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GENERAL INFORMATION
UNIVERSITY OF MINNESOTA BULLETIN

INDEX

Administrative Committee	1	Incidental Fee	34
Admission to the University	2-8	Law School	14
Adult Specials	6	Liberal Arts, College of	4, 10
Advanced Standing (for non-U. of M. work)	6	Library	25
Applications	2	Loans and Scholarships	28
Examinations for Admission	6	Medical School	14
Graduate School	6	Medical Technology	15
High School, Admission from	2	Minneapolis Campus—Maps	38, 39
Nonresidents	7	Morris Campus	5, 12
Preprofessional	7	Morris Campus—Map	38
Professional Colleges	7	Mortuary Science	4, 12
Summer Session	7	Music	26
Transfers within the University	7	Nonresident Students	7, 35
Agriculture, Forestry, and Home Eco- nomics, College of	3, 9	Nursing, School of	4, 11, 15
Athletic Purposes	35	Occupational Therapy	15
Board of Regents	1	Organization of the University	2
Business Administration, School of	13	Orientation	8
Calendar	19-21	Pharmacy, College of	16
College Advisory Programs	24	Physical Therapy	15
Continuation Study	18	Public Health, School of	16
Correspondence Study	18	Recreational Opportunities	26-28
Costs of University Attendance	32-34	Art Galleries	26
Counseling	22-25	Convocations	26
Credit by Examination	8	Physical Education	28, 35
Degrees and Courses	8-17	Social Programs	28
Dental Hygiene	3, 9	Theater	27
Dentistry	13	Refunds	35
Duluth Campus	5, 12	Registration	8, 19-21
Duluth Campus—Map	37	Religious Activities	23
Education, College of	3, 10	Reserve Officers' Training Corps	18
Employment	29	St. Paul Campus—Map	40
Entrance Health Examination	8	Scholastic Standing Committees	24
Evening Classes	17	Selective Service	25
Expenses	32	Social Programs	28
Extension Division	17	Special Services for Students	21-32
Fees	32-34	Speech and Hearing Clinic	24
Fellowships	29	Sports	28, 35
Financial Aids	28	Student Activities	23
Food Services	31	Summer Session	7, 18
Foreign Students	22, 23	Technology, Institute of	4, 11
Freshman Programs	9-12	Tuition Fees	33
General College	4, 10	University College	17
Graduate School	6, 14	Veterans and War Orphans	24
Handicapped Students	29	Veterinary Medicine, College of	17
Health Service	21		
Housing	30		

Front cover—Cyrus Northrop Memorial Auditorium. Inscription on façade:

FOUNDED IN THE FAITH THAT MEN ARE ENNOBLED BY UNDERSTANDING, DEDICATED TO THE ADVANCEMENT OF LEARNING AND THE SEARCH FOR TRUTH, DEVOTED TO THE INSTRUCTION OF YOUTH AND THE WELFARE OF THE STATE.

University of Minnesota

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E. W. Ziebarth, Dean, College of Liberal Arts, 215 Johnston Hall

How the University Is Organized

The University of Minnesota is governed, under its charter from the state, by its Board of Regents—12 citizens of the state elected by the legislature. Its chief administrative officers are the president, the provost at Duluth, three vice presidents, and the deans. Money to support the University's teaching, research, and service activities comes from legislative appropriations, from student fees, and from endowments, grants, and donations from many organizations and individuals.

The University offers programs on four campuses. Most of the colleges and schools, as well as the University's central administration, are on the Minneapolis Campus. The College of Agriculture, Forestry, and Home Economics and the College of Veterinary Medicine are on the St. Paul Campus. Other campuses include the University of Minnesota, Duluth, and the University of Minnesota, Morris. Each campus has an Office of Admissions and Records.

Who May Enter the University

The *colleges* of the University invite applications for admission from: (a) Minnesota residents who have been graduated from accredited high schools, or those who have Equivalence Certificates; (b) students who have completed some college work elsewhere; (c) nonresidents who present outstanding high school or above average college records; (d) non-high school graduates who hope to qualify by examination; (e) mature men and women (usually 24 years or older) who want single courses or groups of courses to meet special personal needs and not for degree purposes.

The *professional schools* or *colleges* consider applications from students who have completed (depending on the individual college requirement) 1 to 3 years of pre-professional college level education.

The *Graduate School* considers applications from any student who has a Bachelor's degree from a recognized college or university.

How and When to Apply for Admission

All applications for admission to undergraduate schools are received by the University's Offices of Admissions and Records on the Minneapolis, St. Paul, Duluth, and Morris Campuses. If you wish to apply for admission, you may secure application forms from any of these offices. Freshman application forms are also available at Minnesota high schools. High school seniors should apply immediately after the first semester of the senior year. Admission materials are sent to successful applicants; those who are not successful are notified promptly. All other applications should reach the Office of Admissions and Records on the appropriate campus more than a month before the desired entrance date. An application deadline of August 15 has been set for the fall quarter. Earlier deadlines for dental hygiene, dental assisting, and practical nursing are indicated in the sections describing these programs. Early application will permit program planning and better use of available advising and counseling services.

Admission from High School

The admission requirements for high school graduates who are residents of Minnesota are outlined by college or division under the headings which follow. (See Nonresident Admission also.) In addition to such special requirements as are indicated,

freshman applicants for all programs are required to take the tests of the American College Testing program (ACT). These tests should be taken during the senior year at the earliest possible time. Testing dates and schedule are announced to the high schools by the state co-ordinators for the American College Testing program. Each student participating in the program pays a \$4 testing fee. *ACT test scores must be on file at the University before final admission will be granted.*

Anyone who wishes to attend college but thinks he may not be admissible (because he did not graduate from high school or failed to take certain courses believed necessary for college entrance) and those in doubt about course offerings are invited to write to the Admissions Officer, University of Minnesota, Minneapolis, Minnesota 55455. Almost every college of the University has made special arrangements to select worthy applicants regardless of their precollege training. Recommendations from high school principals or counselors are encouraged. See also Admission by Examination.

In the resident admission requirements listed below, a high school *unit* stands for a year of work of approximately 180 class hours in a subject.

