noon on Saturdays during that portion of the year when classes are in session. The Office of Admissions is closed on legal holidays, such as Christmas, New Year's, Memorial Day, Fourth of July, Good Friday and the following Saturday. Interviews and tours of the campus can be arranged in advance by appointment during holidays.

Entrance Requirements
In general, the admission of students to Macalester College is based upon the following factors:

1. Graduation from a secondary school with a scholastic record and test scores which indicate that the student is likely to succeed in college.

2. All candidates for admission as freshmen are required to take the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board, or the American College Testing Program (ACT). It the SAT is selected, it is strongly recommended that the student take the English Composition Test and two Achievement Tests of his/her choice. Those who plan to continue studying mathematics or languages, are urged to take these tests. Achievement Tests are not required for admission, but they must be taken for placement before entering Macalester.

The formal admissions application booklet may be obtained by writing to the Admissions Office, Macalester College, St. Paul, Minnesota 55105. Since the Macalester application must be filed in every instance, Minnesota applicants are advised not to file the "Minnesota College Admission Form" which is sponsored by the Association of Minnesota Colleges. The application should be accompanied by a non-refundable application or service fee of $15.
Information about these tests may be obtained from high school counselors or by writing directly to:

College Entrance Examination Board
Box 592
Princeton, NJ 08540

American College Testing Program
P.O. Box 168
Iowa City, IA 52240

These programs will supply you with a Bulletin of Information containing rules for filing applications and paying fees as well as a listing of examination centers.

Macalester prefers that these tests be taken no later than during January of the student’s senior year.

3. Recommendation as to personal commitment and intellectual ability by the student's adviser or college counselor.

4. Additional evidence regarding the student’s intellectual curiosity and academic potential, creativity and personal qualities. Such evidence would come from persons who know him/her outside of school: employers, records of extracurricular and religious activities, professors who know the student's capabilities, and other available sources. Macalester asks for two such personal recommendations.

Methods of Application

Macalester College offers several application options to students applying for admission. For freshmen, they include Regular Application, Early Decision, the Single Application Method (SAM) of the Associated Colleges of the Midwest (ACM), and Early Admission.

Procedures for applying are nearly the same for all options. However, they vary according to the date the applicant will receive the admissions decision. Further information on these options is given below.

REGULAR APPLICATION

Students applying under the Regular Application procedures have a choice of notification and reply dates. Although there are no absolute application deadlines, students who do not observe the dates given below may find their application not considered if the class has been filled or their financial aid application not considered because available funds have been allocated.

- If you wish notification on March 1, you should file all application materials including financial aid information by February 1 and will be expected to notify the Admissions Office as to your decision by April 1;
- If you wish notification on April 15, you should file all application material including financial aid information by March 15 and plan to make your decision by May 1;
- If credentials are not received by the preferred dates, the application will be considered as soon as possible after your file is complete. Your choice of dates will have no bearing on the admissions decision.

EARLY DECISION

The Admissions Committee will make an earlier evaluation of the credentials of a student who has completed all application procedures and who has decided that Macalester is his/her first-choice college.

Early Decision candidates should rank in the top fourth of their graduating class through the junior year and file application by December 15 of the senior year. Consideration will be given when all credentials are complete, including the Parents’ Confidential Statement and Macalester’s financial aid forms if the student seeks financial aid.

Students accepted under Early Decision are not required to withdraw applications at other schools, but are expected to send non-refundable deposits of $50 toward tuition and $50 toward residence hall charges, if applying for on-campus housing, within 15 days of the date of their letter of approval. If admission is not granted upon first review, the application will automatically be considered again and the student notified early in March.

SINGLE APPLICATION METHOD (SAM)

As a member of the Associated Colleges of the Midwest (ACM) Macalester offers applicants who wish to apply to more than one ACM school the opportunity to apply to three colleges through the Single Application Method (SAM) for a single application fee of $15.

The SAM method of application should be used only if the applicant is interested in two or more ACM colleges and is
willing to state his order of preference among them. SAM applicants should take the appropriate college entrance examination(s) no later than the December test dates. If the student is applying for aid the Parent's Confidential Statement must be filed by January 1. Files must be complete by February 1. Transfer students are not eligible to use this method. More detailed information concerning the plan is available through the Admission Office.

The Expanded Education Opportunities (EEO) Program for Black, Mexican-American, Native American and Puerto Rican Students

Initiated in the summer of 1969 after nearly a year of planning and preparation by the College faculty, administration and students, EEO is a program which provides up to total financial aid to students who could not otherwise afford to attend a private college such as Macalester. The program also provides academic support to participating students to insure that they function as fully contributing members of an intellectual community.

Applicants who seek admission to the College through EEO usually are non-white students whose socio-economic background may have deprived them of adequate high school preparation for college. They may have low scores on the standardized tests which are normally relied upon by admissions committees as one factor in evaluating potentially successful applicants.

For some EEO candidates the usual academic criteria are applicable and the major need is economic. For most, however, an indication of future academic and social potential rather than past performance is more appropriate. In this determination, recommendations by counselors and others who know the student and his capabilities are given primary consideration by Macalester's Admissions Committee.

Students interested in the EEO program should use the Regular Application Method. Any questions concerning the program or a student's eligibility should be directed to the Admissions Office.

Early Admission

A few students who have not yet been graduated from secondary school are admitted to Macalester at the end of their junior year. Among the major considerations for Early Admission are the judgments of the Admissions Committee and the secondary school principal about the student's maturity and qualifications to do distinguished work in college, and whether or not he/she will profit more by beginning college work than by continuing in secondary school. The regular admissions process is used by students seeking Early Admission.

Transfer Students

Transfer students should follow Regular Application procedures and file a Dean of Students' Recommendation from their most recent college, plus transcripts of all college work. Those who will have completed one year or less of college-level work must also file their high school transcripts, including college entrance test scores. Those who will have completed two years or more of college need not file high school information. It is normally expected that the transfer applicant will present a record of "C" average or better.

Credits from other institutions of higher learning including general colleges, teachers colleges, professional schools and polytechnic institutes will be evaluated according to the nature and quality of work presented as judged by the Office of Student Academic Records. Students who have attended non-accredited institutions must have their work validated by examination or by showing competency to carry advanced work successfully. Award of credit in such cases may be delayed for one or two terms awaiting such validation.

The procedures outlined above are general guidelines. Do not hesitate to inquire if special circumstances make an application a special case.

Admission by Examination

Students not presenting transcripts as provided for above must present a course of study equal to a four-year high school program. Such students may be required to take examinations in the courses presented in order to receive consideration for admission to the Freshman class.

College Entrance Examinations

All candidates for admission as freshmen are required to take the Scholastic Aptitude Test (SAT) of the College Entrance Examination Board, or the American College Testing Program (ACT). If the SAT is selected, it is strongly recommended that the student take the English Composition Test and two
Achievement Tests of his/her choice. Those who plan to continue studying mathematics or languages are urged to take these tests.

The Achievement Tests are not required for admission but are used for placement once the student is on campus. Please request that the results of these tests be sent to the Macalester Admissions Office.

Registration for these tests closes about one month before each test date. The Bulletin of Information and application forms for the examinations are available in principal or counselor's office.

Since most admissions decisions are made during February, it is strongly recommended that the required examinations be completed on or before the January test dates. The March test date is satisfactory for those who elect April 15 notification. Whatever your preference, an early start will give you more flexibility.

Advanced Placement Program
Students whose scores on the College Board Advanced Placement Examinations are rated 3 (creditable), 4 (honors), or 5 (high honors) will be considered for advanced placement and appropriate credit. Freshmen who wish to apply for advanced placement should arrange to have the test and results transmitted to the Admissions Director of the College. In some cases, it may be necessary for the student to have a conference with the appropriate department chairman during freshman orientation week. A maximum of six courses may be counted toward a bachelor of arts degree. A grade of 2 will receive no credit, but the department chairman may recommend some exemption. A grade of 1 will carry neither credit nor exemption. Awarding of credit may be deferred until the end of the academic year in order to give the student a chance to prove himself.

Notification and Reply Dates
All students who apply to Macalester have a choice of notification and reply dates.

A student applying to several colleges will want to choose a reply date that is common to all of them in order to consider all choices and make a decision without jeopardizing acceptance at another college. Macalester's notification and reply dates are listed below. Applications for both admission and financial aid are cancelled if the student has not replied by the reply deadline in order to award available spaces and funds to other students. However, applications may be reconsidered upon request.

Here is a recap of Macalester's notification and reply dates:

**EARLY DECISION**
File: by December 15.
Notification Deadline: as soon as file is complete.
Reply not later than: within 15 days of notification.

**REGULAR ADMISSION OPTIONS**
File: by (1) February 1, (2) March 1.
Notification Deadline: (1) March 1, (2) April 15.
Reply no later than: (1) April 1, (2) May 1.

**SAM**
File: by February 1.
File: PCS by January 1.
Notification Deadline:
From 1st Choice College — February 22.
From 1st Alternate College — March 8.
From 2nd Alternate College — March 15.
Reply no later than: April 1.

**Expenses and Deposits**
All charges assessed by the College are due and payable on or before August 15 (Fall Term) and January 15 (Spring Term). Fees are charged for late payment.

A non-refundable application fee of $15 must accompany the completed application. Students admitted pay a non-refundable tuition deposit of $50 to reserve places in the entering class. At registration, the deposit is applied to tuition charges.

Students assigned to College residence halls pay an additional non-refundable room deposit of $50 which is credited against room charges.

Parents of Macalester students who wish to pay education costs on a monthly installment basis may obtain information and application materials by writing to College Aid Plan, Inc., 1008 Elm St., Manchester NH 03101, or The Tuition Plan, Inc., 575 Madison Ave., New York NY 10022.
Information is also available at the Cashier's Office, Macalester College, St. Paul, MN 55105.

**Tuition, Fees and Room and Board 1973-74**

The tuition rate for fulltime students entering September 1973 is $2,400 per year. This fee includes all expenses except books and those fees listed below.

**Interim Term Tuition**

<table>
<thead>
<tr>
<th>Type of Tuition</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fulltime academic year student</td>
<td>No additional charge</td>
</tr>
<tr>
<td>Fulltime, Fall term, student graduating in December</td>
<td>No additional charge</td>
</tr>
<tr>
<td>Fulltime one term student</td>
<td>$120</td>
</tr>
<tr>
<td>Special or part-time student</td>
<td>$240</td>
</tr>
<tr>
<td>Studio or private music lessons</td>
<td>Negotiated</td>
</tr>
<tr>
<td>Interim make-up</td>
<td>Same as summer tuition</td>
</tr>
</tbody>
</table>

**Summer Session Tuition**

Per course, 1974: $140

**Other Fees**

- Special students, cost per semester course: $435
- Audit fee — per course: $25
- Music fees — private lessons:
  - Fulltime student — per term: $60
  - Special students — per term: $70
  - Class lessons in piano — per term: $20
- Fifth course: $50

Validation and registration after the scheduled period each term is subject to a fine of $5 per day for each late day.

**Room and Board Charge 1973-74**

- All rooms — per student per academic year: $510
- Board — per student per academic year: $510
- Room and board, Interim Term only: $124

**Residence Halls**

Students interested in living in college housing will be provided with a residence hall application at the time they receive notice of admission to the College. The completed room application card and $50 room deposit should be returned immediately to the Admissions Office. Housing is assigned to new students in order of receipt of the residence hall application and deposit.

**Refunds**

No tuition is refunded or credited after mid-term. For purposes of calculating the pro rata tuition refund during the first half of the term, two weeks are added to the date of cancellation notice and the refund or credit is calculated on the proportion that the unused portion bears to the total term. No tuition refunds or credits are granted without first receiving a notice of cancellation from the Dean of Students.

In cases of prolonged illness which requires the student's withdrawal from the College, refunds or credits are made in tuition and room and board from the end of a two-week period following the beginning of illness, according to the records of the College Health Service. No tuition is refunded or credited on courses completed.

Students leaving the College any time after registration without approval, or by reason of suspension or dismissal, will not be eligible for any refund.

**General Financial Aid Policies**

The cost of a college education is of major concern to the institution as well as to the student and his/her family. The primary responsibility for meeting the cost remains with the family and the student himself/herself. As cost often exceeds the resources of many students and their families, Macalester seeks to assist students who could not otherwise attend for financial reasons. However, the College should be expected to contribute only when the family and student have provided as much as they are able. No student interested in attending Macalester should hesitate to apply because of his/her financial situation.

The financial aid program assists those who are accepted for admission but who cannot meet college costs through their available resources. It is designed to give a reasonable amount of financial assistance to a large number of students. In addition to helping the individual student, financial aid also assists the College in achieving diversity in backgrounds among the student body — an important part of a Macalester education.

All students are required to seek and maintain scholarships offered by organizations in their communities, parents' employers, clubs and lodges, and other sources including state scholarship programs. All assistance must be reported
to the Financial Aid Office, even if it is received after the Macalester award is made. Assistance from all sources is considered in determining need and award. The College will not make awards in excess of a student’s need.

Generally, financial aid is not available to parttime students or for the Summer Term. All forms of financial assistance are assigned by the Financial Aid Office.

**College Scholarship Service Confidential Statements**

Macalester is a member of the College Scholarship Service (CSS). All financial aid is awarded on the basis of established financial need. Need is defined as the difference between the amount the student and his/her parents can reasonably be expected to provide for college expenses and the total cost of attending Macalester College. In order for the student to be considered for aid, his/her parent or guardian must submit a Parents’ Confidential Statement (PCS) to the College Scholarship Service (CSS). The contribution expected of the student and his/her family is determined by an evaluation of the PCS by both the CSS and by the Macalester Financial Aid Office. Awards are then made on the basis of demonstrated need.

The College Scholarship Service also provides a Student Financial Statement for students who are financially independent of their families. To qualify, the student must state his/her special circumstances in writing and show proof that he/she will not be claimed as a dependent for income tax purposes by anyone (except his/her spouse) for the calendar years in which aid is received and for the previous calendar year (i.e., a student seeking aid for 1974 may not be claimed as a dependent on a 1973 tax form).

In addition to either the Parent’s Confidential Statement or the Student Financial Statement, a Macalester Financial Aid Application and Work Study Application are required. A student’s financial need should not affect his/her admissibality. Financial aid is considered after the admissions decision is made. Students are notified of their aid awards at the time of their admissions notification.

Foreign students must state their financial situation in writing when applying for admission.

Financial assistance for subsequent years is not renewed automatically. A student who seeks aid must file a college application form and submit a renewal Parents’ Confidential Statement each year he/she is in attendance at the College. His/her financial assistance is subject to review annually and to adjustment if financial need or academic status has changed. It is also subject to adjustment in view of the total dollar need of all students and the funds available for financial aid.

By January 15, returning students must file the Macalester Financial Aid Application for the following Fall and submit the renewal Parents’ Confidential Statement so results are returned to the College by the College Scholarship Service before March 1. Students on leaves of absence who wish to apply for financial aid are responsible for applying in the same manner as returning students.

In unusual circumstances, the College will compute CSS forms at a fee of $10.

**Types of Assistance**

Financial Aid is generally a package of scholarship, loan, and work funds. The amount of each type varies according to the College’s funds and the student’s need. During 1972-73 about 55 percent of Macalester’s 2,000 students received financial assistance in scholarships, loans, and jobs. Nearly $1.3 million of such assistance was available. Aid awards ranged from $100 to the full cost of tuition, fees, room and board. More than 50 percent of the students received financial assistance. In addition, Macalester students received nearly $620,000 in funds from scholarship sources outside the College.

Students interested in the Macalester/Rush Nursing Program should write Macalester College for information on financial aid for that program.

**Scholarships and Grants**

**GENERAL SCHOLARSHIPS**

General Scholarships, provided from the College budget, are awarded to freshmen and transfer students as well as upperclassmen who establish financial need. Students need not apply for specific scholarships since they will automatically receive consideration for all funds for which they may be eligible.
FINANCIAL AID

ENDOWED SCHOLARSHIPS
A large number of endowed scholarships are available as a result of generous gifts from friends and alumni of the College creating endowed funds. The income from these funds is generally awarded to sophomores, juniors and seniors who have shown superior academic performance.

EXPANDED EDUCATIONAL OPPORTUNITIES (EEO) SCHOLARSHIPS
This is a scholarship/academic support program for minority students which provides up to total assistance for students with exceptional need. In 1973-74 Macalester awarded 40 scholarships to new students qualifying for the Expanded Educational Opportunities Program.

NATIONAL MERIT SCHOLARSHIPS
During the past six years, Macalester has averaged fifth among the nation’s colleges and universities in numbers of National Merit Scholars enrolled. Through the college-sponsored program 40 new students were awarded National Merit Scholarships in 1973-74.

NATIONAL ACHIEVEMENT SCHOLARSHIP PROGRAM
Macalester participates in this program for outstanding minority students. In 1973-74 four college-sponsored scholarships were awarded new students.

NATIONAL PRESBYTERIAN COLLEGE SCHOLARSHIPS
If you are a member of the United Presbyterian Church, please request information regarding this scholarship program. During 1973-74 Macalester awarded three college-sponsored National Presbyterian College Scholarships.

EDUCATIONAL OPPORTUNITY GRANTS
Established by Congress to help colleges enroll qualified students of exceptional financial need, this program is administered by Macalester.

MINNESOTA STATE SCHOLARSHIP PROGRAM
Residents of the State of Minnesota must apply for scholarship or grant-in-aid funds under this program. Applicants for financial aid should investigate the program’s requirements through their high school counselors’ office. Application must be made before graduation from high school.

BUSH SCHOLARSHIPS FOR JUNIOR COLLEGE TRANSFER STUDENTS
Minnesota junior college graduates are eligible for scholarships provided by funds from the Bush Foundation, St. Paul. Depending on a student’s financial need, the College will augment the maximum Bush grant of $1,000 with additional financial assistance. Purpose of the program is to encourage junior college graduates to continue their liberal arts education.

Loans
Long-term loans with low interest rates permit students to delay a portion of their educational expenses until after graduation, when repayment of the loans begins. Loans are awarded to students by the Financial Aid Office on the same basis as other financial assistance. A student should not assume he/she will qualify for a loan during the academic year if he/she has not received an aid award at the beginning of the year. The Office assigns loans from the fund(s) determined most suitable to the student’s individual financial need and in consideration of the total amount available in one account.

MACALESTER COLLEGE LOAN FUND
A limited amount of loans are made each year from the Macalester College Loan Fund. In general the fund is used to assist students who do not qualify by reason of residence or other circumstances for either of the loan plans listed below. Repayment of loans under this fund begins four months after leaving college or graduate school. The interest is currently three per cent per year but may vary.

NATIONAL DIRECT STUDENT LOAN FUND
Under this federal program administered through the college, a student may borrow up to $1,000 per academic year with an undergraduate borrowing limit of $5,000. The interest rate is three per cent per year and repayment of the loan begins nine months after leaving college or graduate school. The repayment period is 10 years, which is extended if the student serves in the Peace Corps or VISTA. Under certain circumstances a portion of the loan can be cancelled.

FEDERALLY INSURED STUDENT LOANS
Macalester College serves as an agency for the Federally Insured Student Loan program. Under this program a student may borrow up to $2,500 per year subject to a total undergraduate borrowing limit of $7,500. The interest rate is seven per cent per year, paid by the government while a student is enrolled at the College if his/her need qualifies. Certification of such need is required annually in order to qualify for this interest subsidy.
Work
CAMPUS EMPLOYMENT
All regular campus employment is administered through the Financial Aid Office so students who have financial need have first chance to qualify for jobs. Work opportunities in academic and administrative departments and the food service pay from $1.60 to $2.00 per hour and are awarded usually for a total of $400 per academic year.

THE FEDERAL WORK-STUDY PROGRAM
Macalester participates in the Federal Work Study program, partially subsidized by the federal government, through which funds are channeled to students who are in need of the earnings from such employment.

OFF-CAMPUS EMPLOYMENT
The Career Planning and Placement Office maintains a file of off-campus jobs available to Macalester students and will assist students in finding employment. Need is not a factor for off-campus employment.

Changes in Financial Aid Policies
While we have made every attempt to show the financial aid picture for 1974-75, the policies set forth above were written while the federal government contemplated changes in its programs for student financial assistance. Principally the effects of the Basic Opportunity Grant program are not certain. Macalester's financial aid will be changed to reflect any major alterations in federal program and/or funding. The College continually reviews its financial aid policy to best meet the needs of students in light of available funds, and actively seeks input from the community in formulation of this policy.

How to Apply for Financial Aid
Prospective students who are candidates for financial aid at Macalester College must take the following steps:

1. File a formal application for admission with the Admissions Office.

2. File the Macalester Application for Financial Aid and the Work-Study Application with the Admissions Office.

3. Submit the Parents' Confidential Statement to the appropriate College Scholarship Regional Office: Evanston, IL; Princeton, NJ; or Berkeley, CA by December 1 for SAM applications and January 15 for regular applications and request that a copy be sent to Macalester College. The Parents' Confidential Statement is normally available in the office of your school principal or counselor. If necessary, it may be obtained from the Macalester Admissions Office.

FOR MORE INFORMATION, CONTACT:
Director of Admissions & Financial Aid
77 Macalester Street
Macalester College
St. Paul, MN 55105
Telephone: (612) 647-6357
Honors Program
The purposes of the Departmental and Interdisciplinary Honors Program are: to afford exceptional students an opportunity to develop and express originality; to explore the ramifications of their discipline with a minimum of ancillary requirements; to teach them subject matter related to their major in a manner especially designed for them; and to encourage original scholarly and creative work.

A student interested in entering the Honors Program may apply as early as the middle of his sophomore year or as late as the second term of his junior year. Admission to the Honors Program is determined by the department in which the Honors Program work is to be conducted except in cases of interdepartmental work. Interdepartmental applications are acted upon by the Curriculum Committee. Normally an applicant must have earned at least a B average in his/her field of concentration, but this requirement is relaxed if other evidence is shown that the student can perform well in the Honors Program.

Each participating department may create Honors courses and programs for its students within the general pattern set by the faculty. Interdisciplinary programs are encouraged, and a program need not be a part of the student's major. The definition of an Honors course is unrestricted and determined by the department. Common formats are independent studies and seminars or regular courses completed in a special manner.

A student must take at least three Honors courses in the three successive terms before graduation. Participation in the Honors Program also involves completion of a thesis, artistic work, or other project as the culmination of the student's individualized Honors study. An examiner from outside the department or the college evaluates the quality of the student's Honors work, and the student may be recognized by the examiner as graduating with Honors or Special Honors.

Information on a specific department's Honors programs should be obtained from a member of the faculty in the department. Inquiries about Interdisciplinary Honors should be made to the Special Academic Programs office.

Overseas Studies Programs
Overseas studies programs for credit are administered by the International Center in coordination with the appropriate departments. Students enrolled in Macalester Study Abroad programs or faculty-approved programs administered by accredited institutions retain college financial aid. They are also eligible for supplemental grants from the International Study Scholarship (ISS) Fund. Interested students should contact the Director of the International Center for information and individual counseling. Programs offered for course credit are described below.

a. Approved Macalester Study Abroad Programs
The language departments have developed semester and year abroad programs for study in foreign languages, social sciences, and humanities. A student need not be a language major to apply, but must have studied the language of the program and have a genuine interest in the host country.

(1.) The French Department offers two possibilities for students with varying proficiencies in the French language: for students with one and a half to two years, a Fall semester at the Institute for American Universities (IAU) in Avignon; for students with two and a half years or more, Spring semester in Avignon attending advanced classes at the IAU and the Faculte des Lettres. Students selected for Spring 1973 also spend the Interim Term in Paris. Fall students join this group in Paris for two weeks.

(2.) The German Department begins its study abroad program in July with two months of intensive language training at the International Summer Course in German Language and Literature in Salzburg, Austria. From October until the end of January participants study at the University of Vienna. During the fall session the Macalester professor will teach a literature course. Students must have two years of college German or its equivalent. The two phases of the program are separable, but only those attending the October-January session are eligible for ISS grants.
SPECIAL PROGRAMS

(3.) The Spanish Department has an arrangement with the Great Lakes Colleges Association allowing our students to participate in their Bogota, Colombia program on a semester basis. The program emphasizes Spanish language and the social sciences focused on Colombia and Latin America.

Besides studying at the local sponsoring institution, the Centro de Estudios Universitarios Colombo-Americano, students may take courses at any one of three universities in Bogota. Applicants should consult with the Spanish Department about their eligibility.

(4.) The Russian Department has established a program in Yugoslavia at the University of Zagreb. Students with a minimum of two years of Russian language study apply for intensive study of Serbo-Croatian at Portland State in July. In August they go to Dalmatia, Yugoslavia for a second month of study. After a short break, they spend the year at the University of Zagreb. There the emphasis is on Russian studies. A trip to Russia will be arranged.

(5.) African Studies Program. Through direct contacts with African universities, the Expanded Educational Opportunities Office is able to send a number of highly selected students to Africa for a year of study. Application is primarily open to sophomores and juniors.

(6.) University of Stirling-Macalester Exchange. The College has an exchange program with the University of Stirling, Scotland. Macalester students pay tuition, room and board at Macalester while Stirling students pay theirs at home. Then the selected participants exchange places for a year of study in the other institution. Selection is by the departments; financial and travel arrangements are made by the International Center.

(7.) Associated Colleges of the Midwest. Macalester students are eligible to participate in overseas programs sponsored by the ACM. Tuition is paid to Macalester; other expenses are paid to ACM or persons providing services. Year-long interdisciplinary programs are offered in Japan and India (Nepal in 1972-73). Semester programs are offered in London, Florence, and Costa Rica.

b. SPAN (Student Project for Amity Among Nations)
Each year, SPAN selects three countries for intensive study. Students interested in SPAN must apply in the spring, a year in advance of their departure. Applications may be obtained at International Center. If his application is accepted, the student begins orientation and language training in the fall. A faculty adviser, who will accompany the students to their countries, meets with them and begins planning for a study project. In June, students go to their countries and spend eight weeks working on their project and four weeks traveling. Financial aid is available through the SPAN Foundation.

c. UMAIE (The Upper Midwest Association for Intercultural Education)
Macalester participates in and serves as the headquarters for UMAIE, a consortium of ten regional colleges which plans a foreign Interim Term curriculum each year. Other institutional members of the organization are Gustavus Adolphus College, Bethel College, Luther College, St. John's University, the College of St. Benedict, the College of St. Catherine, Carleton College, Hamline University and Augustana College. UMAIE will enroll more than 300 students in 17 courses abroad during January 1974 to study in 18 different countries in Europe, Latin America, Asia, Africa, and in Hawaii, the Virgin Islands and Canada.

Programs for International Understanding
The International Affairs Program of the International Center is a comprehensive effort to focus attention on world affairs at the College. The program includes a continuing series of meetings, discussions, seminars, films and lectures.

The SUMMER EXPERIENCE ABROAD program (SEA) offers summer opportunities for study in language institutes or specialized programs, for work in offices, factories, laboratories, art galleries, farms and volunteer camps in Europe. Students either work or take special training for at
least six weeks and then travel independently throughout Europe. Transportation is by chartered jet. Fall application at International Center.

The WORLD PRESS INSTITUTE brings 12 working journalists to the United States each year for a program of study, work and travel. The journalists are enrolled at Macalester as Resident Fellows in American Studies during the first semester and attend classes and special seminars to learn about the United States. During the second semester, they work with various media organizations, travel throughout the Western and Southern states, spend three weeks in Washington, D.C., do independent research and then return to Macalester for a year-end summation in May.

Macalester College also sponsors the AMBASSADORS FOR FRIENDSHIP program, which provides an opportunity for foreign and American students to tour the USA and to meet Americans in their homes and on their jobs — to learn of America firsthand. Selected foreign students travel for six weeks during the summer with American students from Macalester serving as drivers and tour coordinators.

Five-College Cross-Registration Program
According to an agreement among Augsburg College, Hamline University, the College of St. Catherine, the College of St. Thomas and Macalester, full-time, degree-seeking students may take one course per term at any one of the other four colleges tuition free, provided that the home institution has approved the course. In addition to accepting credit from the other colleges for courses in the liberal arts fields offered at Macalester, the College accepts courses in the following fields offered at one or more of the other colleges: Business Administration (with approval of the Economics and Business Department), Computer Science, Library Science, Quantitative Methods and Scandinavian Studies. The five colleges publish a joint class schedule. Macalester students may contact the Office of Student Academic Records for information on registration procedures.

Associated Colleges of the Midwest Program (ACM)
Macalester is a member of the Associated Colleges of the Midwest (ACM). Other participating colleges are: Beloit, Carleton, Coe, Colorado College, Cornell, Grinnell, Knox, Lawrence, Monmouth, Ripon and St. Olaf.

ACM sponsors a variety of off-campus programs for students from its member colleges, including an Argonne semester, a geology program in Colorado, a wilderness biology program in northern Minnesota, urban studies and urban teaching programs in Chicago, and programs abroad in London and Florence, Japan, India (Nepal in 1972-73), and Costa Rica.

Program in Liberal Arts and Nursing Education
In conjunction with the College of Nursing of Rush University, Chicago, Illinois, Macalester College offers students an imaginative new approach toward nursing. Under this cooperative program a Macalester/Rush student has the opportunity to study liberal arts for two years at Macalester and then to transfer to the Rush Medical Center in Chicago, Illinois, for two years of nursing education. The student is graduated with a Bachelor of Science (B.S.) degree from Rush University.

The first two years of the program, while the student is at Macalester College, emphasize an understanding of science in the generic sense as well as an exposure to a broad field of electives in the humanities. This study prepares the student with humanistic values as well as applied scientific training. It is this continuation of study that, in part, makes the Macalester/Rush student unique.

The second two years of study at the Rush Medical Center in Chicago provides the student an unusual experience in applying science to practice. There are no courses labeled medical nursing, psychiatric nursing, etc. — which are based on geographic areas of a hospital or an offshoot of physician specialties. Rather the program offers courses co-taught by basic scientists and nurse practitioners. The scientist provides the theory and content; the nurse shows its clinical application.

Applicants interested in the Macalester/Rush Program should request additional information from the Macalester College Admissions Office.
General Information About Calendar, Course Patterns and Student Load

The academic calendar is divided into a 14-week Fall Term (September-December), a four-week Interim Term (January) and a 14-week Spring Term (February-May). In addition, there is a two-term Summer Session in June and July.

Each course offered in the Macalester curriculum is equivalent to four semester credits, except courses in physical education activities, forensics and speech activities, and music ensemble and studio work. The credit for these latter courses is specified in the departmental sections of this catalog (under Curriculum).

A student usually enrolls in four courses during each of the Fall and Spring Terms and must register for one project during Interim Term. Summer students may take one course each four-week term. A student may register for a fifth course by petition to the Director of Student Academic Records; approval is normally granted students in good academic standing who have no courses uncompleted.

The Interim Term

Group and individual projects in the Interim Term are planned to give the student the opportunity for uninterrupted and intensive study of a subject which particularly draws his interest. They are intended to encourage the greatest possible exercise of creative imagination and independent inquiry. Interim courses may include research in libraries, studios, museums or laboratories; field trips as well as other off-campus projects for the study of political, economic and social institutions; various cultural expressions such as the theater. It is hoped that absence of the customary credit and grading provisions will encourage exploration of subjects a student might otherwise avoid and also encourage pursuit of intellectual inquiry for its own sake. Students are invited to suggest topics for group projects and in cooperation with faculty members to initiate and direct their own group projects or independent study. Through exchange arrangements with some thirty-five other colleges throughout the country, a Macalester student may take the Interim Term at another institution.

Note: If a student does not register for and successfully complete an Interim Term he must make it up in the summer. Make-up projects must be approved by the Interim Term Subcommittee. The fee is the same as for a summer course.

The Summer Session

Macalester offers a Summer Session of two four-week terms, in June and July. More than 100 courses taught by Macalester faculty are offered. Students are permitted to enroll in one course each term; in addition, those with strong academic records may register for an independent study course spread over the two terms. Macalester admits students from other colleges and advanced high school students to the Summer Session. Several institutes are also held on campus, including the Twin City Institute for Talented Youth, which enrolls over 800 high school students from St. Paul and Minneapolis.

Graduation Requirements

A. COURSES: 31 courses successfully completed are required for graduation.

B. INTERIM: 4 Interim Term projects successfully completed are required for graduation. (See note below.)

C. PATTERNS OF CONCENTRATION: To insure appropriate depth within an area or related areas of knowledge, students are required to elect among (1) a departmental major concentration, (2) a core concentration, (3) an established interdepartmental major concentration or (4) an individually-designed interdepartmental major concentration.

1. A departmental major concentration consists of not less than 7 nor more than 11 courses within one department (including prerequisites) and up to 7 supporting courses outside the department, the total not to exceed 16. Departments will determine those courses, and sequences of courses, which constitute the various patterns for the major in that field. A department may also recommend (but not require) additional electives from among its own offerings or in supporting fields as indicated by the student's educational and career objectives.

2. A core concentration in a given department consists of two sets of 6 courses, one set to be within the department, the other set outside of it. In general,
departments suggest one or more patterns of courses with particular reference to the sequence within the department. This pattern is designed to meet the needs of the individual student and will also have a rational relation to the pattern of the courses within the department. Each student's plan for a core concentration must be approved by the department concerned.

3. An **interdepartmental major concentration** established by the faculty shall consist of not less than 9 nor more than 16 courses, including supporting courses and prerequisites. The sponsoring departments will determine those courses, and sequences of courses, which constitute the various patterns for the major in that field. The departments may also recommend additional electives as indicated by the student's educational and career objectives.

4. An **individually-designed interdepartmental major concentration**, reflecting a disciplined area of inquiry crossing departmental lines, may be constructed by an individual student. It will have a minimum of 9 courses and not more than 16, including supporting courses. Such a program requires the support of three faculty members, one of whom must agree to serve as the student's major adviser. No later than the end of the first term of the junior year the student must present his completed proposal to the Curriculum Review Board for review and recommendation to the Curriculum Committee.

5. A student may obtain **two concentrations** by fulfilling the respective course requirements in those concentrations. Individual courses, where appropriate, may be counted toward both concentrations. Fields in which departmental and interdepartmental concentrations are offered may be found under Curriculum.

D. **GENERAL DISTRIBUTION REQUIREMENTS**: Each student must take at least one course in the academic division of the **Natural Sciences and Mathematics** — Biology, Chemistry, Geology, Mathematics, Physics and Astronomy; at least one course in the division of the **Social Sciences** — Economics and Business, Geography, History, Political Science, Psychology, Sociology and Anthropology; and at least two courses in the division of **Humanities and Fine Arts** — Art, Classics, English, French, German, Humanities, Music, Philosophy, Religion, Russian, Spanish, Speech and Dramatic Arts.

Courses may be counted both toward the general distribution requirements and concentration requirements. Of the 31 courses submitted for graduation, no more than 24 courses may be taken within any one of the following four areas: Social Sciences; Natural Sciences and Mathematics; Humanities; Fine Arts. Courses in the following programs and departments, regarded as "non-divisional", may be counted among those outside the division of concentration:

- Area Studies, Education, Freshman Seminars,
- Environmental Studies, Journalism, Linguistics, Physical Education and Kinesiology.

Note: Normally four Interim Terms are required for graduation. Students who, through an accelerated program, have met all requirements except the fourth Interim Term by the end of seven Fall/Spring Terms will be excused from the fourth Interim Term. Transfer students must meet a reduced Interim Term requirement depending upon the number of terms they are in residence at Macalester.

**Curricular Recommendations**

A. **LANGUAGE COMPETENCY**:

1. Foreign Languages: Students are encouraged to develop proficiency in a foreign language and familiarity with the literature and culture associated with that language. As one means of achieving this objective, the College endeavors to provide interested and qualified students with the opportunity to study in a foreign country.

2. English: Oral and written skills in English are an integral part of all educational work in the Macalester liberal arts program, and departments will continue to provide for development and evaluation of these skills with recommendations for remedial work where necessary.
B. INDIVIDUALIZED LEARNING:
1. Freshman Seminars: In keeping with its commitment to individualized learning in a liberal arts community, Macalester encourages as many freshmen as possible to participate in a freshman seminar or other similar small-group course which is designed to develop an awareness of the student's own educational needs, the art of self-instruction, awareness of the style of inquiry in a particular discipline, and the relations between fields of knowledge.
2. Independent Study: As many students as possible are encouraged to complete during their undergraduate years an exceptional piece of independent work of intellectual or artistic merit.

C. INTERNATIONAL PROGRAMS: Macalester encourages as many students as possible to participate during their undergraduate years in a study program abroad.

Regulations Concerning Concentrations
Students must file an approved plan for a pattern of concentration no later than the end of their fourth term. The plan is to be filed with the Office of Student Academic Records. Students in the teacher education program must also receive approval from the chairman of the Education Department.

Departments (and "coordinating committees" for non-departmental concentrations) may develop and implement diagnostic and evaluation processes and procedures for students in their programs of concentration which are in addition to processes or procedures occurring within courses.

When students declare an area of concentration, they will be given in writing a full description of the requirements for completing that concentration. This will include, in addition to course work, a description of any diagnostic and evaluation processes and procedures required as part of the concentration. Where such processes and procedures are included, copies of representative examinations or other instruments involved will be furnished in department offices and in the library for student use. When changes in programs of concentration occur, students already declared in that area will be permitted to complete the program under the description given them at the time of original declaration or under the new program, at their discretion.

On the basis of criteria known in advance by the students, departments (or coordinating committees) may acknowledge outstanding students by instructing the Director of Student Academic Records to record on their transcripts and in the commencement program that they graduate "with distinction" in the concentration. "With departmental honors" and "with special departmental honors" are similarly reported and recorded. (See Honors Program.)

Each department (and coordinating committee) will establish an advisory committee involving students with the responsibility to: a) review and recommend departmental policy in all areas of departmental activity; b) review the curriculum of the department and make appropriate recommendations; c) be involved in departmental procedures of evaluation of candidates for faculty positions by having some students meet candidates formally or informally in such a format as seems suitable to the department involved.