College of Agriculture, Forestry, and Home Economics

High school graduates in the upper 60 per cent of their classes may enter if they have completed 12 units in grades 10-12. Nine of these should be in English, social studies and history, mathematics, natural science, and foreign languages. Distribution of these units with respect to the major areas included in the college program should be as outlined below. Students should note that although 1 unit of plane geometry or higher algebra is a requirement for admission, both are prerequisites for required courses in the majority of curriculums in agriculture and forestry, and in preveterinary medicine. Therefore students are encouraged to secure both higher algebra and plane geometry whenever possible.

Agriculture—3 units in English, 1 unit in elementary algebra, 1 unit in plane geometry or higher algebra, and 1 or more units in natural science or agriculture.

Forestry—3 units in English, 1 unit in elementary algebra, 1 unit in plane geometry or higher algebra, and 1 unit in natural science.

Home Economics—3 units in English and 1 unit in elementary algebra. One unit in home economics may be included in the 9 basic units.

Preveterinary Medicine—3 units in English, 1 unit in elementary algebra, 1 unit in plane geometry or higher algebra, and 1 or more units in natural science or agriculture. Students wishing to prepare for the College of Veterinary Medicine should apply for admission to the College of Agriculture, Forestry, and Home Economics.

Dental Hygiene

The requirements for admission to the Program in Dental Hygiene are similar to those for the Arts College. Chemistry is required and high school typing is recommended. Applicants should be between 17 and 35 years of age. A 1-year Program in Dental Assisting is now offered through the General College. Students may enter these programs only in the fall quarter and *applications must be received before July 1.*

College of Education

Preparation for a number of teaching fields is open to high school graduates in the upper 60 per cent of their classes regardless of the high school courses they have completed. These fields are art education, business and distributive education, industrial education, music education, physical education, and recreational leadership.

Individuals who wish to prepare for teaching in the elementary schools including those in the nursery-kindergarten-primary program complete 1 year of preprofessional study in the Arts College, then transfer to the College of Education. Admission to the College of Education requires a C average in specified preprofessional courses.

To enter teacher training in other fields, the college requires 2 years of preprofessional work in the Arts College or, for agriculture or home economics teaching, in the College of Agriculture, Forestry, and Home Economics. Students aiming at these fields must meet entrance requirements of the college they enter.

To enter with advanced standing in this college a student must have maintained a C average. In addition the secondary major must have an average midway between C and B in courses in his

major, and the elementary major must have a C average in specified academic courses. Application for admission from outside the University should be filed before August 15. Application for transfer from another college within the University should be made early in the quarter preceding the quarter in which the student wishes to enter the College of Education. On-campus transfers go through clearances including a battery of psychological tests during the quarter preceding transfer.

Whether a student is well fitted for teaching is a matter the college examines both at his first registration and later at entrance into the Upper Division and into student teaching. Students proceed with the work of their final 2 years after evaluation of their records and upon favorable recommendations concerning their progress as prospective teachers.

General College

The General College is open to any resident of Minnesota who is a graduate of an accredited high school and for whom its courses and services are appropriate. This 2-year unit gives students opportunities to explore a variety of subject-matter fields, to test themselves in college-level academic work, and to obtain the foundations of a general education.

College of Liberal Arts

The College of Liberal Arts, the University's largest division, provides educational opportunities in the social and natural sciences, mathematics, and the humanities both for general education and as preparation for professional and vocational work. The college admits high school graduates who have college aptitude ratings of 40 or higher. The college aptitude rating is the average of the applicant's percentile rank in his high school graduating class and his percentile rank among University freshmen on a college aptitude test. Applicants not fully meeting this requirement may be requested to submit additional information.

Applicants should have completed 12 units in the last 3 years of high school, including at least 9 units from among the following: English, social studies and history, mathematics, natural science, and foreign languages. Three of these units should be in English, 2 or more in mathematics, including 1 unit of plane geometry, and 2 or more in any one of the other areas specified. Algebra in grade 9 may count toward the mathematics requirement, and a foreign language from grade 9 toward the language sequence; but neither may count toward the 12 units required from grades 10-12.

Students with good high school ranks and test scores may be admitted even though they have not taken the above pattern of high school subjects (although students planning to take mathematics, business administration, or sciences, including medical sciences, in college should complete as much mathematics as possible in high school). These include students in the top 10 per cent of their high school graduating class and students in the top half of their high school class whose college aptitude test score is 40 or better.

Mortuary Science

Admission to the department is based on a high school diploma or its equivalent as minimum requirements. Those applicants who have a college aptitude rating of 35 or higher are usually admitted without further testing. Although no special grouping of high school courses is required, it would be advisable to have taken a relatively strong college preparatory program including the basic units in high school science. Individual consideration may be given otherwise well-qualified high school graduates who do not fully meet the stated admission requirements. Prospective applicants are urged to request individual counseling regarding opportunities in this area.

School of Nursing

Graduates of accredited high schools, at least 17 years of age and in good health, may apply for admission to the 1-year practical nursing program. Individual consideration will be given to otherwise well-qualified applicants who do not fully meet the stated admission requirements. Students may enter this program only in the fall quarter and *applications must be received by April 1.*

Other nursing programs are offered for students who have had some college work or are registered nurses.

Institute of Technology

The Institute of Technology—called by the students "I-T"—consists of several subdivisions which provide education in basic and applied physical sciences, mathematics, and architecture. It is strongly recommended that students wishing to enter IT complete 4 years of high school mathematics. Courses in physics and chemistry are also highly desirable. If these courses are unavailable in the student's high school, consideration should be given to available correspondence courses (see *Bulletin of Correspondence Study*) and extension classes (see *Bulletin of Evening and*

Special Classes). To be admitted, a high school graduate must satisfy the two major requirements detailed below:

1. Course Requirements

- a. Twelve units completed in grades 10-12, including 3 units in English and 3 or more units from the following: foreign language, history, social science, physical science, and biological science.
- b. Four years of high school mathematics, divided approximately into 2 years of algebra and 2 years of geometry of 2 and 3 dimensions, including trigonometry. The beginning course given for credit in the fall of 1964 will be ITM 13, Calculus and Analytic Geometry.

If a student lacks either a half unit in algebra or a half unit in geometry, or a half unit in both of these subjects, he can be admitted on the condition that he make up his deficiency by the end of his first quarter in residence (without institute credit). A deficiency in algebra or trigonometry can be removed by registration in ITM 12 (Algebra and Trigonometry) and a deficiency in geometry can be removed by registration in ITM 8 (Solid Geometry). If deficiencies are not removed by the end of the first quarter, the student will not be permitted to continue in the institute. However, it should be emphasized that the first quarter in the institute is a difficult one and every effort should be made to avoid the added burden caused by mathematics deficiencies. Such deficiencies should be made up, if possible, during the summer or any other period preceding registration in IT—through correspondence, extension, or summer school courses.

2. Academic Standing

A student is admitted on the basis of an aptitude rating which combines his high school rank and his achievement in a mathematics entrance examination which he takes during his senior year. The percentile rank in this examination is calculated on the basis of a norm established by students who in the past have taken the examination and who also enrolled in IT. The average percentile rank on the examination for the typical student therefore is usually lower than his high school rank. A student who has a high school rank of 50 percentile or above and who also has a math test rank of 25 percentile or above usually qualifies for admission without further review. For a student who does not satisfy either or both of these standards, an aptitude rating is calculated by adding his high school rank to his math percentile rank multiplied by 4. If this sum lies below 125, the student usually is not admitted. If the aptitude rating is 125 or slightly above, the application is reviewed on the basis of other test information which appears on the student's application. It should be noted that a student who is admitted without special review must have an aptitude rating of 150 or above, with the additional condition that each of the 2 individual percentile scores must be above a minimum level.

The entrance examination is made available to Minnesota high schools so that those high schools that wish to do so may administer the test. Seniors interested in applying for admission to IT should contact their principal or counselor by February 1 to determine availability of the test. Those prospective applicants who are not able to take the test in high school should write to the Office of Admissions and Records for information and procedures to follow.

Students not eligible for admission directly may apply for transfer after 1 or more years of satisfactory work in some other college, such as a local junior college, a liberal arts college, or the University General College. Students who enter another college hoping to transfer later to IT must consult with the counselors in that college at the very beginning of the school year in order to plan for this transfer and to receive help in planning their programs in relation to this goal.

University of Minnesota, Duluth

A college aptitude rating of 40 or more is required for admission to preprofessional courses or to curriculums leading to the B.A. or B.S. degree. Although no special grouping of high school courses is required it would be helpful to entering students to have taken a relatively strong college preparatory program in high school. Admission to the 2-year terminal program leading to the A.A. degree is based on a high school diploma or its equivalent as minimum requirements. Applicants are admitted if it appears that they will be able to benefit from the programs offered.

Additional information about entering the University of Minnesota, Duluth can be obtained from Student Personnel Services, 130 Kirby Student Center, University of Minnesota, Duluth, Duluth, Minnesota 55812.

University of Minnesota, Morris

Minnesota high school graduates who have college aptitude ratings of 40 or higher will be considered for admission at Morris. The college aptitude rating is the average of the high school

percentile rank and the Minnesota Scholastic Aptitude test percentile rank. Graduates of high schools not meeting the required college aptitude rating may be considered for admission on the basis of recommendations of their high school principal or counselor, results of counseling, etc., testing results, or by special testing at the University of Minnesota, Morris. Additional information concerning admission to the University of Minnesota, Morris can be obtained from the Office of Student Services, University of Minnesota, Morris, Morris, Minnesota.

Other Admission Categories

Admission as an Adult Special Student

Men and women who want individual courses or groups of courses to meet special personal needs may be considered for admission to the individual colleges as "adult special" students. Usually these students are 24 years of age or older, and of mature experience or they have Bachelor's degrees. Persons applying are not candidates for degrees, but subsequent admission to a degree program is possible on recommendation of the college. In such case, credit earned as an adult special will be applied when possible. Only one quarter of work as an adult special may be used toward a Graduate School degree. Admission is completed through the Office of Admissions and Records. Restrictions on admission of nonresident undergraduate students apply to admission of adult students. Applications should be filed well in advance of the quarter of entrance.

Admission with Advanced Standing

Students with credits from other accredited colleges or universities (usually with a year or more of work) may, if admitted, enter with "advanced standing"—that is, with credit for acceptable courses satisfactorily completed. Well-qualified students who would be aided by tentative evaluation of their credits before transferring from other colleges may submit records of work completed and planned for such evaluation.

Applicants who have attempted any college study, satisfactorily or unsatisfactorily, must submit official transcripts, covering all work taken, from *every school attended*. They should make application and have all transcripts on file with the Office of Admissions and Records *more than a month before the beginning of the quarter they wish to enter*. August 15 is the usual application deadline for fall quarter; certain specialized programs have earlier deadlines as noted in the college bulletins.

Students desirous of entering the University who have completed less than 1 year of study at another accredited college will often find it to their advantage to continue in that college, completing a successful year. Applicants who have had less than a year of college work must meet all requirements for entrance from high school and file their college records as well.

Admission by Examination

A person 19 years of age or older, whether a graduate of a Minnesota high school or not, may apply for admission by examination. In most instances these tests are of the "objective" type and measure general aptitude for college work rather than knowledge of specific subject matter areas. Inquiries about procedures to follow should be directed to the Office of Admissions and Records.

Some persons under 19 years of age who have not graduated from high school may be admitted under a plan approved by the University, the Minnesota Council of School Executives, and the Minnesota High School Principals' Association. Such persons must be sufficiently mature to promise ready adjustment to university life and work and they must present outstanding high school records. Formal application, including letters of recommendation from the school principal and parents, is made to the Office of Admissions and Records. Personal interviews and comprehensive testing are also required.

All persons applying for entrance by examination should apply *more than a month in advance of the quarter they expect to enter*.

Admission to the Graduate School

If you have a Bachelor's degree or its equivalent from a recognized institution, you may apply for admission to the Graduate School. Your acceptance will depend on your undergraduate scholastic record, which must be high, on satisfactory character and professional qualifications, on recommendations by the department in which you want to take your major work, and on approval by the dean of the Graduate School.

Inquiries and applications should be sent to the dean of the Graduate School. You should send with the application forms two official transcripts of all college work, undergraduate and graduate, that you have taken. Applications must be submitted complete in every detail—2

official transcripts of all college work and, if required, test results, references, or other information—at least 4 weeks before the beginning of the quarter in which you wish to enter.