For graduation, all courses in the program of concentration must carry an overall average of "C" or better. A "D" grade may be included in the program of concentration provided that it is approved by the chairman of the sponsoring department. (See also Grading Systems, 3., below.)

Credit by Examination
Any student admitted to Macalester College may receive credit for a course listed in the catalog through the successful completion of an examination or other requirements arranged with an instructor and certified to the Dean of Students by the instructor and his department chairman with the stipulation that the credit may be granted only during a term in which the student is registered for other courses. The following requirements also pertain to seeking credit by examination.

A student will request no instruction from a faculty member in obtaining credit by examination.

A student is expected to demonstrate a competence comparable to, but not necessarily identical with, that attained by students receiving credit for the course in the regular manner.
INSTRUCTIONAL POLICIES

A student is limited to two course credits by examination in independent study courses (courses numbered 45, 46, 95, or 96) and each such course must be approved by the Curriculum Committee.

The fee for attempting credit by examination is $25 per course.

Note: Departments may designate those lower level courses for which credit may not be received if comparable courses have been taken at the secondary level.

Residence Requirement
A bachelor's degree candidate will normally have been in attendance at Macalester College for the full four years. However, students may transfer a maximum of 16 courses or the equivalent of the first two years of college work. The number of years spent in residence is not to be less than two. The senior year must be spent in residence.

Teacher Certification Requirements
A student who works toward a teaching certificate takes the courses required by the State of Minnesota for teacher certification in addition to those required for his concentration. Students interested in teaching should begin to set up their study programs early and should consult with the Education Department.

Student teaching is one of the requirements for certification to teach in elementary or secondary schools. Two student teaching experiences are required, and may be taken during Spring, Fall, Interim, or Summer Term.

Grading Systems
1. GRADING OPTIONS — REGULAR TERMS
   For the Fall, Spring, and Summer terms the grading options are:
   A, B, C, D, NC (no credit); or
   S (satisfactory), D, NC

2. WRITTEN EVALUATIONS
   Instructors may provide written evaluations of performance for those students who request them. Instructors are encouraged to provide written evaluations in as many courses as possible. Courses in which the written evaluation is available will be indicated on the class registration schedule. A student who opts for a written evaluation may take the course on either the A-B-C-D-NC or S-D-NC option. A student who chooses a written evaluation is encouraged to file with the instructor a statement of his objectives on an appropriate form, to aid the instructor in the evaluation.

3. LIMITATIONS ON S-D-NC OPTIONS
   Each student is limited to one course taken under the S-D-NC option without written evaluation, in the Fall and Spring terms. Courses may be taken under this option in a Summer term, but each course so taken reduces by one the number of such options available to the student in the Fall or Spring terms. There is no limitation on the number of courses a student may take under the S-D-NC option with written evaluation.

   Courses taken on an S-D-NC basis should not be taken as part of a concentration, either major or core, except with specific permission of the department chairman. Ordinarily, if a student decides to change his concentration to a new area and already has taken courses in that area on an S-D-NC basis, the courses will be allowed by the department, but written permission must be given by the department chairman.

4. TIME OF SELECTION OF GRADING OPTIONS
   The choice of grading systems is made by the student from the available options during the fourth week of regular term courses and during the first three days of Summer term courses.

5. REPORTING OF GRADES
   Instructors report grades to the Office of Student Academic Records in keeping with the options selected by the students. Written evaluations will be reported on standardized forms provided along with the traditional grade report form. Copies of written evaluations will be provided to the student, student's adviser, and the instructor.

6. RECORDING OF GRADES
   For each student there is only one transcript, and all grades are recorded on it. A copy of the written evaluations for each student will be filed as a supplement to the official transcript. Students choose whether or not to include the written evaluations with
transcripts they request, with the understanding that either all or none of the written evaluations will accompany the transcript.

7. **GRADE-POINT AVERAGES**
At the request of a student, the Office of Student Academic Records will compute his grade-point average and send a report of it, including the number of courses on which it was based, along with transcripts requested by the student. The average will be computed on the basis:

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Courses taken under the S-D-NC option will not figure in the GPA computation. Where there is no request by a student, no GPA will be computed. The College will make no internal use of GPA's. There will be no computation of class-rank.

8. **INCOMPLETES**
Students are expected to complete the work in each course on schedule. Under unusual circumstances, an instructor may allow a student an additional specified time period, not to extend more than eight weeks after the beginning of the next regular term, for completion of the course. In any such case the instructor will submit “I” as the grade. The instructor will also file with his department chairman a specification of the work to be completed by the student, and of the period allotted for so doing. If the course is completed satisfactorily within the specified time period, the instructor will report the appropriate grade to the Office of Student Academic Records. After the eighth week of the next regular term any I's will be converted to NC.

9. **INTERIM TERM GRADES**
The grades in Interim terms will be S and NC. Written evaluations may be provided by the instructor upon request of the student. Incompletes must be completed by the end of the third week of the Spring term.

10. **ACTIVITY COURSE GRADES**
S and NC will be the only grades in any of the fractional-course-credit courses such as Physical Education Activity courses, Choir, etc.

**Probation and Dismissal**
A student will be placed on probation or may be considered for dismissal if he has not completed, with grades of S, A, B, or C, a minimum number of courses by the end of a given number of four-month terms, as follows:

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<tr>
<th>Terms</th>
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Part-time students will be governed by progress requirements proportionate to those outlined above.

Please note:
1) Under this system, incomplete work can be as detrimental to a student as work unsatisfactorily completed. Courses in which completion is postponed may jeopardize a student's scholastic standing.
2) Any student who is on probation and fails to make satisfactory progress toward good academic standing in the subsequent term, or who fails to complete satisfactorily an Interim Term, shall be subject to dismissal.
3) The Office of Student Academic Records will record dismissal action on the student's transcript.

Under unusual circumstances a student may petition for waiver of the probation regulations and policies.

Probation is intended as a warning to a student that he will, if he does not improve academically, be subject to dismissal or required to take a leave of absence. Every effort is made through the Counseling Office, special academic support counselors and services, and through faculty advisers, to provide counseling to students on academic probation.

**Re-Admission Following Dismissal**
A student may apply for re-admission at any time, by contacting the office of Student Academic Records. Generally, he is expected to remain out of school at least one four-month term before being considered for re-admission; re-admission immediately after being dismissed is not
ordinarily possible. A student may appeal a dismissal decision by applying for immediate re-admission.

Registration and Validation
Students are required to register and/or validate (confirm previous registration) at definite times announced in advance by the Office of Student Academic Records. The cost of registering and/or validating late is $5 per day. Students may not enroll after the first two weeks (in Interim and Summer terms, first three days) following the first day of classes in each term except by special petition and may be asked to carry proportionately restricted loads.

Auditing Courses
A regularly enrolled full-time student in good standing will be charged a fee of $25 for each course audited in a Fall or Spring term, except that in the case in which the student is taking only three courses for credit, no fee for one audit course will be assessed. To audit a course, an eligible student must register in the Office of Student Academic Records with the approval of the instructor and his adviser. No entry will be made on the student's transcript for auditing a course. Inquiries about auditing in the Interim or Summer Terms should be directed to the Special Academic Programs Office.

Adding Courses
A student may add a course during the first three weeks of the term by obtaining the signature of his adviser and the instructor of the course on an add card available in the Student Academic Records Office. A student may register for credit in a fifth course by petition; approval is usually granted for students in good academic standing who have no courses uncompleted.

Withdrawing from Courses
A student may withdraw from a course, after consultation with (but not necessarily approval of) both his adviser and the instructor of the course. Forms for dropping courses are available in the Office of Student Academic Records.

If a student withdraws from any course within the first three weeks of classes (or the first three days in the Summer and Interim terms), no notation will appear on the permanent record. If a student withdraws between the end of the third and eighth weeks of classes (second week in the Summer and Interim terms), W (withdrawn) will be recorded in the grade column. If a student remains registered after the eighth week of classes (second week in the Summer and Interim terms), he must receive one of the grades listed under Grading Systems, Page 32. Petitions to withdraw after the eighth week of classes (second week in the Summer and Interim terms), will be approved only in extraordinary cases such as procedural errors or illness which precludes continuing the course(s). This policy applies whether a student withdraws from one, several, or all courses.

Withdrawal from the College
A student may request complete withdrawal from the College at any point in a term by consulting with the Counseling Office. In order to obtain a tuition refund, he should follow the policy described in the section on Expenses.

Leaves of Absence
A leave of absence may be granted for a specified period of time to any student who applies to leave Macalester for personal reasons or for the purpose of attending another institution. Questions about a leave of absence should be addressed to the Counseling and Psychological Services Office. Certain specific regulations concerning the leave of absence are noted below:

a. Any student who leaves Macalester for reasons of entering the military service shall be granted a leave of absence.
b. If a leave of absence is denied, the student may appeal the decision to the Student-Faculty Judicial Council.
c. A student on probation may be required, in lieu of dismissal, to take a leave of absence. (See Probation and Dismissal on Page 33.)
d. Returning students should note the following: Applications for financial aid and housing in the term following a leave of absence, and tuition and room deposits, must be made by deadlines required of all students in residence. Students on leave are responsible for keeping
the Office of Student Academic Records apprised of their mailing addresses.
f. If the student does not return within the specified period of time, he must apply for an extension of his leave prior to its termination. If he does not apply for an extension, he must apply for re-admission at the time he desires to return to the College.

Re-Admission to the College
Any student not on a leave of absence who was not enrolled, or who did not pre-register in the term preceding that term when he wishes to resume his studies, is required to make application for re-admission. Application forms should be requested of and returned to the Office of Student Academic Records at least one month prior to the date of intended registration.

Final Examinations
The following policies will be observed by students and faculty with regard to final examinations:

The Director of Student Academic Records will announce in advance a final examination schedule for the convenience of the College. In this schedule, each course will be reserved a designated two-hour period and a place to be used for a final examination, if needed, as the instructor deems necessary for the proper conduct of the course.

Students may negotiate exemptions or changes in schedule with instructors whenever circumstances warrant such considerations, as in the case of schedule conflict, three or more examinations in a single day or special senior commitments.

Proctoring, special materials, time allotment and other matters pertaining to the actual circumstances of the examination are entirely the responsibility of the instructor.

Students and Faculty are reminded of the policy on Student Violation of Ethical Practices in the statement on "Student Rights, Freedoms and Responsibilities at Macalester College."

Classification of Students
Normal progress toward graduation is as follows:

Sophomore standing is granted upon the completion of seven courses. Junior standing is granted upon the completion of 15 courses. Senior standing is granted upon the completion of 23 courses. Special student classification is assigned to non-degree candidates.

Minimum Size of Classes
The College does not hold itself bound for instruction in any elective course for which fewer than five students have registered. Such classes may, however, be organized at the option of the department chairman with approval by the President.

Petitions Related to Instructional Regulations and Requirements
A student may seek exception from an academic regulation or requirement by written petition. Petition forms must be obtained from and returned to the Dean of Students' Office. Action on such petitions is taken by the Faculty Curriculum Committee or the academic administrator designated by that committee.
Macalester College offers departmental and interdepartmental programs leading to the Bachelor of Arts degree with major or core concentrations (except as noted) in the following fields:

Art
Biology
Chemistry
Chinese and Japanese Languages and Culture (major only)
Classics
Economics and Business
English
Environmental Studies (major only)
French
Geography
Geology
General Science (core only; see Education Department)
German
History
Humanities (core only)
International Studies (major in one of the social sciences)

Latin American Studies (major in Spanish or Geography)
Linguistics (major only)
Mathematics
Music
Philosophy
Physics and Astronomy
Political Science
Psychology
Religion
Russian
Social Science (see Education Department)
Sociology and Anthropology
Spanish
Speech and Dramatic Arts (See also Individually-designed Interdepartmental Major.)

The College offers courses, but not degree programs, in the Departments of Education, Journalism, and Physical Education and Kinesiology. Programs leading to certification for kindergarten, elementary and secondary teaching are offered by the Education Department in cooperation with other departments of the College.

Independent Study
One aspect of the individualized learning fostered by Macalester's curriculum is the opportunity for independent study. This program makes it possible for the student to complete a term-long project in a one-to-one relationship with a faculty member. A student may initiate an independent study to pursue in depth certain aspects of a subject previously studied or to investigate an area of academic interest not covered in a regular course. Any department may offer independent study courses. They are numbered 45 and 46 for freshmen and sophomores and 95 and 96 for juniors and seniors. Approval of a supervising instructor is required. A student interested in independent study should consult with the appropriate department and instructor to develop the content of study before registering.

Topics Courses
Many departments offer topic courses. These courses are designed to accommodate interest of students and faculty in current issues in the subject area or to offer an experimental course which later may become part of the regular curriculum. They are numbered 50 and are announced in the class schedule at registration. The Office of Student Academic Records publishes descriptions of topics courses which accompany the class schedule. Topics courses listed by title in this catalog refer to the 1973-74 curriculum.

Fall and Spring Term Courses
The following course listings are for the Fall and Spring terms. Separate course listings are issued in the Interim and Summer term catalogs.

INTERDISCIPLINARY STUDIES

 AREA STUDIES
Mr. Armajani (Coordinator), Mr. Berry, Mr. Fisher, Mrs. Johnson, Mr. Swain, Mr. Trask
The Area Studies Program provides students, faculty members and administrators of the four participating colleges (Hamline, Macalester, St. Catherine's and St. Thomas) with an opportunity to study together, work together and plan together, to the end that levels of scholarship may be raised, interest in serious study may be stimulated, and closer bonds of friendship and understanding may be developed. The program seeks to offer to students in these four liberal arts colleges in St. Paul a series of integrated studies given cooperatively by professors in the four colleges, as a unique contribution to American undergraduate education.
In the new format these are semester courses taught by a team of three professors who are experts on the area. They are designed for the freshman and sophomore levels and deal with the history, literature and religion as well as the political, social and economic institutions of the area in question. There will be special programs to expose the students to subjects not within the competency of the teaching team.
CHINESE AND JAPANESE LANGUAGES AND CULTURES
Mr. Fisher (Coordinator)
The goal of this intercollege, interdepartmental major concentration is to enable students to acquire a broad knowledge of Japan and China as major cultures and to gain substantial command of the language of one or both countries. A comprehensive cultural analysis of these parts of East Asia will include courses in art, economics, geography, government, history, literature, philosophy, religion, and sociology. Such analysis will include both historical and comparative approaches. Comparative studies will include not only contrasts and similarities between China and Japan, but cross-cultural comparisons of East Asian civilization with Western or European civilization.

Major Concentration
This concentration will consist of twelve courses distributed in the following way:

1. Language.
   Four courses in Chinese or Japanese (or two in each). (These courses will be offered among the campuses of Macalester College, Hamline University, Augsburg College, the College of St. Catherine, and the College of St. Thomas.)

2. Cultural specialization.
   Three courses in detailed subjects pertinent to one or both of the countries, to be drawn from among the following sets of alternatives or equivalent courses approved by the Coordinating Committee for the program:
   a. History 465 (Augsburg): Modern Japan
   b. History 54 (Macalester): Modern Japan
   c. History 464 (Augsburg): Modern China
   d. History 53 (Macalester): Modern China
   e. History 355 (St. Catherine): Modern China

3. Comparative emphases.
   Three courses that compare developments in China with those in Japan (or with another culture), either historically or contemporaneously, to be drawn from among the following sets of alternatives or equivalent courses approved by the Coordinating Committee for the program:
   a. English 270 (St. Catherine): Oriental Literature
   b. History 495 (Augsburg): Chinese in American History
   c. History 23 (Hamline): Introduction to Asian Civilization I
   d. History 24 (Hamline): Introduction to Asian Civilization II
   e. History 14 (Macalester): Introduction to East Asia (Modern)
   f. History 23 (Hamline): Studies in Non-Western History: Chinese and Japanese Intellectual History
   g. History 93 (Macalester): Studies in Non-Western History: Chinese and Japanese Intellectual History
   h. Philosophy 37 (Macalester): Chinese and Japanese Philosophies
   i. Sociology 62 (Macalester): Social Change: East Asia
   j. Geography 50 (Macalester): Geography of East and South East Asia
   k. Political Science 44 (Macalester): Comparative Politics (Asia)
4. Additional courses.
Two courses from any of the three groups above.

Chinese
11, 12. Elementary Chinese
Introduction to Mandarin Chinese. Offered at Macalester or one of the cooperating colleges each year.
31, 32. Intermediate Chinese
Continuation of Chinese 11, 12. Offered at Macalester or one of the cooperating colleges in 1974-75.

Japanese
11, 12. Elementary Japanese
Introduction to Japanese. Offered at Macalester or one of the cooperating colleges each year.
31, 32. Intermediate Japanese
Continuation of Japanese 11, 12. Offered at Macalester or one of the cooperating colleges in 1974-75.

ENVIRONMENTAL STUDIES
Mr. Southwick (Coordinator)
The goal of the interdepartmental major concentration in Environmental Studies is to provide students with the background they need for a broad but basic understanding of environmental processes and issues. The major includes a foundation in the physical and life sciences and study of the ways in which individuals and societies react to and influence their environment. In conjunction with judiciously chosen supporting courses, the broadly-based program below will provide students with an adequate basis for further work in the environmental field or in more specialized disciplinary study.

Major Concentration
The interdepartmental major in Environmental Studies consists of 14 courses. Six are in one of seven academic departments, six are selected from a specified interdepartmental list, and two are specific courses in Environmental Studies per se, as follows:

1. Primary courses
Six courses in one of the following departments: Biology, Chemistry, Economics, Geography, Geology, Physics-Astronomy, or Sociology-Anthropology. The particular six courses will be approved by the department as a set which form a logical environment-oriented program.

2. Supportive courses
Six courses, not in the primary department above, from among the following:
1. Biology 11, Principles
2. Geology 11, Physical or Geology 14, Earth Science
3. Geography 11, Human
4. Sociology 20, Introduction or Anthropology 21, Cultural
5. Biology 41, Ecology
6. Geology 22, Water Resources or Geology 61, Geomorphology
7. Geography 26, Physical or Geography 55, Environmental Management
8. Sociology 66, Urban or Anthropology 60, Urban
9. Physics 25, Modern or Chemistry 11, General or Chemistry 10, Concepts

3. Environmental Studies courses
Two courses: (a) Introduction to Environmental Studies, preferably to be taken no later than the second semester of the sophomore year; and (b) Senior Seminar on Environmental Problems, to be taken in the spring semester of the senior year.

Recommended Courses
Because of the interdisciplinary nature of Environmental Studies and the College limit on the number of courses that can be required in any concentration plan, no prescribed curriculum can possibly include all that is useful or even essential for a student of the environment. Students who intend to pursue graduate work in any of the core disciplines in Environmental Studies are well advised to select supplementary courses that meet graduate school expectations.
A. Several supporting courses are strongly recommended for students pursuing the physical and biological sciences:
1. Mathematics 14, 21, and 22
2. Chemistry 11, 12, and 23
3. Physics 21 and 22
4. Other mathematics and science courses selected by the student in consultation with his or her adviser.

B. Several supporting courses are strongly recommended for students pursuing the social sciences:
1. Psychology courses (selected individually with advice of Psychology Department)
2. Statistics (Mathematics 14, Economics 24, or Sociology and Anthropology 25)
3. Economics 51 and 58
4. Political Science 37, 40, and 83
5. Other social science courses selected by the student in consultation with his or her adviser.

C. Supporting courses in philosophy, especially ethics and philosophy of science, are recommended for all students in the concentration.

10. Introduction to Environmental Studies
A general introduction to problems of the environment. Physical, biological, and social causes and solutions for environmental problems. A team-taught course intended to acquaint general students with some of the major processes governing the functioning of the environment and to provide a common beginning point for students contemplating a concentration in Environmental Studies. Course will not count toward distribution requirements. Three lectures and one laboratory each week. Prerequisite: Consent of instructor, freshman or sophomore standing. Fall term.

98. Senior Seminar on Environmental Problems
A course for seniors in the Environmental Studies concentration focusing in detail on selected environmental topics. Students will use the knowledge and methods learned in other courses to analyze a particular problem or group of problems. This course will be team-taught and will attempt to bring together the perspectives of the natural sciences and the social sciences. The course will not satisfy distribution requirements in natural or social science. Prerequisite: Senior standing and satisfactory progress in the Environmental Studies concentration. Spring term.

FRESHMAN SEMINARS
Mrs. Albinson, Mr. Green, Mr. Guss, Mr. Hersey, Mr. Holtz, Mr. R. Johnson, Mr. Knuths, Mr. Kramer, Mr. Mink, Mr. Moses, Mr. W. Roberts, Mr. Sandeen, Mr. Spradley, Mr. Strait, Mr. Swain, Mr. Torrey, Mr. Warde, Mr. Weiss, Mr. West, Mr. Westermeier, Mr. White, Mr. Young.

Freshman Seminars offer the opportunity for a majority of first-year students to work closely with a faculty member on a subject of mutual interest in order to develop a genuine sense of intellectual and social community. A Freshman Seminar counts as an elective course.
The first eleven seminars, while operating independently, are scheduled at the same hour and share objectives — including a common interest in exploring the concept of “identity,” resources, and some readings.

Seminars 1 and 2. The Study of Lives. Fall term.
Seminar 5. You and Your College. Fall term.
Seminar 6. Student Development During the College Years. Fall term.
Seminars 9, 10, and 11. Paradigms of Consciousness. Fall term.
Seminar 12. Religious Dimensions in Education. Fall term.
Seminar 15. The Social Functions of Conflict. Fall term.

GENERAL SCIENCE AND SOCIAL SCIENCE CONCENTRATIONS (See Education, Page 55)

HUMANITIES
Mr. Sandberg (Coordinator)
The aim of the Humanities Program is to present for study and discussion certain classic and seminal statements (both in letters and in art) that express characteristic views of deity, man, and the world, especially in Western civilization.

General Graduation Requirement
Any of the courses in Humanities can satisfy general
graduation requirements in the humanities and fine arts division.

Core Concentration
The Humanities core shall consist of twelve courses. The inner core in Humanities normally includes 18 (or Classics 21 or 22), 25, 26, 29, 56, and one course numbered above 90. Supporting the concentration will be six courses chosen in close consultation with the adviser from one of the following options.

Option A:
Intellectual and Cultural History. Six courses with at least one from each of the first three disciplines:
- Art History
- Music (Music 10 or Advanced courses in History of Music or Music Literature)
- Philosophy
- Speech (Selected courses in Rhetoric and Theater)
- Religion (Selected courses)
- History (Selected courses)

Option B:
Foreign Language Core Concentration. Six courses in literature beyond the elementary courses in a foreign language normally excluding "conversation" courses.

Option C:
English Literature. Six courses in English Literature (excluding English 18) chosen so as to make a meaningful pattern.

Senior Comprehensive Examinations
Those concentrating in Humanities are required to take a final written/oral comprehensive examination at the end of their senior year.

18. Athens and Jerusalem: A Conflict of Cultures (Same as Classics 18 and Religion 18)
Through a study of selected classical and biblical readings inquiry is made into distinctive features of two major sources of Western civilization. Lectures and Discussion.

25. The Modern World — I
Classics of European art and letters from the 17th and 18th centuries. Fall term.

26. The Modern World — II
The 19th century. Spring term.

29. Major Continental Literature of the Twentieth Century (same as English 29)
The expression of ideas in major European literature of the 20th century. Studies in selected representative works. Prerequisite, sophomore standing.

45, 46. Independent Study
50. Topics in the Humanities
Seminar or independent study to fill out and pull together the matter of the first four courses. Prerequisite, junior standing.

56. The Medieval and Renaissance World
Classics of European art and letters. Prerequisite, junior standing or permission. Spring term.

65. The Oriental World
Classics of Eastern art and letters.

95, 96. Independent Study
Further reading and the writing of papers based upon the matter of the core and supporting courses. Senior standing and permission.

INTERNATIONAL STUDIES
The International Studies Program is interdepartmental in nature and includes these faculty members and departments:
- Miss Dodge (Coordinator)
- Mr. Bunting, Economics and Business; Mrs. Johnson, Geography; Mr. Trask, History; Miss Dodge, Political Science; Mr. Wendt, Psychology; Mr. McCurdy, Sociology and Anthropology

The International Studies Program is designed for (1) students who plan a career in governmental agencies, in the service of international organizations, in journalism, in the foreign service of banks, industrial or commercial organizations, in the missionary field, in the educational field, and (2) students who wish to obtain a general understanding of international relations for more intelligent citizenship in the modern world community.

Recommended Program of Study
Students elect a major from one of the participating social science departments. The student will be expected to fulfill the departmental requirements for the major in that field but it is anticipated that his program of study will have an international focus. Students should consult with the committee members listed above for course advice in the department of their major.

In addition to the major, students are encouraged to develop a competency in one or two additional social science departments by: (a) following an inner core sequence with six courses recommended by one department, or (b) by taking a minimum of six courses selected from two additional participating departments. These additional courses should be selected in consultation with one more committee member or two more committee members, depending on choice (a) or (b), from the above list.
Independent studies across departmental lines are highly desirable. Arrangements for independent studies with guidance from more than one of the committee members listed above are encouraged.

Students will ordinarily make arrangements on their own through the appropriate departments in respect to such language skills as may be applicable to their career goals in the International Studies field although advice will be provided where necessary. Students are normally expected to avail themselves of the opportunities for overseas study or travel available at Macalester College (see Special Overseas Program listings in the catalog).

**LATIN-AMERICAN STUDIES**

*Mr. Fabian, Mr. Satterthwaite (Coordinators)*

The Latin-American Studies Program is designed for students with regional interests in South and Central America who plan a career in governmental agencies, in journalism, in education abroad, or work in services to Latin-Americans under the auspices of private groups.

**Major Concentrations**

A major concentration in Latin American Studies can be taken in either the Spanish or the Geography Department (see Geography and Spanish) and must be complemented by History 51 in either case.

If the student elects to major in Spanish he is expected to take eight courses above the level of Elementary Spanish including Spanish 31, 32 (unless excused by placement), 51, 61, 62, 65 and other courses in Spanish and Spanish-American literature up to the total of eight. A Senior Seminar is also required. The supporting courses should include Geography 42, History 51, and other appropriate courses in Geography, History, Sociology, Political Science or Portuguese (total of four).

A student who elects to major in Geography will take Geography 11, 25, 26, 44, 50, 54, and an independent course on Latin America. Further work in the geographic region of special interest can be arranged. The student should complement the seven courses in geography with History 51, Political Science 45 and up to five courses in Spanish which must include Spanish 65 or 66.

Students in the Latin-American Studies Program are urged to avail themselves of one of the various Macalester College programs for study or travel in Spanish-speaking countries. Students are requested to discuss this program with the two coordinators.

**LINGUISTICS**

*Mr. Sandberg (Coordinator)*

The goal of the interdepartmental major concentration in Linguistics, offered in cooperation with other local colleges, is to enable the student to gain a broad knowledge of the phenomenon of language and its relation to other disciplines, to acquire the methods and techniques used in studying it, and to relate knowledge of theory and methodology to various practical problems involving language.

The concentration includes work in three main areas:

a. linguistic theory and methodology  
b. languages other than one's own  
c. the culture or civilization out of which language grows and the relation of language to cultural and ethnic values.

A concentration in Linguistics is useful and desirable for:

a. those who wish to go into foreign language teaching, including teaching English as a second language  
b. those who plan to go into bilingual education  
c. those who wish to take advanced work in linguistics  
d. those in elementary or secondary education who plan to work in teaching reading, remedial reading, composition, or special education  
e. those interested in linguistic aspects of literature, psychology, anthropology, or sociology  
f. those who wish a general acquaintance with the phenomenon of language.

**Major Concentration**

The Linguistics concentration shall consist of twelve courses distributed according to the following categories:


Three courses to be selected from the following or from Topics or seminar courses approved by the Coordinating Committee for this category:
2. History and structure of individual languages.

Three courses in either of the following two groups (certain Topics or seminar courses may be substituted for some of the specific courses in Group 1 with the approval of the Coordinating Committee):

**Group 1:**
- Spanish 60 Introduction to Romance Linguistics, or German 60 Introduction to Germanic Philology, or Russian 90 History of the Russian Language, or English 91 The English Language

**Group 2:**
- Two courses in two different languages not one's own

3. Sociolinguistics (the study of the cultural context of language): language and cultural values, language loyalties and ethnicity, language and social processes.

Three courses from among the following or from Topics or seminar courses or courses in other areas as approved by the Coordinating Committee for this category:

- Anthropology 21 Cultural Anthropology
- Anthropology 88 Culture and Cognition

25. **Introduction to Linguistics**
A general orientation to the fields of interest and activity open to the linguist and the kinds of questions he deals with. The general techniques of the structural linguist as specifically exemplified in the study of morphology, phonology and syntax of English.

27. **Linguistics and Language Problems in Education**
A survey and analysis of language related problems encountered in education, with special emphasis on the contribution of linguistics to the teaching of reading and composition and to the education of non-English speaking minorities in the U.S. Study of the questions of language and cultural identity, language and pedagogical problems, and specific programs of bilingual education.

**Departmental Studies**

**ART**

Mr. Caponi (Chairman), Mr. Celender, Mrs. Emanuelson, Mr. Kilbride, Mr. Martin, Mr. Rudquist (on leave 1973-74), Mr. Saltzman (on leave Spring term)

The Art Department is oriented to meet the needs of four groups of students:

*Group I*
Those who wish to explore an approach to knowledge that aims at developing and refining their aesthetic values, through contact with art media in the studio and art theory in the lecture classes.

*Group II*
Those with special aptitudes in practical art who plan for a career as artists or who plan to continue their studies in a professional art school.

*Group III*
Those who plan to teach art in the public schools. Such students will also require courses in Secondary Education or in Elementary Education (see Education).
Group IV
Those who wish to concentrate further in the theory and history of art in graduate school.

General Graduation Requirements
Art 30, 34, 35, 42, 49, 60, 61 and 62 count toward the general graduation requirement in fine arts and humanities.

Major Concentration
Plan A
(for students in Groups 1, 2 and 3):
A major concentration for these students will consist of twelve courses, ten from the Art Department and two from without the Department. It will include Art 30, 34, 35, 49, 60, 61, 66, 71 or 72 or 73, 98; one additional course selected from the Art curriculum; and two courses from Speech (Interpretation), Music or Literature.

Plan B
(for students in Group 4):
A major concentration for these students will consist of twelve courses, ten from the Art Department and two from without the Department. It will include Art 42, 49, 60, 61, 62, 75, 76, 77, 78, 98; one course selected from Painting, Graphics or Sculpture; Anthropology 21 (Cultural); and one History course beyond the social science requirement.

Core Concentration
A core concentration will consist of six courses in Art: 30, 34, 35, 49, 60, 61 and six additional courses to be selected outside of the Art Department. These should not include more than two disciplines and should be programmed with the approval of the Art Department adviser.

Honors Program
Students interested in Honors work in Art should consult with the department chairman.

30. Drawing
Fundamental techniques, varied approaches, and individual development in drawing from the human figure, still life, nature and the imagination. Four two-hour periods per week. Fall and spring terms.

34. Painting
Emphasizing a variety of approaches in oil and water-base paints. Four two-hour periods per week. Fall and spring terms.

35. Sculpture
Various techniques and materials involving modeling, carving, welding, and bronze casting. Four two-hour periods per week. Fall and spring terms.

36. Graphics
Etching, block printing, photography, lithography, and serigraphy. Four two-hour periods per week. Fall term.

42. Art, Its Processes and Application
Four hours of studio to familiarize the student with basic art experiences and techniques in drawing, painting, sculpture, and crafts. Two hours of lecture and discussion relating art to individual growth and its broader application to life. Recommended for students in Education, Psychology, and Sociology. Six hours per week. Spring term.

45, 46. Independent Study

49. Principles of Art
A philosophical approach to the creative field, relating art to man, the creator and consumer; and to the social and psychological. Three hours of lecture and discussion, two hours of studio per week. Fall term.

50. Topics
Work in a special area of art, to be announced in advance of registration.

60. History of Art — I
Western Art through the Renaissance. Four hours per week. Fall term.

61. History of Art — II
Baroque through Contemporary Art. Four hours per week. Spring term.

62. Art of the Last Ten Years
Major trends in painting, sculpture, and architecture of the past ten years, with special emphasis on historical, aesthetic, and philosophical development. Four hours per week. Fall term.

66. Design
Creative potential and disciplines of visual energy used in two dimensional and three dimensional concepts. (Line, color, form, texture, space, light, movement, etc.) Eight hours per week.

70. Advanced Drawing
Continuation of Art 30 with greater emphasis on individual expression. Four two-hour periods per week. Spring term.

71. Advanced Painting
Continuation of Art 34. Exploration of additional media to suit
expressive needs. Four two-hour periods per week. Fall and spring terms.

72. Advanced Sculpture
Modeling, carving, and casting, with emphasis on the personal approach. Four two-hour periods per week. Fall and spring terms.

73. Graphics
This course supplements techniques taught in Art 36; emphasizes individual expression and a more concentrated exploration of creative possibilities of the various media in the course. Eight hours per week.

75. American Art
A comprehensive study of the painting, sculpture, architecture and household arts of the United States from earliest Colonial times to the present with particular reference to European influences and to indigenous tendencies. Four hours per week. Spring term.

76. Oriental Art
Art and architecture of India, China, and Japan; aesthetic principles; relation to Oriental philosophies. Four hours per week.

77. Primitive Art
Art of the cultures of Africa, Oceania, and the Americas; pre-historic art. Four hours per week.

78. Classical Art
Studies in the art and architecture of ancient Greece and Rome; aesthetic principles, relation to ancient philosophies and beliefs. Four hours per week.

95, 96. Independent Projects
Independent work in any art medium or in the history of art, with departmental approval. Advanced students in Art concentrations only. Fall and spring terms.

98. Senior Seminar
A synthesis of the knowledge acquired in the Art Department with that of other areas of study. Students in Art concentrations only. Fall and spring terms.

BIOLOGY
Mr. E. Hill, Mr. Jones (on leave Fall term), Mr. Kleese, Mr. E. Robinson, Mr. Smail, Mr. Welch (Chairman), Mr. Whitehead
The objective of the Biology Department is to educate its students in the content, methods, history, and philosophy of biological science and to relate this science to certain practical and philosophical problems of man. Some of the departmental offerings cover the subject areas recommended by the AIBS Subcommittee on Facilities and Standards as a desirable curricular structure for biology, while other courses examine selected fields in some depth and contribute to a well-rounded major program.

These courses, with the addition of supporting work in other sciences and mathematics, allow preparation for careers based on biological science, with or without formal postgraduate training. These include: professional biology, with Ph.D. training leading to college or university teaching and research; industrial and government research; medicine, veterinary medicine, dentistry, nursing, medical technology, physical therapy, and a variety of para-medical specialties; hospital administration; environmental work; and business careers in the drug and other industries.

A number of departmental activities contribute to the general education of biology students. Phi Delta Mu is a local organization of pre-medical and pre-dental students which brings speakers to the campus, arranges trips to places of interest, holds social events, and helps to disseminate information about preparation for professional school. The visiting speaker program and other sources are used to bring prominent biologists into the department for visits ranging from a day or so to a term. These visitors work with classes, Honors program groups and individual project students, and also give general lectures open to all students interested in biology. The members of the department staff have skills and a wide range of materials to use in coordinated pre-professional and career advising, as well as in finding part-time or summer positions suitable for biology students.

The department features special strength in field, genetic, developmental and physiological biology. However, most of the major fields of undergraduate biology are represented in its offerings, and the major requirement is flexible so that emphasis can be given to one particular interest.

The field biology teaching effort is supported by a 270-acre field biology teaching area near the campus, where teachers and students have ready access to natural aquatic and terrestrial habitats adapted to ecological study. Physical facilities have been added to the natural ones. Two field biology courses and the first course include extensive field work. Several distant field trips are made each year under the
Auspices of the department, which complement the field biology offerings. Each Interim Term at least one off-campus field biology course is offered. This most usually is marine biology, taught at a marine laboratory in Florida.

Occasionally other Interim Term courses are given in such subjects as desert ecology (in Arizona), winter ecology (in Minnesota), and island biology (in Hawaii).

The department is housed on the campus in a new (1970), well-equipped laboratory building which also contains the electron microscope lab and computer.

**Major Concentration**
The biology major consists of eight courses of biology, two courses of chemistry, and two elected courses in any department of the science division or the Philosophy Department.

The biology courses are Biology 11, 12 and 13, and five advanced courses selected in consultation with and approved by the major adviser. These advanced subjects must constitute a reasonable sequence within themselves and with the elected courses, but each student is free to propose his own program. Only one of the five advanced courses can be in individual research and independent study (Biology 45, 46, 95, 96). The first three courses should be completed by the end of the sophomore year.

The required chemistry is Chemistry 11 and 12. A qualified student may take Chemistry 13 in place of these, in which case he would have three elected courses in the major instead of two.

The elected courses ordinarily would be chosen from among mathematics offerings relevant to biology, such as calculus and statistics; from geology courses with a strong biological component; from advanced chemistry, particularly organic and analytical; college physics; additional biology; and philosophy courses concerned with logic, metaphysics, or the philosophy of science. Other courses, and subjects in other departments, will be considered if the student proposing them can justify their inclusion in a worthwhile program.

All students who expect to undertake work toward any kind of graduate degree after leaving Macalester should realize that certain science courses in addition to biology are among prerequisites of graduate and medical schools. These most often include organic chemistry, college physics, calculus, quantitative analysis, and less frequently, other chemistry or mathematics courses. The members of the Biology Department are prepared to assist students in determining the prerequisites of these schools, and in designing a course of study which will include the necessary subjects.

**Core Concentration**
The department provides for the use of the core concentration plan for students whose interests either do not require a full biology major, or which may demand some courses which cannot fit into a biology major concentration. The six biology courses in a core are Biology 11, 12 and 13, and three advanced courses selected in consultation with the faculty adviser. The remaining six courses may be in any of several other departments, and are selected according to the student's particular requirements, such as preparation for science teaching at the secondary level, physical education teaching, or preparation for medical or dental school. The twelve courses must bear a sensible relationship to each other, and all core concentrations require the approval of the department chairman.