Admission of Nonresidents

The University will receive the applications for admission of non-Minnesotans who have above-average promise, superior high school or college records, and special interest in this University. This implies no commitment to such applicants. Freshman applicants are also required to take the tests of the American College Testing program. Specific ACT test score admission thresholds will not be used at this time. College Entrance Examination Board test scores are requested when available. Since individual consideration by the faculty concerned is usually involved, any non-resident should apply promptly, i.e., *more than a month in advance of the desired entrance date.* See Fees also.

Admission to the Professional Schools and Colleges

The professional schools or colleges require from 1 to 3 years of "preprofessional" education before accepting students. You may take this preprofessional work at Minnesota or elsewhere. To take it at Minnesota, you must meet admission requirements of the college offering the work, and also the preprofessional requirements listed in its bulletin (which you can get from the Office of Admissions and Records). Preprofessional work from other institutions must meet the same requirements.

Preprofessional work (minimal preparation) for specific colleges may be taken at the Duluth Campus, at the Morris Campus (to the extent offered), or as follows:

Business Administration—2 years in the Arts College; or in the College of Agriculture, Forestry, and Home Economics; or in the Institute of Technology.

Dentistry—2 years in the Arts College.

Education—1 or 2 years (depending on major field of study) in the Arts College; or in the College of Agriculture, Forestry, and Home Economics; or in the General College.

Law—3 years in the Arts College.

Medical—3 years in the Arts College.

Medical Technology—2 years in the Arts College.

Nursing—3 quarters in the Arts College.

Occupational or Physical Therapy—2 years in the Arts College.

Pharmacy—1 year in the Arts College.

Public Health—Requirements vary with program. See section on School of Public Health.

Veterinary Medicine—2 years in the College of Agriculture, Forestry, and Home Economics.

Admission to the Summer Session

The two terms of the Summer Session are open to high school graduates under regular entrance regulations, to students already admitted to the University, and to those who are or have been in attendance at any accredited collegiate institution and who are in good standing. Students with credit from other colleges who are not candidates for degrees here may enter without filing credentials; but their admission to Summer Session gives them no claim to attendance in regular session.

Students who begin their University attendance during the Summer Session and plan to continue in the regular academic year or who seek degrees here should apply for admission and submit credentials in the usual way. Requirements for admission in the Summer Session are the requirements of the colleges as defined in the preceding pages.

There are no nonresident restrictions in the Summer Session.

Change of College Within the University

A student who wants to change at the University from one college, school, or campus to another must meet the requirements of the second. Application for transfer should be made at the Office of Admissions and Records on the campus where the student is currently or was last registered.

The Transfer Bureau of that office aids in such changes by securing clearances, appointments for counseling, re-evaluation of credits, and in other ways. Students should apply to the appropriate Transfer Bureau as far in advance as possible of the actual date of transfer.

Credit by Examination

University students may earn credit for many courses by satisfactory completion of examinations. The University considers both credit and placement based on the Advanced Placement Tests of the College Entrance Examination Board.

Individual departments also offer examinations for credit and placement. These examinations should be taken during the first quarter at the University following relevant preparation or experiences (e.g., independent study, advanced work in high school, travel, and military experience). Additional information may be obtained from faculty advisers or the appropriate college office.

Entrance Health Examination

Included with the material that you will receive when you have been accepted for admission will be a special Entrance Physical Examination form to be completed by a physician. After the physical examination has been completed, the form is to be mailed by the examining physician directly to the University Health Service, University of Minnesota, Minneapolis, Minnesota 55455 for those admitted to colleges on the Minneapolis or St. Paul Campuses. It should be mailed back as soon as possible, preferably within a week. Physical examination forms for Duluth Campus students should be mailed to the UMD Health Service. Morris Campus students will take their health examination when they report for registration.

Orientation and Registration

In this program the new student is asked to participate in 2 days of activities which include testing, counseling, general registration procedures, and small group discussion sessions. The program varies slightly for each of the colleges and schools to meet individual college requirements. When a student is admitted he is sent a brochure describing the Two-Day Orientation-Registration Program from the Office of Admissions and Records. At a later time, the college in which he is enrolled informs him when he is to attend orientation. When the students report for orientation, they are assigned to groups of about 25 students according to the college of their choice. These groups are under the leadership of an upperclass sponsor whose responsibilities are to give information, to guide the group about the University campus for group appointments, and to give the student individual attention. The new students complete registration after individual appointments with faculty members and advisers. Students may arrange for housing, part-time employment, and the purchase of books and supplies while they are on campus for orientation. This program of orientation-registration is sponsored by the various colleges and agencies of the University, and is co-ordinated by the Orientation Office of the Office of the Dean of Students.

Degrees and Courses

Degrees and certificates awarded by the University are of wide variety. They range from certificates in highly specialized areas, such as that in practical nursing, to graduate degrees that may require years of advanced study. Most Bachelor's degrees require 4 years (12 quarters) of work.

The pages that follow tell in general terms about the University's courses of study. Some of them are open to students without preprofessional training—these courses, or curriculums, are described in the next section of this bulletin. Others, described later, require students to complete preprofessional work first. Each college or major division of the University has its own bulletin—in it you will find outlines of degree requirements as well as full descriptions of courses and regulations. Write to the Office of Admissions and Records for the particular bulletin you want.

If you are in doubt as to the direction your education should take, the University's counseling services are available to help you. See section entitled Counseling Aids.

Degree Requirements

Degrees from the University of Minnesota are granted by the Board of Regents on recommendation of the faculty. Here are the steps leading to the granting of a degree.

First, a student must meet all the course, credit, and grade average requirements of the school, college, or division of the University in which he is enrolled.

Second, he must meet residence requirements. This means that he must have spent at least a year in regular daily work at the University, of which 2 quarters must be in his senior year (if he has only 1 year of residence, it must be his senior year). Extension courses (except correspondence study) count as residence credit. Some schools and colleges have additional residence requirements.

Third, he must meet all financial obligations to the University.

Fourth, he must attend commencement exercises at which his degree is conferred unless he is excused by the dean of his college. If he fails to attend, his diploma will be withheld for a year, or until he attends another commencement.

Programs Open to Beginning Freshmen

College of Agriculture, Forestry, and Home Economics

This college through its departments in agriculture and its schools of forestry and home economics—all on the St. Paul Campus of the University—offers Bachelor's degrees in a wide range of subject areas and, in some fields, advanced professional degrees. The 4-year courses that lead to the B.S. degree or its equivalent are:

Agriculture—Agricultural science, agricultural education, agricultural business administration, agricultural journalism, biochemistry, dairy industries, fishery and wildlife management, landscaping, science specialization.

Forestry—Forest resources management, forest science, forest-products merchandising, forest products engineering.

Home Economics—Dietetics, food service management, home economics in business (food, related art, textiles and clothing, household equipment), home economics with journalism minor, home economics education (teaching and extension), home economics and nursery school education, preparation for research in (a) experimental foods, (b) nutrition, (c) textiles and clothing, and (d) household equipment, family social science, general home economics.

Students anticipating admission to professional study in the College of Veterinary Medicine may secure the 2-year preprofessional curriculum requirements in this college.

In some fields, a fifth year of work leads to an advanced degree. In agricultural education and home economics education a student may earn a master of education degree.

In addition, a 60-credit program leading to a certificate (Technical Certificate Program in Agriculture) is offered by the college to students interested in a terminal, collegiate program leading to farming or related activity.

Dental Hygiene

Program in Dental Hygiene—Beginning only in the fall, this program for young women comprises 2 academic years of work in the School of Dentistry with concurrent courses in the

College of Liberal Arts. The program qualifies its graduates to work in dental offices and public health agencies. Upon receiving the graduate dental hygienist (G.D.H.) degree, the graduate must obtain a license by passing an examination in the state in which she wants to work.

When students have completed the program, as specified in the *Bulletin of the School of Dentistry*, with a C average they may enter the College of Liberal Arts. They may then qualify for the bachelor of arts (B.A.) degree provided that they fulfill the degree requirements of the Arts College.

Program in Dental Assisting—Offered jointly by the School of Dentistry and General College, this program prepares a young woman to perform a variety of duties as a dental assistant. The student's courses will prepare her to be a receptionist, make appointments, keep books, and assist the dentist at his chair. Students will register in General College, and the 1-year program qualifies them for a certificate in dental assisting. Credits earned during this year may also be applied toward requirements for the 2-year associate in arts (A.A.) degree. The additional year of work may be taken before or after the year in dental assisting.

College of Education

The College of Education offers programs leading to the bachelor of science and master of education degrees and Minnesota teaching certification. A student may prepare himself for teaching in any academic field of specialized area of study found in Minnesota public schools.

In certain fields of study, students may enter the College of Education as freshmen and complete their entire programs while registered in this college. These fields are: art education, business and distributive education, industrial education, music education, physical education for men, physical education for women, and recreation leadership.

For other teaching majors and areas, students register for 1 or 2 years of preparatory study in the College of Liberal Arts; the College of Agriculture, Forestry, and Home Economics; or the General College.

Some students may wish to follow combined programs with the College of Liberal Arts in which they complete the requirements of both colleges and receive baccalaureate degrees from both. Other special programs exist between the College of Education and the Institute of Technology, completion of which results in a Bachelor's degree from the Institute of Technology and a master of education degree from the College of Education.

General College

General education, in which the General College has for years been a leader nationally, aims essentially to produce broadly educated men and women who can understand the issues confronting persons living in the modern world, who can meet their daily personal problems with a sound sense of values, and who can live full and responsible lives.

A broad 2-year program of courses in the General College, leading to the associate in arts degree, is designed to help students toward this goal. As a student in this program you may, if you wish, combine with the more general courses certain courses to prepare you for specific occupations which do not require professional training, such as business, dental assistant, general office work, recreation activity leadership, retailing and selling.

The associate in arts degree is granted when you complete 2 years of work and achieve satisfactory standing in a comprehensive examination covering the general education program. If you wish to transfer to another college of the University, your work will be evaluated by the college of your choice. If it has been of satisfactory caliber, you ordinarily will be admitted with advanced standing. The amount of advanced standing credit will depend upon the program into which you transfer and will range from full value in programs requiring mostly liberal arts work to relatively small amounts in programs requiring many specialized courses and relatively few liberal arts electives.

The General College counseling and guidance service is one of the major factors in the success of its general education program. Through this service, which includes tests of individual abilities and aptitudes, advisers can help students plan course programs and extracurricular activities of greatest interest and personal benefit. General College counselors and faculty members are readily available to help students with their education, vocational, or personal problems.

College of Liberal Arts

A major goal of any University student is to strengthen his understanding of the world in which he lives and the people with whom he associates—to gain what is usually called "a liberal education." The College of Liberal Arts offers a wide variety of programs that help toward these ends and at the same time start students toward occupations and careers. The college's advising services and experience in a wide variety of courses aid in reaching these goals.

No two liberal arts students follow precisely the same path toward their educational and career objectives. But all combine work in the humanities, in the social sciences, and in the natural sciences, including mathematics to provide sound general education and to build on this foundation a concentration—a "major"—in one or more of the many departments of the college.

Two degrees—a 4-year bachelor of arts and a 2-year associate in liberal arts—are offered by the college.

The Bachelor of Arts Degree—This 4-year program provides a broad liberal education and an opportunity to major in one of the following fields:

American studies, anthropology, architecture, art, astronomy, bacteriology, biostatistics, botany, chemistry, classics, economics, English, geography, geology and geophysics, German, history, humanities, international relations and area studies, journalism, linguistics and comparative philology, mathematics, music, philosophy, physics, physiology, political science, psychology, Romance languages, Slavic and Oriental languages, Scandinavian, pre-social work, sociology, speech and theatre arts, pretheology, zoology.

If you do not find among these fields a major suitable to your interests and abilities, you may wish to plan an interdepartmental program, one tailor-made for your particular objectives. Such a program, crossing departmental lines, may meet your needs better than a departmental major. (Of course, all College of Liberal Arts programs involve work in a number of departments.)

The college offers preparation for entering the Graduate School in the fields listed above and in social work and library work. A professional major in journalism is also offered.

In addition, the college co-operates with other colleges to offer three combined arts-and-professional programs: *Arts and Medicine*, 7- or 8-year courses leading to B.A. and M.D. degrees; *Arts and Dentistry*, 7- or 8-year courses leading to B.A. and D.D.S. degrees; *Arts and Law*, a 6½-year course leading to the B.A. and LL.B. degrees.