**Departmental Honors Program**
The Biology Department has an Honors program which qualified students may enter in their fourth, fifth or sixth term. The minimum program consists of a thesis course (Biology 95 or 96) in which the Honors research project is carried out and which may be included as one of the eight Biology courses required for the major. The thesis must be defended orally and may be presented at a departmental seminar. To this minimum program may be added others of the regular advanced courses, modified for Honors candidates and taken for Honors credit; individual independent study for Honors credit; and approved Honors courses in other departments. Interim Term and summer work also may be done for Honors credit, if the student so desires.

An Honors student may have two independent study courses included within the eight Biology courses required for a major, but only one such course may be devoted to the Honors thesis.
11. Principles of Biology
An introductory course considering fundamentals and concepts of biology in terms of historical background and with emphasis on modern developments. Lecture and laboratory subjects vary from the molecular to the eco-system levels of biological interactions, with an evolutionary approach to their study. The course is open to non-science majors and satisfies both general graduation and departmental major requirements. No prerequisite. Four lectures and one three-hour laboratory period per week. Fall and spring terms.

12. Introduction to Zoology
The course is divided between a study of vertebrate and invertebrate animals. The structure, evolution and physiological function of organs and organ systems, especially of mammals, is the emphasis given in the vertebrate part of the course. In the invertebrate portion, a typical survey is made of the taxonomy, structure and habitat of selected types from eight phyla. About one week is spent on embryology, including an introduction to serial sections of chick embryos. Prerequisite, Biology 11. Three lectures, two two-hour laboratory periods per week Fall and spring terms.

13. Introduction to Botany
An elementary course which covers botanical principles. Particular emphasis is given to the principles exemplified by seed plants. Prerequisite, Biology 11. Three lectures, one three-hour laboratory period per week Fall and spring terms.

40. Field Zoology
A study of the local fauna, including phylogenetic relationships, taxonomy, life histories, distribution and behavior. The importance of these animals economically, ecologically, aesthetically, and in human health, is emphasized. Study of natural groups of animals in the laboratory is followed by extensive field observations. Prerequisite, for biology majors, Biology 11 and 12; for others, consent of the instructor. Three lectures, two two-hour laboratory periods per week Spring term.

44. Vertebrate Anatomy and Evolution
The study of the origin, evolution and natural history of living and fossil vertebrates as revealed by their anatomical, ecological and behavioral adaptations. Laboratories stress the comparative anatomical study of preserved specimens representing all major Chordate groups. Lectures stress theoretical aspects. Prerequisite, Biology 12. Three lectures, two three-hour laboratory periods per week Spring term.

45, 46. Individual Research and Independent Study
For freshmen and sophomores, including Honors work. Prerequisite, consent of the instructor. Fall and spring terms.

49. Embryology
A comparative study of vertebrate development and differentiation. Laboratory work stresses the anatomical development of the frog, chick and pig. Lectures emphasize experimental and theoretical aspects of development. Prerequisite, Biology 12. Three lectures, two three-hour laboratory periods per week Fall term.

51. Algae and Fungi
The study of the physiology, morphology, ecology and phylogeny of the algae and fungi. The laboratory stresses the basic techniques for the study of these plants. Prerequisite, Biology 13; Biology 43 recommended. Three lectures, one three-hour laboratory period per week Spring term.

52. Genetics
A general genetics course giving equal emphasis to the classical and the modern phases. Prerequisite, Biology 11. Three lectures and one three-hour laboratory period per week Spring term.

54. Human Physiology
A study of the functioning of the organ systems in the human body. The organ systems which will ordinarily be studied are the muscle, digestive, respiratory, excretory, nervous, reproductive, circulatory, skeletal and endocrine systems. Prerequisite, Biology 12. Three hours of lecture and one three-hour laboratory per week Fall term.

61. Histology
A study of the microscopic structure and ultrastructure of animals, with particular attention to structure-function correlations.
Prerequisite, Biology 12; Chemistry 12 or 13 recommended. Three lectures per week, and directed independent study laboratory equivalent to six hours per week. Fall term.

63. Plant Physiology
The physiology of plant nutrition, metabolism, and growth and development. Topics include: photosynthesis, intermediary metabolism, mineral nutrition, water relations, auxins and growth, and tropisms. Prerequisite, Biology 13 and Chemistry 37. Three lectures, one three-hour laboratory period per week. Fall term.

64. Cell Physiology and Biochemistry
The study of structural and functional relationships of cells and their physico-chemical environments as revealed by biochemical methods and the electron microscope. Laboratories, while stressing activities of the cell, bring students into contact with current techniques of investigation and analysis such as cell fractionation, micro-respirometry, electron microscopy, electrophoresis, chromatography, etc. Prerequisite, Biology 12 and Chemistry 37. Three lectures, one three-hour laboratory period per week. Spring term.

65. Advanced Botany
The familial characteristics of the Embryophyta, principally the Angiosperms. Other topics pertaining to plant relationships, such as chromatography, metabolic pathways and distribution patterns will be selectively covered as desired. This is mainly a laboratory course. Prerequisite, Biology 13. Two three-hour meetings per week. Spring term.

95, 96. Individual Research and Independent Study
For juniors and seniors, including Honors work. Prerequisite, consent of the instructor. Fall and spring terms.

97. Senior Seminar
Classic books in biology will be read, reviewed and discussed. Prerequisite, senior with a major in biology. Fall and Spring terms.

CHEMISTRY

Mr. Doomes, Mr. Neuman, Mr. Schwartz, Mr. Scott, Mr. Slowinski (on leave 1973-74), Mr. Stocker (Chairman), Mr. Wolsey

The Chemistry curriculum is designed to serve three purposes:
1. To enhance and broaden the general culture of all its students by a consideration of some of the great intellectual achievements and current frontiers in the field of chemistry.
2. To lay the foundation for graduate study and professional careers in chemistry in the academic, research or industrial fields.

3. To provide the training in chemistry necessary for those who plan professional careers in biology, biochemistry, geology, medicine, or dentistry.

General Graduation Requirement
Chemistry 11 or 13 may be used to fulfill the physical science requirement without specific college level prerequisites.

Major Concentration
The major concentration in Chemistry consists of Chemistry 11 and 12, or 13, plus 23, 37 and 38, 55 and 56, 63, Physics 21 and 22, or 26 and 27, Mathematics 22, and 33 or 34, and one year of a foreign language.

Core Concentration
The core concentration in Chemistry includes Chemistry 11 and 12, or 13 and 23, plus 37 and 38, and 55 and either 56 or 58. Required supporting courses are Physics 21 and 22 or 26 and 27 and Mathematics 21 and 22. Two additional science courses are required and may be chosen from the fields of biology, geology, physics, or mathematics.

Honors Program
The Honors Program in Chemistry includes Honors seminars in Chemistry 38, 55 and 56, plus two seminars chosen from Chemistry 61, 62, 63, 64, and 66. Ordinarily the Honors student will spend at least one summer working on a research problem.

Further Preparation
Students contemplating graduate work should elect additional courses in Chemistry in consultation with the department. The Chemistry Department is approved by the Committee of the American Chemical Society for Professional Training; students wishing to meet the requirements recommended by this Committee should confer with the chairman of the department.

A one-semester introduction to the intellectual excitement and useful ubiquity of chemistry, designed primarily for non-science students. The course will trace the development of some of the fundamental ideas of chemistry — the organization, structure, and reactions of matter — and explore their applications and implications, with as much rigor as is consistent with limited reliance on mathematics. Four lectures a week. Spring term.
11. General Chemistry
An introduction to the principles of chemistry. The chemical and physical properties of substances are considered and related to the atomic, kinetic, and equilibrium theories. Three lectures, three hours laboratory a week. Fall term.

12. General Chemistry
Continuation of Chemistry 11. Laboratory work in part devoted to qualitative analysis. Prerequisite, 11. Three lectures, three hours laboratory a week. Spring term.

13. General Chemistry
A one-term combination of 11 and 12. For students who have good preparation in chemistry and an aptitude for mathematics. Three lectures, three hours laboratory a week. Fall term.

23. Analytical Chemistry
Application of chemical principles to problems in chemical analysis. Laboratory work includes volumetric, gravimetric, and instrumental methods for quantitative analysis. Prerequisite, 12 or 13. Three lectures, six hours laboratory a week. Spring term.

34. Radiochemistry
Nuclear and radiochemistry and their applications to chemistry and biology. Prerequisite, 23 or consent of instructor. Three lectures, three hours laboratory a week. Spring term.

37. Organic Chemistry
The carbon compounds, their structures, reactions, and syntheses. Prerequisite, 12 or 13. Three lectures, four hours laboratory a week. Fall term.

38. Organic Chemistry
Continuation of 37. Three lectures, four hours laboratory a week. Spring term.

50. Topics in Chemistry
Examination of a topic of general interest in chemistry, the topic to be announced in advance of registration. Prerequisite, permission of instructor. Fall or spring term.

55. Physical Chemistry
Thermodynamics, quantum theory, and reaction rate theory as related to chemical systems. Prerequisite, 12 or 13, Physics 22, and Mathematics 22. Three lectures, three hours laboratory a week. Fall term.

56. Physical Chemistry
Continuation of 55. Three lectures, three hours laboratory a week. Spring term.

58. Biochemistry
Application of physico-chemical theory and methodology to problems of biological importance. Topics covered include structure, function and biosynthesis of proteins and nucleic acids; enzyme kinetics; metabolism of carbohydrates, lipids, amino acids and nucleotides. Prerequisites: Chemistry 55 and Biology 11 or consent of instructor. Three lectures, three hours laboratory a week. Spring term.

61. Qualitative Organic Analysis
Identification of representatives of the major homologous series. Prerequisite, 38. Two lectures, six hours laboratory a week. Fall term.

62. Advanced Organic Chemistry
Stereochemistry and reaction mechanisms. Prerequisite, 56; may be taken concurrently. Three lectures. Spring term.

63. Advanced Inorganic Chemistry
Reactions and structures of inorganic compounds. Prerequisite, 56. Three lectures, three hours laboratory a week. Fall term.

64. Advanced Analytical Chemistry
Instrumental methods of analysis. Prerequisite, 56; may be taken concurrently. Two lectures, three hours laboratory a week. Spring term.

66. Advanced Physical Chemistry
Statistical and quantum mechanics, molecular spectra and structure, and kinetics of chemical reactions. Prerequisite, 56. Seminar. Spring term.

95, 96. Independent Study
Laboratory and library research on an original problem with a thesis. Prerequisite, junior standing and permission of department. Either term.

CLASSICS
Mr. E. Brooks (on leave 1973-74), Mr. Donovan (Chairman), Mr. Reedy, Mrs. Wilkie
The program of the Department of Classics is designed to give students knowledge of the languages, literatures, and civilizations of Greece and Rome as well as an awareness of the close relationship of those civilizations and their problems to our own. This program is also designed to prepare students for graduate study in Classics, Comparative Literature, and related fields.

Requirements in Language
Certain departments require a foreign language for their
majors; students are urged to consult their advisers about such requirements.

Major Concentration
A major concentration in Classics shall consist of (a) a minimum of eight courses in Greek and one in Classical Civilization, or (b) a minimum of six courses in Latin above the intermediate level and one in Classical Civilization, or (c) a minimum of eight courses in Latin and Greek (not to include Latin 11 or 12) and one in Classical Civilization, or (d) a minimum of two courses in Greek or in Latin and five courses selected from the offerings of the department, together with Classics 69 (History of Greece), Classics 70 (History of Rome), and Philosophy 30 (Ancient and Medieval Philosophies).

Core Concentration
A core concentration in Classics shall consist of (a) six courses in Greek, or (b) six courses in Latin beyond the elementary level, or six courses in Greek and Latin (not to include Latin 11 or 12); or (c) a minimum of two courses in Greek or in Latin and four courses selected from the offerings of the department; six related courses must also be selected from those offered by other departments.

Classical Archaeology
A student who wishes to prepare for a career in classical archaeology is urged to study at least one ancient language (core concentration a or b above) and to take Classics 60, 78 (Classical Art), and 69, 70 (Ancient History). Geography 25 is also recommended. Opportunities for field work in Greece exist for qualified students.

Honors Program
The student admitted to the Honors program in Classics will prepare an Honors thesis, take an Honors comprehensive, and take from three to five Honors courses in Classics. These shall be any courses in Latin and Greek above the intermediate level for which additional work, either reading or a paper, shall be done under the direction of the instructor.

Greek
15-16. Elementary Greek
This course seeks to introduce the student to the reading of Classical Greek literature as quickly as possible. The Attic dialect is primarily studied.

33. Plato
Readings selected from the Dialogues of Plato to illustrate the philosopher's thought and style. The emphasis of this course, as of 34 and 35, will be on developing the student's ability to read Greek with greater ability and precision. Offered in alternate years. Fall term.

34. Iliad
Men at war as seen in Homer's epic poem; the Homeric Question and life in early Greece will also be discussed. Spring term.

35. New Testament
Rapid reading of selections from the New Testament with a brief survey of the differences between Attic and Koine Greek. Offered in alternate years. Fall term.

45, 46. Independent Study

57. Herodotus
An introduction to the philosophy and methods of the Father of History. Attention will be directed to the anthropological and geographical interests of Herodotus. Fall term.

58. Greek Tragedy
An examination of the Greek view of Tragedy as exemplified in the plays of Aeschylus, Sophocles or Euripides. Spring term.

61. Readings in Greek Prose
Readings from Greek authors chosen by the instructor chiefly from the fields of oratory, history, and philosophy. Fall term.

62. Readings in Greek Poetry
Readings from Greek authors chosen by the instructor from Greek dramatic or lyric poetry. Spring term.

87. Advanced Reading in Greek
Authors chosen after consultation between instructor and student. Either term.

Latin
11, 12. Elementary Latin
A study of the Latin language; reading easy Latin and Caesar.

31. Intermediate Latin
A thorough review of Latin grammar followed by a study of Vergil and other poets of the Augustan Age. Fall term.

32. Intermediate Latin
A study of Roman prose authors, with particular emphasis on the letters and speeches of Cicero. Spring term.
45, 46. Independent Study

51. Classical Latin Rhetoric

52. Latin Elegy
A survey of Latin elegiac poetry. Readings from Catullus, Propertius, Tibullus, and Ovid.

64. Lucretius, De Rerum Natura
Readings from the *De Rerum Natura* with discussions of the style, language, and structure of the poem. Epicureanism will be studied intensively and contrasted with Stoicism.

71, 72. Roman Satire
Readings from Horace, Persius, Martial, and Juvenal during the fall term and from Seneca, Petronius, and Apuleius during the spring term with discussions of the origin, development and nature of satire.

83. Advanced Reading in Latin
Authors chosen after consultation between instructor and student. Either term.

95, 96. Independent Study

Classical Civilization (knowledge of Latin/Greek not required)

18. Athens and Jerusalem: A Conflict of Cultures (Same as Humanities 18 and Religion 18)
Through a study of selected classical and biblical readings inquiry is made into distinctive features of two major sources of Western civilization. Lectures and discussion.

19. Classical Mythology
A survey of the major myths of Classical Antiquity with emphasis on the content and treatment of myth in classical authors such as Homer, Hesiod, Vergil, and Ovid. Some attention will be paid to the psychology of myth-making and to modern theories of mythology.

21. Classical Epic and Lyric Poetry
The study of a process in which the Greeks took traditional forms and materials and molded them into art. Attention will be given to the change from conditions which produced the poetry of Homer and Hesiod to those which favored the expression of the emotions and experiences of the individual. Special emphasis will be placed on the qualities which distinguish Roman literature from its Greek predecessors.

22. Greek and Roman Drama
A study of the Greek and Roman dramatic forms and their modes of expression, with particular emphasis on the Attic tragedians, Aristophanes, and Seneca. Close attention will be given to the concern of Greek tragedy with the basic problems of life and death, and especially with man's relation to the gods. Aristotle's *Poetics* will be studied as a basis for criticizing the plays themselves.

45, 46. Independent Study

60. Classical Art (same as Art 60). Fall term.


78. Classical Art (same as Art 78). Spring term.

ECONOMICS AND BUSINESS
Mr. Bunting (Chairman), Mr. Egge, Mr. Farber, Mr. Lindsey, Mr. Simpson, Mr. Vandendorpe
The objective of the Department of Economics and Business is to provide students with a deeper understanding of the nature and functioning of their own and other economic systems. This training is expected to assist them in making sounder and more responsible private and public decisions.

Career Orientations
The curriculum is designed to develop the analytical and empirical skills needed for rewarding careers in business, government, and public service as well as preparation for advanced work in graduate and professional schools. It is recommended that students interested in law school combine their work in this department with a core in political science; students interested in secondary school teaching are encouraged to take a joint economics and business-political science core concentration along with the required five courses in the education department. For those especially interested in accounting, it is possible to design a program of study leading toward certification as a C.P.A.

Department Activities
The Bureau of Economic Studies: The Bureau undertakes studies of economic problems and issues. Its facilities are available for faculty research and for introducing students to research skills and discipline.

Honor Societies: Outstanding academic achievement makes Economics and Business students eligible for membership
in Omicron Delta Epsilon, national honor society in Economics, and in Pi Gamma Mu, national honor society in the social sciences.

Study Abroad: this department cooperates with the French, German, Russian and Spanish departments in arranging semesters abroad in France, Austria, Yugoslavia, and Colombia, South America.

General Graduation Requirement
Any course in the Department, with the exception of Statistics and Accounting courses, will satisfy the general graduation requirement in the social sciences.

Major Concentration
The major concentration in this Department consists of a minimum of eight courses, of which the following are required:
Principles of Economics
Advanced Principles of Economics
Intermediate Micro Economic Analysis
Aggregate Economic Analysis
Basic Financial Accounting
Statistics I

Core Concentration
A core concentration is also available in Economics and Business. The requirements are as follows:
Six courses in the department, four of which shall be the first four courses listed above.

The department is especially interested in encouraging interdepartmental programs involving a core in this department in combination with cores in the Departments of Political Science and Mathematics. In each case such a program would consist of: (1) a six-course core in Economics and Business as described immediately above, and (2) six courses in the Departments of Political Science or Mathematics as approved by the chairman of those departments.

Honors Program
The Honors Program consists of two courses and is designed to help students develop advanced research skills. During the two seminars the student is expected to develop an individual research project.

Students interested in pursuing the Honors Program are asked to consult with the department chairman during their junior year regarding their course of study.

Outstanding majors may graduate with the designation "Distinction in Economics and Business." The requirements for this designation are available from the departmental secretary.

11. Principles of Economics
An introduction to elementary economic analysis with applications to a range of problems such as inflation, unemployment, farm price supports, balance of payments difficulties, poverty and the distribution of income. Fall and Spring terms.
(A written statement of the emphasis in each Economics 11 section is available in the departmental office.)

12. Advanced Principles of Economics
A more advanced and detailed treatment of the topics presented in Economics 11; topics given special emphasis are: the evolution of economic ideas (Smith, Ricardo, Marx, Keynes, etc.); macro or aggregative economic issues (national income determination, monetary and fiscal policy, and the balance of payments); and contemporary economic issues. Prerequisite: Economics 11. Fall and Spring terms.

22. Basic Financial Accounting
Use, summary, reporting, theory (alternatives with implications on financial actions), use of accounting for basic forms of business organization; preparation, analysis of accounting statements. Fall term.

23. Basic Managerial Accounting
Problems of administering complex organizations, profit or nonprofit. Cost functions, cash flows, responsibility centers, budgeting, bureaucratic structures, standards, analysis of variances, sources and uses of funds, and capital budgeting. Prerequisite: Economics 22. Spring term.

24. Statistics I
An introduction to the theory of statistics with applications to problems in the social sciences. Probability theory; frequency and probability distributions; presentation of data; measures of central tendency and variability; testing of hypotheses. Study of the computer runs throughout the course. No prerequisite. Fall term.

25. Statistics II
A continuation of Statistics I. Topics included are analysis of variance, correlation and regression, nonparametric statistics. The normal, binomial, t, chi-square and F distributions are studied. Use of the computer continues throughout the course. Prerequisite: Statistics I or equivalent. Spring term.
51. Intermediate Micro Economic Analysis
Methodology of economic science; theory of consumer behavior; theory of the firm; market structure and price determination; income distribution; general equilibrium analysis. Prerequisite: Economics 11 and 12. Fall term.

52. Aggregative Economic Analysis
The theory of income, prices and employment, neo-classical and neo-Keynesian models, the role of the Federal Reserve, commercial banks and other financial institutions in the money supply process, monetary and fiscal policy in economic stabilization, macroeconomic experience. Prerequisites: Economics 11 and 12. Spring term.

53. Issues in American Economic History
An overview of American economic history with particular emphasis on selected topics, such as the economics of slavery, the economic effects of the Civil War, the Turner thesis, the “leading sector” thesis and railroads, monetary history, and technological change. Prerequisite: Economics 11. (Not offered '73-'74)

54. Managerial Accounting
Uses and basic systems of cost accounting; capital budgeting; inventory valuation; costs as they apply to business decisions; cases and problems. Prerequisite: two courses in accounting. (Not offered '73-'74)

55. Application of Mathematics to Economics and Business
Mathematical treatment of a diversity of limited topics in business and economics; e.g., capital and interest, business decision making, selections from micro and macro economics. Readings of professional articles of an elementary to intermediate level of difficulty. The aim of the course is not to develop any particular area in depth, but to develop student familiarity with elementary mathematical problem solving in a variety of areas in economics and business. Prerequisites: Economics 11 and 12, and Mathematics 19 or 21. Spring term.

56. Capital Markets

57. Theory of Finance
The application of economic and finance theory to the firm; managerial finance, capital budgeting, cost of capital, mergers, leasing, working capital and asset management, and the impact of financial structure and decisions on the value of the firm. Prerequisite: Economics 11. Economics 22 and 56 recommended. Spring term.

58. Public Finance
Economic analysis of sources of government revenues and types of public expenditures; applications of public sector decision-making models to the determination of public expenditure patterns; the impact of public expenditures on wealth distribution and resource allocation; the impact of different methods of taxation on resource allocation and wealth distribution; principles of deficit finance; cost-benefit analysis as applied to public project evaluation; state and local fiscal problems; fiscal policy. Prerequisite: Economics 11. Economics 22 recommended. (Not offered '73-'74)

59. Theories and Critiques of Capitalism
Comprehensive theories of capitalism; emphasis upon the classic views of Smith, Marx and Weber, and upon the more recent thought of Keynes, Sombart, Friedman, Galbraith, Schumpeter and various radical authors such as Dobb, Hunt and Sweezy. Prerequisite: Economics 11 or permission of the instructor. Spring term.

60. Labor Economics
Advanced topics in labor markets, such as the history of wage theory, productivity, wage differentials, women in the labor force, investment in human resources, inequality and poverty, and the effects of labor unions. Prerequisite: Economics 11. Economics 12 recommended. (Not offered '73-'74)

61. International Economics

62. Economic Development
Economic conditions associated with underdevelopment and the particular economic problems of the less developed nations. Study of economic theory in the area of development and critical examination of current economic development policies and programs. Prerequisite: Economics 11. (Not offered '73-'74)

66. Money and Banking
The role of money in a specialized economy; monetary standards; commercial bank portfolio behavior; commercial banks and the Federal Reserve as creators of money; monetary theory; monetary policy; money and business cycles; international monetary issues. Prerequisite: Economics 11. Economics 12 recommended. Spring term.

71. Industrial Organization
The impact of industrial structure on resource allocation and economic welfare; an analysis of the pricing behavior of firms; industrial structure and economic progress; the extent of monopoly; the role of the state as a regulator of business; the
impact of factor market structure on the distribution of income; antitrust policy. Prerequisite: Economics 11. Economics 12 recommended. (Not offered '73-'74).

77. Applications of Economic Theory
Applications of intermediate microeconomic and aggregative economic theory, encompassing the theory of economic growth, economic stabilization, welfare economics, public finance, income distribution and international trade. Applications will be treated on both a theoretical and empirical level. Prerequisites: Economics 11 and 12. Fall term.

95, 96. Independent Study
Further study in fields of special interest. Readings, conferences, field work, reports. Prerequisite: Consent of instructor. Either term.

97, 98. Seminars.
a. Honors Seminars.
b. Senior Seminar.

EDUCATION
Mr. Dierenfield (on leave Spring term), Mr. Ekman, Mrs. Emanuelson, Mr. Faix, Mr. Holtz,
Mrs. Johansen (on leave Spring term), Miss Jones,
Mrs. Lange, Miss Lyle, Mr. Obstaz (on leave Spring term), Mr. Scobie (Chairman), Mrs. Hill,
Mr. Ward (on leave 1973-74)
The State of Minnesota requires that all who are engaged in public school teaching from Nursery School and Kindergarten through 12th grade be certified by the State Department of Education. State requirements are generally as follows:
For teaching in the elementary schools, a teacher must have a college degree from an institution which has State approval for teacher education, must have taken a program which included at least 30 semester hours in professional education with a minimum of six semester hours in student teaching and must be recommended for certification by the College. For teaching in the secondary schools, including seventh and eighth grades, a teacher must have a degree from an institution with an approved program which included at least 18 semester hours of professional education with a minimum of four semester hours of student teaching.
In Minnesota a teacher who spends over half-time teaching in a subject must have a college major in that subject, and teaching assignments of one-half time or less require a minor in that field.
The Macalester teacher education programs are accredited by the State of Minnesota, the North Central Association of Colleges and Secondary Schools, and the National Council for Accreditation of Teacher Education.
As candidates prepare themselves for teaching, they will be counseled by an adviser in their major or core concentration and by a second adviser in Education. In addition to the general graduation requirements and the completion of a core or major concentration, the candidate must complete the professional education sequence. After completion of the program and graduation, the candidate is recommended by the College to the State Department of Education for certification.
All candidates should familiarize themselves with the current demands in the different teaching fields, e.g., history, English, science, languages. It is generally recommended that students preparing themselves for secondary school teaching select major concentrations and that elementary school candidates pursue core concentrations. Some core concentrations are desirable as preparation for secondary school teaching. The differences between the social science major and core concentrations should be noted. A major concentration or core concentration in any area may be selected by those preparing to teach in the elementary schools. Students should not hesitate to question members of the Education Department and the various academic departments regarding these differences as well as possible combinations of courses. The Macalester course offerings are designed to meet the career needs of the students as well as preserve the integrity of each discipline.
Elementary Program
Ordinarily, students may be identified with the elementary education program as freshmen. However, they are encouraged to make formal application to the Teacher Education Committee no later than the first term of their junior year. The Teacher Education Committee is composed of faculty and students comprising a cross section of the academic areas of the College. Each individual will be reviewed by a faculty selection subcommittee. For admission to both the program and student teaching, the applicant must satisfy the following requirements: Good standing in the College and major department; a satisfactory recommendation by the major department advisor and education advisor.
Students who wish Junior High School endorsement must take an additional course, Education 95, The Junior High School. The student teaching assignment will include one unit in a junior high school.

Secondary Program
Candidates for secondary school certification should make application for admission to the secondary program during their first education course or no later than the first term of their junior year. Each individual applicant will be considered by the Teacher Education Committee and acceptance is based on the following: good standing in the College and major department; a satisfactory recommendation by the major department advisor and Education advisor.

In addition to the major or core concentration and the general graduation requirements, the following courses in Education must be satisfactorily completed by students in the secondary program:

40. Educational Foundations
50. Educational Alternatives and Experiences
51. Secondary Curriculum and Instruction
64. Student Teaching (2 units)

Philosophy of Education, School and Society, or Comparative Education may be substituted for Educational Foundations 40 by upperclassmen. Educational Psychology may be substituted for Educational Alternatives and Experiences.

Additional Requirements of All Certification Candidates
All education students must satisfactorily complete work in these additional programs for certification by the State of Minnesota (detailed information is available in Education Department):

a. Drug Education
b. Health and Physical Education
c. Human Relations

In addition, all education students must pass a proficiency test in the use of audio-visual materials.

General Science Core Concentration
The core concentration in General Science is designed to prepare students to teach general science in the secondary schools. To provide the broad science background needed to
teach general science, the curriculum is planned to include courses from each branch of science and to insure an adequate background in mathematics.

A core concentration in General Science is basically a core concentration in one of the science fields. It consists of a six-course sequence in one science (Biology, Chemistry, Physics, or Geology) and two courses in each of the other three sciences. Students who do not have an adequate preparation in mathematics for the physics and chemistry courses must take as electives sufficient mathematics to correct this deficiency. The student's final plan for the core concentration is to be approved by the coordinator. This program is restricted to those students who plan to teach.

Social Science Major and Core Concentrations
Both the major and the core concentrations in Social Science are designed to prepare students to teach the social sciences at the elementary or secondary school levels. It is advisable to discuss the program with the coordinator, who must sign the approved program, not later than the junior year. The following sequences are recommended:

I. Preparation to Teach in Elementary Education
Students who have been accepted in the Elementary Education program may elect a major concentration in Social Science which consists of:

A. Six courses in any one of the following departments: Economics, Geography, History, Political Science, or Sociology.

B. Four additional courses from the above listed departments and Psychology. These additional courses must not be taken from the core department. These courses may be from (a) four different departments or (b) two courses each from two different departments or (c) two courses from one department and one course from each of two additional departments.

The requirements may be stated in formula form as follows:

6-1-1-1-1-1
6-2-2
6-2-1-1

II. Preparation to Teach in Secondary Education
Students who have been accepted in the Secondary Education program may elect a core concentration in Social Science which consists of:

A. Six courses in any one of the following departments: Economics, Geography, History, Political Science, or Sociology.

B. Six additional courses from the above listed departments, excluding the core department, with two courses from two departments and one course each from two departments, or three courses from one department and one course each from three departments.

The requirements may be stated in formula as follows:

6-2-2-1-1
6-3-1-1-1

Certification After Graduation
Individuals with a baccalaureate degree from Macalester or another accredited college may apply for admission into the teacher education program to work toward certification. The candidate for elementary or secondary certification will be screened by the Teacher Education Committee. If the elementary candidate lacks preparation in certain areas, i.e., modern math, he will be required to take such courses. If the secondary candidate does not present a major comparable to the Macalester major, he will be required to take additional courses. In addition, the candidate must finish the professional education sequence as outlined under the elementary and secondary sections and must successfully complete the student teaching requirements.

Persons interested in this program should consult with the Department of Education and with the Office of Student Academic Records.

Student Teaching
The culmination of the professional education program is student teaching. After the candidate's application for student teaching has been approved by the Teacher Education Committee, he will be assigned to the appropriate classroom or grade level in the public schools. Macalester candidates are placed in the public schools of Minneapolis, St. Paul, and the surrounding metropolitan area. The candidates are responsible for their own transportation. In cases of accidents traveling to and from the schools, liability
resulting from such accidents involves the insurable interest of the individual auto owners or pedestrian and auto owner — as the case may be. While the candidates are on the premises of the participating schools, they must have liability insurance. This may be obtained by joining student MEA or the student MFT, or by obtaining private insurance.

**Teacher Placement**

The College operates a teacher placement service which assists Macalester Education graduates in finding teaching positions. The primary functions of the service are:

1. keeping a current file of the teacher's credentials,
2. scheduling appointments with prospective employers, and
3. maintaining lists of available teaching positions. The responsibilities of the teacher are: (a) paying a placement fee and the compiling of credentials, (b) initiating contacts with prospective employers, and (c) informing the service when a position has been obtained.

Placement folders or credentials should be compiled early in the senior year. Materials on placement are available at the Teacher Placement Bureau-Education Office.

**40. Educational Foundations**

Social, philosophical and historical concepts and developments as these are related to education. Fall and spring terms.

**41. Fine Arts in the Elementary School**

Concepts of learning and instruction as they apply to the areas of art and music in the elementary school. Fall and spring terms.

**45, 46. Independent Study — Lower Division**

**49. Educational Psychology**

Human growth and development in childhood and adolescence as they relate to education. Fall and spring terms.

**50. Educational Alternatives and Experiences**

Alternative school settings, instructional modes, learning environments. Fall and spring terms.

**51. Secondary Curriculum and Instruction**

General principles and procedures in instruction and application of these in the specific secondary teaching areas. Fall and spring terms.

**52. Elementary Curriculum**

This course will be offered in multiple sections, each section covering two of the following six areas of elementary curriculum and instruction: Reading, Children’s Literature, Social Studies, Language Arts, Science/Health, and Mathematics. The course may be repeated if the repeats cover different pairs of the above areas. Students taking the course the first time will also participate in a general seminar on elementary curriculum. Fall and spring terms.

**64. Student Teaching (Secondary)**

Student teaching in the public schools at the secondary level. Observations as well as actual student teaching. Fall, interim, and spring terms.

**65. Student Teaching (Elementary)**

Student teaching in the public schools at the elementary level. Observation as well as actual student teaching. Fall, interim, and spring terms.

**66. Student Teaching (Kindergarten)**

Student teaching at the nursery school or kindergarten level. Observation as well as actual student teaching. Fall, interim and spring terms.

**67. Student Teaching (Junior High)**

Student teaching in the public schools at the junior high school level. Observation as well as actual student teaching. Fall, interim and spring terms.

**84. Philosophy of Education (Same as Philosophy 84)**

System approaches and philosophical analysis approach to education and educational language, respectively. Fall and spring terms.

**90. Guidance in Education**

Theories and principles of guidance and their application in teaching and counseling programs in elementary and secondary schools.

**92. School and Society**

Study of such topics as church and state, nationalism and education, politics and educational ideology, pressure groups and education, structure.

**93. Comparative Education**

Major national education systems on elementary, secondary, and collegiate levels in terms of aims, curriculum organization, and teaching methods.

**94. Kindergarten Theory**

Processes and approaches to learning and teaching in the kindergarten situation. Fall and spring terms.

**95, 96. Independent Study**
ENGLISH
Mr. Baer, Mr. Bernstein (on leave Spring term), Mr. Blakely, Mr. Gamble (on leave Spring term), Mr. Greenberg, Mr. Henry (on leave 1973-74), Mr. Huelster, Mrs. Kane, Mr. Keenan, Miss Meister (on leave Spring term), Mr. Murray (Chairman), Mr. Thompson, Mrs. Toth, Mr. Warde

General Graduation Requirement
Any English course counts toward general graduation requirements in humanities. The following courses are especially recommended for students majoring outside the humanities and fine arts divisions: 23, 24, 28, 29, 30, 31, 51, 52, 53, 54, 56, 72.

Major Concentration
Eleven courses in English to include: three or two courses in British literature before 1660, three or two courses in British literature 1660-1900 (to a combined total of five including English 91 as an option to count as the third course in either period); one course in American literature before 1900; and one course in British and/or American literature of the 20th century. Any course offered by the department may count as an elective for the major.

Each student must develop a major plan with his adviser. Majors are reminded that appropriate topic, seminar, and special studies courses may be applied toward the distribution requirements in British and American literature outlined above. The department strongly recommends that major plans include a variety of modes of study: i.e. courses dealing with one or two major authors; courses dealing primarily with a literary type, such as the novel or drama; courses dealing with literary periods; and courses of an advanced and specialized nature, such as topics, seminars, literary criticism or independent study.

Although there are no supporting courses required for the English major, the department encourages its majors, with counsel from faculty advisors, to develop programs of study in other curricular areas, and recommends study of foreign languages and literature.

The work of English courses will regularly include written assignments, but the department recommends English 18 (Literature and Writing), for basic writing skills, and English 21 (Literature in Critical Perspectives), for students who plan to take a substantial number of English courses.

Individually Designed English Major
A plan is first prepared in consultation with faculty advisors, then is presented in writing for consideration by the department.

Creative Writing Plan for English Major
Eleven courses, to include: one or two courses in British literature to 1660 and one or two courses in British literature 1660-1900 (to a combined total of three); one course in American literature before 1900; two courses in twentieth century literature; four courses in creative writing; and one elective.

English 34 is the first of the creative writing courses to take, and will be the prerequisite for any other work in creative writing, except for those who have already taken English 94. To enter English 34 a student will submit a manuscript and consult with the instructor. Students may of course take English 34 who do not plan to do further work in creative writing.

After a student has completed English 34, normally the next creative writing course to take is English 94. Admission to this course will be determined by the departmental creative writing committee, and will constitute acceptance into the creative writing major plan.

After completing English 94, a student may take Independent Study in creative writing, or take 94 for credit again, or take special topics or seminar courses that may be offered in creative writing.

It is recommended that one of the two required courses in 20th century literature should be in foreign literature, either in translation or in the original language. English 29 may be taken for this, or a course in a foreign language department. (The major plan of a student taking a course in a foreign language department for this requirement will show ten courses in English and one supporting course in the other department.)

Students should give high priority to participating in a program for teaching creative writing — perhaps during Interim — as a means to further insight into the writing process: e.g., an Outreach or Poetry-in-the-Schools program.
Certification to Teach
Those who plan to teach English as a major subject in secondary schools must include English 91 as one of the eleven courses. Beyond these courses they must also take Speech-Dramatic Arts 36 and either Speech-Dramatic Arts 20 or 30, and the required courses in Education.

For a teaching minor in English, there are the same requirements in Speech-Dramatic Arts and Education, but only five English courses are required. These must include English 91 and may include English 18.

Core Concentrations
I. Basic Core Concentration in English.
Six courses in English and six from one or two other departments. The six courses in English may not include 18 and shall include: one course in British literature before 1660; one course in British literature 1660-1900; one course in American literature before 1900; and one course in American and/or British literature of the 20th century. Certifying teachers must also take 91 as one of their courses.

The six supporting courses must come from one or at the most two related departments. The student is required to present a written rationale for these supporting courses before his core plan is approved by his adviser and the department.

II. American Studies Core Concentration in English
(Mrs. Kane, adviser)
Six courses in American literature 50 or above, including 51, 52, 53. Three of these six courses must be taken during the junior and senior years.

The six supporting courses must include three American history courses and three other courses in American culture selected from such departments as Art, Geography, Journalism, Political Science, Sociology and Anthropology, and Philosophy.