In two other areas a student may complete all B.A. requirements concurrently with other degree requirements: *Arts and Architecture*, a 6-year course leading to B.A. and B.Arch. degrees; and *Arts and Education*, a course of about 4½ years leading to B.A. and B.S. in education degrees.

Professional Training—Some basic liberal education is required in preparation for entry to a number of the University's professional schools—1, 2, or 3 years in the College of Liberal Arts. Professional curriculums requiring this kind of preparation are the Medical School, Law School, School of Dentistry, School of Business Administration, School of Nursing, College of Pharmacy, and College of Education (except for students planning to enter art, business and distributive, industrial arts, music, physical education, or recreation). Specialized courses in nursing education, public health nursing, medical technology, and occupational and physical therapy also require preparatory work in liberal arts.

The 2-Year Associate in Liberal Arts Degree—This recognition of the completion of 2 years of satisfactory work in the college is intended for 2 groups of students: those who plan to attend the University for 2 years only; and those who, though working toward a Bachelor's degree, desire formal recognition of the completion of 2 years' work.

To earn this degree, a student must ordinarily earn 90 credits in 6 or 7 quarters of residence, and meet specific requirements in English and in 3 of these 4 fields: foreign languages, humanities, social sciences, and natural sciences. Within these limits there is a broad choice from among hundreds of freshman and sophomore courses.

Mortuary Science

This course for young men and women may be entered at the beginning of any quarter or Summer Session. There are 2 plans for instruction—Plan A which consists of 9 academic quarters and Plan B which consists of 6 academic quarters. The work in both Plan A and Plan B is in a prescribed curriculum. Graduates upon completion and awarding of the degree—associate in mortuary science—are eligible to write the state board examination in those states in which they have fulfilled the general and mortuary science educational requirements. Upon successful completion of state board requirements, graduates are eligible for licensure.

School of Nursing

Practical Nursing—A certificate in practical nursing is granted students who complete the 4-quarter practical nursing program. This program is designed to prepare practical nurses to give nursing service with supervision and guidance of professional nurses and doctors. Students completing the curriculum are eligible to take the state board examination given by the Minnesota Board of Nursing.

Institute of Technology

The Institute of Technology offers various programs leading to the Bachelor's degree in its seven colleges and schools. The colleges and schools and the degree curriculums they offer are tabulated below. Both 4-year and 5-year curriculums are available, as described below.

College of Engineering—Aeronautical, agricultural, civil, electrical, and mechanical engineering.

School of Architecture—Architecture.

School of Chemistry—Chemical engineering and chemistry.

School of Earth Sciences—Geology and geophysics.

School of Mathematics—Mathematics.

School of Mineral and Metallurgical Engineering—Mineral engineering, metallurgical engineering, and metallurgy.

School of Physics and Astronomy—Physics and astronomy.

Major curriculums in the College of Engineering and the School of Mineral and Metallurgical Engineering and in the Department of Chemical Engineering of the School of Chemistry are 5-year curriculums. Students who attain the necessary standards of performance and who desire to proceed to graduate work may obtain a bachelor of science degree by petition at the end of 4 years. The student may then begin a graduate program in his fifth year.

The School of Architecture offers a 5-year curriculum in IT; also, a 6-year curriculum in co-operation with the College of Liberal Arts. The Department of Chemistry, the School of Earth Sciences, the School of Mathematics, and the School of Physics and Astronomy offer 4-year curriculums.

Certain engineering departments, including mechanical and electrical, permit specified work in industrial engineering to replace some of the optional engineering study of the fifth year and thereby provide an alternative path to the professional degree.

A co-operative work-study program in mechanical engineering and in the School of Mineral and Metallurgical Engineering providing practical work experience in conjunction with regular classes and laboratory work is available through co-operation with nearby industrial concerns. During part of their collegiate program students in the work-study curriculum are on a 12-month basis and spend alternate quarters in industry. While on the work assignments students are paid at regular rates by the company.

Also offered are combined curriculums with the Graduate School, the School of Business Administration, the Law School, and the College of Education. In some cases this may lead to two degrees. For additional details on the various programs see the *Bulletin of the Institute of Technology*.

The Institute of Technology divides its undergraduate curriculums into a Lower Division and an Upper Division. Upon satisfactory completion of the requirements of the Lower Division, a student may, upon application, be awarded a Certificate in Science. For further information regarding this program and regarding admission to the Upper Division, see the *Bulletin of the Institute of Technology*.

University of Minnesota, Duluth

Four degrees are available at the Duluth Campus—the bachelor of arts (B.A.); the bachelor of science (B.S.); the associate in arts (A.A.); and the master of arts (M.A.). Preprofessional programs for transfer to other campuses are available.

The M.A. degree is available under Plan B (no thesis) in education, in educational psychology (high school guidance), in curriculum and instruction, or in English. It has been authorized by the Graduate School and is an integral part of the graduate program offered by the University.

Four-year courses leading to a Bachelor's degree offer majors in art, biology, botany, business and economics, business education, chemistry, earth science, elementary education, English, French, general science, geography, geology, German, history, home economics, industrial education, mathematics, music, nursery-kindergarten-primary education, physical education for men and women, physics, political science, psychology, social science, sociology, speech, speech correction, and zoology. Minors in air science, art history, humanities, philosophy, recreation, and school health education also are offered. Students planning to teach in the secondary schools combine specific courses in education with the major chosen.

The 2-year course leading to the associate in arts degree is a general education program in which each student, consulting with an adviser, chooses courses to fit his individual need.

Preprofessional courses, designed to meet requirements of professional schools, are available in the fields of agriculture, agricultural education, dentistry, engineering, fishery and wildlife management, forestry, journalism, law, medicine, medical technology, nursing, occupational therapy, pharmacy, physical therapy, social work, theology, and veterinary medicine.

University of Minnesota, Morris

The bachelor of arts (B.A.) degree is available at the University of Minnesota, Morris. A 4-year curriculum leading to the Bachelor's degree offers majors in art, biology, business and economics, English, French, history, mathematics, music, physical education, political science, psychology, sociology, and Spanish. Minors are offered in the above listed areas and in art history, chemistry, physics, social science, and speech in addition. Programs leading to certification in secondary and elementary education are also available. Preprofessional courses of from 1 to 4

years' duration designed to meet the requirements of professional schools are available in over 20 areas.