III. British Studies Core Concentration in English
(Mr. Baer, adviser)
Six courses in British literature from one of the following epochs: A. Medieval through Renaissance; B. Renaissance through Romantic; C. Mid-18th Century to the present; together with six supporting courses relevant to the epoch of British literature selected. The six English courses must be chosen from one of the following groups: A. 25, 60, 61, 62, 71, 72, 75, 91; B. 26, 55, 61, 62, 63, 64, 65, 66, 72, 75, 91; C. 26, 27, 28, 30, 55, 56, 64, 65, 66, 91. When the topics are appropriate, English 31, 50, 97 and 98, and work in independent study may be included in these sequences.

The six supporting courses must be composed of: one course in European history; one course in the literature of France, Spain, Germany, Russia, or the Classical World; and four courses with appropriate topics from Art, Philosophy, Political Science, Geography, Music, Humanities, Religion.

18. Literature and Writing
Sections are organized by the instructor around a topic which will be described in advance of registration. Emphasis on composition. May be taken twice for credit, but counts only once toward an English major. Does not count for a Core Concentration in English.

21. Literature in Critical Perspectives
Study of selected poems, plays and fiction from the perspectives of several critical approaches — social, psychological, formalistic, and archetypal. Study of models of these critical approaches by practicing critics, and the writing of several types of critical papers. Especially recommended for freshmen and sophomores considering a core or major in English.

23. American Writers
Intensive study of important figures in 19th and 20th century American literature. May count as an elective for the major or the Basic Core Concentration, but does not fulfill the specified requirements in American literature for any major or core in English.

24. Modern Dramatic Literature
Study of the most important late 19th century and 20th century world drama.

25. Survey of English Literature
The historical development of English literature from its beginnings through Milton.

26. Survey of English Literature
Continuing English 25 to the early 20th century.

28. Twentieth Century Poetry: British and American
Reading lists are selected by the instructors and posted in advance of registration.
29. Major Continental Literature of the Twentieth Century
   Same as Humanities 29. Modern European works translated into English.

30. Classics of Modern Fiction
   Reading of selected novels and short fiction, chiefly by such major
   American and British writers of fiction, 1900-1950, as Conrad, Joyce,
   Lawrence, Wharton, Faulkner, Hemingway, Fitzgerald, Woolf,
   Mansfield, Wright, Ford, Forster, Huxley, etc.

31. Studies in Modern Fiction
   Examination of 20th century fiction, chiefly British and American,
   with emphasis on particular themes, techniques, and practitioners
   not necessarily included among the more representative readings in
   English 30.

33. Advanced Rhetoric
   Study of recent work in grammar and rhetoric as applied to
   expository and persuasive writing.

34. Creative Writing
   Techniques of creative writing, including study of prosody, analysis
   of model literary works, and frequent writing exercises. Instructor's
   permission required.

45, 46. Independent Study for Freshmen and Sophomores
   Permission of instructor and department committee required.
   See policy statement under 95, 96.

50. Topics
   The subject matter of this course, announced in advance of
   registration, will vary but will not duplicate the content of any
   other course.

51. Early American Literature
   From colonial times through Melville and Whitman.

52. American Literature of the Gilded Age.
   From Mark Twain through Stephen Crane.

53. American Literature of the 20th Century

54. Afro-American Literature

55. The Novel
   Various manifestations of longer fiction to the early 19th century.

56. The Novel
   Continuing 55 to the early 20th century.

60. Old and Middle English Literature
   Exclusive of Chaucer, read either in translation or in normalized texts.

61. Elizabethan Literature
   Non-dramatic literature centering in Spenser's Faerie Queene.

62. The Early 17th Century
   The non-dramatic literature of the Stuart and Commonwealth periods.

63. The Age of Satire
   Dryden, Swift, Pope and their contemporaries.

64. The Mid and Late Eighteenth Century
   Literature from Fielding to Blake.

65. The Romantic Period
   The major poetry and selected prose of the period.

66. The Victorian Period
   Major writers from Tennyson through Hardy.

71. Chaucer

72. Shakespeare

75. English Dramatic Literature to 1642
   English medieval, Elizabethan, and Stuart drama, emphasizing such
   contemporaries of Shakespeare as Marlowe, Ben Jonson, and John
   Webster.

91. The English Language
   A historical and descriptive approach to Modern English.
   Required of all teachers certifying in English.

92. Criticism
   The history, theory, and application of criticism in literature.

94. Advanced Creative Writing
   Emphasis on either poetry, fiction, or drama. Prerequisites: English
   34 and permission of creative writing committee.

95, 96. Independent Study for Juniors and Seniors
   Permission of instructor and department committee required.
   Opportunities for Independent Study (English 45, 46; 95, 96) with
   one or more members of the department supplement the regular
   course offerings. Such study is not a substitute for course work, but
   a chance to extend genuine interests beyond the scope of the
   existing curriculum, where it is evident that an individual is
   qualified to independently accomplish the task proposed. When
   appropriate, students may outline a program involving
   interdepartmental work with willing faculty members from both
   English and other departments. Typical activities include:
   examination of an author or authors not fully covered by regular
   courses; research into particular (sometimes highly specialized)
   aspects of a literary period; the writing of a lengthy thesis;
pursuance of creative writing projects (ordinarily after completion of English 34 and 94); involvement in community or career-oriented programs outside the college that relate in one way or another to English skills.

97, 98. Seminar
Topics and prerequisites to be announced in advance of registration.

FRENCH
Mr. C. Johnson, Mr. P. Lee (on leave 1973-74), Ms. Peters, Mr. Sandberg (Chairman), Miss Schubert, Mrs. Wolsey

Objectives
The French Department has a triple objective: a) to prepare competent majors and cores in French language, culture and literature, b) to provide the kinds of language training needed by non-French majors for study in their own fields, for travel, or for future professional needs, c) to provide the broadening knowledge of a new language and culture which has traditionally been a part of the liberal arts education.

Career Orientation for French Majors
Recent French majors from Macalester have made careers in various fields such as foreign service, international banking and commerce, library science, publishing, special education, and teaching French. Others have gone on to professional schools or to graduate programs of French language and literature, linguistics, or teaching English as a second language.

Students are encouraged to supplement their concentration in French with cores in other fields. Such complementary specializations will widen the range of career opportunities.

Major Concentration
A major concentration in French consists of eight courses beyond 31, to include: a) one advanced language course (from the 50 listings), two literature courses (from the 70 listings), b) two courses in civilization, arts, and cultural or intellectual trends (from the 60 listings), and d) a senior project completed during the senior year, either as an independent course or within the framework of an existing course. The remaining courses may emphasize language or literature, according to the interests of the student.

In addition, the student will choose four supporting courses according to the needs of his program. Those strongly recommended are: a) for those students who intend to teach French — courses in linguistics, a second language, English, humanities, or history, b) for those students who are going into government work, business or allied fields — supporting courses in political science, history, economics, geography.

Strongly recommended is the Study Abroad Program (see below).

Core Concentration
The core plan consists of six courses beyond 31, among which are included: a) for those specializing in language skills, two advanced language courses (from the 50 listings), a civilization course, a literature course, and a senior project; b) for those specializing in literature, an advanced language course (51 or above), a civilization course, two literature courses and a senior project.

For either of these patterns six additional courses are to be chosen from outside the department with the approval of the advisor and the department(s) concerned. Some acceptable patterns would be:

1. Six courses in a second foreign language beyond the elementary level.
2. Six courses in the humanities and fine arts.
3. Six courses in English literature beyond the freshman level.
4. A combination of (2) and (3).
5. Six courses in history, political science, geography which are relevant to France and/or the study of the French language.
6. Six courses from a group in the comparative arts, with at least one from each of the following: art history, music, philosophy; the three other courses may be chosen from religion, speech, humanities or English literature.

Study Abroad Program in Paris-Avignon, France
This program lasts six to eight months, with a January orientation — Interim Term in Paris, the Spring Term in Avignon, and a summer open to student travel/work options.

Direction is by Macalester faculty jointly with the Institute for American Universities and the University of Avignon. Course offerings are in French language and literature and other fields, e.g. linguistics, geography, art, German, Italian, history, philosophy and government and are taught by French university professors. The program is open to students
with two courses beyond French 32. Participants need not be French majors. While in France the students attend regular university classes with French students and live with local residents. The courses will transfer as regular Macalester courses (four courses per term and one interim course). No more than two courses will be counted toward the French major, normally. They cannot be substituted for the following courses: 51, 63. The French major will have to take, on campus, any additional courses necessary to meet the departmental graduation standards at the end of his senior year.

Senior Examinations
Majors and cores are advised to take the Graduate Record Examination and are required to take a written-oral examination, testing general language skills and the synthesis of the materials in the program of the individual concerned. The senior examination will also require familiarity with the works on a basic departmental reading list, available on request at the departmental offices. Independently from the Honors program, students whose overall work in the College and in French warrant the designation "with distinction in French" will be graduated as such.

Honors Program
For students accepted into the Honors program, any of the advanced courses in literature may be taken as Honors courses if additional Honors work is done. French 95, 96, and Independent Study may also be adapted for Honors work.

Students should consult with the department chairman to work out details of their own programs, which will be arranged to suit their individual needs.

To receive departmental Honors in French, a student must complete satisfactorily at least three Honors courses and present a thesis showing independent and original work.

Placement Tests
Students who have studied French before and desire to continue it should plan on taking the placement tests given during orientation week so that they may begin at the appropriate level.

11, 12. Elementary French
Pronunciation, elementary conversation, reading and essentials of grammar. A course which utilizes the audio-lingual method. Extensive study time in language laboratory necessary. French 11 is offered in the Fall and French 12 in the Spring.

21, 22. French for Reading Knowledge
This sequence is designed for students in the arts and sciences for whom a reading knowledge of French is necessary either now or in graduate school. No attention is given to speaking or writing. The student is introduced to the sound system of French. French 21 presupposes no previous acquaintance with French. French 22 is intended for students who have some background in French. Fall and Spring terms.

25. Introductory Conversation
Intensive practice of conversational French for students planning to travel, work or study abroad. Speaking and understanding are emphasized, with only slight attention given to reading and writing. Students with a basic oral facility in French should register for French 31, 32, or 51.

31. Intermediate French: Reading and Speaking
While giving some attention to aural comprehension and writing, this course will give primary emphasis to the consolidation and development of the skills of conversation and reading. Prerequisite, French 12 or placement test, or consent of instructor. Fall term.

32. Intermediate French: Usage and Written Expression
Continues to develop the skills of speaking and reading, but gives special emphasis to the kind of writing and aural comprehension necessary to use French as a medium of instruction. Includes training in analyzing and writing about literature. Prerequisite, French 31 or placement test, or consent of instructor. Fall and spring terms.

45, 46. Independent Study

50. Topics.
Special courses organized according to student interest. See departmental announcement of courses intended for the forthcoming term.

51. French Conversation
Intensive training in oral usage and phonetics. Study of special grammatical patterns. Small conversation groups with natives. Four hours a week, daily laboratory work. Prerequisite, French 32 or equivalent. Fall and Spring terms.

55. Advanced Oral and Written Usage
Special problems of phonetics and stylistics. Four hours a week,
laboratory work and weekly session with a native tutor. Prerequisite, French 51 or equivalent. Fall term.

63. France in the Twentieth Century
French society, French culture and art, French life; their structures, their relationships, how they function within an historical, geographical and aesthetic framework. Students may select an area of interest and pursue independent projects in consultation with instructor. Four hours a week. Prerequisite, French 32 or equivalent. Fall term. (Formerly French 53)

68. Art and Ideas in French Culture
The course will study the idees maitresses of French society from the medieval period through the 19th century in their cultural and historical settings (e.g. the cathedral schools, the salons, the cafes), and it will examine the relation of these ideas to the art, architecture and music of the various periods. Lectures and readings will be in English, with discussion sections and readings in French for French majors. No prerequisite.

75. The French Theatre
The form, spirit, and technique of theatre as seen in plays from the medieval period and in the works of such major French dramatists as Corneille, Racine, Moliere, Beaumarchais, Musset, Anouilh, Claudel and Giraudoux. In French. Prerequisite, French 32 or equivalent.

76. Contemporary Trends in French Literature
A study of selected trends in 20th Century Literature studied with their cultural background:

Surrealism and Cubism: from Apollinaire to Aragon
The human condition: man's fate from Malraux to Bernanos
The theatre of the absurd and of violence from Ionesco to Arrabal
The new novel: Alain Robbe-Grillet et al.

In French. Prerequisite, French 32 or equivalent.

77. The French Novel
The French novel as a medium for social comment, psychological analysis and philosophical statement. The development of the genre from its medieval beginnings to modern times. Novelists to be studied include Mme de Lafayette, Diderot, Laclos, Balzac, Stendhal, Flaubert, Zola, Gide and Proust. In French. Prerequisite, French 32 or equivalent.

78. French Poets and Poetry
The experience of poetry and its expression in major French poets from Villon to the present, including Ronsard, La Fontaine, Hugo, Baudelaire, the Symbolists, Claudel, and Valery. The relationship of poetry to religion, psychology, and philosophy will also be studied. In French. Prerequisite, French 32 or equivalent.

95, 96. Independent Study
Advanced students may undertake individual projects involving library or laboratory research with a comprehensive report or thesis. Prerequisite, junior or senior standing, departmental approval. Either term.

GEOGRAPHY
Mr. Crott, Mrs. Johnson (Chairman), Mr. Knuth, Mr. Lanegran, Mr. Pitzl, Mr. Satterthwaite
The Department of Geography aims to provide students with a meaningful knowledge of peoples in their different physical surroundings, of world distribution of geographical systems and of economic and cultural change. The department seeks to promote the ability to master geographic concepts and the critical and intelligent use of geographic tools, particularly maps. Field work is an integral part of certain courses. The core and major programs are adjusted to the students' needs: (1) To become liberally educated citizens without specific vocational goals in geography, (2) To become teachers in elementary or secondary schools, (3) To prepare for admission to graduate schools, (4) To begin without further training professional work such as in planning, in federal agencies, in business and industry.

The Department offers all basic topical courses such as human, urban, economic, and physical geography, three regional courses of developed and underdeveloped regions and maintains a well-equipped cartographic laboratory. The Department participates in several interdisciplinary programs. See International Studies Program, Social Science Program, Latin-American Studies Program, Environmental Studies Program, and Area Studies.

General Graduation Requirements
All courses but Geography 25, 26 and 55 may be used to fulfill the general graduation requirement in social science. Human Geography best serves the needs of students in fields other than geography as a general course and is required as a preparation for courses in geography numbered above 50 except 52, which has no prerequisite. Courses before 50 are open to all students without prerequisites.

Major Concentration
A major concentration consists of seven courses and must
normally include Geography 11, 25, 26, two regional geography courses or one regional geography course and urban geography or one regional geography course and economic geography, senior seminar, and one field course. The student will complement his course of study with a view toward his vocational goals in consultation with the adviser and pursue an individualized course of study with reference to three major types of concentration, i.e., regional/cultural; urban/cultural; and physical/environmental. Suggested course sequences are available in the Department.

Students are urged to avail themselves of the various opportunities offered by the College for travel and study abroad and to acquire some facility in a foreign language or statistics as it pertains to their interest.

Core Concentration
A core concentration in Geography consists of six courses in Geography which must include Geography 11 unless the student is excused by the chairman of the Department and six complementary courses selected by the student in consultation with the adviser and in consideration of his vocational goals, particularly in the field of teaching.

Honors Program
The Honors program in Geography must include at least two courses numbered 95-98. Folders explaining thesis requirements in Geography are available in the department.

Further Preparation
To meet requirements for graduate study, a student with a major or a core concentration in Geography should select supplementary courses from the social sciences, the natural sciences and the humanities and fine arts in consultation with the department chairman.

11. Human Geography
Introduction to the basic concepts and fundamental questions of geography. Major topics covered will be human perception of earth space and spatial ordering systems; the growth and distribution of human population, the localization and functioning of primary circulation systems on the surface of the earth; human ecology and man's perception of his environment; principles of the analysis of spatial diffusion. Fall and Spring terms.

25. Cartography
Designed to develop basic skills and logic in preparation of maps. Assignments center on the representation of qualitative and quantitative data. Fall and Spring terms.

26. Physical Geography
Human land use and settlement patterns in their physical environment. Weather and climate, micro-climatology and pollution, water-balance, soils and vegetation, on local and world regional scales. Landscape erosion (Geomorphology) with particular emphasis on Anglo-America. Field trips to contrasting environments in local region. Map and air photo laboratory sessions. Spring term.

40. Europe Including U.S.S.R.
General regional characteristics of the physical environment; the distribution of population and resources and the patterns of circulation. Forces underlying the unity and diversity of cultures and economies; regional differences in the stages of economic development. Political and economic geography of the Common Market, Efta and Comecon. American and Soviet interests in Europe. Emphasis on those countries of students' regional and language interests. Not offered 1973-74.

41. Urban Geography
A discussion of the phenomena of urbanization in relation to patterns of circulation and distribution of resources. Study of models and theories useful in urban geography and their relation to the contemporary city with focus on the Twin Cities and their hinterland. A survey of major world cities. An examination of problems confronting cities and attempts at their solution. Field work required. Fall and Spring terms.

44. Economic Geography
Agricultural and industrial resources, trade patterns, phenomenology of location and dynamics of transportation. Resource attitudes and resource management. Fall term.

45, 46. Independent Study — Lower Division

50. Topics in Geography
Examination of special topics of interest to faculty and students, such as a study of the processes by which the spatial environment is mentally organized by man, geographical problems in economic development, etc.

52. Indian Americans and their Environment
The current and past conditions of Indian American land use and settlement on and off reservations. Attention given to controversies involving Indian claims to lands and resources based on historic and pre-historic precedents Not offered 1973-74.

53. Africa
The basic geographic features of Africa including climate, soils,

54. Latin America
A seminar focusing upon the major man-land relationships in selected regions including agriculture, the distribution of settlement, the process of urbanization, internal migration, and the use of mineral resources. Pre-historical and historical development of spatial patterns discussed as important background to contemporary problems. Spring term. See Latin American Studies.

55. Advanced Physical Geography: Environmental Management
Elements of weather and climate and their basic controls; mechanisms of the general circulation of the atmosphere; weather disturbance in middle latitudes; description and analysis of climatic types. Fall term.

56. Urban Field Course
A research methods course in which students will conduct an individual inquiry in one of the following sub-fields of Urban Geography: spatial structure of urban areas; spatial interaction; problems of economic localization; problems of environmental quality and factors in intra-urban residential mobility. All work is expected to be focused within the Twin Cities Metropolitan Area or other accessible locations. Students will be expected to participate in group projects and to complete an individual study which may produce either a written report or a map. Spring term. Prerequisite, Geography 41.

64. Political Geography

65. Historical Geography
The genesis of American landscapes. Emphasis on the Middle West and settlement geography. Field trips and individual projects. Fall term.

95, 96. Independent Study — Upper Division
For geography majors only. The history of geographic thought and methods is studied through individual reports and papers. Fall term.

97, 98. Senior Seminar
For geography majors only. The history of geographic thought and methods is studied through individual reports and papers. Fall term.

GEOLOGY

Mr. Lepp (Chairman), Mr. Southwick, Mr. Webers (on leave
Spring term)

The introductory courses in Geology (Geology 11 through 22) are designed chiefly for the non-science major. These courses seek to provide the general college student with an appreciation of the scientific principles and techniques that are used to investigate planet Earth, and to inform him about the composition, materials, major processes, and history of our planet.

The major program in Geology is aimed chiefly to prepare students for graduate study which is a prerequisite for most professional work in geology. Although the regular departmental major is designed for students planning careers in Geology, special programs involving further training in Biology, Chemistry, Physics, or Mathematics are available for students interested in entering fields such as Geochemistry, Geophysics, Oceanography, Paleontology, or Astrogeology.

In recent years there has been a marked upsurge in the demand for secondary school teachers of Earth Science. The core concentration in Geology is most often selected by students wishing to enter this field.

General Graduation Requirement
Students wishing to fulfill the general graduation requirement in science should take Geology 11 or 14.

Major Concentration
The major concentration consists of the following courses: Geology 11 or 14, 12, 31, 32, 36, Mathematics 21 or 14, Chemistry 11, 12 plus two courses in either Biology or Physics. In addition, students will be expected to select at least three electives in geology. Students planning careers in fields such as geology, geophysics, oceanography or geology may substitute advanced courses in biology, chemistry, physics or mathematics for some or all of the geology electives. Some proficiency in a foreign language (German, Russian or French) is recommended for students anticipating graduate work in one of the earth sciences.

Core Concentration
The core concentration consists of six courses in geology and six courses from a related field or fields. The core concentration is particularly suited for prospective secondary school Earth Science teachers. Students planning to enter this field should take Geology 11 or 14, 12, 31, 32, 36 plus one geology elective and six courses from three or more of the following: astronomy, biology, chemistry, geography, mathematics or physics. Other core combinations are available. All require departmental approval.
Honors Program
Qualified students are urged to apply for admission to the Honors program at the beginning of their junior year. Honors students are required to complete at least one term (Geology 95, 96) and one interim term of independent research and to participate in the senior seminar (Geology 98). Students frequently devote one summer to field or laboratory work related to their Honors thesis. For further details on the Honors program consult the department chairman.

Further Preparation
Students preparing for graduate study in the Earth Sciences should select additional courses in mathematics, biology, chemistry or physics chosen in consultation with the department. A course in physical chemistry is strongly recommended. A summer field camp or one or more summers of field experience in the mining or petroleum industry is frequently a requirement for admission to graduate programs in geology. Consult with the department chairman for recommended field camps or for possible summer employment in geology.

11. Physical Geology
Materials and structure of the earth. Processes acting on and in the crust of the earth to produce change. Origin of landforms. Three hours lecture and two hours laboratory per week. Local field trips. Fall and Spring terms.

12. Historical Geology
Origin of the earth and solar system, physical history of the earth, particularly of North America, and history of life on earth. Three lectures and two hours of laboratory per week. Field trip. Spring term.

14. Earth Science
Similar to Geology 11 but with a more multidisciplinary emphasis on the earth as a planet. Topics include: motions of the earth, its materials and structure, internal and external earth processes, movements of the atmosphere and oceans, the sun as an energy source, evolution of landforms, comparison of Earth with other planets, its environment in space, its physical history and probable origin. Three hours lecture and two hours laboratory per week. Fall term. (Students may not take both Geology 11 and 14.)

15. Oceanography
An introduction to the marine environment covering such topics as the heat balance of the seas, oceanic circulation, the composition, configuration and origin of the sea floors, geochemical cycles, history of sea water, and marine ecology. The role of the oceans as a potential source of food and raw materials will be investigated.

22. Water Resources
Analysis of the hydrologic cycle, including study of precipitation, runoff, evapotranspiration, infiltration, and groundwater flow. Physical and chemical properties of water. Water pollution studied from a scientific (rather than political) viewpoint. Problems of water management. Alternate years.

31. Mineralogy
Crystallography and crystal chemistry. Physical and chemical properties and occurrence of the common minerals. Identification of minerals in hand specimen, microscopically, and by X-ray diffraction. Prerequisite, one course in chemistry and consent of instructor. Three hours lecture and four hours laboratory per week. Fall term.

32. Structural and Field Geology
Primary and secondary structures of rocks, mechanics of rock deformation. Use of orthographic and stereographic projections in solving structural problems. Introduction to mapping techniques. Three hours lecture and four hours laboratory per week. Prerequisite, Geology 12.

36. Stratigraphy and Sedimentation
Principles of stratigraphy and sedimentation and their application in the interpretation of sedimentary environments. Classification and origin of sediments, sedimentary structures, diagenesis, index fossils and depositional environments. Three hours lecture and two hours laboratory per week. Prerequisite, Geology 12 or consent of instructor.

45, 46. Independent Study

50. Topics in Geology
Topics of current interest in geology. The topic for discussion during a given term will be announced prior to registration. Prerequisite, consent of instructor.

51. Paleontology
Taxonomy, morphology, paleoecology and evolution of both vertebrates and invertebrates. Use of fossils in stratigraphy and as indicators of paleoenvironments. Prerequisite, Geology 12 or consent of instructor. Three lectures and one two-hour laboratory per week. Local field trips and one all-day field trip to southern Minnesota.

61. Geomorphology
Origin and evolution of landforms. Effects of climate, rock type and structure on landscape development. Study of soils. Stream mechanics. Glacial effects. Physiography of the U.S. studied with...
Aerial photographs and topographic maps. Prerequisite, Geology 11. Three hours lecture and two hours laboratory per week.

65. Petrology
The origin and occurrence of igneous, sedimentary, and metamorphic rocks. Introduction to experimental phase equilibria studies with applications to natural systems. Geochemistry of element distribution in the crust. Use of the petrographic microscope in the study of rock thin sections. Prerequisite, Geology 31. Three hours lecture and four hours laboratory per week. Alternate years.

67. Economic Geology
Occurrence, characteristics and origin of mineral deposits. Factors controlling the distribution of elements in the earth's crust. Relation of mineral deposit theory to problems of mineral economics, discovery and evaluation of deposits. Field trip to mining regions. Three hours lecture and two hours laboratory per week. Prerequisite, Geology 11 and consent of instructor. Alternate years.

95, 96. Independent Study
Independent study of geologic problems or preparation of senior research thesis. Prerequisite, junior standing and consent of department. Either term.

98. Senior Seminar
Reports and discussion of senior thesis projects. Review of major topics in geology. Prerequisite, senior standing and consent of instructor.

GERMAN
Mrs. Albinson (on leave Fall term), Mr. Clark, Mr. Dye, Mr. Gritsch, Mr. Sorensen (Chairman, on leave Spring term), Mr. Westermeier
The purpose of the major sequence is to equip the student with language skills necessary to the study of German literature and culture, to study significant literature in original texts, and to prepare him to teach the language and/or to continue the study of the literature and language in graduate school.
In Elementary, Intermediate and Conversation courses use will be made of the Foreign Language Laboratory.
Students who have advanced somewhat in their German studies are encouraged to live during one of their undergraduate years at Macalester’s German House, which also serves as a focal point for the department's social activities.
Beginning in 1969, between 12 and 16 students have participated each year in Macalester’s German Program Abroad, open to non-majors as well as majors. Students who possess the requisite background (competence in the language equivalent to at least courses 32 or 42) are encouraged to participate in the program, which includes summer study (usually at a Goethe Institute) followed by Fall and Interim terms at the University of Vienna.

Major Concentration
A departmental major in German shall consist of a minimum of nine courses beyond the elementary level (German 11 and 12 or their equivalent). Students who place initially above the intermediate level need eight courses to complete a major. For those seeking secondary certification, the State of Minnesota recommends ten courses beyond the elementary level. A major shall include 31, 32 or 42 (or their equivalent), 47 and 51. At least four supporting courses to be chosen according to the vocational interests of the student are recommended.

For majors intending to teach, the department strongly recommends German 49, 58 and at least three additional courses from those numbered 50 and above.

For majors planning graduate study, German 60, 62 and at least three additional courses from those numbered 50 and above are strongly recommended.

Core Concentration
A core concentration shall consist of a minimum of six courses: German 31 and 32 or 42 (or their equivalent) and at least four additional courses (five are strongly recommended for those seeking secondary certification with a German minor) from those numbered 47 or above. For students interested in teaching, the core concentration should also include German 47 and 51.

Senior Project
The German Department strongly encourages its majors to undertake a project in their senior year on a topic related to their educational or vocational goals. The senior project would be registered for under German 95 or 96 (Independent Study) and involve the following possible areas:

1. Pedagogy
2. Language
3. Literature
4. Interdepartmental study

A senior major may also elect to take a departmental
comprehensive examination or the Advanced German Test of the Graduate Record Examination.

The projects will be evaluated by the departmental faculty and the evaluation made part of the student's permanent record. Those students whose projects or examination results, together with their overall work in the college and in German, warrant the designation "with distinction in German" will be graduated as such.

Honors Program
Students interested in the Honors Program should consult the department chairman.

10. Basic Conversational German
A one-semester, accelerated course in everyday German with grammar learned inductively. Those who perform in a superior manner may pass into 29 or 31 with permission of the instructor. Spring term.

11, 12. Elementary
Essentials of grammar, elementary conversation and reading. For beginning students in German. Four class hours a week plus laboratory periods.

29. Prose Readings in German
Reading material from the various sciences and the humanities forms the basis for a study of vocabulary and translation techniques. The student will be required to translate as his major project an article of professional caliber in his field. An alternative to German 31. Prerequisite, German 12 or the equivalent. Four hours a week. Fall term.

31, 32. Intermediate
Grammar review, conversation and selected readings in classical and modern German texts. Students with two or three years of high school German will be admitted after satisfactorily passing a qualifying foreign language examination. Prerequisite, German 12 or the equivalent. Four hours per week plus laboratory periods.

41. German Literature in Translation
Designed for non-majors, this course will involve a particular author or literary movement of significance in world literature.

42. Conversation and Composition
Special emphasis placed on pronunciation, general audio-lingual proficiency and the improvement of writing techniques. An alternative to German 32. Prerequisite, German 29 or 31 or equivalent. Four hours a week. Spring term.

47. Introduction to German Literature
A transitional course between the intermediate level and advanced literature classes. An examination of the main literary genres through the reading of representative German texts. Prerequisite, German 32 or 42, or their equivalent. Fall term.

49. German Culture and Civilization
The development of German culture and its contribution to civilization of the present period in terms of social, historical, political, intellectual and artistic figures and events. Prerequisite, German 32 or 42 or their equivalent. Fall term alternate years.

50. Topics
The subject matter of this course will vary from term to term, depending upon instructor's interest and student desire. Prerequisite, German 47 or instructor's permission.

51. Advanced Composition and Conversation
Prerequisite, German 32 or 42, or their equivalent. Four hours a week. Fall term.

58. Advanced Grammar and Stylistics
Intensive study of the more sophisticated points of German grammar and style through translation into German of material from the works of major writers and the writing of critical essays in German on literary subjects. Prerequisite, German 51 or permission of instructor. Spring term alternate years.

60. Introduction to Germanic Philology
Fundamentals of comparative linguistics, phonetic and phonemic systems, the history of German from its Indo-European origins to the rise of New High German and German dialects. Prerequisite, one course numbered above 40 or permission of instructor. Fall term, alternate years.

62. Early Literature
Study of the various genres and their exponents from the beginning to the Enlightenment. Prerequisite, German 47 or permission of instructor. Spring term alternate years.

63. Age of Goethe I
Selected works from the Enlightenment, Sturm und Drang, and early Classicism. Prerequisite, German 47 or permission of instructor. Fall term.

64. Age of Goethe II
The later works of Goethe and Schiller, the works of Tieck, Wackenroder, Novalis and the Schlegels. Prerequisite, German 47 or permission of instructor. Spring term.

66. Nineteenth Century Literature I
Comprises the writings of the later romanticists and the major 19th
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century contributors to the Novelle and lyric poetry. Includes works by Hoffmann, Heine, Morike, Stifter, Keller, Storm, Meyer, Fontane and Hauptmann. Prerequisite, German 47 or permission of instructor. Spring term alternate years.

68. Nineteenth Century Literature II
The drama. Including works of Kleist, Grillparzer, Hebbel, Hauptmann and the early dramas of Schnitzler and Hofmannsthall. Prerequisite, German 47 or permission of instructor. Spring term alternate years.

70. Twentieth Century Literature
Selected readings of writers from Impressionism to the present. Prerequisite, German 47 or permission of instructor. Spring term alternate years.

95, 96. Independent Study
Prerequisite, departmental approval.

HISTORY

Mr. Armajani, Ms. Fairchilds, Mr. Fisher, Mr. Sandeen, Mr. Solon, Mr. Stewart, Mr. Trask (Chairman), Mr. Weisensel
The Department of History offers courses in the development of ideas and institutions in different eras and cultural areas. Courses in history contribute not only to general education but to the preparation of students for graduate education in history and allied fields, teaching, law, the ministry, international service and relations, library and archival work, the foreign service, research, and understanding of an individual's place in society.

General Graduation Requirement
History 10, 11, 14, 15, 16, 23 and 25 fulfill the requirement in social science. If properly prepared, a student with the permission of the instructor may elect a higher level course to fulfill the general graduation requirement.

Major Concentration
No fewer than nine nor more than eleven History courses and from five to seven supporting courses outside the History Department, selected in consultation with a student's History Department faculty adviser.

Core Concentration
Six courses in History and six additional courses in a related field, selected in consultation with a student's History Department faculty adviser.

American Studies
No formal American Studies program exists at Macalester, but department members are able and willing to assist students who wish to design a program in this field — either through a departmental major or core, or through the program of individually designed interdepartmental majors.

Honors Program
Highly qualified majors and cores, especially those planning on professional careers in History, are encouraged to apply for the departmental honors program. Interested students should consult members of the department.

Basic Courses
10. Western Civilization to 1789
A survey of European history from antiquity to the French Revolution, concentrating on three unifying themes: the role of the Christian church, the nature of Western preindustrial society, and the development of the nation-state system.

11. Modern Western Civilization
A survey of major issues and events of European history from the French Revolution to the present.

14. Introduction to East Asia
An introductory course in historical inquiry focusing on aspects of modern Japanese and Chinese history which exemplify major problems in historical research.

15. Islamic Civilization
A history of the Middle East from the advent of Islam till modern times, concentrating on Egypt, the Fertile Crescent, Iran, and Turkey.

16. Indian Civilization
An introduction to Indian civilization which will examine leading religious, philosophical, social, political, and economic institutions in India's long drama of history.

17. The Study of History
The nature and history of historical study and its relation to other disciplines, methodology, and practical exercises in historical research.

23. American Civilization
A topical analysis of United States history designed primarily for underclassmen who wish a general examination of significant periods and problems. Subject matter and teaching approach will vary widely from section to section, with section descriptions to be published in advance of registration. Among the approaches currently used are: Introduction to American Studies — develops a set of categories which seem useful in examining American culture and applies them to a variety of American creative writing from
Thoreau to Faulkner and Ellison; Biographies — a study of significant periods and events through the lives of representative Americans; and the Documentary approach, a series of topical inquiries and writing exercises based on primary documents. History majors and cores should not take History 23 more than once; other students may take two History 23 courses with specific departmental permission.

25. U.S. Racial History
An interpretive and chronological survey of white American attitudes, ideologies and practices with respect to black people in the United States, 1600 to the present.

Intermediate Courses

45, 46. Independent Study

50. Topics
Occasional courses, the topic to be announced in the class schedule.

51. Latin America
A topical study of the development of the Latin American republics from colonial times to the present.

52. The Middle East
The political, social, and religious institutions of Islam in Iran, Turkey, and the Arab world and their transformation in encounters with the West.

53. Modern China
A study of the leading institutions and movements in 19th and 20th century China.

54. Modern Japan
A study of Japanese history and culture from 1600 to the present.

55. Africa
A survey of Africa from earliest times to the present, followed by study in depth of selected topics.

56. Social and Economic History of the West Prior to the Industrial Revolution
A survey of the socio-economic history of the West focusing on the role of agriculture. Students will be encouraged to study the sources of modern Western economic supremacy.

58. Political and Institutional History of Medieval Europe
A survey of the development of political institutions in Europe from the Carolingian Empire through the end of the Hundred Years’ War.

59. Europe Since 1914
Political, economic, and social developments in Europe from the beginning of World War I, with emphasis on comparative history and international relationships.

61. Periods in U.S. Religious and Intellectual History
A survey of the literature and problems of the field covering the following periods in regular rotation: 1607-1800, 1800-1870, 1870-1920.

62. Periods in American Politics and Reform to 1890
Topical and chronological inquiries stressing the interplay of ideologies, political parties, social institutions, reform movements and wars in American history to 1890. The following periods will be taught in regular rotation, with each period taught once every two years: 1689-1800, 1789-1850, 1830-1890.

64. Urban History
A general survey of the field combined with analysis of specific topics such as the immigrant, the city boss, the neighborhood, and urban reform.

65. Studies in 20th Century U.S. History
This course will cover such topics as the 20th century presidency, social history since the 1920s, the Progressive era or the New Deal.

67. Studies in U.S. Diplomatic History
Designed to serve as an introduction to this field, the course will cover such topics as the development of the principles of U.S. foreign policy, the process of the rise of the U.S. to world power, isolationism, interventionism, collective security, and manifest destiny. Content may vary from year to year.

69. The History of Greece
A study of the political, constitutional, and cultural history of Greece from the earliest times to Alexander the Great. Special attention is given to the origins of Greek institutions in the Minoan-Mycenaean civilization (Late Bronze Age), the development of the city-state as a political unit and the height of democracy under Pericles, the Greek world of the fourth century, the rise of Macedonia and the expansion of the Hellenic world through the conquests of Alexander. (Same as Classics 69).

70. The History of Rome
A study of the political, constitutional, and social history of Rome from its beginnings to the disintegration of ancient civilization following its climax in the second century A.D. There will be emphasis on such large aspects of Roman history as the development of the Roman constitution, Rome’s conquest of the Mediterranean from the time of the Punic Wars to 133 B.C., the last century of the Roman Republic and the causes of its fall, the establishment of the principate, and the reasons for the decline of the Empire. (Same as Classics 70).

71. Britain
A reading course with few group meetings, bibliography to be determined by each student in consultation with the instructor.
Either broad general knowledge or topical investigation may be pursued.

72. French Revolution and Napoleon
Ideas and events at a crucial period in European history; emphasis on France from 1789-1815, and the origins of democracy and nationalism.

73. Modern France
The history of France from 1815 to the present; the internal development of the nation as well as the nation's external relationship. Not offered 1972-73.

74. Russia
The social, religious, and political institutions of Tsarist Russia and their transformation under Marxism during the Soviet period.

75. Germany
Analysis of major events, issues, personalities, and historiographical problems of Germany since 1871.

76. The Renaissance
A survey of Renaissance Italy in all its aspects.

77. The Reformation
A survey of the history of the revolution within the Christian church that dominated the history of the West and produced numerous religious wars between 1517 and 1648.

Advanced Courses and Seminars
Offerings in this division are designed to provide students the opportunity to follow individual interests and focus in depth on critical issues and particular periods. These classes will be limited in size to facilitate student-professor interaction and will include student research and reports. Titles of these courses will appear in the class schedule published by the Office of Student Academic Records. Subject matter can be determined by the instructor either on his own initiative or on the suggestion of a group of students. As prerequisite for these courses students should have completed the related basic course or have the consent of the instructor.

91. Studies in American History
Topical or chronological treatment of an area or region or of a special topic in intellectual, political, social, urban, or diplomatic history.

92. Studies in European History
Topical or chronological study in depth of major problems or areas such as Tudor-Stuart England, modern European intellectual history, socialist and labor history, and diplomatic history.

93. Studies in Non-Western History
Topical or chronological study of major problems or areas such as the Middle East or East Asia in the twentieth century, Western imperialism in the Middle East or East Asia, and the intellectual background of the Arab, Persian, Turkish, or Chinese Revolutions.

94. Special Studies
Topics which are not confined to a particular area or region, such as nationalism, philosophies of history, and imperialism and colonialism.

95, 96. Independent Studies
Conferences, research papers and reports based on independent work in the fields of history.

JOURNALISM
Mr. Moses (Chairman)
The Journalism Department offers four courses (16 semester credits), plus advanced independent study. Completion of the four courses will admit a student to most journalism graduate schools. Together with practical work on Macalester news media, it will qualify many students for a beginning position in journalism. Journalism courses are not open to freshmen.

57. News Reporting and Writing
Basic techniques in straight news, feature, interpretive stories. Fall term.

59. History of News Media and Media Law
Development of communications industry in U.S. and of laws and regulations governing it. Fall term.

64. The Press and Society
A study of the interaction between society and the press — especially newspapers, television and radio. Topics include the news media as opinion-shapers, the political use of television, the press and government, the public opinion polling industry, and the cultural environment of opinion and opinion change. Spring term.

68. Radio and Television News
Basic writing techniques for radio and television news; media relations with government; critique of electronic news and documentaries. Students will prepare newscasts under studio conditions with cameras and video tape playback for critiques. Prerequisite, Journalism 57, News Reporting and Writing. Spring term.
95, 96. Independent Study
Further study in fields of special communications interest. Offered by permission to a limited number of juniors and seniors. Either term.

MATHEMATICS
Mr. Braden, Mr. Kirch, Mr. Konhauser (Chairman), Mr. McLarman, Mr. A. W. Roberts, Mr. Schue, Mr. Ulmer
The Department of Mathematics offers courses in pure and applied mathematics for students with the necessary motivation and insight to prepare for graduate study in mathematics, for students preparing for elementary and secondary school teaching, for students majoring in the natural and social sciences, and for students who wish to acquire an appreciation of the spirit of modern mathematics. The department chapter of Pi Mu Epsilon, national mathematics honorary society, regularly sponsors guest speakers and student programs.

General Graduation Requirement
Mathematics 14, 15, 16, 18, 19, or 21 may be used toward the fulfillment of the graduation requirement in the natural sciences and mathematics. Course 11 may not be used for this purpose. Most entering students who are well prepared in high school mathematics and who wish to continue with mathematics in college will register for Mathematics 21. Courses 14, 15, 16, 18 and 19 are designed to meet special needs as stated in the course descriptions. Course 11 is designed for students who do not have adequate mathematical background to begin with course 19 or course 21. The need for this course as a prerequisite for either 19 or 21 will be determined by the College Board score or by a special pre-test in mathematics.

Major Concentration
Courses 21, 22, 33, and 34, or their equivalent, and courses 61 and 62 are required of all students majoring in mathematics. Two additional courses numbered 51 or higher are required and should be selected in consultation with a departmental adviser. Courses 56 and 70 may not both be counted in the minimum requirement of eight courses for the major.

A written examination on elementary mathematics including the elements of linear algebra and differential equations will be given during the first week after spring vacation. This examination is normally taken by students in their fourth term and roughly covers the content of Mathematics 21, 22, 33, and the part of 34 covered up to spring vacation. The questions will not necessarily be confined to the specific topics covered in these courses. A list of topics to be covered by the examination will be furnished to the student before the end of the first term. This examination is regarded as a qualifying examination for a major in mathematics. Students who do not pass it in their sophomore year may take it again in their junior year. The examination must be passed with a satisfactory grade before a student is permitted to graduate with a major in mathematics.

In his senior year, each student majoring in mathematics and not in the Honors program is required to prepare a paper which is of such a nature as to require the student to draw together the ideas from several courses. This paper may be done in connection with a current course that the student is taking or with a course taken previously, but it may not count as one of the Interim term courses. This paper may be presented to the Department either in typewritten form with due regard for punctuation and literary style, or it may be presented orally before the staff members of the Department.

Students who are preparing to teach mathematics in the secondary schools are required to include courses 51, 54, 56, 61 and 62 in their program of upper level courses in order to meet Minnesota requirements for certification.

A student preparing for graduate work in mathematics should include courses 61, 62, 81, 83, 84, 97 and 98. Those majors who have consistently demonstrated a high level of achievement in mathematics and have prepared an exceptional senior paper will be recommended for graduation “with distinction.”

Core Concentration
The core concentration consists of six courses including 21, 22, 33, 34 and two upper level courses. In addition, the program should include six relevant courses in a related field or fields. In mathematics the core concentration should be elected only in such rare instances where the student's total program does not allow time for a full major. The program for preparing elementary teachers is one such instance where the core concentration is useful.
The same qualifying examination is required for the core concentration as for the major concentration. However the requirement of a senior paper is waived.

Honors Program
Qualified students are encouraged to enter the Honors program at the beginning of their junior year. Honors students are required to complete satisfactorily a minimum of three Honors courses and prepare a paper which must be defended successfully before an outside examiner. Honors courses may be any courses in mathematics numbered 51 or higher in which the student gains Honors credit by extraordinary treatment of the topics in the courses, the nature and extent of which have been mutually agreed upon, in advance, by student and instructor.

Further Preparation
It is strongly recommended that any student who wishes to prepare for graduate work or research in mathematics should obtain a reading knowledge of French, German, or Russian.

Placement Test
As a prerequisite to any courses in college mathematics, it is assumed that a student has taken at least two years of college preparatory mathematics, consisting of a year of algebra and a year of geometry or the same material in integrated courses. Scores on the College Board achievement test in mathematics (Level II, Intensive) will be used, when available, to place students at the proper level in their beginning mathematics course. Students who have not taken this test will be given a placement test prior to registration in mathematics courses.

11. Basic College Mathematics
College-level topics in algebra and trigonometry are emphasized. This course does not fulfill the graduation requirement in natural sciences and mathematics and should be taken only by students who desire further work in mathematics and who are not yet ready for Mathematics 19 or 21. Either term.

14. Introduction to Statistics
An introduction to the theory and applications of statistics, suitable for students in the physical, biological, and social sciences, and for liberal arts students in general. The course stresses both logical development and practical utilization. Topics include: probability distributions, descriptive statistics, sampling, testing of hypotheses, and correlation. Prerequisite, proficiency in intermediate high school algebra. Spring term.

15. Introduction to Computing
Designed to provide the student with the basic knowledge and experience necessary to use computers effectively in the solution of problems. Serves to develop an understanding of the concept of an algorithm, to train the student in two high-level languages (FORTRAN and, to a lesser degree, APL), and to acquaint the student with the basic characteristics and properties of digital computers. Problem-solving by computer is emphasized. Both numerical and non-numerical problems are treated. Prerequisite, three years of high school mathematics. Fall term.

16. Fundamental Mathematics
Designed for students in Elementary Education, but sufficiently broad in scope that it can be applied toward the graduation requirement in the natural sciences and mathematics. Topics include the nature of mathematical proof, number systems, algebraic systems, and sets. Prerequisite, proficiency in the elementary algebraic operations. Either term.

18. Finite Mathematics
Topics in logic, set theory, linear algebra, and probability, with particular emphasis on Markov chains, game theory, and linear programming. Concepts are developed using an intuitive rather than a mathematically rigorous approach. Prerequisite, reasonable background in high school mathematics. Fall term.

19. Calculus for the Social and Behavioral Sciences
Elementary differential and integral calculus with applications in statistics and probability. Emphasis is placed on the differential calculus of one or more variables, but some integral calculus is included. Applications to the social and behavioral sciences are given. Prerequisite, a satisfactory score on the College Board achievement test in mathematics (Level II). A student may not receive credit for both Mathematics 19 and 21. Spring term.

21. Analytic Geometry and Calculus
An integrated course in analytic geometry and calculus, open to students who have a strong background preparation in algebra and trigonometry. Prerequisite, a satisfactory score on the College Board achievement test in mathematics (Level II) or Mathematics 11. Either term.

22. Calculus
Further study of the differentiation and integration of functions of a real variable with applications in geometry and the sciences. Prerequisite, Mathematics 21. Either term.

25. Computers and Programming
Designed to familiarize the student with the basic structure and language of machines. Topics include computer structure, machine language, assembly language, data representation, addressing
techniques, discussion of the principal units of a digital computer, systems software. Prerequisite, Math 15 or consent of instructor. Spring term.

33. Linear Analysis
Introduction to linear algebra, including such topics as real vector spaces, subspaces, linear independence and dependence, geometric vectors, linear transformations, matrices, and determinants. Applications of linear algebra to differential equations, particularly linear differential equations. Prerequisite, Mathematics 22. Fall term.

34. Intermediate Calculus
Solid analytic geometry, vector analysis, multiple integrals, partial differentiation, applications to geometry and physics. Prerequisite, Mathematics 22. Spring term.

45, 46. Independent Study

51. Mathematical Statistics
An introduction to the theory and application of statistics, employing calculus where it is appropriate. Topics include: probability, descriptive statistics, sampling, estimation of parameters, hypothesis testing, and correlation. Continuous probability distributions are treated much more extensively than in Math 14. Prerequisite, Mathematics 34 or consent of the instructor. Spring term.

54. Modern Geometry

56. Foundations of Mathematics
Introductory treatment of the foundations of mathematics and of concepts that are basic to mathematical knowledge. Historical development of the logical structure of the main branches of mathematics, with especial attention to geometry, algebra, and analysis. Particular attention to deductive systems and their role in modern mathematics. Prerequisite, Mathematics 34. Fall term. Offered 1974-75 and alternate years.

58. Advanced Calculus for Applications
Topics of importance in many fields of applications, at a level that requires a background in elementary calculus. The main topics considered are vector analysis, Fourier series and integrals, ordinary differential equations, special functions, and partial differential equations of mathematical physics. Prerequisite, Mathematics 33 and 34. Fall term.

61. Linear Algebra
Vectors and vector spaces, matrices, systems of linear equations, determinants. Prerequisite, Mathematics 33. Fall term.

62. Abstract Algebra
Groups, rings, fields, and properties of number systems. Prerequisite, Mathematics 33 or 61. Spring term.

70. Advanced Logic (Same as Philosophy 70)
Procedures and findings of symbolic or mathematical logic. Prerequisite, Philosophy 40 and permission. Spring term. Offered 1973-74 and alternate years.

81. Theory of Functions of a Complex Variable
Algebra of complex numbers, analytic functions, the Cauchy-Riemann equations, Cauchy's theorem, the Cauchy integral formula, Taylor, and Laurent series, the residue theorem, and conformal mapping. Prerequisite, Mathematics 34. Spring term. Offered 1974-75 and alternate years.

83. Theory of Functions of a Real Variable (Course I)
Elementary set theory, the real number system, topology of the real line, metric spaces, continuity and differentiability of functions, functions of bounded variation. Prerequisite, Mathematics 34. Fall term.

84. Theory of Functions of a Real Variable (Course II)
Riemann-Stieltjes integrals, Stone-Weierstrass Theorem, infinite series including Fourier series, introduction to Lebesgue integrals. Prerequisite, Mathematics 83. Spring term. Offered 1974-75 and alternate years.

95, 96. Independent Study
Individual project including library research, conferences with instructor, oral and written reports on independent work in mathematics. Subject matter may complement but not duplicate material covered in regular courses. Arrangements must be made with a department member prior to registration. Prerequisite, departmental approval. Fall and spring terms.

97, 98. Topics in Mathematics
Seminar with the students and the instructor sharing the lectures. Subject matter varies from semester to semester and is usually in the field of special competency of the instructor. May be included in program of student more than one time. Prerequisite, junior standing and consent of the instructor. Fall and Spring terms.

MUSIC
Mr. Betts (on leave Fall term), Mr. Forner, Mrs. Frazee, Mr. Hammer (Chairman), Mr. King (on leave Spring term), Mrs. Lange, Mr. Stripling, Mr. Warland

The Department of Music offers courses for the following:
(1) those planning intensive study in performance,
musicology or composition within a strong liberal arts program; (2) those planning careers in secondary or elementary music education; (3) those wishing to increase general musical knowledge and appreciation as non-majors.

A careful balance is maintained between courses in theory, literature, history and performance. Special emphasis is given to creative work in composition.

All music courses with appropriate prerequisites are also available to students working primarily to increase their general knowledge and appreciation of music.

Any Macalester student may begin or continue private study on an instrument or in voice, and all students are invited to audition for Band, the Choirs, Orchestra, Pipe Band, Highland Dancing, and Chamber Music. Students who are taking a major or core concentration are expected to be taking private lessons and performing in one of the ensembles each semester. Fees for studio courses are described elsewhere in this catalog. It should be noted that students taking studio work during an Interim Term must arrange to pay the instructor, directly, a fee which will be agreed upon at that time with the instructor.

General Graduation Requirement
Music 10 will normally be used to satisfy the humanities and fine arts general graduation requirement. Other music courses, particularly Music 11, may also be used for this purpose, with permission of the instructor.

Major Concentration
Music 11 or a qualifying exam must be passed for entrance and further study in the program. Both Music 11 and Music 12 should be taken during the freshman year if possible, and certainly no later than the sophomore year, since these courses are prerequisite to most of the other required music courses. The history-literature sequence should begin no later than the Fall term of the student's junior year.

a. Major Concentration in Music: Music 11, 12, 23, 41, 42, 52, 53; one course from Music 24, 73, 61 or 92; two elective music courses; a minimum of six semesters of music lessons and four semesters of ensemble.

b. Major concentration in Music for Teacher Preparation: Music 11, 12, 23, 41, 42, 52, 53, 71, 72, 73; one course from Music 74, 90, or 76; a minimum of six semesters of music lessons and four semesters of ensemble. Education requirements include Education 40, 49, 51, 64 and/or 65. Note that: (1) Education 51 provides the secondary school music director with experience in applying teaching principles and procedures in secondary music instruction. (2) Music 71, 72 and 73 should be taken before the junior year. (3) In order to provide maximum time in music education courses, the student should elect to do practice teaching either Interim and Spring terms, or in the Spring term only, of the senior year. (4) A student interested in a Music Educator position (which entails teaching music only, at any level from kindergarten through twelfth grade) should elect to take Music 76 and plan to take one of the practice teaching courses at the elementary level and one at the secondary school level.

Core Concentration
Music 11 should be taken no later than the fall of the junior year. Core concentration: Music 11, 12; two courses in Music Literature and two additional music courses approved by the chairman; a minimum of four semesters of music lessons and two semesters of ensemble; six supporting courses outside the department, selected by the student and the department chairman.

Senior Projects
The Music Department will recommend to its outstanding majors that they undertake projects involving performance, composition or music research during their senior year. Projects will be evaluated by the music faculty and made a part of the students' permanent records. Those students whose projects, together with their overall work in the department, warrant the designation "with distinction in music," will be graduated as such.

Honors Program
The following courses may be taken as part of the Music Honors program: Music 23, 24, 41, 42, 52, 53, 74, 90, 92, 93, 95, 96, 97, 98. Other projects will be worked out by the student with his adviser and the department chairman.

Graduate Study
Students preparing for graduate study should continue their work in piano to a point that they can meet graduate school piano proficiency entrance requirements. In addition to
required courses, as many of the following as possible should be taken as electives: Music 24, 61, 91, 92, 93.

Department Activities
A variety of activities is open to all students, including productions involving surrounding area colleges, informal chamber music groups, specific performance assignments and student activities of the Music Educators National Conference (MENC).

Academic Courses
10. Music Appreciation — Bach, Mozart, Beethoven, Stravinsky
Featuring music of these four composers in the context of their cultural surroundings and in relation to other world cultures. Fall and Spring terms.

11. Theory I — Elementary Theory
Key and time signatures, scales, modes, intervals, primary chords, ear-training, sight-singing, elementary keyboard harmony. No prerequisite, but some musical skill is recommended. Fall term.

12. Theory II — Advanced Theory
Continuation of ear-training, sight-training, written and keyboard harmony through extended alteration of tertian harmony. Prerequisite, Music 11 or permission of instructor. Spring term.

23. Theory III — Contemporary Theory
Study of compositional techniques of 20th Century music with emphasis on analytical skills and composition. Prerequisite, Music 12. Spring term.

24. Composition
Preparation of original pieces for performance. Prerequisite, Music 23 or permission of the instructor. Spring term.

41. Music Literature I
A synopsis and general history of music's early development through 1650. Prerequisite, Theory II or permission of instructor. Fall term.

42. Music Literature II
The study and analysis of music written from 1650-1770. Prerequisite, Music Literature I and Theory II or permission of instructor. Spring term.

45, 46. Independent Study

53. Music Literature III
The study and analysis of music written from 1770 to the 20th Century. Prerequisite, Music Literature II or permission of instructor. Fall term.

54. Music Literature IV
The study and analysis of music written in the 20th Century. Prerequisite, Music Literature III and Theory III or permission of instructor. Spring term.

61. Principles of Vocal Pedagogy
Designed for serious voice students who intend to become choral directors or vocal pedagogues. Presents physiological and phonetic approaches to the teaching of singing, and will include such topics as vocal performance, comparative pedagogy, English, French, German and Italian diction, vocal acoustics and demonstration lessons, and anatomy and physiology of the voice. Offered 1973-74 and alternate years. Fall term.

71. School Music — Instrumental Methods I
Playing string and woodwind instruments, survey of publishers and methods. Class and laboratory sessions, conducting. Offered in 1973-74 and alternate years. Fall term.

72. School Music — Instrumental Methods II

73. Elementary Conducting
Introduction to conducting with emphasis on score preparation and beginning choral and instrumental conducting techniques. Prerequisite, Music 14 or equivalent and permission of the instructor. Offered 1972-73 and alternate years. Fall term.

74. Advanced Conducting — Choral
Study of choral conducting with emphasis on rehearsal techniques, diction, phrasing, literature for chorus and orchestra, and the organization and development of choral ensembles. Prerequisite, Music 73 or permission of the instructor. Offered 1972-73 and alternate years. Spring term.

76. Elementary School Music
Elementary school music literature. Organizing and directing music programs in the elementary school. Offered in 1972-73 and alternate years. Fall term.

80. Afro-American Music
A historical survey designed to treat the dual aspects of the Black musician's role of creating a new music and enriching the European based musical traditions of America by tracing the music of Black Americans from West Africa to modern times. Particular emphasis will be given to the socio-economic and political forces which greatly influenced Afro-American Music. Open to music majors and non-majors. Spring term.
90. Advanced Conducting — Instrumental
Study of problems related to score reading and conducting techniques for conductors of instrumental ensembles. Prerequisite, Music 73 or permission of the instructor. Offered 1973-74 and alternate years. Spring term.

91. Modal Counterpoint
Writing in the forms and employing the practices of the 16th Century. Prerequisite, Music 14. Offered 1972-73 and alternate years. Fall term.

92. Orchestration
The study and practice of scoring instruments for orchestra and band. Transposition, terms, symbols and manuscript preparation. Prerequisite, permission of the instructor. Offered 1972-73 and alternate years. Spring term.

93. Experimental Music
Preparation and performance of original works involving unusual techniques or sound sources such as music for tape recorder and music derived by chance. Prerequisite, permission of the instructor. Fall term.

95, 96. Independent Study
Creative, interpretive, and research projects. Prerequisite, permission of the instructor. Fall and spring terms.

97, 98. Seminars
Performance Studies
Course credits may be earned, except in Music 119 and 120, as follows: (1) A course unit will consist of four terms of performance studies either in one subject or two subjects. If in two subjects, each shall consist of two consecutive terms. If in one subject, each block of two terms must be consecutive (consecutive terms may be Fall-Spring, or Spring-Fall). (2) Performance studies will be graded on an S-NC basis; a student must receive an S for each term to receive an S for the whole course. (3) A student may receive no more than two course units of credit for performance studies. (4) A student may take performance studies courses in two subjects each term and earn a full course credit at the end of two consecutive terms.

Music Ensembles and Organizations
The following organizations are open to all Macalester students. Selection of members is usually made on the basis of auditions in the Fall. Students joining an organization are expected to remain active in it throughout both Fall and Spring terms. However, it is possible in certain cases to join an ensemble through audition the second term.

111, 112. The Macalester Symphonic Band
Readings, preparation and performance of concert band literature.

113, 114. The Macalester College Pipe Band
Instruction in the pipes and drums. Performances at Macalester and community functions.

115, 116. The Macalester Symphony Orchestra
Readings, preparation and performance of orchestral literature.

117, 118. The Macalester Festival Choir
Public presentation of major choral works with orchestra; campus and community appearances.

119, 120. Highland Dance
Instruction in traditional Scottish highland dances. Performances at Macalester and community functions.

215, 216. The Macalester Chamber Music Ensemble
Preparation of trio, quartet, and small ensemble literature for public presentation.

217, 218. The Macalester Concert Choir
A selected group of about 40 singers. Presentation of chamber music with and without orchestra; performances on campus, in the community and on tour.

219, 220. Vocal Ensemble Techniques
Groups of 3-8 students study the various techniques involved in vocal ensemble.

Music Lessons (Private and Class)
Private half-hour lessons may be taken by any Macalester student in voice, piano, organ, guitar, orchestral and band instruments. Credit for all these may be earned as described under the ensembles listed above. Fees are listed on Page 20. Class lessons in piano are available at a reduced fee. A bulletin describing the music lesson program at Macalester in detail may be obtained from the Music Department office.

121, 122. Class Lessons in Piano
Open to students with less than one year of piano study.

101, 102. Private Music Lessons
Instruction in instrument or voice.
PHILOSOPHY
Mr. Abraham (on leave 1973-74), Mr. Chase (Chairman), Mr. Gunderson, Mr. T. Hill, Mr. West (on leave Spring term), Mr. White
The purpose of philosophy courses is to encourage and assist students in critical thinking and reflective evaluation with reference to basic presuppositions in the humanities, the arts, the sciences, and the various modes of man's practical endeavor. Such courses present philosophical problems in historical and logical perspective and stress their current relevance. Philosophy concentrations may lead to college teaching or help to build foundations for careers in religion, science, law, education, and other areas. They contribute significantly to life orientation regardless of vocational choice.
Major Concentration
Eight courses in philosophy, including:
- Philosophy 31 (Foundations of Philosophy)
- Either Philosophy 30 (Ancient and Medieval Philosophy) or Philosophy 32 (Recent Philosophy)
- Philosophy 40 (Logic and Scientific Method)
- One of the following: Philosophy 25 (Ethics), Philosophy 65 (Theory of Knowledge), Philosophy 66 (Metaphysics)
- Philosophy 98 (Seminar)

Two courses in a single science or in mathematics; or Chemistry 13
Two courses in the social sciences (history and/or psychology recommended)
One course in religion (course to be approved by the Philosophy Department on the basis of the course syllabus)
Reading competence in one language other than English, to be certified by the appropriate language department
Four courses in a single department supportive of the major program; if any of these courses satisfy other requirements, they may count for both; this requirement is void if it necessitates taking more than the 16 courses that a department may require.
Core Concentration
Six courses in philosophy, including:
- Philosophy 31
- Either Philosophy 30 or 32 is strongly recommended.

Ph.D. in Philosophy

Senior Comprehensive Examinations
Students concentrating in philosophy will take an oral and written examination administered by an outside examiner.

15. Problems of Philosophy
The course deals with basic issues common to human thought such as the problems of truth and knowledge, mind and body, freedom and determinism, right and wrong, and the existence of God.

25. Ethics
The nature of value, duty, right and wrong, and the good life, with applications to selected problems of personal and social behavior.

30. Ancient and Medieval Philosophies
Major philosophers of Greece, Rome, and the medieval period.

31. Philosophical Foundations
The founders of modern philosophy from Descartes to the nineteenth century.

32. Recent Philosophy
Major philosophers of the late nineteenth and twentieth centuries.

34. Great Political Thinkers and Ideas (Same as Political Science 34)
Western political thought.

36. Indian Philosophies
Introductory study of selected Hindu and Buddhist texts and philosophies.
PHYSICAL EDUCATION AND KINESIOLOGY

37. Chinese and Japanese Philosophies
A study of selected Buddhist, Confucian, and Taoist texts, including Japanese Buddhist works. Prerequisite, sophomore standing or Philosophy 36.

40. Logic and Scientific Method
Principles and methods of critical inquiry, analysis of meaning, formal logic, the logic of modern science.

45, 46. Independent Study

50. Topics

65. Theory of Knowledge
The nature of knowledge, evidence, and validity, and the character and criteria of truth.

66. Metaphysics
Examination of ultimate categories, such as substance and attribute, particular and universal, mind and body. Special attention to present trends in philosophy. Prerequisite, one course in philosophy.

70. Advanced Logic (Same as Mathematics 70)
Procedures and findings of symbolic or mathematical logic. Prerequisite, Philosophy 40 and permission.

71. Aesthetics
The nature of aesthetic experience and the basis of aesthetic evaluation.

84. Philosophy of Education (Same as Education 84)

85. Philosophy of Religion
Analysis of problems and viewpoints represented in the great religions, and of the function of religion in human life.

86. Philosophy of Science
Methods, presuppositions, and modes of confirmation common to all divisions of science; history and logic of problems relating to particular divisions of science; functions of science in contemporary civilization.

87. Philosophy of History
Analysis and evaluation of various interpretations of structure and meaning in history.

95, 96. Independent Study
Works of a specific philosopher or school, or study of a philosophical problem.

97, 98. Seminar
A flexible course of concentrated study upon some movement, problem, or philosopher.

PHYSICAL EDUCATION AND KINESIOLOGY

Mr. Bachman, Mr. Bolstorff (Chairman), Miss Brewer, Mr. Hudson, Mr. Jugan, Mr. Lundeen, Miss Maddux, Mrs. Wiesner

The Department of Physical Education and Kinesiology fulfills a multiple role in Macalester's educational program. The academic program provides an opportunity for the study of kinesiology. Students may be certified for coaching. The activity program provides an opportunity for students to gain an understanding of the role of physical activity as it relates to their functional fitness, provides an opportunity for the acquisition of physical activity skills for the worthwhile use of leisure time, and provides an opportunity for the development and maintenance of an optimum level of personal functional fitness. The intramural and recreation programs provide an opportunity for all students to participate in activities of their choice in a variety of organized and unorganized settings. The intercollegiate athletic program offers students opportunity to participate on varsity athletic teams. The following eleven sports are sponsored by the College: baseball, basketball, cross country, football, golf, hockey, soccer, swimming, tennis, track and field (indoor and outdoor).

Coaching Certification
Students wishing to certify for coaching in the public schools may gain needed qualifications by successfully completing P.E.K. 61, 62, 71 and 72 and complementary achievement in officiating, skill performance and coaching.

Activity Program
Students may elect to enroll in the activities program for credit or no credit. A course unit of credit counting toward the 31 courses required for graduation may be acquired by successfully completing four terms (not necessarily consecutive) of physical education activities classes. The first of the four successfully completed offerings in the credit series must be P.E.K. 101, Physical Fitness. A particular activities course successfully completed may not be repeated for credit. Grading of all activities courses will be on an S/U basis. An S grade in each of the four activities courses in the credit series is necessary if these courses are to be counted together as one course unit. Text materials may be used. Evaluation will include both written and performance examinations when appropriate. In cases of sequences of
activities courses of the same kind, such as the three courses in beginning, intermediate, and advanced tennis, a student will be placed by the department at the appropriate level.

Academic Courses

61. Psychological and Sociological Kinesiology
The effects of motivation, aspiration, leadership, individual differences, cultural differences, physical growth and development on human movement. Consideration also given to sex and age differences. Fall term.

62. Anatomical and Mechanical Kinesiology
Physical principles and analysis are stressed as they apply to basic anatomical and mechanical interpretation of kinesiology. An introduction to approaches for motion analysis and data reduction is provided. A lecture-laboratory course with three lectures and a two-hour laboratory each week. Prerequisite, P.E.K. 31. Spring term.

71. Physiological Kinesiology
A study of applied physiology associated with human movement. Consideration is given to the physiological effects of conditioning, as well as the influence of exercise on health and fitness. A lecture-laboratory course with three lectures and a two-hour laboratory each week. Prerequisite, P.E.K. 32. Fall term.

72. Medical Kinesiology
A study of first aid, the care and prevention of athletic injuries, corrective and adaptive kinesiology with consideration given to growth-development theory. Spring term.

95, 96. Independent Study
Advanced students may undertake individual projects involving library or laboratory research. Prerequisite, departmental approval. Fall and Spring terms.

Activity Courses

101. Physical Fitness
103. Cross Country
105. Track and Field
107. Beginning Basketball
114. Beginning Volleyball
116. Paddleball
117. Yoga
120. Beginning Gymnastics
122. Beginning Handball
123. Beginning Badminton
124. Beginning Tennis
125. Beginning Weight Training
126. Beginning Golf
128. Beginning Bowling
130. Beginning Skiing
131. Beginning Swimming
140. Skiing
141. Beginning Folk Dance
143. Beginning Social Dance
144. Beginning Modern Dance
207. Intermediate Basketball
208. Relaxation
214. Intermediate Volleyball
217. Physical Education Elementary School
220. Intermediate Gymnastics
223. Intermediate Badminton
224. Intermediate Tennis
225. Intermediate Weight Training
226. Intermediate Golf
230. Intermediate Skiing
231. Intermediate Swimming
232. Water Safety Instruction
235. Scuba Diving
241. Intermediate Folk Dance
243. Intermediate Social Dance
244. Intermediate Modern Dance
307. Basketball
311. Theory of Football
331. Advanced Swimming and Diving
PHYSICS AND ASTRONOMY

333. Life Saving
334. Synchronized Swimming
341. Advanced Folk Dance
343. Advanced Social Dance
344. Advanced Modern Dance

PHYSICS AND ASTRONOMY
Mr. Hastings, Mr. Kim, Mr. Mikkelsen, Mr. J. Roberts,
Mr. Schultz, Mr. Strait (Chairman)

The Physics Department provides opportunities to study physics on many levels. Special emphasis is given to courses for the non-science major. These courses are designated by numbers below 20 and on occasion by Special Topics (Physics 50). Two levels of specialization in physics are available. These are outlined in detail under the headings, Major Concentration in Physics and Core Concentration in Physics. One follows a rigorous specialization in physics and mathematics and is primarily for those who wish to qualify for graduate study in physics or who wish to prepare for specialized work in industry. The other offers more breadth of choice, such as might be desired by those preparing to teach physics in secondary schools.

Courses 21 and 22 constitute a two term sequence for students wishing a more extended coverage than that offered in Physics 11, but whose mathematical preparation does not permit entering Physics 26 and 27.

Physics 25, 26 and 27 constitute a desirable sequence for students planning a major in one of the physical sciences, or who for other reasons wish an introduction to Physics which makes use of the calculus.

General Graduation Requirement
Any course in the department may be used to count toward the general graduation requirement.

Major Concentration
The following sequence of courses should be followed by those students who wish to qualify for graduate study in Physics, or who for some good reason wish to avail themselves of the most rigorous preparation in the field that the college offers. These courses are Physics 21 or 26, 22 or 27, 43, 44, 61, 93 and three additional courses selected from Physics 25 and courses numbered above 30.

Core Concentration
The following sequence of courses should be followed by those who do not plan to continue on into graduate work in Physics, but who nevertheless wish to avail themselves of the opportunity to specialize in Physics and to be able to include supporting courses outside the department. These courses are Physics 21 or 26, 22 or 27, 25, three additional physics courses numbered above 30, and six additional courses normally from the area of the Natural Sciences and Mathematics, but not necessarily so. Courses from outside these areas may be selected by mutual consent of the student and his adviser. For those interested in preparation for teaching, the core concentration is suggested.

Honors Program
Qualified students are encouraged to apply for participation in the Honors Program. Honors courses in Physics are developed around courses 97, 98 (Senior Research) and courses numbered 30 and above.

Further Preparation
Students with a major concentration in Physics, contemplating graduate study in physics, should have completed mathematics through differential equations and advanced calculus, and have a background in at least one other science. A reading knowledge of French, German, or Russian is desirable.

For the core concentration in Physics the student should complete mathematics through calculus.

10. The Physics of Sound
Musical acoustics, the physics of musical instruments and technical applications of sound; experiments in sound are included. Three lectures, one hour of laboratory a week.

11. Contemporary Concepts
The course is specifically designed for the nonscientist who desires a completely nonmathematical, yet wholly faithful, acquaintance with the revolutionary concepts of contemporary physics. Topics will include:
1) Relativity and its fantastic consequences,
2) Electromagnetic nature of light (can there be yet another dimension to the setting sun's awesome beauty?), and
3) Atomic structure and quantum theory, including a discussion of the elusive neutrino (which, incidentally, has neither mass nor charge, and yet constantly spins, left-handedly at that!)
The underlying assumption of the course is that physics examined as a daring way of thinking can be vitally relevant and challenging to students of all intellectual persuasions. Three lectures one two-hour laboratory a week. Fall and Spring terms.

13. Elementary Astronomy
A descriptive, non-mathematical course covering the solar system, constellations, galaxies and other stellar systems and the present theories on the origin of the universe. Four lecture hours per week. Occasional evening viewing sessions. Fall and spring terms.

14. Principles of Astronomy
Nature and origin of the solar system and of various stellar systems. Laws of motion and gravitation, stellar spectra and compositions. Three hours lecture and two hours laboratory per week. Prerequisite, Math 11 or equivalent. Not offered 1973-74.

21. Introductory Physics I
Mechanics, heat and sound, including laboratory experiments and extensive demonstrations. Three lectures, one two-hour laboratory per week. Fall term.

22. Introductory Physics II
Electricity and magnetism, light and optics, modern physics, including laboratory experiments and extensive demonstrations. Three lectures, one two-hour laboratory per week. Spring term.

25. Introductory Modern Physics
An opportunity to study contemporary physics on an introductory level. Atomic concepts of matter, relativity, matter waves, nuclear structure and elementary particles. Three lectures, one two-hour laboratory per week. Fall term.

26. Principles of Physics I
Mechanics, heat and sound, including laboratory experiments and extensive demonstrations. Presupposes a working knowledge of calculus. Prerequisite, Mathematics 21. Three lectures, one two-hour laboratory per week. Spring term.

27. Principles of Physics II
Electricity and magnetism, light and optics, modern physics, including laboratory experiments and extensive demonstrations. Presupposes a working knowledge of calculus. Prerequisite, Mathematics 21. Three lectures, one two-hour laboratory per week. Fall term.

34. Optics
Principles of optics including laboratory experience in basic optical experiments. Prerequisite, Physics 22 or 27. Three lectures, one two-hour laboratory a week.

42. Electronics
AC and DC circuits, vacuum tubes and transistors, amplification, modulation, and digital circuits. Prerequisite, Physics 22 or 27. Three lectures, two three-hour laboratories a week. Spring term.

43. Electricity and Magnetism I
Elements of AC and DC circuits, Kirchhoff's laws, transient and steady state conditions, electrostatic field and potential theory, properties of dielectrics. Prerequisite, Physics 22 or 27 and Mathematics 34 or consent of instructor. Four lectures a week. Fall term.

44. Electricity and Magnetism II
Steady state magnetism, Ampere's laws, vector and scalar potentials, electromagnetic induction, magnetic properties of matter, development of Maxwell's equations, electromagnetic oscillations and radiation. Prerequisite, Physics 43. Four lectures a week. Spring term.

45, 46. Independent Study
Freshmen or sophomores. Prerequisite, consent of instructor. Fall and Spring terms.

50. Topics
61. Mechanics
Particle dynamics, the central force problem, conservative motion, moving coordinate systems, and Lagrange's equations of motion. Prerequisite, Physics 21 or 22 and Mathematics 33. Four lectures a week.

62. Theoretical Mechanics
The Lagrangian and Hamiltonian formulation of mechanics, rigid body motion, and the special theory of relativity. Prerequisite, Physics 61 and Mathematics 34. Four lectures a week.

68. Heat and Thermodynamics
A study of the thermal properties of matter including the laws of thermodynamics, conditions for thermodynamic equilibrium and introductory statistical mechanics. Prerequisite, Physics 21 and 22, or 26 and 27, and Mathematics 33 and 34. Four lectures a week.

81. Quantum Mechanics
The concepts and techniques of quantum mechanics, developed and applied to atomic and molecular systems. Prerequisite, Mathematics 34 and consent of instructor. Four lectures a week. Fall term.

82. Solid State and Nuclear Physics
A study of modern physics with special emphasis on the solid state, nuclear structure and particle physics. Prerequisite, Physics 81 or consent of instructor. Four lectures a week. Spring term.

93. Comprehensive Laboratory
An emphasis on experimental physics, including participation in a departmental seminar and opportunities to work in departmental
research programs and other experimental projects. Prerequisite, junior standing and consent of instructor. Eight hours of laboratory a week.

95, 96. Independent Study
Juniors or seniors. Prerequisite, consent of instructor. Fall and Spring terms.

97, 98. Senior Research
Students in either the major concentration or core concentration in Physics select a subject for independent investigation and preparation of a senior thesis. Independent reading and experimentation by arrangement. Prerequisite, senior standing and departmental approval of the project prior to registration.

POLITICAL SCIENCE

Mr. Baird, Mr. Bock, Mr. R. Brooks, Miss Dodge (Chairperson), Mr. Green, Mr. Jinadu, Mr. Mason, Mr. Mitau, Mr. J. Robinson

The Department of Political Science provides a broad curriculum serving (1) students who wish pre-professional training for legal and governmental careers or for advanced graduate degrees; (2) those who intend to terminate their formal education with the liberal arts degree, as well as (3) those who seek a general background of knowledge about government and politics important to every well-educated citizen.