Programs Requiring Previous College Work

This section of the bulletin tells about University degree programs for which preparatory work is necessary. For complete information on any of the courses, you should get the bulletin of the school or college in which the work is offered.

School of Business Administration

The School of Business Administration offers basic professional training for positions of responsibility in business. Emphasis in the curriculum is on thorough intellectual education in which fundamental principles of business operation are stressed, rather than specialization in current practices.

The school offers a 2-year program for the junior and senior years. Admission is earned by satisfactory completion of a 2-year prebusiness program, which includes preparation for intelligent citizenship and for leadership in the widest possible sense, together with some prebusiness courses in accounting, economics, and statistics. The prebusiness program may be taken in a junior college, a liberal arts college, or in certain technical schools. At the University of Minnesota, it may be completed in either the College of Liberal Arts or in the Institute of Technology, depending upon the student's special interests. Mathematics is especially stressed in the prebusiness program.

Four degree programs are offered by the school (bachelor of science in business—regular; bachelor of science in business—accounting; bachelor of science in economics—economics; and bachelor of science in economics—statistics). The bachelor of science in business—regular program (B.S.B.—Regular) includes a "core" of courses in economics, business functions, management, and quantitative analysis. During the senior year the student takes elective courses to provide depth within areas of his interest, plus additional electives outside the School of Business Administration. Business areas of limited specialization include industrial management and administration, quantitative analysis, industrial relations, insurance, transportation, accounting, finance, marketing, law, and economics. The bachelor of science in business—accounting program (B.S.B.—Accounting) includes the same core courses, but provides substantial depth in various areas of accounting theory and practice. All course work for either of the B.S.B. programs may be taken in either day or evening classes.

Two special sequences lead to the degree of bachelor of science in economics, one a general program, and the other with specialization in statistics. These prepare students for positions as economic analysts or statisticians in government service or private industry. A major in economics is also offered in the College of Liberal Arts.

Combined programs with the Institute of Technology, the College of Pharmacy, and the College of Agriculture, Forestry, and Home Economics are also provided. Some of these require longer than 4 years to complete, but may lead to 2 undergraduate degrees.

Professional programs at the graduate level which are directly or indirectly related to business administration are: the master of business administration, the master of science in business, the master of arts in industrial relations, and the master of arts in economics. These and other graduate degrees are offered by the Graduate School of the University.

School of Dentistry

Dentistry Program—A minimum of 2 years of preidental course work in an accredited liberal arts college is required for admission to the 4-year program leading to the doctor of dental surgery (D.D.S.) degree. A grade average of C or higher is required and must include at least 12 quarter credits of English, 10 quarter credits of zoology or biology, 12 quarter credits of physics, 12 quarter credits of general chemistry, and 8 quarter credits of organic chemistry to include both the aliphatic and aromatic series. The science courses must include both lectures and laboratory work. In addition, a dental aptitude examination is required of all applicants. Further details concerning entrance requirements and suggestions regarding appropriate elective courses can be found in the *Bulletin of the School of Dentistry*.

Continuation Study Program—The School of Dentistry regularly offers a series of continuation courses in various phases of dentistry and dental assisting and dental hygiene. These courses are intended to meet the needs of the profession for special material not covered in the undergraduate curriculum and in new developments in research and clinical procedures. Sessions usually are 3 days to 1 week in duration, and in many areas clinical practice is included. Special brochures listing courses, dates, and costs are available to those requesting that their names be placed on the mailing list. Inquiries should be mailed to the School of Dentistry or to the Center for Continuation Study, University of Minnesota, Minneapolis, Minnesota 55455.

College of Education

The College of Education offers programs leading to the bachelor of science and master of education degrees and certification as a public elementary or secondary school teacher in Minnesota.

Students wishing to be elementary or nursery-kindergarten-primary school teachers register as freshmen in the College of Liberal Arts. They follow a curriculum of preparatory work in that college for at least 1 academic year before transferring to the College of Education for professional education work as well as the continuation of their liberal arts work.

Students wishing to teach in any academic field in junior and senior high schools register for their first 2 years in the College of Liberal Arts. They complete the required prerequisite courses for their academic majors as well as work in general education. At the end of 2 years in the Arts College, the student transfers to the College of Education for his professional education work and the completion of his academic field of study.

Majors in agricultural education and home economics education register in the College of Agriculture, Forestry, and Home Economics for their first 2 years of work and then enter a combined program with the College of Education leading to the Bachelor's degree.

Some students follow combined programs with the College of Liberal Arts in which they complete the requirements of both colleges and receive baccalaureate degrees from both. Other special programs exist between the College of Education and the Institute of Technology, completion of which results in a Bachelor's degree from the Institute of Technology and a master of education degree from the College of Education.

Master of education degrees, involving a fifth year of professional study, are offered in agricultural education, art education, early childhood education, elementary education, English, home economics education, mathematics, music, natural and physical sciences, nursing education, physical education for men, physical education for women, and recreation.

Advanced programs are available for administrative, supervisory, counseling, and research positions and for the various psychological services in schools and colleges. Such programs lead to the master of arts and doctor of philosophy degrees or to the specialist certificate. The programs are administered by the Graduate School.

Graduate School

Students who have Bachelor's degrees from approved schools may apply for admission to graduate work leading to the Master's and Ph.D. (doctor of philosophy) degrees. See the *Bulletin of the Graduate School* for statements of requirements in the many areas of graduate study. Beyond the Master's degree, the Graduate School offers the specialist in education certificate in a number of education fields.

Graduate programs leading to the master of arts degree with majors in education, in educational psychology, in curriculum and instruction, and in English designed for secondary school teachers have been authorized at the Duluth Campus. All graduate students taking these programs are enrolled in the Graduate School.

Inquiries about graduate work should go to the Dean of the Graduate School, 316 Johnston Hall, University of Minnesota, Minneapolis, Minnesota 55455.