General Graduation Requirement
Any course or courses in the department may be taken to satisfy the general graduation requirement in the social sciences.

Major Concentration
A major concentration consists of eight courses and must normally include: (1) one Introductory course (2) any number of Intermediate courses, selected in terms of the student’s interests and career goals, (3) a minimum of two advanced courses or a senior research paper, or an internship project which may be arranged for one or two terms.

The Department recommends that students take a statistics course and a research methods course.

Special programs are offered by the department in pre-law, urban affairs, international relations, public administration, comparative cross-national politics. Descriptive literature on these programs is available in the Department Office, 316 Old Main.

Core Concentration
A core concentration consists of six courses. Please see the department chairperson for individual program descriptions. Interdepartmental concentrations are offered by political science and other departments such as economics, history, geography, sociology and psychology.

A core concentration in political science may also be taken in connection with an American Studies sequence consisting of six courses in political science, three courses in American history and three courses in American literature and philosophy.

Senior Project and Honors Program
The department recommends a senior research project for at least one term of the senior year. These projects will be reviewed by all members of the department faculty and those students whose projects warrant will be graduated with the designation “with distinction.”

Students with questions about participation in the Honors Program should consult with the department chairperson.

Further Preparation
The department encourages students whose career goals would be assisted by language skills to make arrangements to prepare themselves adequately. Students are also encouraged to avail themselves of the opportunities for overseas study or travel available at Macalester College. (See Overseas Programs listings.)

Introductory Courses — Open to Freshmen
Students majoring in political science will normally not take more than two introductory courses.

11. Politics and Social Change
An introduction to political science with emphasis on American public policy problems, policy analysis and relationships to social change.

13. Western and Non-Western Political Ideas
An introduction to the main ideas in both Western and non-Western political thought in an atmosphere which invites comparison and contrast. Included are the nature of the individual, politics and allocation of resources, the nature of the state, and dissent.

16. World Politics
Introduction to the study of international relations. Special
emphasis will be placed on the analysis of international systems, the distribution of power among nations, and the resolution of conflicts. Contemporary world problems and the foreign policies of major nations will be discussed.

18. American Politics
A broad-ranging and critical analysis of American governmental institutions and political processes. Survey of dominant and competing belief systems in American society. Focus on specific contemporary political issues to clarify and illuminate the dynamics of American politics.

Intermediate Courses
Open to students with an introductory course in political science or second semester freshman standing.

32. Policy Administration
Modern theories of policy formation, including incremental, rational, competitive or "alternative" models. Roles of various groups, both within and outside government will be analyzed. The objective of the course will be to acquaint the student with the practical problems which can be expected in attempting to produce and carry out policy. Field experience will be provided when feasible.

34. Great Political Thinkers and Ideas
Western political thought from Plato to the present, including major contributions by American political thinkers. Same as Philosophy 34.

35. American Political Thought
A historical-analytical treatment of the main currents of American political thought from colonial times to the present, including post-liberal thought.

37. Cross-National Urban Policy
The course centers on three aspects of cross-national urban policy: 1) urban growth rates and spatial density patterns; 2) resultant or related political and social problems; 3) a case study of urban planning in the Twin City metropolitan area. The student should complete the course with knowledge of world urban patterns and varying political responses. It is intended that urban planning will form a significant core of the course, providing the student with exposure to administrative procedures, processes, and methods, including quantitative skills.

38. Comparative Legal Systems
A study of the institutions of the law at various levels of societal development and in differing cultures; attention will be directed to differing definitions of law, of its function, presuppositions, methods and scope.

39. Empirical Political Theory
Introduction to modern political explanation, theory building, and analysis of major empirical theories, models, and concepts.

40. Urban Decision-Making
A study of power and powerlessness in the urban setting. Thorough consideration of major theoretical and methodological tools used in the study of public policy-making in American cities. Fieldwork constitutes a major component of the course.

41. Political Parties
An analysis of the structure, activity, and roles of political parties in the U.S. and other nations. Emphasis upon the concept of "political party," origins and growth, organization, ideological base, and impact upon government.

44. Comparative Politics
Introduction to cross-national studies emphasizing the comparative approach to the study of political institutions and behavior. With a focus on a specific world region, special attention is given to ideology, political culture, government administration, political parties, and foreign policies. Focus in different semesters on different regions: Soviet Union and Eastern Europe, Asia, Western Europe, Africa and Middle East, Latin America. May be repeated for different regional foci.

45, 46. Independent Study — Lower Division

47. Intergovernmental Relations
The role of state constitutions, city charters, governors, mayors, judges, state legislatures, city councils, county commissions, and metropolitan authorities in governing state, city, county, township and special districts.

48. International Conflict
Analysis of topics in the study of war and peace. Special attention given to theories on the causes of war and strategies of conflict. Problems of civil-military relations, the military-industrial complex, and arms control and disarmament will be discussed.

50. Topics
Analysis of selected political issues of general interest, specific issue to be announced in advance of registration.

56. Political Communications Theory
An analysis of the complex role of communications in the political processes of selected nation-states. Political communications theory provides a multitude of clues concerning images, values, and perspectives of decision-makers; the role of political elites; the functioning of the mass media; or the significance of varying styles of communication systems upon information channeling and flow. Simulation models will be used.
62. International Law
An explanation of the role of international law and United Nations law in international relations, including the rules and cases that compose the body of international law, legal methods for settlement of international disputes, and the vital questions surrounding enforcement of law. The study of UN world law will center upon codification attempts in the fields of diplomatic immunity, outer space, and ecological treaties for international control of pollution, high seas and fishing regulations, and international use of minerals.

63. International Organization
Analysis of contemporary problems in international organization. Emphasis on international cooperation, regionalism, and international government. The United Nations and the European Community will be studied in detail.

66. Foreign Policy
Analysis of the foreign policy-making process in comparative perspective, emphasizing post World War II American foreign policy, special attention and group decision-making, domestic sources of foreign policy and the heritage of U.S. involvement in Southeast Asia.

Advanced Courses
Open to juniors and seniors. It is assumed the student would have at least two semesters of political science or permission of the instructor.

74. Federal Social Policy
An advanced public policy analysis class. Contemporary public issues will be analyzed from the standpoint of formulation, implementation, and impact.

77. Political Behavior
Theory and research on social-psychological variables in political behavior. Topics include socialization, personality, language, attitudes, beliefs, values, and motivation as correlates of individual behavior.

79. Comparative Political Change
Analysis of the causes and consequences of political change. Emphasis on Third World problems of political modernization, social movements, establishment of political authority, and revolution. Theories of political development will be examined using quantitative data and statistical analyses.

81. Judicial Behavior
Introduction to and investigation of the judicial policy-making processes. Primary emphasis on analysis of the U.S. Supreme Court, yet with some attention to state, local, and foreign courts and judges. Introduction to quantitative techniques useful in the study of the judicial process.

82. Legislative Behavior
Investigation of the national policy-making process. Emphasis on Congress, its internal operations, and the functions it performs in the larger political system. Exploration of theories used by students of Congress and the various methodological approaches associated with these theories.

83. Administrative Behavior
Theories and analysis of public bureaucracies, their environments, and their problems; emphasis on human behavior and performance.

84. Political Leadership
An advanced study of public leaders including top elected and appointed political officials, community, economic, military and voluntary organization leaders. Analysis of elite theories and research; varieties of leadership roles, social, economic and psychological correlates of political leadership; career patterns; and varieties of leader-follower relations.

85. American Constitutional Law and Thought
Survey and analysis of leading national and state constitutional decisions and of their contributions to this country's governmental and political development and thought.

86. International Theory
An examination of foreign policy behavior, centering on factors significant to foreign policy output such as the role of the decision-maker, the decision-making process, policy strategies, and conflict behavior.

95, 96. Independent Study — Upper Division

PSYCHOLOGY

Miss Hughes, Mr. R. Johnson (on leave Spring term), Miss LaBounty, Mr. Maley, Mr. Mink, Mr. Rossmann, Mr. Torrey (Chairman, on leave Spring term), Mr. Weiss, Mr. Wendt

The Psychology Department seeks to foster a scientific approach to the study of behavior. The department offers a broad curriculum to serve both those students who will later specialize in experimental research or applied psychology and those who will terminate their formal education with the bachelor's degree. The student who plans to continue his study is prepared for programs leading to college teaching and research or to such applied fields as personnel work, educational administration, human engineering, civil service, religious counseling, social work, and clinical practice in such agencies as child guidance.
clinics and hospitals for the mentally ill. The student who does not continue his formal education receives a broad course of study in which stress is placed upon the application of scientific method to the complex problems of individual behavior.

The psychology curriculum includes an introductory course and a course in methods of studying behavior which are prerequisite for most other courses, intermediate courses dealing with special topics of general interest for both those who are and those who are not concentrating in psychology, and advanced courses and independent study in specific content areas. Throughout the curriculum, laboratory work, observational experience, and independent projects are introduced wherever possible.

General Graduation Requirement
Any course or courses in the department satisfy the general graduation requirement in the social sciences.

Major Concentration
The major in psychology will include Psychology 10 and 30, at least two psychology courses numbered in the 60's, Psychology 71 and at least one other psychology course numbered in the 70's, plus two other regular courses in the department, for a total of eight courses. Except by departmental permission, topics courses and independent studies courses may not be counted among the eight courses for the major.

Core Concentration
The core in psychology will include Psychology 10 and 30 and at least four other regular courses in the department plus at least six courses from outside the department, the elective courses to be chosen in consultation with the student's departmental advisor. Except by departmental permission, topics courses and independent studies courses may not be counted among the psychology courses required for the core.

Honors Program
The department does not offer a separate Honors Program. However, the department will recommend the BA degree "With Distinction in Psychology" in recognition of a substantial piece of work in psychology carried out by the major student and submitted for evaluation by the department while a high standard of performance in coursework has been maintained.

Further Preparation
Students concentrating in psychology, particularly those considering graduate work in psychology or related fields, are urged to take courses in biology, mathematics and sociology. Mathematical work in statistics is highly recommended (Mathematics 14 or 51). In general, individual programs to meet special needs or interests may be arranged by consultation with members of the department.

10. Orientation to Psychology
An introduction to psychological thinking about problems and processes of behavior. In addition to a common core of material to be covered by all students, the course offers a wide variety of optional activities for partial credit.

30. Methods in Psychological Research
An introduction to experimental methods in psychology including statistics and the design and execution of experiments. Prerequisite, Psychology 10.

45, 46. Independent Study

50. Topics in Psychology
Examination of a topic of general interest from the point of view of the science of behavior, the topic to be announced in advance of registration. Prerequisite, permission of instructor.

55. Theories of Personality
Consideration of the structure, organization, and nature of personality as presented in such theoretical positions as those of Freud, Jung, Allport, Rogers, and others. Prerequisite, Psychology 10 and 30.

57. History and Systems
An introduction to the history and systematic development of contemporary schools and theories in psychology from ancient Greece through the schools of structuralism, functionalism, behaviorism, Gestalt and psychoanalysis to the present. Prerequisite, permission of instructor.

61. Developmental Psychology: Infancy and Childhood
Theory and research on the nature and development of behavioral processes during infancy and childhood. Prerequisite, Psychology 10 and 30.

63. Social Psychology
Theory and research on the influence of social factors on behavior. Prerequisite, Psychology 10 and 30.
64. Behavior Disorders
Investigation of evidence and theories of behavior abnormalities, illustrated in problems of causation, diagnosis, and treatment.
Prerequisite, Psychology 10.

66. Individual Differences
Measured individual and group differences on psychological variables and the genetic and environmental sources of individuality.
Prerequisite, Psychology 10 and 30.

71. Learning
Theory and research on the basic phenomena of conditioning and learning, dealing in large measure with the animal level.
Prerequisite, Psychology 10 and 30.

72. Cognitive Processes
Theory and research on human memory, problem-solving, thought, and language.
Prerequisite, Psychology 10 and 30.

73. Motivation, Emotion, and Conflict
Theory and research in motivational and affectional processes.
Prerequisite, Psychology 10 and 30.

74. Physiological Psychology
Examination of selected problems in the physiological correlates of behavior.
Prerequisite, Psychology 10 and 30.

75. Perception
Consideration of theories and selected problems of visual, auditory, and haptic perception.
Prerequisite, Psychology 10 and 30.

95, 96. Independent Study
97, 98. Seminar
Open to junior and senior majors who wish to explore in depth a topic in psychology or an approach to the discipline which is not represented in other courses. Students will work in small groups organized and supervised by one or more members of the staff.
Prerequisite, major standing and permission of the department.

RELIGION

Mr. Butt, Mr. Currier, Mr. Hopper (Chairman), Mr. Roetzel
The courses of the Department of Religion focus on the study of Christianity, in both its historical and contemporary expressions, as well as major non-Christian religious traditions. While our introductory courses are broad in scope, they seek to be selective enough to allow an in-depth encounter with source documents through historical understanding. Methods of instruction include not only lectures and seminars but also ample opportunity for individual instruction. The program of studies aims not only at the student whose academic specialization or vocational choice is related to religion, but also at supporting a student's total curriculum by courses that can help unlock the religious dimensions encountered in other disciplines.

Students intending to go to a theological seminary after college would certainly profit from an exposure to the theological discipline at the college level, though many different disciplines will provide a suitable area of concentration for the pre-theological student. A core concentration in religion may be wisely pursued by such students. Entrance requirements at a number of theological institutions include a study of Greek, which should be considered a part of such a program of study. In consultation with their advisers, students not anticipating a career of theological study following college may discover valid reasons for a major concentration in religion or for combining a cluster of courses in religion with other disciplines as is made possible by the core concentration.

Major Concentration
The major concentration in religion consists of eight courses in religion, two courses in history and/or philosophy, one course in English. Reading proficiency in at least one foreign language is advised for students contemplating graduate study in theology. An oral comprehensive (a “Senior Dialogue” with the members of the department) is required of all majors. A 3.5 grade point average in the department qualifies for graduation “with distinction.”

Core Concentration
The core concentration in religion consists of 12 courses directly related to a particular problem or theme, six of which shall be in the Department of Religion. Formulation of the theme and the prerequisite courses will be determined in consultation with the chairman of the Department of Religion. An oral comprehensive (a “Senior Dialogue” with the members of the department) is required of all cores. A 3.5 grade point average in the department qualifies for graduation “with distinction.”

Honors Program
Honors students desiring to take courses in Religion at the honors level may do so by Individual Independent Study. These are planned for each individual student with the
chairman of the department and the professor under whose direction the course is pursued.

18. Athens and Jerusalem: A Conflict of Cultures (Same as Classics 18 and Humanities 18)
Through a study of selected classical and biblical readings inquiry is made into distinctive features of two major sources of Western civilization. Lectures and discussion.

20. Introduction to Biblical Studies
The Bible, both Old and New Testaments, the interpretation by the Jewish and Christian communities of the history it relates, and the light shed upon these by the critical study of the Bible of the last century.

21. Jesus and His Interpreters
The understanding of Jesus found in the New Testament, the ancient church, and selected periods in the history of the Christian Church from the New Testament age to the present.

30. The History and Theology of the Old Testament
The study of the life and thought of ancient Israel as reflected in the Old Testament and cognate literature. The course will include consideration of the consummation of Old Testament thought in Christianity and Rabbinic Judaism.

31. The History and Theology of the New Testament
The historical critical study of the rise of Christianity in the ministry of Jesus and the early church against its Old Testament background and its expression in the Hellenistic world.

45, 46. Independent Study

47. History and Myth in the Biblical Tradition
After being introduced to the character and structure of myth, the student will examine legendary materials in the Old and New Testaments in the light of non-Biblical materials (for example, the Epic of Gilgamesh, Enuma Elish, and the Baal and Anath myth). The course will also explain the relationship of myth (which deals with the timeless) to history (which deals with time).

50. Topics in Religion
Examination of special topics of interest to faculty and students, such as a study of certain crucial questions which the various religious traditions raise and attempt to answer.

54. Existentialism and Theology
An examination of the nature of existentialism and an exploration of the lines of convergence and divergence with the theological tradition.

63. The History of Christianity
An introduction to the history of Christianity with attention to the development of Christian thought. The focal point of this course will shift in different terms between such topics as The Early Church, The Church in the Middle Ages, The Reformation, The Modern Period, or American Christianity. The main thrust of the course is to introduce the students to the methodology of historical theological study, rather than to stress a general survey.

65. The Non-Christian Religious Traditions
An introduction to the history and contemporary expression of major religious traditions outside of Christianity. Its focus in different terms would be on a single religion or groups of religions. The course is oriented toward developing an awareness of the methodologies appropriate to the study of the history of religions.

66. 20th Century Christian Thought
A survey of major theological statements of Christian faith in the light of the historical realities of the contemporary world.

67. Christian Ethics
The Biblical thought, history of ethical concerns, and aspects of modern Christian thought pertaining to concrete ethical issues, both individual and corporate; also, study in concreteness of problems such as marriage and the family, Church and State, nationalism, race relations, and economic justice.

68. Seminar on Biblical Interpretation
An intensive study of one aspect of the Biblical writings (for example, letters of Paul, Synoptic Gospels, John, Revelation, Genesis, Jeremiah, etc.). The particular subject of study will be announced prior to registration. Seminar format. Prerequisite, Religion 20, 21, 30, or 31.

95, 96. Individual Independent Study
Arranged in consultation with the chairman of the department

RUSSIAN

Mr. Bahmet, Mr. Canusowsky, Mr. Guss (Chairman)
The general objectives of the department are to teach students the reading, writing, and speaking of the Russian language, equip students with the skills necessary for the study of Russian culture and literature, prepare them to teach the language and to continue their work in graduate schools.

A major concentration in Russian provides a study in depth of Russian literature, language, and culture. In all courses, extensive use will be made of the Foreign Language Laboratory.

Those students interested primarily in learning to read
RUSSIAN

Russian or, on the other hand, in concentrating on the development of oral fluency have available to them courses designed to achieve these specific objectives.

Major Concentration
A major concentration in Russian shall consist of nine courses beyond the elementary level (Russian 11, 12), normally Russian 31, 32, 55, 61, 62, 63, 64, 71, 73. To complete a major concentration, students may choose from other advanced course offerings within the department. A number of supporting courses are possible, to be chosen according to the student's vocational interest: for students intending to teach Russian — courses in a second foreign language, English, humanities, or history; for students who are going into government work — supporting courses in political science, history, economics and geography.

Core Concentration
The core concentration in Russian Studies consists of six courses in Russian language and literature beyond the first year, plus six additional courses to be chosen from Area Study of Russia, History of Russia, Eurasian Geography, Governments of the Soviet Bloc, and other relevant courses in social science, literature, humanities, fine arts, and philosophy.

Honors Program
The Department encourages Honors work for junior and senior students of demonstrated ability.

For students accepted into the Honors Program, any of the advanced courses in Literature, Russian 63, 64, 76, 83 will be accepted. Independent study, Russian 95, 96, and seminars 97, 98 may also be taken. Applicants for departmental Honors will be accepted by permission of the department chairman and arrangements with the instructor. Students entering this program are required to do an Honors thesis and defend it successfully before an outside examiner.

Interim Term Program
The ROVA Farm in New Jersey, known as “Little Russia”, is the largest rural Russian community in America. During the January Interim, a group of Macalester students and their professors spend four weeks attending a Russian-language workshop, immersed in a transplanted but nonetheless typical and stimulating native Russian atmosphere in which they hear Russian spoken constantly.

Interim Term in the Soviet Union
An additional Interim course is a five-weeks study program in the Soviet Union under the auspices of UMAIE, of which Macalester College is one of the participating institutions. A number of on-campus courses and seminars are available during the Interim Term.

Junior Year Abroad
Students have the opportunity to participate in a program of Russian studies abroad for one year at Zagreb, Yugoslavia. A four-week study and travel visit to the Soviet Union can be arranged during this period. Participants need not be Russian majors, but must have completed a minimum of two years of Russian and have some knowledge of Serbo-Croatian.

11, 12. Elementary Russian
An introduction to the reading, writing, and speaking of the language.

Russian 11, 12 E. Experimental
A conversational course using the Chilton method of teaching. The class will be conducted using film strips and tapes in a specially-equipped room. This course is designed for students with no background in Russian, and is mainly for those who want to develop a speaking knowledge of the language.

21, 22. Russian for Reading
A course for non-majors interested primarily in learning to read both literary and expository Russian. The selection of the reading materials will reflect students' academic interests, and is designed to provide a competent foundation for use of original Russian sources.

31, 32. Intermediate Russian
A continuation of language study and introduction to Russian literature. Prerequisite, Russian 12 or approval of chairman.

41. Elementary Conversation
Speaking based on contemporary materials. Prerequisite, Russian 12 or approval of instructor. Students with high school Russian may be admitted on approval of instructor.

45, 46 Independent Study

50. Topics
Special courses organized according to student interest. See departmental announcement of courses intended for the forthcoming term.

55. Russian Culture and Civilization
The most important socio-economic, intellectual and ideological
factors in the evolution of Russian culture, both prerevolutionary and Soviet.

61. Intermediate Conversation
Prerequisite, Russian 32 or 41 or approval of instructor.

62. Advanced Conversation
Prerequisite, Russian 32 or 61 or approval of instructor.

63, 64. A Survey of Russian Literature in the Russian Language
Introduction to Russian literature. The reading in historical context of representative works of important Russian writers. The second term is devoted to an introduction to Soviet literature. Prerequisite, Russian 62 or consent of instructor.

71. Advanced Russian Grammar and Composition (Syntax)
A course for advanced students providing foreign language study in depth. Prerequisite, Russian 32. The course is conducted in Russian.

73. Comparative Russian-English Structure
Comparison of the structures of the Russian and English languages, with emphasis on practical difficulties in pronunciation and grammar. Prerequisite, Russian 62 or 71. Alternate years.

76. Soviet Literature (in English)
A survey of Soviet literature from 1917 to the present. Reading of representative authors such as Fadeyev, Gorky, Yevtushenko, Sholokhov, Gladkov, Pasternak, and others. Material covered will include: early post-revolutionary writers, the Stalin period, socialist realism, the “thaw” period, and Soviet literature today. Students majoring in Russian will read certain assigned materials in Russian. Prerequisite for Russian majors and core students, Russian 61; other students need not know any Russian.

83. Russian Literature from Pushkin to Chekhov (in English)
An introduction to the Russian novel, drama, poetry and literary criticism, with main concentration on Pushkin, Lermontov, Gogol, Turgenev, Tolstoy, Dostoeyevsky and Chekhov. Students majoring in Russian will read certain assigned materials in Russian. The prerequisite for Russian majors or cores is Russian 61; other students need not know any Russian.

90. History of the Russian Language
A study of the divisions of the Russian language chronologically and geographically; the relationships of the Russian language to the Slavic group, the Indo-European group; the changes in the sounds and forms of the Russian language; vocabulary borrowings from Eastern and Western languages; formation of the Russian literary language. Prerequisite, Russian 71, 73. Alternate years.

95, 96. Independent Study
Arranged in consultation with chairman of department. Advanced students may undertake individual projects involving library or laboratory research.

97, 98. Senior Seminar
Seminars on selected topics on the Russian literature and language may be arranged. For advanced students only; conducted in Russian. Prerequisite, Russian 71 or approval of the department chairman.

SOCILOGY AND ANTHROPOLOGY
Mr. Berry, Miss Erickson, Mr. Hoffman, Mr. McCurdy (Chairman), Mr. Rinder (on leave Fall term), Miss Marotz, Mr. Rynkiewich, Mr. Spradley, Mr. Swain, Miss Wilkinson (on leave 1973-74)
Both Anthropology and Sociology, although separate fields of study each with its distinct approach and subject matter, take MAN IN SOCIETY as their principal focus of study and concern. Each has built a complementary body of knowledge, concepts, and theory concerning the products of human interaction and of socio-cultural processes by which these products have come to be. As these two disciplines are so mutually reinforcing and complementary they are housed within the same academic department.

The overall purpose of the department is to make students more aware of the intricacies of all forms of group life and skillful in socio-cultural analysis. These learnings are directed both toward the understanding of the problem aspects of our changing world (racial tensions, delinquency, war, urbanization, the developing nations, etc.) and toward such regular on-going group life processes as seen in the family, the work-a-day world, peer group, the decision-making process, the bureaucratic structure, the development of human personality, and the exercise of social power.

Students taking courses within the department may hope to profit by such study on one of three different levels depending in part upon the degree of commitment to the field: (1) by developing through a major in the department a measure of expertise in the understanding of group life and in skills in testing, through research techniques, some of the assumptions that may be made about the way it operates, which could in turn lead to further graduate professional studies in either Sociology or Anthropology; (2) by combining in the core concentration certain courses
within the department with courses in other related fields
in order to give one a broader base of subject matter
coverage somewhat less specialized; or (3) by taking one or
more courses in terms of one’s own interest in order to gain
a better understanding of such as the community, deviant
behavior, kinship systems, the significance of culture, and of
human behavior as it is to be seen within the ever changing
socio-cultural milieu.

Organization of Courses
It will be noted that some of the course offerings are
organized in two separate parts, e.g., Sociology 76 and 77.
The first term of such a sequence, designated as an A-type
course, introduces the significant body of theory, principles,
and vocabulary of analysis appropriate to the respective area
of study. The conventional course procedures are likely to
prevail in it. The second follow-up course, designated as a
B-type course, offers the opportunity for the student to
pursue his own interests which have been generated in the
A-type course. Here he is expected to build upon the work
of the A course by following through with some implications
of selected aspects of his own choosing or by intensive
inquiry or original research into some selected but relevant
problem. Ordinarily this would culminate in a major paper
or research report. Flexibility of course design, largely in the
hands of the student with assured instructor guidance, is the
hallmark of the B-type course. Prerequisite to all B courses
is the corresponding A course but A courses may be taken
without the following B course.

Major Concentrations
The department offers two majors, one in sociology and one
in anthropology. Courses in each should be selected in
consultation with the student’s adviser.

Sociology major: A major in sociology consists of eight
courses including Sociology 20. Students planning to major
are strongly advised to take courses 25, 70, and 71, and
should include one B-type course or independent study in
their program.

Anthropology major: A major in anthropology consists of
eight courses including Anthropology 21. Majors must take
Anthropology 30, and complete a senior project
(Anthropology 97, 98).

Core Concentration
Six courses in either Sociology or Anthropology (exclusive of
Sociology 74 and 86) together with six chosen by the student
from outside the department constitute a core
concentration. The pattern of courses is to be designed by
the student in consultation with his departmental adviser.
The student should be prepared to provide a rationale for
his selection in terms of the internal consistency of his
proposed pattern. Ordinarily there should be some clustering
within disciplines of the supportive courses chosen from
outside of the department.

Honors Program
Sociology major: The B-type course (see Organization of
Courses) serves as the principal starting point for those who
opt for the Honors Program (see general catalog statement
for eligibility). The built-in flexibility of these courses makes
them readily adaptable to the kind of independent study
upon which Honors is based. In the event the student’s
interest around which he wishes to design his Honors studies
is not congruent with his scheduled progress through the
departmental courses, he may begin his Honors work with
course 95. The second course in the sequence, ordinarily
taken in the first term of the senior year, is the Honors
Seminar. The last course is 96, during which time the major
task is the final preparation of the Honors thesis and
preparation for the Honors oral examination.

Anthropology major: Students who elect the Honors
Program in anthropology will work out their course of study
with the anthropology staff. Normally, honors work will
substitute for the senior project requirement (see
anthropology major).

Graduation with Distinction
Sociology major: A student who majors in sociology and
whose overall work in the department is of high quality may
become a candidate for graduating “with distinction in
sociology”. He is invited to submit to the department
chairman, in his senior year, a paper prepared either for this
purpose or one previously submitted in one of his sociology
courses. This paper will be reviewed by a committee of the
sociology staff (student may nominate the membership) who
will also examine the student orally on the paper and on
sociological materials related to the courses he has taken.
The quality of the paper and the performance in the oral examination, as judged by the staff committee, will determine eligibility for graduating "with distinction in sociology".

Anthropology major: The anthropology faculty will recommend the B.A. degree "with distinction in anthropology" for those major and core students who attain at least a 3.5 grade point average in anthropology and in their overall course work.

Pre-Professional Social Welfare Work
Students anticipating working in one of the "helping professions" immediately upon graduation from college will find the two pre-professional social work courses (74 and 86 listed with the Sociology courses) useful in two ways: (1) to test out the depth of their own interest in the field and (2) to begin to equip themselves to work in certain agencies or programs not requiring the Masters Degree in Social Work. These courses build upon knowledge gained from all the behavioral and social sciences and require a supervised field replacement concurrent with the regular class work in an agency or program selected by the instructor. Care is taken to make such placements in terms of student interest and capacity; they are made only in those agencies equipped and willing to provide genuine learning experiences. Ordinarily these courses are taken in the senior year; 74 should precede 86. They may be included within the Sociology major but not within a core concentration except as supporting courses.

SOCIOLOGY COURSES:
Sociology 20 is normally prerequisite to all courses.

20. Introduction to Sociology
Survey of principal concepts and methods with emphasis on sociology as a mode of analysis or way of knowing. Study of individual, collective, and institutional behavior utilizing materials largely drawn from contemporary American society. Fall and Spring terms.

25. Social Statistics
An introduction to theory and application of statistics in the social sciences with intent to provide some of the essential tools for sociological analysis. Emphasis placed on understanding the reasoning underlying statistical usage in sociology. Univariate and bivariate data description, sampling, estimation, and hypothesis-testing. Special attention given to recent developments in "nonparametric" and ordinal measures. Prerequisite, course 20 or 21 or one course from the behavioral or social sciences.

30. Sociology of Law Violation
The major forms of anti-social behavior with emphasis upon crime and delinquency in the United States. Theories of such behavior and attempts at control, rehabilitation, and alleviation.

40. Minorities in the United States
The nature of racial, ethnic, and religious minority groups. Social and economic adjustments in the U.S. of Negro, Indian, Asiatic and various nationality groups. Intergroup relations and the problems of conflict and tensions.

45, 46. Independent Study

50. Topics in Sociology
Examination of some selected topic of concern to sociologists to be announced prior to registration on a year by year basis. Prerequisite, permission of instructor. Fall or Spring term.

62. Social Change: Topics in the Non-Western World
Theories of social change. Programs of social change and development in non-Western countries. Evaluation of these theories and programs in terms of change-phenomena in significant areas of the modern world. Evolution, revolution, reform, reconstruction, utopias and other ideal-typical images. Offered in alternate years.

66. Urban Social Structures — A
Main focus on contemporary urbanism with an emphasis on urban social institutions, value systems and social change. Examination of contemporary urban culture and its identity seekers including a macro-level analysis of structural changes in institutions and stratification systems.

67. Urban Social Structures — B
Intensive study of one selected topic or problem as a follow-up of course 66.

68. The Changing Community — A
The search for community in Megalopolis; historical origins and forms that shaped a sense of community; the significance of the urbanizing process and the resultant problems, both in social relations and in perspectives.

69. The Changing Community — B
Intensive studies in special aspects, such as theories of change, human ecology, cross-cultural comparisons of locality-systems, field work in nearby localities and neighborhoods. Prerequisite, Sociology 68 or permission of instructor.

70. Development of Sociology
Sociology's 19th century roots; contemporary theories and concepts
in current use, with special attention given to the role of a theory in both research and in assessing social action programs.

71. Methodology of Sociology
Field work problems in the use of current instruments and techniques; methodological problems; theory-building in relation to empirical research. Prerequisite, a course in statistics.

72. Social Organization: Formal and Informal Systems — A
Two forms of organization: The large-scale complex as in business, religion, education, and the small, less formally structured group, e.g., the committee or work group. Division of labor, status, decision making, communication, leadership, and relationship of systems to larger ones of which they are a part.

73. Social Organization: Formal and Informal Systems — B
Intensive study of some one form of large-scale organization or research on some phase of the small group. Prerequisite, Sociology 72 or permission of instructor.

74. Changing Social Welfare Systems
A review of public and private welfare programs and institutions (The Establishment) and the impetus and challenge for change and reappraisal coming out of the Anti-Poverty and other current and projected Federal programs; to provide sufficient knowledge about social welfare programs to help the student think critically about problems, issues, and approaches to social welfare in his community as a responsible citizen. Field placement, with limited practice, under supervision and selected field visits. Fall term.

75. Collective Behavior in Mass Society
Social movements, mass demonstrations and outbursts; panic, disaster, and crowd behavior. Collective action growing out of crisis situations. Influence of mass communication media on behavior.

76. Social Deviancy — A
Major approaches used in sociology to examine and explain individual and group deviation from social norms: social pathology, social disorganization. The concept of deviation as a normal response to inconsistencies in social structure, social change, and the breakdown of social control.

77. Social Deviancy — B
Selected studies of social structure and deviancy in such behavior areas as delinquency, race conflict, broken homes, or other expressions of social disorder or breakdown. Prerequisite, Sociology 76 or permission of instructor.

78. Institutions and Social Stratification — A
Functions of the basic institutions such as family, school, work, church. The impact of social class and rank systems on values, goals, and behavior within institutions. Problems of institutional maintenance and societal cohesiveness.

79. Institutions and Social Stratification — B
Specialized studies in sociology of family, religion, professions, education, or social class. Prerequisite, Sociology 78 or permission of instructor.

82. Social Structure and Violence
An examination and analysis of forms of individual and collective violence as manifestations of social structural factors. Consideration and exploration of the historical, institutional, ideological, and sociocultural factors underlying acts of violence in America and cross-culturally. Prerequisite, Sociology 20 and/or consent of instructor.

84. Social Psychology — A
Man in his symbolic environment. Processes of internalizing culture and development of self through role enactment. Motivational, perceptual, and evaluative processes viewed within the context of social structure and group membership.

85. Social Psychology — B
Selected studies, e.g., impact of society-culture on personality, attitudes, aspirations; role consensus, norm formation in different socio-cultural settings; faulty socialization. Prerequisite, Sociology 84 or permission of instructor.

86. Individual in Welfare Systems
Generic social work principles used in an agency setting to assist persons or groups with psycho-social problems which impair interpersonal relationships and person adequacy. Field placement in an appropriate agency; observation and practice under supervision. A follow-up of course 74. Spring term.

88. The Sociology of Behavioral Disorders
Mental illness as residual deviance: a case study of extrusion, labeling and isolation in the management of deviance. The social psychology of personality disorganization; the self-system; differential distribution of rates and types of mental illness in the U.S. and cross-culturally. Prerequisite, Sociology 76 or 84.

95, 96. Independent Study
97, 98. Honors Seminar
Continuation of work on the topic selected for the Honors thesis which will have been begun in a B type course or 95; readings and reports deemed to be relevant to this study as assigned by the Honors adviser.

ANTHROPOLOGY COURSES:
Anthropology 21 is normally prerequisite to all courses.
21. Cultural Anthropology
The basic concepts and theories of cultural anthropology. Emphasis on the concept of culture as a way of explaining human thought and action. Comparison of linguistic, social, economic, legal, political, and religious systems from a selection of world societies including our own. Includes a discussion of human conflict, change, and modernization. Fall and Spring terms.

30. Methods in Anthropological Research
An introduction to ethnographic field methods learned in the context of individually run student field projects. Focuses on the anthropologist-informant field relationship and the discovery of cultural knowledge through participant observation and ethnosemantic techniques.

45, 46. Independent Study

50. Topics in Anthropology
Examination of some selected topic of concern to anthropologists to be announced prior to registration. Fall or Spring term.

52. Peoples and Cultures of the Pacific
Ethnographic survey of insular Pacific: Polynesia, Melanesia, Micronesia. Examination of prehistory, race, language and culture; emphasis on the impact of the western world on Island societies and on problems and methods in anthropology exemplified in the study of the Pacific.

54. Peoples and Cultures of India
The history and current cultural groups of India with emphasis on Indian social structure. Rural and urban society, theoretical aspects related to the caste system, and other features of culture particularly as they are related to India's place in today's world.

60. Urban Anthropology — A
Survey of anthropological approaches to the study of urban phenomenon. Research methods and theories for explaining urban subcultures. Non-Western cities and comparative studies of cities in human history. Course will focus upon micro-analysis of one urban subculture by each student.

61. Urban Anthropology — B
Intensive study of one selected topic or problem as a follow-up of course 60.

64. Political Anthropology — A
Examination of politics and law in folk societies; emphasis on understanding political processes in social, economic and religious institution, as well as social, economic and religious factors in political behavior. Traditional and changing political scenes are examined at the local level, particularly with reference to the impact of culture contact and colonialism.

65. Political Anthropology — B
Intensive study of one selected topic or problem as a follow-up of course 64.

68. Anthropology of Religion — A
Survey of the types of religious experience and meaning found in non-Western and Western societies including the kinds of explanations used by anthropologists to account for religious forms. Course includes the ethnographic discovery and description of religious categories and plans by involving the student in field research.

69. Anthropology of Religion — B
Intensive study of one selected topic or problem as a follow-up of course 68.

84. Psychological Anthropology — A
A survey of the sub-field of culture and personality within anthropology. The relationship of this sub-field to other disciplines and a review of its basic concepts and contributions as illustrated through specific studies. The influence of culture on the development of personality as well as psychological processes of culture change.

85. Psychological Anthropology — B
Intensive study of one selected topic or problem as a follow-up of course 84.

86. Social Anthropology — A
Institutional structures in cross-cultural perspective, focusing on systems of kinship and marriage in relation to economic and political institutions, and the significance of this approach for methods and theory in anthropology.

87. Social Anthropology — B
Intensive study of one selected topic or problem as a follow-up of course 86.

88. Culture and Cognition
An examination of theories and methods of cognitive studies in anthropology. Includes category systems, structure and function of taxonomic systems, componential analysis, information processing and the relationship between culture, cognition and behavior.

95, 96. Independent Study

97, 98. Senior Projects Seminar

SPANISH

Mr. Connell, Mr. Dassett (on leave Spring term), Mr. Fabian (Chairman), Mr. Steeley

Objectives
The Spanish Department's objectives are:
SPANISH

1. to prepare competent majors and cores in the Spanish language, and the culture and literature of both Spain and Latin America.
2. to provide appropriate language training needed by non-Spanish majors for study in their own field, for travel, or for future professional needs.

Career Orientation for Spanish Majors
Recent Spanish majors from Macalester have begun careers in the foreign service, special education, banking and commerce, and teaching. Others have gone into the Peace Corps, Vista, or are in graduate programs in Spanish language and literature, Spanish-American activities, etc. Students are finding it increasingly desirable for practical reasons to combine a Spanish major with a compatible major in another field. Some examples are: Spanish and economics, Spanish and political science, Spanish and geography, and others.

Major Concentration
A major concentration in Spanish consists of a minimum of eight courses in Spanish beyond the elementary level, plus the Senior Seminar in Spanish Civilization; a total of nine courses. (For those who begin the concentration with Spanish 51 or 61, the total, including the Senior Seminar, may be eight.)

Required courses: 31, 32, 51 (unless excused from these three by placement) 61, 62, 98. For those specializing in Latin-American Studies (see Latin-American Studies): 65, 66.

Four supporting courses chosen according to a student’s interests.

Some suggested patterns are:
1. For majors including those going into teaching — Another foreign language, English, Humanities or History or Geography.
2. For those going into government work or some field of business — Political Science, Economics, History or Geography.
3. For those majoring in Latin-American Studies — History 51, Geography 42, and two additional courses in Geography, History, Sociology, Political Science or Portuguese, to be chosen in consultation with the departmental adviser.

Core Concentration
The core concentration consists of six Spanish courses numbered 31 or higher, plus the Senior Seminar (Spanish 98) and six courses chosen from a related area. In all cases, the pattern of the core concentration of work must be approved by the department.

Honors Program
Courses which may be designated as Honors courses include:

1. Spanish 65, 66, 67, 68, or 75 and others agreed upon which, when designated as Honors courses, will require additional work. Spanish 80 and Spanish 97 vary in content from year to year and may, thus, be included more than once in a candidate’s program.
2. Special Interim Term courses for Honors candidates (Spanish 50 or 95).
3. Independent courses related to the honors subject (Spanish 95).

In consultation with the thesis adviser appointed by the department chairman, the Honors candidate will prepare a thesis to be presented during the senior year and must successfully defend the thesis before an examining panel. Honors candidates will be given all possible flexibility in arranging their programs.

Study in South America
The Spanish Department sponsors a study-abroad program in Bogota, Colombia. Fifteen to twenty students, not necessarily Spanish majors, are selected to spend the Spring term (summer optional) studying at the Centro de Estudios Universitarios Colombo-American and other participating institutions, including the Universidad Javeriana, and the Universidad de los Andes. Two courses may be counted toward the Spanish major. The student majoring in Spanish will have to take, on campus, all additional courses that are necessary to meet the departmental graduation standards.

Spring semester participants in this program also receive an Interim term course, “Orientation to Colombia,” in Bogota, which includes an introduction to the important cultural, political, economic and geographical aspects of the country. This program is strongly recommended for Spanish majors.
Mexican Caravan
When enough interest is expressed in group travel to Mexico, the Spanish Department provides leadership.

10. Elementary Conversational Spanish
Concentrated aural-oral practice in the most necessary forms of the spoken language for use in traveling, living or working in the Spanish speaking countries. Very little attention will be given to reading and writing. Students with a basic oral facility in Spanish should register for Spanish 31, 32, or 51.

11, 12. Elementary Spanish
Pronunciation, grammar essentials, conversation and reading. Four class hours a week plus one hour of laboratory.

21, 22. Spanish for Reading Knowledge
This sequence is designed for students interested in learning to read Spanish for use in research or in literary studies. Open to any student who wishes to obtain a reading knowledge of Spanish. Presupposes no previous acquaintance with Spanish. This sequence also prepares students for literature courses 61 and beyond.

Note: Spanish 11, 12, 31 and 32 constitute the basic sequence in Spanish for further study in conversation and literature. Spanish 21, 22 is an intensive reading sequence, complete in itself.

31. Intermediate Spanish
Intensive oral and written grammar review during first five to seven weeks. Last half of semester reading and conversation with emphasis on Spain.

32. Intermediate Spanish
Reading — short stories, a short novel, newspapers with emphasis on Latin America. Possibility of reading Spanish materials in major field. Prerequisite for either 31 or 32: two years high school Spanish, Spanish 12 or satisfactory score on placement test.

45, 46. Independent Study.

50. Topics

51. Conversation
Conversational practice with special emphasis on aural-oral skills. Readings on Spanish and Spanish-American civilization and culture. Prerequisite, Spanish 32.

60. Introduction to Romance Linguistics
The historical development of the Romance languages from Latin; the linguistic techniques used in the scientific description of these languages, and the role and techniques of Applied Linguistics in a teaching of Romance languages. Prerequisite, some background in a Romance language or Latin, or consent of instructor.

61. Survey of Spanish Literature (Part I)
19th and 20th Centuries. Prerequisite, Spanish 22 or 32. Fall term.

62. Survey of Spanish Literature (Part II)
Medieval period through the Golden Age. Prerequisite, Spanish 22 or 32. Spring term.

65. Readings in Spanish American Literature (Argentina, Uruguay, Chile)
Novels, short stories, and poetry of Argentina, Uruguay and Chile. Borges, Cortazar, and Neruda, and other contemporary writers.

66. Readings in Spanish American Literature (Mexico, West Indies, Northern South America)
Prerequisite, Spanish 61, 62, or consent of instructor.

67. The Novel
Spanish and Spanish American fiction. Prerequisite, Spanish 61, 62, or consent of instructor.

71. Phonetics and Advanced Conversation
Study of the phonetics of the Spanish language and analysis of its sound system. Development of skill in oral expression with emphasis on pronunciation, accuracy of expression, use of a varied vocabulary, and fluency. Laboratory drills in pronunciation. Instruction entirely in Spanish. Prerequisite, senior standing or consent of instructor.

72. Syntax and Advanced Grammar
Advanced study of the grammatical structure of Spanish with detailed analysis of syntax and morphology. Development of writing skill through composition exercises and themes. Instruction in Spanish. Prerequisite, senior standing or consent of instructor.

75. Cervantes and the Quijote
Prerequisite, Spanish 61, 62, or consent of instructor.

95, 96. Independent Study
For the advanced student who wishes to carry on a project requiring library research or laboratory work. Consent of instructor. Fall and Spring terms.

97. Seminar
Areas not regularly offered in literature or language. Prerequisite, Spanish 61, 62, or consent of instructor.

98. Senior Seminar
Spanish Civilization. Required of all majors and cores. Fall term. Note: The Senior Seminar in Civilization is offered only in the Fall term. This course is required of all majors in lieu of senior comprehensive.
SPEECH COMMUNICATION AND DRAMATIC ARTS
Mr. Hatfield, Mr. Klein, Mr. Mosvick (Chairman), Mr. Nobles, Mr. Wilson

The Department of Speech Communication and Dramatic Arts is committed to the fundamental worth of broad liberal education through exposure to human intellectual and artistic achievement. In honoring intellectual development as primary in the liberal arts focus of the college, this department strives to maintain appropriate balance between knowledge and theory on one hand and their practical application on the other. Curricular and co-curricular programs are designed to illuminate theoretical and substantive knowledge through performance experience. Majors in Dramatic Arts, General Speech and Public Address are designed as liberal arts curricula, not professional or vocational ones, and to this end studies are encouraged to choose electives outside the department which provide broad complementary substance and relevance.

Those students preparing for graduate study should choose either emphasis in Dramatic Arts or Rhetoric and Public Address. The State of Minnesota, Department of Education, Certification Division, requires teachers of speech to have fulfilled the requirements of either a major or minor in Public Address, General Speech or Dramatic Arts.

English Teaching Certification Requirement
The State Department of Education requires that prospective teachers of high school English and language arts must take academic instruction in each of two areas of speech and dramatic arts. The students must take Speech 36, Theory and Practice of Public Address, and either Speech 20, Oral Interpretation, or Speech 30, Introduction to the Theatre.

Major Concentration
The department offers two basic types of programs: A) A major area of concentration for students intending to receive a liberal arts degree and/or planning to engage in graduate study in either Public Address and Rhetoric or Dramatic Arts, and B) A certification major or minor area of concentration in General Speech, Rhetoric and Public Address or Dramatic Arts in compliance with recently revised state certification requirements for students who intend to teach in high school.

Each major requires from eight to ten courses specified by course or area from within the department; each minor requires five courses similarly specified. In addition, all majors and minors are required to participate in co-curricular speech activities appropriate to the field of study and the needs of each student. Students in each major field have the option of substituting for one of the required courses any other departmental course, seminar or independent which meets the approval of the appropriate area committee and which will, in the case of certification majors, insure that the student meets state requirements in specified areas of competence.

Major Programs
1. Rhetoric and Public Address: Ten courses, eight of which must be Public Address courses, plus a seminar or independent devoted to scholarly writing. Required courses: 25, 32, 36, 38, 47, 48, 98.
2. Theatre: Nine courses from within the department plus three electives from outside the department which are related to the student's major concentration and approved by the student's adviser and area committee. Required courses: 20, 22, 30, 33, 40, 64.

Certification Programs
1. General Speech Major: Ten courses. Required courses: 20, 25, 28, 30, 32, 40, 64, 36 or 38, 47 or 48, and Mass Media and Society.*
3. Theatre Major: Nine courses. Required courses: 20, 22, 28, 30, 33, 40, 64, 11** or 25 or 36, Mass Media and Society*.
5. Public Address Minor. Required courses: 20, 11** or 48, 25 or 32, 36 or 38 or 47, 28 or Mass Media and Society*.
6. Theatre Minor. Required courses: 20, 22, 30, 33, 64.
*Occasionally listed under 50, Topics in Speech and Dramatic Arts.

**English certification majors may substitute 36 for 11.

**Core Concentration**
All core programs require six department courses individually programmed by the student and his adviser, with the exception of the Theatre Core for which the following courses are specified: 20, 22, 30, 33, 40, 64.

The six other courses elected from outside the department must be appropriately related to the student’s core field of study and subject to his faculty adviser’s approval.

**11. Communications in Human Affairs**
Examination of contemporary theory and principles of speech communication divided into two major units: interpersonal communication and public communication. Study of selected literature in the area and appropriate exercises in each unit. Both terms.

**15. The Art of Theatre**
Study of the art of theatre from the perspective of the audience; an appreciation course for the general student. Ticket costs for approximately 10 evenings of required play attendance; class to meet four periods weekly. Spring term.

**20. Oral Interpretation**
Development and use of fundamental techniques for analysis and reading aloud of prose and poetry. Both terms.

**22. Acting**
Basic theories and techniques of acting are studied and applied. Both terms.

**25. Argumentation and Debate**
Principles and practice of argument; study of adaptation of logic and evidence to rational decision making and to effective advocacy. Fall term.

**27. Creative Dramatics**
The history and development of creative dramatics and its relation to the educational philosophy of John Dewey. Through participation in classroom exercises and in the design and teaching of class sessions, students develop concepts and techniques of creative dramatics for use in elementary and high school teaching, small group conference work, and group counseling. Fall term in alternate years.

**28. Voice and Diction**
A study of the anatomy and physiological processes of voice production and articulation. Introduction to the International Phonetic Alphabet and its application to various levels of English pronunciation; introduction to elementary theory of speech correction; individualized programs of self-analysis and self-improvement. Both terms.

**30. Introduction to Theatre**
The art and craft of theatre, including acting, directing, designing, and criticism culminating in a major project. Attendance at off campus performance is integral to the course as is laboratory crew experience. Fall term.

**31. History of Costume and Stage Make-up**
Study of fashion from early times to present day. Techniques of adapting historical designs into costumes for modern theatre production. Concentrated study of make-up techniques for stage, cinema and television. Fall term in alternate years.

**32. Small Group Communication and Decision-making**
Basic forms of small group discussion, group dynamics processes and small group decision-making. Video analysis of group discussion, simulation of decision-making approaches and lecturers from business and industry will be utilized. Fall term, alternate years.

**33. History of Theatre**
Survey of the origins and development of theatre as an art form. In addition to dramatic literature, particular emphasis is placed on architecture and theatrical practices up to mid-nineteenth century. Fall term, alternate years.

**34. History of Modern Theatre**
A sequel to Speech 33. Study of evolution of theatrical movements, influences and practices from mid-nineteenth century to the present in Europe and America. Reading of representative plays and attendance at relevant productions as available. Spring term, alternate years.

**36. Theory and Practice of Public Address**
The study of canons of Classical Rhetoric, the theory of oral discourse and the ethics of speech communication. The course is designed to increase the student’s competence in communication, his understanding of the rhetorical factors involved in speaking and writing. Required for English certification. Spring term.

**38. Persuasion**

**40. Technical Theatre**
Study in the arts and crafts of the theatre. Emphasis on design,
construction, and mounting of the production. Laboratory crew experience. Prerequisite, Speech 30. Spring term.

45, 46. Independent Study

47. American and British Public Address
History and criticism of models of eloquence of British Public Address of the 18th and 19th centuries, of American Public Address of the 19th and 20th centuries. Spring term, alternate years.

48. Speech and Language in Human Behavior
A linguistic-semantic study of speech and language in our culture; importance of language in perception, categorizing, and thinking. Exercises and observational studies in non-verbal communication and inter-cultural communication are also explored. Fall term.

50. Topics

62. Readers Theatre
Selection, analysis and adaptation of literature for group reading. Course culminates in recital performance, Prerequisite, Speech 20. Spring term, alternate years.

64. Direction
History, theory, and techniques of directing, culminating in the production of an edited three-act play. Laboratory crew experience. Prerequisite, Speech 30. Spring term.

65. Scene Design
Study of the concepts, principles and techniques of scene design in the modern theatre. Exercises employing the many and varied methods of illustrating ideas and visual concepts of design on stage. Prerequisite, Speech 40. Fall term, alternate years.

66. Advanced Acting
Historic and contemporary acting theories and styles are studied and applied in performance. Prerequisite, Speech 22. Offered alternate years.

95, 96. Independent Study
For the advanced student capable of independent study requiring library research and/or experimental work in the theatre or the Communications Research Laboratory. Prerequisite, consent of instructor. Fall and Spring terms.

97. Seminar in Theatre
Advanced study of such topics as acting, lighting, children's theatre.

98. Seminar in Rhetoric
Advanced study of such topics as classical rhetoric, speech criticism, experimental methodology, listening.

Critical analysis of selected topics, persons and works related to Oral Interpretation theory. Prerequisite, Speech 20.

Practicum Credit in Speech
The following may be elected for one-fourth of a course credit in co-curricular activities per term and may be repeated up to the total of a full course credit. Credit in one area or in any combination of areas in the department may not exceed one full course credit. Prerequisite, approval of instructor.

205. Practicum in Forensics.
Credit may be earned either by participating in several forensic tournaments or by extensive participation in the public audience symposium program.

207. Practicum in Theatre
Credit may be earned by extensive play production participation in major roles as an actor or in major positions as a technician or theatre manager.
Endowed Scholarships
The following scholarships have been created at Macalester College by generous gifts of endowed funds. The income from these funds is awarded annually through the financial aid program to outstanding students — usually upperclassmen — who otherwise would be financially unable to avail themselves of a Macalester education.

The name of the scholarship appears in capital letters and is followed by the year in which the fund was established, the name or class of the donor or donors, and the preference, if any, to be given in awarding the scholarship. In many instances the initial gift was augmented by an anonymous donor.

ANSTICE T. ABBOTT (1962). Established by the national Wood's School Alumnae Association for an elementary education major. Principal, $5,010.

ROY C. ABBOTT (1958). Established by the former Treasurer of The Reader's Digest Association, Inc. Principal, $2,500.

BARCLAY ACHESON (1959). Established by members of his family in memory of Dr. Acheson, who was Director of Near East Relief and, later, of the International Editions of the Reader's Digest. A 1910 graduate of Macalester, he served on the Board of Trustees 1937-1957. Principal, $29,626.


HORACE M. ALBRIGHT (1961). Established by Horace M. Albright, nationally known conservationist and former Director of the National Park Service. Principal, $5,000.

HUGH S. ALEXANDER (1957). Established by friends and former students of Dr. Alexander, Professor of Geology at Macalester 1906-48. Principal, $3,776.


ALUMNI (1958). Established by former Macalester students through contributions so designated to the annual Alumni Fund. Principal, $24,869.

AMERICAN CYANAMID COMPANY (1962). Established by the American Cyanamid Company. For upperclassmen who are taking a pre-medical course in preparation for entrance to a medical school. Principal, $50,000.

AMERICAN FRIENDS OF THE MIDDLE EAST (1963). Established by American Friends of the Middle East for a student attending Macalester from a Middle Eastern country. Principal, $7,500.


ANONYMOUS INDIVIDUAL (1968). Established anonymously to honor Lila and DeWitt Wallace. Principal, $5,000.


JULIAN B. BAIRD (1967). Established by the First National Bank of St. Paul to honor its former President, who served as Undersecretary of the Treasury under President Eisenhower. Principal, $25,000.

CLARENCE D. BAKER — DR. JAMES WALLACE (1958). Established by Harry D. Baker, President of the Baker Land and Title Co. of St. Croix Falls, Wisconsin, in memory of his brother, Clarence D. Baker, Class of 1898, and of Macalester's fifth President, Dr. James Wallace. To be paid twice annually, when most needed by beneficiaries, to deserving rural students with satisfactory scholastic records and outstanding reputation for industry and integrity, and who show determination to make their own expenses as far as possible. Principal, $12,500.

GEORGE F. BAKER TRUST (1967). Established by the George F. Baker Trust of New York City. For young men of the highest overall promise. Principal, $250,000.


BRUCE BARTON (1957). Established by the New York advertising executive, author and former United States Representative. For a student of high scholastic standing who has shown unusual qualities of leadership. Principal, $21,750.


WILLIAM BENTON (1957). Established by the Chairman of the Board of Encyclopaedia Britannica and former United States Senator and Assistant Secretary of State. For students of unusual ability who plan on a career in government. Principal, $26,000.

FRANK STANLEY BEVERIDGE (1958). Established by the Frank Stanley Beveridge Foundation in memory of the founder of Stanley Home Products, Westfield, Massachusetts. Principal, $5,000.


MAUDE FIELDING BRASHARES (1963). Established by Mrs. Brashares through a bequest in her will for academically able students who are in financial need. Principal, $9,154.

LEE H. BRISTOL MEMORIAL (1962). Established by the former Chairman of the Board of Bristol-Myers Company. Principal, $13,695.

CHARLES H. BROWER (1963). Established by the Chairman of the Board of Batten, Barton, Durstine and Osborn, Inc. Principal, $10,500.


JOHN S. CAMPBELL (1959). Established by Mr. Campbell, a Macalester alumnus and former President of Malt-O-Meal Company of Minneapolis. Principal, $2,500.

CASS CANFIELD (1965). Established by the former Chairman of Harper & Row, New York City. Principal, $5,000.

GEORGE E. CARLSON (1964). Established by Robert W. Carlson, President of the Minnesota Rubber Company, in honor of his father. For a male student majoring in one of the natural or physical sciences. Principal, $100,000.


GEORGE CHAMPION (1964). Established by the Chairman of the Board of Chase Manhattan Bank, New York City. Principal, $7,000.


COLBY MITCHELL CHESTER (1958). Established by the Chairman of the Board of General Foods Corporation, New York City. Principal, $11,809.

CHRISTIAN SERVICE SCHOLARSHIP (1953). In memory of Gertruida Niemeyer; established by her daughters, Gertrude and Joanne, and her son, Reinder, in memory of their mother, who immigrated to the United States from Holland. Preference is given a student from Merriam Park Presbyterian Church, St. Paul, who is planning to enter Christian service sponsored by the church. Principal, $4,880.

CHURCH VOCATION SCHOLARSHIP OF MERRIAM LEXINGTON PRESBYTERIAN CHURCH (1963). Established by the congregation of the Merriam Park Presbyterian Church, St. Paul. For students who wish to prepare for a church occupation. Principal, $10,259.

BLAKE CLARK (1963). Established by Mr. Clark, Capitol Car Distributors, Ltd., Takoma Park, Maryland. Principal, $5,000.

GLENN CLARK (1957). Established by friends and alumni in memory of Professor Clark, Chairman of the English Department and track coach at Macalester 1912-44. Principal, $7,861.

CLASS OF 1910 (1967). Established by Miss Ann Elizabeth Taylor. For children of United Presbyterian ministers with preference given to the children of ministers whose income is less than the median salary of all Presbyterian ministers at the time. Principal, $6,000.


HOMER P. COCHRAN (1963). Established by the Senior Vice-President of the Morgan Guaranty Trust Co., New York City. Principal, $10,000.

H. W. COFFIN (1926). Established by Mrs. Mary E. Coffin, Duluth, Minnesota. For a student who is a relative of the H. W. Coffin family, or who is from the Glen Avon Presbyterian Church, Duluth, preparing for the ministry or missionary work, in the order named. Principal, $2,500.

A. L. COLE (1957). Established by the Vice President and Director of The Reader’s Digest Association, Inc. Principal, $36,000.

COLGATE-PALMOLIVE COMPANY (1967). Established by the Colgate-Palmolive Company, New York City, for male students who plan a business career. Principal, $12,500.

CONSOLIDATED FOODS CORPORATION (1967). Established by the New York food processing and distributing company. Principal, $25,000.

JOHN C. CORNELIUS (1958). Established by the Minneapolis advertising executive and former President of the American Heritage Foundation. Principal, $5,700.


MARY M. COULTER (1971). Established by bequest in the will of Edwin V. Coulter to honor his wife. Principal, $10,000.

GARDNER COWLES (1961). Established by the Chairman, Cowles Communications, Inc. Principal, $24,000.

IRA L. CRAWFORD (1903). Established by his brothers and sisters in memory of Ira L. Crawford, a pioneer of Rock County, Minnesota. Principal, $2,500.

CHARLES A. DANA (1962). Established by the industrialist. Awarded only to students in the upper three classes of the College. Principal, $50,000.

DR. AND MRS. SOLOMON D. DAVID (1960). Established by Dr. David, orthopedic surgeon, Houston, Texas, Macalester Class of 1913. Principal, $24,941.


THE GEORGE W. DAVIS MEMORIAL SCHOLARSHIP FUND IN RELIGION (1959). Established by Ethel Mary Davis in memory of her husband. This fund is awarded by the Department of Religion to juniors (for use in their senior year) who in the judgment of the department have attained the highest degree of excellence. Principal, $25,534.

WALTER H. AND LYDIA JUENEMANN DEUBENER (1964). Established by the Deubener-Juenemann Foundation and named for Mr. and Mrs. Deubener, who developed the paper shopping bag. Principal, $49,000.

WALTER F. DILLINGHAM (1957). Established by the Honolulu industrialist. Principal, $25,000.

CLEVELAND E. DODGE (1959). Established by Mr. Dodge, a Director of Phelps Dodge Corporation, copper company, New York City. Principal, $28,500.

ALBERT DORNE (1964). Established by the President of the Famous Artist Schools, Inc., Westport, Connecticut, and New York City. Principal, $12,033.


CARL A. AND KATHARINE D. DREVES (1965). Established by Mr. Dreves on Mrs. Dreves’ 75th birthday. Principal, $25,000.

CARL AND MARGARET DREVES (1963). Established by Mr. Dreves, a retired St. Paul businessman. Principal, $25,000.

MARGARET WEYERHAEUSER DRISCOLL (1960). Established by Mrs. Walter B. Driscoll, member Macalester Board of Trustees since 1946. Principal, $7,000.

PENDLETON DUDLEY (1957). Established by the senior partner of Dudley-Anderson-Yutzy of New York City, who was known as dean of the public relations profession. For an unusually talented young man who aspires to be a teacher. Principal, $19,000.

DR. AND MRS. J. HUNTLEY DUPRE (1967). Created by alumni and friends for upperclass majors in history or political science interested in teaching or in public service, at home or abroad, to honor Dr. Dupre, Professor of History 1946-64 and Dean of the College 1951-61, and his wife. Principal, $10,978.

FREDERICK H. ECKER (1958). Established by the President and Chairman of the Metropolitan Life Insurance Company. Principal, $6,500.

CHARLES EDISON (1957). Established by the former Governor of New Jersey, former Secretary of the Navy and son of inventor Thomas Edison. For a student of unusual promise interested in a career in science. Principal, $19,500.


EDWIN S. ELWELL — MIDDLE EAST (1964). Established by Mr. Elwell and the Directors of the American Friends of the Middle East for a student attending Macalester from a Middle Eastern Country. Principal, $30,000.


HARVEY S. FIRESTONE, JR. (1960). Established by the former Chairman of the Firestone Tire and Rubber Company. Principal, $20,400.

FIRST PRESBYTERIAN CHURCH OF LAKE CRYSTAL, MINNESOTA (1960). Established by the Presbyterian Church of Lake Crystal with money received from the R. G. James estate. Principal, $3,000.

RAOUL H. FLEISCHMANN (1959). Established by the President and Chairman of the New Yorker Magazine. Principal, $10,000.

ARTHUR S. FLEMMING (1971). Established by students, trustees, faculty, staff, alumni and friends to honor Macalester's 11th President 1968-71. To be awarded to a Minnesota freshman from a minority group. Principal, $10,946.

HENRY N. FLYNT (1967). Established by Mr. Flynt, an attorney from Greenwich, Connecticut. Principal, $12,500.


D. FRAAD, JR. (1959). Established by the Chairman of the Board of Allied Maintenance Corporation of New York City. Principal, $8,000.

WILFRED FUNK (1957). Established by Mr. Funk, New York City book and magazine publisher. For a student of unusual ability. Principal, $10,000.

GENERAL ELECTRIC FOUNDATION (1966). Established by the General Electric Foundation for students majoring in chemistry. Principal, $40,000.

GENERAL FOODS FUND, INC. (1962). Established by the manufacturers of cereals and packaged foods. Principal, $25,000.

ROBERT B. GILE — MIDDLE EAST (1963). Established by Mr. Gile and the Directors of the American Friends of the Middle East for a student attending Macalester from a Middle Eastern country. Principal, $10,000.

ROBERT AND JEAN GILRUTH (1964). Established by Dr. Robert R. Gilruth, head of the Manned Space Center who was responsible for selection and training of astronauts for Project Mercury. To assist a student majoring in the physical sciences or one who is working on a special science project. Principal, $5,000.


SAMUEL GOLDWYN (1962). Established by the Chairman of the Board, Samuel Goldwyn Productions, Inc. Principal, $10,000.

GRACE PRESBYTERIAN CHURCH (1961). Established by the Women's Association of Grace Presbyterian Church of Minneapolis and George P. Leonard of California. Principal, $2,850.

THEODORE GRANIK (1962). Established by the founder and director of "American Forum of the Air." Principal, $14,000.
ENDOWED SCHOLARSHIPS

WILLIAM T. GRANT (1956). Established by the chain store executive of New York City. For a student of outstanding academic achievement. Principal, $20,000.


RUTH AND FRED GUINZBURG (1961). Established by Mr. and Mrs. Guinzburg, New York City. Principal, $5,000.


JAMES GUY (1960). Established by James Todd Guy, attorney at law, Milwaukee, Wisconsin, Macalester Class of 1908, in memory of his father, who was a member of the College staff at the turn of the century. Principal, $2,500.

J. H. (Mo.) (1929). From an anonymous donor of Missouri. Principal, $48,000.

JOHN P. HALL (1961). Established by Dr. L. Margaret Johnson, Macalester Class of 1920, in memory of Professor Hall, Registrar and Professor of Greek, 1897-1945, baseball coach and Men's Glee Club director. Principal, $6,900.


CHARLES HATTAUER (1958). Established by the New York dental surgeon. Principal, $8,000.

MR. AND MRS. WENDELL O. HAWKINS (1966). Established by Mr. and Mrs. Hawkins, Minneapolis. Principal, $4,761.

G. L. HEEGAARD (1960). Established by the Minneapolis industrialist, who was a student at Macalester's Baldwin Academy. Principal, $16,800.


MELL AND LYDIA HOBART (1964). Established by Mell W. Hobart, Macalester Class of 1908 and former Macalester Trustee, in memory of his wife, also a Macalester graduate, and supplemented by Ministers Life and Casualty Union. Principal, $27,500.

OVETA CULP HOBBY (1964). Established by the President and Editor of the Houston (Texas) Post. Principal, $10,000.


ARTHUR BRISTOW HOOD (1962). Established by his family and friends in memory of the Vice President of Ralph L. Smith Lumber Company, Macalester Class of 1916. Principal, $3,795.

WARREN C. HUNTER, JR. (1958). Established by Dr. Warren C. Hunter of Portland, Oregon, in memory of his son, Warren, Macalester Class of 1952. For a student who has a genuine interest in public affairs, majoring in social sciences with emphasis in political science. Principal, $10,954.

IBM (1965). Established by International Business Machines Corporation, to be awarded to students majoring in mathematics. Principal, $40,000.

DR. AND MRS. KANO IKEDA (1960). Established by Dr. Charles W. Jarvis, Macalester Class of 1942, St. Paul physician, in memory of Kano Ikeda, M.D., Chief Pathologist at the Charles T. Miller Hospital, and member of the Macalester faculty. For a student majoring in medical technology. Principal, $3,804.


HOWARD JOHNSON (1958). Established by the chain restaurant executive of New York City. Principal, $65,000.

JULIA M. JOHNSON (1959). Established by DeWitt Wallace in memory of Mrs. Julia M. Johnson, first woman professor at Macalester (English Literature 1898-1935) and first Dean of Women. Principal, $8,110.


WALTER H. JUDD (1963). Established by the former Minnesota Congressman for a student who is concentrating on studies in government or international relations. Principal, $11,000.

EDWIN KAGIN PRIZE SCHOLARSHIP (1960). Established by Dr. and Mrs. William H. A. Watson and other former students and friends of Dr. Kagin, Professor of Religion 1926-52. Awarded to a junior who is preparing for a church vocation. Principal, $12,731.

MARY FRANCES JOHNSTONE KAGIN MEMORIAL (1966). Established by her husband, Dr. Edwin Kagin, relatives and friends. To be awarded to a student planning for a fulltime church vocation for use during the sophomore year. Principal, $16,414.

HENRY J. KAISER FAMILY FOUNDATION (1959). Established by the Henry J. Kaiser Family Foundation of Oakland, California, and named for the industrialist and builder. For a pre-medical student who qualifies on the basis of ability, character and financial need. Principal, $20,000.

ROBERT J. KEITH MEMORIAL (1973). Established by the Pillsbury Company, Minneapolis, in memory of its late Chairman and Chief Executive Officer. Mr. Keith was a member of the Macalester College Board of Trustees. Principal, $25,000.

DR. WILLIAM H. KENDALL (1960). Established by Dr. Kendall, a clergyman of Florissant, Missouri, Macalester Class of 1904. Principal, $2,500.

MILDRED PHILLIPS KINDY (1967). Established by Miss Ann Elizabeth Taylor in memory of her classmate. For students specializing in piano or voice. Principal, $4,000.

JAMES R. KIRBY (1960). Established by Mr. Kirby, educator of Casper, Wyoming, Macalester Class of 1951. Principal, $4,000.

JULIUS KLEIN (1959). Established by the consultant of Latin American governments and former United States Secretary of Commerce. Principal, $5,000.

WALTER KNOTT (1964). Established by the founder of Knott's Berry Farm and Ghost Town, Buena Park, California. Principal, $20,000.

EDWARD LAMB (1964). Established by Mr. Lamb, Toledo, Ohio, lawyer and business executive. Principal, $77,363.

THOMAS S. LAMONT (1963). Established by Mr. Lamont, a Director of the Morgan Guaranty Trust Co. Principal, $10,000.


JUSTUS BALDWIN LAWRENCE (1964). Established by the Chairman of the International Fact Finding Institute, New York City, as a memorial to his wife, Mary Peace Lawrence. Principal, $10,185.

ROBERT LEHMAN (1964). Established by Robert Lehman of Lehman Brothers, New York City. Principal, $10,000.


GEORGE P. LEONARD (1960). Established by Mrs. George P. Leonard, Macalester Class of 1927, Stinson Beach, California, in honor of her husband. Principal, $33,255.

MRS. WILLIAM H. LEONARD (1959). Established by Mr. and Mrs. George P. Leonard, Macalester Class of 1927, Stinson Beach, California, in memory of Mr. Leonard's mother. Principal, $16,725.


HOBART AND EDITH LEWIS (1960). Established by Mr. and Mrs. Hobart Lewis of Katonah, New York. Principal, $7,000.

EDMUND W. AND DORIS E. LIENKE (1966). Established by
ENDOWED SCHOLARSHIPS

Edmund Lienke, Class of 1938, and his wife. To be awarded to a junior or senior majoring in business or economics with special consideration to anyone interested in the field of life insurance. Principal, $4,500.

WALTER A. LIENKE (1961). Established by his bequest and supplemented by the members of his family and friends. To be awarded to students majoring in music. Principal, $8,710.


SAMUEL E. LOWE (1965). Created by Paul Lyle, Executive Vice President, Western Printing and Lithographing Company, Racine, Wisconsin. Principal, $7,060.


MACALESTER CLUB OF NEW YORK (1967). Established by alumni with priority use for students from the East Coast. Principal, $9,569.

MACALESTER PLYMOUTH UNITED CHURCH (1965). Established by the Session of Macalester Presbyterian Church, St. Paul. Principal, $5,115.

MACALESTER WOMEN'S THRIFT SHOP (1973). Established by the Macalester Women's Organization to provide scholarship assistance for full-time students who have completed at least six courses at Macalester. Preference is given to women. Principal, $3,000.

ROSWELL MAGILL (1958). Established by the President of the Tax Foundation, partner in the New York law firm of Cravath, Swaine and Moore and former Undersecretary of the Treasury. Principal, $5,000.

WILLIAM H. AND HELEN HOYE MAHLE (1964). Established by Mr. and Mrs. William H. Mahle, Macalester Classes of 1936 and 1934. Principal, $18,716.

GEORGE M. MARDIKIAN (1957). Established by the San Francisco restaurateur (Omar Khayyam's) and author. For a journalist from the Near East who is enrolled in Macalester's World Press Institute. Principal, $18,500.

MARSH & McCLENNAN (1967). Established by the New York City insurance brokers. Principal, $10,000.

EDWARD EVERETT McCABE (1920). Established through a bequest in the will of Mr. McCabe, Macalester Class of 1914, who was a Lieutenant in the U. S. Aviation Corps, World War I and the first Macalester alumnus to leave a legacy to the College. Principal, $2,500.


MEAD CORPORATION (1965). Established by the Mead Corporation, Dayton, Ohio. Principal, $10,000.

MERRIAM LEXINGTON PRESBYTERIAN CHURCH (1926). Established by members of this St. Paul church. For two students, nominated by the church, who aspire to careers in religious work. Principal, $3,870.


JAMES A. MICHENER (1968). Established by the author. Principal, $5,000.

JEREMIAH MILBANK (1962). Established by Mr. Milbank, a New York City corporation executive. Principal, $26,000.

ROGER MILLIKEN (1962). Established by the President of Deering-Milliken, Inc., textile manufacturers. Principal, $15,520.

MANDO (1959). Established by Minnesota and Ontario Paper Company, manufacturers of specialty papers, newsprint and insulation materials. Students from International Falls, Minnesota, and Fort Frances and Kenora, Ontario, area are given preference. Freshmen eligible. Principal, $6,000.

MINNESOTA RUBBER COMPANY (1968). Established by the Minneapolis corporation for students majoring in the natural
and behavioral sciences with first consideration given to children of their employees. Principal, $100,000.

MOBIL (1967). Established by Mobil Oil Corporation to be awarded to promising upperclass students interested in pursuing chemistry, physics or business as a career. Principal, $25,000.


MOORE — MIDDLE EAST (1963). Established by Mrs. Allan Q. Moore and the Directors of the American Friends of the Middle East, for a student attending Macalester from a Middle Eastern country. Principal, $16,666.

MALCOLM MUIR (1962). Established by Mr. Muir, a Director of Newsweek magazine. Principal, $5,000.

JAMES MULVEY MEMORIAL (1922). Established by the Misses Jessie and Edna Mulvey in memory of their father, James Mulvey, a lumberman. For a student committed to fulltime church service. Principal, $12,500.


KATHRYN JO NEILY MEMORIAL (1963). Established by Mr. and Mrs. Joseph E. Neily in memory of their daughter, who died during her freshman year at Macalester. Principal, $50,273.


EDWARD JOHN NOBLE FOUNDATION (1958). Established by the Chairman of both the American Broadcasting Company and the Beech-Nut Life Savers Corporation, New York City, and continued by the Foundation. Principal, $26,000.


CATHERINE L. O'BRIEN (1958). Established by the Chairman of the Board of Stanley Home Products, Westfield, Massachusetts. Principal, $17,500.


ELLA M. OSBORNE (1942). Established through a bequest in the will of Mrs. Edwin W. Osborne of St. Paul, wife of the former Chief Fire and Insurance Inspector of the Northern Pacific Railroad. Principal, $2,800.

OUTWARD BOUND (1966). Established by John P. Stevens, Jr., of New York City to assist Macalester students to attend Outward Bound Schools. Principal, $20,000.

WILLIAM S. PALEY (1967). Established by the Chairman of the Board of the Columbia Broadcasting System. Principal, $5,000.

GEORGIANA P. PALMER (1968). Established by friends and colleagues of Georgiana P. Palmer, for thirty-seven years Professor of Classical Languages and Russian at Macalester College. Preference is given to students majoring in these languages. Principal, $2,684.

CARLO M. PATERNO FOUNDATION (1967). Established by Mr. Paterno, North Salem, New York. Principal, $5,000.

DR. AND MRS. ROBERT LEE PATTERSON, JR. (1967). Established by Dr. and Mrs. Patterson, New York City. Principal, $7,500.

PEAVEY COMPANY FOUNDATION (1966). Established by the Minneapolis based grain firm. Principal, $25,000. $8,482.


POLK FOUNDATION (1968). Established by the Polk Foundation with preference given to men majoring in economics or men or women majoring in the behavioral sciences. Principal, $125,000.

DAVID C. PRIMROSE (1956). Established by his family, friends and former students in memory of Professor David C. Primrose, Director of Physical Education and track coach at Macalester 1926-54. For a junior man who participates in intercollegiate activities, has leadership ability and satisfactory academic standing. Principal, $8,672.

SAMUEL F. PRYOR (1965). Established by the Vice-President of Pan American Airways. Principal, $5,000.

EUGENE C. PULLIAM (1958). Established by the Indiana and Arizona newspaper publisher. Principal, $36,100.

SAMUEL WESLEY RAUDENBUSH MEMORIAL (1956). Created by Mrs. Alma M. Raudenbush as a memorial to her husband and awarded to a Protestant woman junior music major. Principal, $5,000.


ST. PAUL PRESBYTERY (1931). Established by the Presbytery. For a student nominated by the Presbytery. Principal, $2,500.

CLARKE SALMON MEMORIAL (1959). Established by Mr. and Mrs. DeWitt Wallace in memory of the New Orleans editor, Clarke Salmon, who was a founder of the American Society of Newspaper Editors and of the Associated Press Managing Editors Association. Principal, $3,000.

MR. AND MRS. PLATO E. SARGENT (1965). Established by Plato E. Sargent, Macalester Class of 1915, and Mrs. Sargent for students seeking to enter vocations in the Presbyterian Church. Principal, $12,788.

HARRY SCHERMAN (1958). Established by the founder of the Book of the Month Club. Principal, $16,000.

GEORGE E. SCOTTON (1963). Established anonymously by an alumnus of the College to honor a fellow member of the Class of 1921, Mr. Scotton, who directed Macalester's admissions office for 30 years. Awarded to an outstanding scholar and athlete. Principal, $21,920.

JOHN W. SEALE MEMORIAL (1968). Established by Paul H. Davis, Macalester Trustee-at-Large Emeritus, in memory of Mr. Seale, General Secretary of Macalester College. Principal, $40,005.

HAROLD B. SHAPIRA (1967). Established by Mr. and Mrs. Harold B. Shapira of St. Paul to assist an Israeli student to attend Macalester College under the International Exchange Plan. Principal, $25,000.

THOMAS SHAW (1931). Established by Professor Shaw, who was a member of the Board of Trustees 1898-1918 and President of the Board 1901-19. For a student nominated by the Central Presbyterian Church of St. Paul. Principal, $3,044.

CHESTER H. SHIFLETT (1966). Established by former students and friends to honor Professor Shiflett on his retirement as Professor of Chemistry 1929-66. To be awarded to a student majoring in chemistry. Principal, $26,231.


ADMIRAL LEWIS L. STRAUSS (1960). Established by friends of Admiral Strauss in appreciation of his distinguished public career and for his Commencement address (1960) at Macalester. Principal, $14,125.

DWIGHT D. STUESSY (1957). Established by alumni, friends and members of the "M" Club in memory of Dwight D. Stuessy, Macalester Athletic Director 1946-57. Principal, $8,482.

BORGHILD K. SUNDHEIM (1968). Established by alumni, colleagues and friends in memory of Dr. Sundheim, Professor and Chairman of French 1927-67, the recipient to be an upperclass French major nominated each year by the French Department. Principal, $4,142.

HENRY J. TAYLOR (1957). Established by the United States Ambassador to Switzerland. For an unusually promising young man. Principal, $6,000.


LOWELL THOMAS (1957). Established by the author, newscaster and lecturer. Principal, $18,000.

TOBIN-SMITH (1962). Established by Chester M. Tobin and Edward M. Smith, St. Paul. Awarded to students accomplished in the Scottish arts of piping or drumming. Principal, $20,000.

JAMES E. TRIPP (1968). Established by Mr. and Mrs. Oakley Tripp, Class of 1912, to be used for a student from a minority group — American Indian or Negro, or, on occasion, for a foreign student. Principal, $10,000.


GENE TUNNEY (1967). Established by the former boxing champion. Principal, $5,000.


ROBERT A. UPPGREN MEMORIAL (1967). Given by the family and friends of Robert A. Uppgren, Macalester Class of 1946, to be awarded with preference to a student of the biology of natural resources. Principal, $3,262.

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Established By</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DeWITT WALLACE — LILA ACHESON WALLACE HONORARY</td>
<td>Macalester faculty and staff</td>
<td>The scholarship is established to honor Mr. and Mrs. Wallace in appreciation of their contributions to the College. To be awarded to a</td>
</tr>
<tr>
<td>SCHOLARSHIP FUND (1959)</td>
<td></td>
<td>student of high intellectual promise and in serious financial need. Two thousand dollars has been added to the principal by an anonymous donor. Principal, $14,750.</td>
</tr>
<tr>
<td>JAMES WALLACE (1916)</td>
<td>family of Dr. Wallace</td>
<td>Established by the family of Dr. Wallace, Macalester Professor 1887-1939 and President 1894-1906. Principal, $33,800.</td>
</tr>
<tr>
<td>JANET D. WALLACE (1959)</td>
<td>John C. Benson, Macalester Trustee Emeritus</td>
<td>Established by John C. Benson, Minneapolis attorney and Macalester Trustee Emeritus, in memory of Janet D. Wallace, the wife of Dr. James</td>
</tr>
<tr>
<td>Wallace, Macalester’s fifth President. Principal</td>
<td></td>
<td>$14,750.</td>
</tr>
<tr>
<td>FRANCES M. AND MILTON G. WALLS (1961)</td>
<td>Dr. and Mrs. Milton G. Walls, St. Paul</td>
<td>Established by Dr. and Mrs. Milton G. Walls, St. Paul. Principal, $14,000.</td>
</tr>
<tr>
<td>O. T. AND KATHRYN M. WALTER (1954)</td>
<td>former students in honor of Dr. Walter</td>
<td>Established by his former students in honor of Dr. Walter, Chairman of Biology at Macalester 1922-63 and in memory of Mrs. Walter. For a</td>
</tr>
<tr>
<td></td>
<td>Chairman of Biology at Macalester 1922-63 and in memory</td>
<td>student of high intellectual promise and in serious financial need. Two thousand dollars has been added to the principal by an anonymous donor. Principal, $20,381.</td>
</tr>
<tr>
<td></td>
<td>of Mrs. Walter. For a senior pre-medical student who</td>
<td>Established by his former students in honor of Dr. Walter, Chairman of Biology at Macalester 1922-63 and in memory of Mrs. Walter. For a</td>
</tr>
<tr>
<td></td>
<td>has made the most of his opportunity at Macalester</td>
<td>student of high intellectual promise and in serious financial need. Two thousand dollars has been added to the principal by an anonymous donor. Principal, $20,381.</td>
</tr>
<tr>
<td></td>
<td>College and who by his character, scholarship and</td>
<td>Established by his former students in honor of Dr. Walter, Chairman of Biology at Macalester 1922-63 and in memory of Mrs. Walter. For a</td>
</tr>
<tr>
<td></td>
<td>citizenship gives great promise of success in his</td>
<td>student of high intellectual promise and in serious financial need. Two thousand dollars has been added to the principal by an anonymous donor. Principal, $20,381.</td>
</tr>
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<td></td>
<td>chosen profession. Principal</td>
<td>Established by his former students in honor of Dr. Walter, Chairman of Biology at Macalester 1922-63 and in memory of Mrs. Walter. For a</td>
</tr>
<tr>
<td>F. EARL WARD (1965)</td>
<td>students, friends and colleagues of Professor F. Earl</td>
<td>Established by students, friends and colleagues of Professor F. Earl Ward, Chairman of the College’s English Department, the recipient and</td>
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<tr>
<td></td>
<td>Ward, Chairman of the College’s English Department,</td>
<td>upperclass English major nominated each year by the English Department. Principal, $6,539.</td>
</tr>
<tr>
<td>FRED A. WATEROUS (1962)</td>
<td>President of the Board of the Waterous Company, St.</td>
<td>Established by the President of the Board of the Waterous Company, St. Paul. Principal, $5,000.</td>
</tr>
<tr>
<td>RIDLEY WATTS (1965)</td>
<td>retired New York textile manufacturer. Principal, $10,000</td>
<td>Established by the retired New York textile manufacturer. Principal, $10,000.</td>
</tr>
<tr>
<td>E. A. WEBB (1915)</td>
<td>bequest in the will of Mr. Webb, founder of the Webb</td>
<td>Established through a bequest in the will of Mr. Webb, founder of the Webb Publishing Company, St. Paul. Principal, $3,044.</td>
</tr>
<tr>
<td></td>
<td>student from the Central Presbyterian Church of St.</td>
<td>Established through a bequest in the will of Mr. Webb, founder of the Webb Publishing Company, St. Paul. Principal, $3,044.</td>
</tr>
<tr>
<td>SIDNEY J. WEINBERG (1963)</td>
<td>New York City investment broker. Principal, $10,000</td>
<td>Established by the New York City investment broker. Principal, $10,000.</td>
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<tr>
<td></td>
<td>and Weldon. Principal, $7,700.</td>
<td>Established by Mr. Weldon, partner in the New York City accounting firm of Hunter and Weldon. Principal, $7,700.</td>
</tr>
<tr>
<td>LOUIS F. WEYAND (1963)</td>
<td>an executive of Minnesota Mining and Manufacturing Co.</td>
<td>Established by an executive of Minnesota Mining and Manufacturing Co. and a Trustee of Macalester College. Principal, $6,841.</td>
</tr>
<tr>
<td></td>
<td>and a Trustee of Macalester College. Principal, $6,841.</td>
<td>Established by an executive of Minnesota Mining and Manufacturing Co. and a Trustee of Macalester College. Principal, $6,841.</td>
</tr>
<tr>
<td>WHITE BEAR LAKE PRESBYTERIAN CENTENNIAL (1963)</td>
<td>First Presbyterian Church of White Bear Lake, Minnesota</td>
<td>Established by the First Presbyterian Church of White Bear Lake, Minnesota, for a student who plans to enter a church vocation. Principal, $15,000.</td>
</tr>
<tr>
<td>WHITE-OLDS (1960)</td>
<td>Dr. F. Laurence White</td>
<td>Established by Dr. F. Laurence White and his wife, Dorothy Olds White, Macalester Class of 1923, missionary educators, in memory of</td>
</tr>
<tr>
<td></td>
<td>and his wife, Dorothy Olds White, Macalester Class of</td>
<td>their parents. Principal, $16,263.</td>
</tr>
<tr>
<td>GRACE B. WHITRIDGE (1956)</td>
<td>former students of Miss Whitridge, Professor of Drama</td>
<td>Established by former students of Miss Whitridge, Professor of Drama and Speech at Macalester 1900-41. Preference is given to a student</td>
</tr>
<tr>
<td></td>
<td>and Speech at Macalester 1900-41. Preference is given</td>
<td>in speech. Principal, $12,222.</td>
</tr>
<tr>
<td>MABEL WICKER (1970)</td>
<td>as a memorial to Mr. Will, Macalester Class of 1954.</td>
<td>Established through a bequest in the will of Miss Wicker, Macalester Class of 1904, a public school teacher. Principal, $17,757.</td>
</tr>
<tr>
<td>JAMES S. WILL (1961)</td>
<td>classmates and friends</td>
<td>Established by classmates and friends as a memorial to Mr. Will, Macalester Class of 1954. Principal, $5,799.</td>
</tr>
<tr>
<td>WINTON EXCELLENCE SCHOLARSHIPS AT MACALESTER</td>
<td>Helen Winton Jones, David J. Winton and Charles J.</td>
<td>Established by Helen Winton Jones, David J. Winton and Charles J. Winton, Jr. Students from the Minnesota Iron Range area given preference. Principal, $37,500.</td>
</tr>
</tbody>
</table>
Director and President of Sears, Roebuck & Company, Chicago. Principal, $5,000.

STEMLA LOUISE WOOD (1964). Established by the alumnae of Miss Wood's School of Macalester, for students interested in elementary education. Principal, $13,000.


MARIE WUNDERLICH (1959). Established by Martin Wunderlich, Omaha and San Francisco contractor, in memory of his mother, Marie Wunderlich, who brought him at the age of three to this country from Denmark. For a student preferably of Danish background. Principal, $10,000.


FORREST A. YOUNG (1964). Established by Murel L. Humphrey, Macalester Class of 1934, to honor Dr. Young, Economics Department Chairman 1929-65, who was his former professor and major adviser. It is awarded to students majoring in economics. Principal, $30,305.

MARY S. AND THOMAS E. YOUNG (1961). Established by Mr. and Mrs. Young, financiers, Portland, Oregon. Principal, $21,000.

ROBERT R. YOUNG (1957-1964). Established by the President of the New York Central Railroad and augmented by his successor, Alfred E. Perlman, and other friends of Mr. Young. Principal, $8,556.

Loan Funds

ALLISS STUDENT LOAN FUND (1968). Established by the Alliss Foundation. The principal is available to any needy Macalester students. Payments start four months after leaving the College. Principal, $301,761.

CARRIE E. ALVORD STUDENT LOAN FUND (1965). Established by the Alvord Foundation and available to any needy Macalester students and is interest-free until the borrower leaves the College. Principal, $12,087.

JUDITH BEACH MEMORIAL BOOK LOAN FUND (1964). Established by Mr. and Mrs. Rex Beach and friends, in memory of their daughter who died in her freshman year at Macalester. Principal, $1,301.

CLASS OF 1943 LOAN FUND (1943). The Class of 1943 purchased war bonds as a Class memorial to be left with the College as a loan fund for Macalester ex-servicemen and their direct descendants. Principal, $300.

L. D. COFFMAN (1926). The principal of this fund is used as a general loan fund. Interest received from students is applied to increase the principal. Principal, $300.

DAMES OF THE ROUND TABLE (1923). This fund was established in memory of Mrs. Jennie E. Straight. Loans are to be repaid not later than one year after the student has left college. An extension may be granted at the discretion of the College with consent of the donors. Principal, $120.

PAUL A. EWERT ENDOWED (1925). This fund was established by the will of Paul A. Ewert, Class of 1894, the income of which is to be used in making loans to worthy students. Principal, $5,000.

JAMES FARICY (1949). The principal of this fund is used as a general loan fund to worthy students. Principal, $200.


GEORGE J. HECHT — PARENTS’ MAGAZINE FOUNDATION (1962). A grant making loan funds of $256,250 available from banks through underwriting by United Student Aid Funds, Inc.

JENNIE HODGMAN (1942). This fund, administered by the Macalester Women's Club, is used for loans to junior and senior women. Principal, $5,001.

LARRY HONHART MEMORIAL BOOK LOAN FUND (1972). Established by his wife, Jeannie, Class of 1969, in memory of Lawrence P. Honhart, Class of 1968, for students with financial need to purchase textbooks. Principal, $500.

KNOX MEMORIAL ENDOWED (1926). This fund, established by Mrs. Jane Knox of Jackson, Minnesota, provides income for loans to worthy students. Principal, $2,500.
SPECIAL SCHOLARSHIPS/PRIZES

MACALESTER COLLEGE LOAN FUND (1967). This program provides for low-interest (2.5 per cent), deferred-payment loans up to $1,000 per student per year. Interest is waived and payment of principal is deferred while the student is enrolled at Macalester, is attending a graduate school after graduating from Macalester, or is a full-time member of the U.S. Armed Forces. Repayment begins four months after discontinuance of full-time student or military status and must be completed within a five-year period.

MEMORIAL LOAN FUND. Established through gifts to the College, it is used specifically for loans to students for college expenses. Principal, $28,185.

NATIONAL DEFENSE STUDENT LOANS. Macalester College participates in the National Defense Student Loan program, created under the National Defense Education Act of 1958. These loan funds are available to eligible students on a long term basis at a low rate of interest (three per cent) beginning nine months after the student ceases to carry half of the normal full-time workload at an eligible institution. Applications must be made to the Student Financial Aid Committee on forms provided by the College.

WILLIAM F. ROGERS MEMORIAL ENDOWED (1927). This fund, bequeathed by Mr. Rogers, provides income which is available for student loans. Principal, $5,000.


SENIOR LOAN FUND (1961). This fund has been created by Messrs. DeWitt Wallace, Charles B. Thomes and George P. Leonard for the specific purpose of providing needy senior students with low interest, easy payment loans; interest at four per cent begins October 1 following graduation. Principal, $80,609.

HENRY STRONG EDUCATIONAL FOUNDATION (1959). This fund was created under the will of General Strong for loans to juniors and seniors in the upper third of their class. Interest at four per cent begins to accrue at graduation. Repayment may be made over a four-year period beginning at graduation. Principal, $42,187.

JAMES WALLACE ALUMNI LOAN FUND (1939). This fund was established by the Alumni Association as a memorial to Dr. James Wallace. The principal of this fund is available for juniors and seniors who have maintained a scholastic average of C or better for the year preceding the granting of the loan. Principal, $28,191.

Special and Annually Contributed Scholarships

THE CHARLES AND ELLORA ALLISS EDUCATIONAL FOUNDATION. An educational trust created by the will of Charles Clifford Alliss of Gull Lake, Minnesota, provides scholarships each year for undergraduate students preferably Minnesota residents in the upper 40% of their class.

CALIFORNIA SCHOLARSHIP FEDERATION FOR SEALBEARERS. One scholarship for one year, value up to $2,000 depending on need. The College will select a CSF Sealbearer as the recipient, employing the same criteria that are used with the award of all other freshman scholarships. Applicants need not apply specifically for this CSF scholarship, but Sealbearer status must be verified by the CSF adviser. Scholarship is renewable if need continues and holder has satisfactory record of grades and conduct.

MACALESTER PARENTS FOR INTERNATIONAL RELATIONS FINANCIAL AID FUND (1962). The organization contributes annually to a fund to be awarded to outstanding international students at Macalester College whose academic achievements merit financial assistance.

NATIONAL PRESBYTERIAN COLLEGE SCHOLARSHIP PROGRAM. The Board of Christian Education of the United Presbyterian Church awards a number of National Presbyterian Scholarships each year to qualified Presbyterian students on the basis of competitive examinations.

THE PRESSER FOUNDATION SCHOLARSHIP FUND FOR MUSIC STUDENTS. Intended for music and music education majors who plan to become teachers.

READER'S DIGEST MERIT SCHOLARSHIPS. Two hundred sixty-eight students were enrolled at Macalester in 1972-73, selected by the National Merit Scholarship Corporation, and sponsored by the Reader's Digest Association, Inc.

Prizes

At Macalester College the following prizes are awarded in recognition of scholastic achievement and for accomplishment and proficiency.
H. S. ALEXANDER PRIZE. In honor of Dr. Hugh S. Alexander, Professor of Geology at Macalester 1906-48, a prize of $50 is awarded annually to the outstanding senior majoring in geology.

TWIN CITIES CHAPTER OF THE AMERICAN INSTITUTE OF CHEMISTS AWARD. For an outstanding senior planning a career in chemistry.

VIRGINIA McKNIGHT BINGER PRIZE IN THE HUMANITIES. An award of $100 in cash and a copy of Bury’s History of Greece and Cary’s History of Rome to each of two students, one who shows the greatest proficiency in Greek, Latin, or Ancient History, and one who shows the greatest proficiency in modern language or literature.

CASE PRIZE IN WESTERN AMERICAN HISTORY. Established by Leland D. Case, Class of 1922. An annual award of $150 to a student for original research or study of Western American History.

THE CHEMICAL RUBBER COMPANY AWARD. For outstanding achievement in freshman chemistry.

COLLINS PRIZES IN EXTEMPORANEOUS SPEAKING. Established by the late Dr. G. Rowland Collins, Class of 1916, former Dean, School of Business, New York University. Awarded annually.

MARY LOUISE CONRAD ENDOWED AWARDS FOR ACHIEVEMENT IN ART. Established by parents and friends in memory of Mary Louise Conrad, Class of 1973. The endowed fund provides $50 annually for the purchase of art books to be awarded as prizes to students whose work is shown in the Spring Art Show.

CHARLES W. FERGUSON PRIZES IN PUBLIC SPEAKING. Established by a senior editor of the Reader’s Digest. Each year prizes from $50 to $300 are awarded to any regularly enrolled student on the basis of the student’s demonstrated ability in public speaking during the entire forensic year. In particular, awards will be made to students who exhibit a sense of propriety in their remarks, and who gain instant rapport and maintain this rapport throughout the course of the speech.

FUNK PRIZES. For the encouragement of outstanding achievement in history, the Henry D. Funk Memorial Foundation, established in 1929 by his wife, offers $100 annually in three prizes. These prizes are awarded respectively to the senior and two juniors, majoring in history, who have demonstrated the highest achievement in the work of the department.

NOYES PRIZES. Established by Mrs. D. R. Noyes through a gift of $2,000, the interest of which is used as prizes for student scholarships. These are awarded to the first honor students of the senior, junior and sophomore classes.

DONALD G. PATERSON AWARD. Awarded by the Minnesota Psychological Association to the outstanding senior in Minnesota planning a career in psychology.

THE ELAINE GARTNER PILON HONORARY AWARD. A year’s subscription to Fortune Magazine is given annually to a senior major in economics and business: the criteria of choice are scholarly achievement and contribution to the Department. Established by Elaine Gartner Pilon, Class of 1945.

SCHUBERT CLUB MUSIC LESSON TUITION AWARD. Given to two outstanding student performers.

STRINGER PRIZE. In memory of her husband, Mrs. E. C. Stringer bequeathed $500 to the College, the income of which is awarded to the students who place first and second in an original oratorical contest.

LOWELL THOMAS PRIZES IN PUBLIC SPEAKING. Established by the author, newscaster and lecturer. Each year prizes from $50 to $300 are awarded on the basis of financial need to students who have made significant contributions while representing the College in intercollegiate debate and forensic competition.

THE WALL STREET JOURNAL PRIZE. A medal of merit and a year’s subscription to the Wall Street Journal is given annually to the outstanding senior in the field of economics and business.

CAROL A. WURTZEBACH ENDOWED PRIZE IN ORAL INTERPRETATION. Established in 1965 by James W. Pratt and friends in memory of Carol A. Wurtzebach, this prize is to be awarded at the discretion of the Speech Department to a student, or students, for excellence in oral interpretation.
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<th>Position</th>
<th>Name</th>
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<td>JOHN M. DOZIER, A.B.</td>
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<td>World Press Institute</td>
<td>Executive Director</td>
<td>C. THEODORE MILLER, B.A.</td>
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<td></td>
<td>Assistant Director</td>
<td>MARK STEDMAN, A.B. (71)</td>
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<td></td>
<td>Assistant to Director</td>
<td>JANICE DICKINSON, A.B. (64)</td>
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<td>JOHN M. DOZIER, A.B.</td>
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<td>Finance and High Winds Officer</td>
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<td>Audio Visual Assistant</td>
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<td>Counselor</td>
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<td>Chaplain</td>
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<td>FERIDOON YUSEFZADEH, A.B. ('71), M.A.</td>
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<td>Associate Director of Admissions and Financial Aid</td>
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<td>Director</td>
<td></td>
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REV. ADAM WEIR RINGLAND,* D.D., 1892-1894
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THOMAS MOREY HODGMAN,* LL.D., 1907-1917
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*Deceased

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Chaplain, Professor of Religion (1947-67); B.A., Wabash College, 1923; B. D., McCormick Theological Seminary, 1926; D.D., Alfred University, 1940; D.D., Macalester College, 1958.

A. PHILLIPS BEEDON
Director of Alumni Affairs; Associate Professor of Journalism (1933-71); B.A., Macalester College, 1928; M.A., University of Minnesota, 1930.

ANNE HELENE BLEGEN
Associate Professor of French (1946-65); B.A., University of Minnesota, 1921; M.A., University of Minnesota, 1930.

RAYMOND JAY BRADLEY
Professor of Education (1932-59); B.S., Cornell College, 1912; Ph.D., University of Minnesota, 1929.

IVAN CHARLES BURG
Assistant Professor of Journalism (1936-71); A.B., Macalester College, 1934.

J. DONALD BUTLER
James Wallace Professor of Religion (1961-72); A.B., University of Omaha, 1929; M.R.E., Biblical Seminary in New York, 1933; Ph.D., New York University, 1937.
MARGARET M. DOTY
Dean of Women and Professor of English (1920-60); B.A., Macalester College, 1914; M.A., Columbia University, 1927, D.H.L. Macalester College, 1960.

DONALD N. FERGUSON
Professor of Music (1950-66); B.A., University of Minnesota, 1904; M.A., University of Minnesota, 1922.

LUCIUS GARVIN
Executive Vice-President and Provost; Professor of Philosophy (1961-71); A.B., Brown University, 1928; A.M., Brown University, 1929; Ph.D., Brown University, 1933; L.H.D., Macalester College, 1971.

WALDO S. GLOCK
Professor of Geology (1948-66); B.A., State University of Iowa, 1920; Ph.D., Yale University, 1925.

RUSSELL BYRON HASTINGS
Professor of Physics (1929-69); B.A., Clark University, 1924; M.A., Clark University, 1925.

KENNETH LEEDS HOLMES
Professor of History (1925-61); B.A., Yale University, 1917; M.A., University of Louisville, 1925; L.H.D., Macalester College, 1973.

CARL A. JENSEN

EDWIN KAGIN
Professor of Religion (1926-52); B.A., Centre College, 1904; B.D., Louisville Presbyterian Seminary, 1907; Th.M., Princeton Seminary, 1922; M.A., Princeton University, 1923; D.D., Centre College, 1937; D.R.E., Boston University, 1940; L.H.D., Macalester College, 1972.

A. ELIZABETH LEINBACH
Associate Professor of Religious Education (1948-66); B.S., University of Minnesota, 1926; M.A., Columbia University, 1928.

ROYAL ARCHIBALD MOORE
Assistant Professor of History (1941-59); B.A., Harvard College, 1905; M.A., Harvard Graduate School, 1906.

MARY GWEN OWEN
Professor of Speech and Drama (1928-68); A.B., Macalester College, 1923; M.A., University of Minnesota, 1936; L.H.D., Macalester College, 1972.

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President (1958-68); A.B., Concord College, 1929; M.A., West Virginia University, 1933; Ph.D., Ohio State University, 1938; L.H.D., Macalester College, 1968.

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HUGO W. THOMPSON
Professor of Philosophy (1943-68); B.A., University of Minnesota, 1923; Ph.D., Yale University, 1935.

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OTTO THEODORE WALTER
Professor of Biology (1922-63); B.A., State University of Iowa, 1916; M.A., 1917; Ph.D., 1923.

FOREST ALBERT YOUNG
Professor of Economics (1929-65); B.S., Monmouth College, 1922; M.A., University of Chicago, 1926; Ph.D., State University of Iowa, 1938.

Staff Emeritus

WILLIAM H. A. WATSON
College Physician (1948-73); B.A., Macalester College, 1942; M.D., University of Minnesota, 1947.
Following is the Macalester College faculty as of Aug. 31, 1973, for the 1973-74 academic year.

**Leave of Absence, Fall Term**

**Leave of Absence, Spring Term**

***Leave of Absence, Academic Year 1973-74

Faculty

(Date in parentheses indicates year of first appointment at Macalester College.)

WILLIAM E. ABRAHAM***

EVELYN ANTONSEN ALBINSON*
Associate Professor of German (1947); B.A., University of Minnesota, 1941; M.A., University of Minnesota, 1944; Ph.D., University of Minnesota, 1967.

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James Wallace Professor of History (1946); B.A., College of Emporia, 1930; Th.B., Princeton Seminary, 1933; M.A., Princeton University, 1933; Ph.D., Princeton University, 1939.

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DONALD BETTS*
Professor of Music (1959); M.M., Indiana University, 1959.

ROGER KELLOGG BLAKELY
Professor of English (1946); B.A., Macalester College, 1943; M.A., University of Minnesota, 1949.

TERRY L. BOCK
Visiting Lecturer in Political Science (1973); A.B., University of Iowa, 1970.

DOUGLAS BOLSTORFF
Associate Professor of Physical Education (1959); B.S., University of Minnesota, 1957; B.S., University of Minnesota, 1959; M.A., University of Minnesota, 1966.

C. MURRAY BRADEN
Professor of Mathematics (1956); B.S., Northwestern University, 1939; M.S., University of Minnesota, 1950; Ph.D., University of Minnesota, 1957.

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JOHN W. BUTT

ANTHONY CAPONI
Professor of Art (1949); B.S., University of Minnesota, 1948; M.Ed., University of Minnesota, 1949.

DONALD DENNIS CELENDER
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GORDON S. CHAMBERLAIN  
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Associate Professor of Mathematics (1968); A.S., Joplin (Missouri) Junior College, 1956; B.A., University of Minnesota, 1958; M.A., University of Minnesota, 1960; Ph.D., University of Minnesota, 1967.

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LUCY C. LANGE
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PHILIP A. LEE, JR.***
Assistant Professor of French (1966); A.B., Bowdoin College, 1956; M.A., University of North Carolina, 1961; Ph.D., University of North Carolina, 1967

HENRY LEPP
Professor of Geology (1964); B.S., University of Saskatchewan, 1944; Ph.D., University of Minnesota, 1954.

ROBERT LESCH
Instructor in Art (1973); B.A., University of Minnesota, 1956.

DAVID EARL LINDSEY
Assistant Professor of Economics (1971); A.B., Earlham College, 1964; Ph.D., University of Chicago, 1970.

RALPH J. LUNDEEN
Professor of Physical Education, Director of Athletics (1954); B.S., University of Minnesota, 1946; M.Ed., University of Minnesota, 1947

JEAN LYLE
Assistant Professor of Education and Director of Stella Louise Wood Children’s Center (1964); B.A., State College of Iowa, 1950; M.S., University of Tennessee, 1954.

MARGARET L. MADDUX
Instructor in Physical Education (1968); B.A., Denison University, 1966; M.A., Sarah Lawrence College, 1968.

MICHAEL J. MALEY
Assistant Professor of Psychology (1968); B.S., Massachusetts Institute of Technology, 1961; Ph.D., University of Minnesota, 1967.

RAMONA MAROTZ
Visiting Assistant Professor of Sociology/Anthropology (1973); B.S., University of Idaho, 1961; M.S., Montana State University, 1963; Ph.D., University of Minnesota, 1970.
GERALD E. MARTIN

WILTON E. MASON III

DAVID W. McCURDY
Associate Professor of Anthropology (1966); B.A., Cornell University, 1957; M.A., Stanford University, 1959; Ph.D., Cornell University, 1964.

CELESTIA ANNE MEISTER**
Associate Professor of English (1948); B.A., Macalester College, 1938; B.S., University of Minnesota, 1940; M.A., University of Minnesota, 1941.

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Professor of Psychology (1958); A.B., Hiram College, 1950; Ph.D., University of Minnesota, 1957.

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GEORGE MOSES
Associate Professor of Journalism (1969); B.A., University of Minnesota, 1937; M.A., University of Minnesota, 1969.

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Associate Professor of Speech Communication (1956); B.A., Macalester College; 1952; M.A., University of Minnesota, 1959; Ph.D., University of Minnesota, 1966.

PETER B. MURRAY

KATSUYOSHI Y. NAKAMURA

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<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>PETER WEISENSEL</td>
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<td>B.S., University of Wisconsin, 1963; M.S., University of Wisconsin, 1965; Ph.D., University of Minnesota, 1973.</td>
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<tr>
<td>LEO T. COLLINS</td>
<td>Athletic Assistant (1973)</td>
<td>B.B.A.</td>
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<tr>
<td>JAMES R. HESSLER</td>
<td>Physics and Astronomy (1966)</td>
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<td>DWANE KOSTRON</td>
<td>Art (1968)</td>
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<td>JOHN H. SANTREE</td>
<td>Chemistry (1965)</td>
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<tr>
<td>MARLENE BAVER</td>
<td>Music (1969)</td>
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<tr>
<td>RICHARD CHRISTMAN</td>
<td>Biology (1970)</td>
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<td>ROXANNE SORENSON</td>
<td>Art (1968)</td>
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<tr>
<td>BRIGETTE ESTRADE</td>
<td>French (1973)</td>
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<tr>
<td>MICHAEL E. STANO, JR.</td>
<td>Speech Communication/Forensics (1973)</td>
<td>B.A., M.A.</td>
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<tr>
<td>Studio Instructors</td>
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<tr>
<td>LARRY BARNHART</td>
<td>French Horn (1972)</td>
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<tr>
<td>MARLENE BAVER</td>
<td>Organ (1969); B.A., S.M.M.</td>
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<tr>
<td>EDWARD D. BERRYMAN</td>
<td>Organ (1963); A.B., D.S.M.</td>
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<tr>
<td>ROBERT BLOCH</td>
<td>Violin (1972); B.A., M.A.</td>
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<tr>
<td>MARIA BUCKA</td>
<td>Piano (1971); B.A., B.S.</td>
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</tbody>
</table>
FACULTY

DANIEL ESTREM
Classical Guitar (1971); B.A.

ADYLINE J. FELSTED
Voice (1963); B.M.

LEA FOLI
Violin (1971).

ROBERT B. FORD

FLORENCE HART
Highland Dance (1972).

RUBEN HAUGEN
Saxophone (1971); B.M., M.M.

MERRIMON T. HIPPS
Trumpet (1966); B.M.E., M.M.

GLADYS HUBNER
Harp (1971).

RICHARD KILLMER
Oboe (1972); B.A., M.A., M.M.A.

CELESTE M. O’BRIEN
Piano (1969); B.A.

MOUNT PECK
Cello (1973).

NATHAN PORTNOI
Percussion (1972); B.M.

EMILY PRIDE

RONALD RICKETTS
Trombone (1972).

MATTHEW SHUBIN
Bassoon (1971); B.M.

MARTIN SMITH
French Horn (1971); B.M. M.S.

CHARLOTTE E. STRAKA

MADELEINE R. TITUS
Piano (1952); B.M.

ROSS TOLBERT
Tuba (1971).

JEFFREY VAN
Guitar (1965); B.A., M.F.A.

SALVATORE VENITTELLI
Viola (1971); B.M., M.M.

BEVERLY WHITE
Recorder, Viola and Harpsichord (1971); B.A., M.A.

CLOYD WILLIAMS
Clarinet (1970); B.S., M.A.

MARY E. WILSON
Flute (1951); B.A.

SID ZEITLIN
Flute (1971); B.M.

Artists-in-Residence

JOSEPH ROCHE
Violin, Macalester Trio (1971)

ERIC WAHLIN
Cello, Macalester Trio (1965); B.S.
### REGISTRATIONS

<table>
<thead>
<tr>
<th>Session</th>
<th>Men</th>
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<tr>
<td>Summer Session, 1972</td>
<td>298</td>
<td>308</td>
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<tr>
<td>1st Term</td>
<td>190</td>
<td>171</td>
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<tr>
<td>2nd Term</td>
<td>189</td>
<td>171</td>
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<td>Fall Term, 1972-73</td>
<td>989</td>
<td>982</td>
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<tr>
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<td>1806</td>
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<tr>
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<td>TOTAL</td>
<td>915</td>
<td>921</td>
<td>1836</td>
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</table>

Candidates for Degrees, Class of 1973

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### RACIAL/ETHNIC BACKGROUND  Fall Term, 1972

<table>
<thead>
<tr>
<th>Race</th>
<th>Number of Students</th>
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<tbody>
<tr>
<td>White</td>
<td>1729</td>
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<tr>
<td>Black</td>
<td>221</td>
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<tr>
<td>Hispanic</td>
<td>29</td>
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<tr>
<td>Native American</td>
<td>25</td>
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<tr>
<td>Oriental</td>
<td>8</td>
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<tr>
<td>TOTAL</td>
<td>2012</td>
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</table>

### GEOGRAPHICAL DISTRIBUTION  Fall Term, 1972

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Students</th>
<th>Percent of Student Body</th>
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<tbody>
<tr>
<td>Ramsey County</td>
<td>271</td>
<td>13.47</td>
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<tr>
<td>Hennepin County</td>
<td>231</td>
<td>11.48</td>
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<tr>
<td>Minnesota (Outside Twin Cities)</td>
<td>273</td>
<td>13.57</td>
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<td>U.S. (Excluding Minnesota)</td>
<td>1203</td>
<td>59.79</td>
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<td>Foreign Countries</td>
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<td>2012</td>
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## ENROLLMENT STATISTICS

### CLASS OF 1973

**Candidates for B.A. Degree by Department/Program**  
(includes double majors)

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Number of Students</th>
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<tbody>
<tr>
<td>Art</td>
<td>16</td>
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<tr>
<td>Biology</td>
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<td>Chemistry</td>
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<tr>
<td>Classics</td>
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<tr>
<td>Economics and Business</td>
<td>27</td>
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<tr>
<td>English</td>
<td>37</td>
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<tr>
<td>French</td>
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<tr>
<td>Geography</td>
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<td>Geology</td>
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<tr>
<td>German</td>
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<tr>
<td>History</td>
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<td>Humanities</td>
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<tr>
<td>Linguistics</td>
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<td>Mathematics</td>
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<td>Music</td>
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<td>Philosophy</td>
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<td>Physical Education</td>
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<td>and Kinesiology</td>
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<td>Physics and Astronomy</td>
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<td>Political Science</td>
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<td>Psychology</td>
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<td>Religion</td>
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<td>Russian</td>
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<td>Spanish</td>
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<td>Public Address</td>
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<td>Speech</td>
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### STUDENTS OVERSEAS OR IN OTHER COUNTRIES FOR STUDY/WORK DURING 1972-73

(includes Fall/Interim/Spring Term, all-year and Summer projects)

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<th>Project</th>
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<td>Afghanistan</td>
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<tr>
<td>Austria/Germany</td>
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<tr>
<td>Bahamas</td>
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<td>Barbados</td>
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<td>Brazil</td>
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<td>British Columbia</td>
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<td>Colombia</td>
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<td>Costa Rica</td>
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<td>England</td>
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<td>England/Italy</td>
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<td>Europe</td>
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<td>France</td>
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<td>Guatemala</td>
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<td>Indonesia</td>
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<td>Israel</td>
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<td>Norway</td>
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<td>Thailand</td>
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<td>Uganda</td>
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<td>TOTAL</td>
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