Law School

The Law School offers the professional degree of bachelor of laws (LL.B.). The course of study provides the basic preparation for the practice of law, for public service in law, for law teaching, and for law-related corporate work. The LL.B. program consists of 3 years plus 15 quarter credits of law, usually taken in the summer after the first or second year. Admission to the Law School requires:

1. A bachelor of arts degree or its equivalent; or
2. Completion of a special 3-year liberal arts program.

Completion of this 3-year program in the College of Liberal Arts will qualify the student for the B.A. degree upon successful completion of the first year of law, but the law faculty recommends the 4-year degree program. Details with respect to the special 3-year liberal arts program, admission, requirements generally, and the Law School may be found in the *Bulletin of the Law School*. Attention is directed to the fact that a student's prelaw scholastic record and the results of the Law School Admission Test given by the Educational Testing Service at Princeton, New Jersey, will be considered in determining his admissibility.

Medical School

Course in Medicine—This program of study leads to the degree doctor of medicine (M.D.), and provides basic preparation for the practice of medicine, for public health service, for medical

teaching, and for medical research. The course requires at least 3 years of preparatory college work and 4 years in the Medical School.

Although 3 years of liberal arts and science education constitutes the minimum required for admission to the Medical School, the Admissions Committee gives preference to candidates with broad and strong undergraduate preparation. A thorough general education is of great value in the development of a physician and the equivalent of 4 academic years of liberal arts preparation, with a B.A. or B.S. degree program, is considered preferable to 3 years. The *Bulletin of the Medical School* gives details of entrance requirements, suggests appropriate course sequences, and outlines application procedures. Students interested in medicine are also encouraged to consult the annual "Admission Requirements" book of the Association of the American Medical Colleges and counseling personnel in the office of the dean of the Medical School.

Medical Technology Course—This course, 4 years leading to a B.S. degree, provides basic preparation for work in clinical and research laboratory procedures used in hospitals, clinics, physicians' offices, and for teaching in training programs for medical technologists.

After 2 years in the Arts College, the student transfers to medical technology to complete the requirements in advanced science courses and the technical training period of 1 year in the laboratories of the University Hospitals. The last year includes clinical experience in hematology, microbiology, serology, electrocardiography, basal metabolism tests, blood banking procedures, tissue preparation, and chemical analyses of blood and other body fluids.

This course is approved by the Council on Medical Education and Hospitals of the American Medical Association. Graduates are eligible for certification by the Registry of Medical Technologists (ASCP) and for membership in the American Society of Medical Technologists.

Physical Therapy Course—A 4-year curriculum, open to both men and women students, leads to a B.S. degree. The program is approved by the Council on Medical Education and Hospitals of the American Medical Association. Graduates are eligible for registration with the American Registry of Physical Therapists and membership in the American Physical Therapy Association, the national professional organization. Qualified physical therapists administer physical therapy modalities under the direction of physicians and are employed in hospitals, rehabilitation centers, clinics, schools, and other specialized institutions. After 2 years of Arts College work, the student enters the professional course in the College of Medical Sciences and spends 6 quarters in theory and practical application of physical therapy procedures, including a minimum of 600 clock hours devoted to practical experience in physical therapy departments affiliated with the University.

Occupational Therapy Course—Under medical supervision, graduates of this course are qualified to provide patients with therapeutic activities including arts, crafts, educational subjects, and recreation. They work in rehabilitation centers, general, neuropsychiatric, and children's hospitals, tuberculosis sanatoriums and in specialized institutions such as schools for the blind, deaf, or mentally retarded. After 2 years in the Arts College, the student transfers to the professional course in the College of Medical Sciences where he spends 4 quarters studying theory, advanced sciences, and practical application. At least 9 months of clinical practice are required during the senior year. This 4½-year course leads to a B.S. degree and is approved by the Council on Medical Education and Hospitals of the American Medical Association.

Continuation Study Program—The continuation course program gives the practicing physician and his associates in allied fields the opportunity of keeping abreast of latest developments in their professions.

The continuation courses, which last from 1 day to 2 weeks, are administered by the General Extension Division, the Center for Continuation Study, and the director of the Department of Continuation Medical Education. Courses include continuation study for practicing physicians in psychiatry, neurology, pediatrics, radiology, obstetrics and gynecology, internal medicine, surgery, dermatology, and others. Courses are also available in hospital administration, medical technology, dietetics, and nursing education.

School of Nursing

Baccalaureate Programs—The basic professional nursing program is conducted for students who have had no prior preparation in nursing. This program, designated as Plan B in the *Bulletin of the School of Nursing*, requires successful completion of 13 quarters of college study to earn the degree of bachelor of science in nursing. The program prepares for the practice of professional nursing in first-level positions, and provides foundations requisite to enabling graduates to gain additional understanding and proficiency through postbaccalaureate study and informed participation in nursing care.

The first 3 quarters (1 academic year) of study in this basic program may be taken in the College of Liberal Arts of the University or at any approved college offering the necessary courses. The *Bulletin of the School of Nursing* gives details of entrance requirements, application procedures, and courses.

Qualified graduates of preparatory programs in nursing that have led to a diploma or an associate degree are admitted to a program leading to the degree of bachelor of science in nursing, which is referred to as Plan C in the *Bulletin of the School of Nursing*. This program prepares for professional nursing practice in first-level positions in hospitals, homes, public health nursing

agencies, and other settings such as schools and industry where the services of professional nurses are required.

Evaluation of advanced standing credits for a diploma program in nursing and evaluation of college courses taken elsewhere is done by the Office of Admissions and Records and the Admissions Committee of the School of Nursing when applications are received. In general, transfer credits for nursing courses taken elsewhere will not be granted toward specific requirements of this degree.

Students pursue concurrent general and professional education. The required courses, however, are offered in sequence beginning in fall quarter and take 3 academic years plus a summer of study for completion.

Master's Program in Nursing Administration—The program which leads to the master of nursing administration degree (M.N.A.) is designed to prepare professional nurses for positions such as director, assistant director, in-service co-ordinator, or supervisor in hospital nursing services. This program is open to qualified professional nurses who have completed an accredited baccalaureate program.

Master's Program in Nursing Education—The program leading to the master of education degree in nursing education (M.Ed.) is offered through the College of Education in co-operation with the School of Nursing. It is designed to prepare professional nurses for faculty positions in schools of nursing or educational positions in governmental and other organizations. This program is open to qualified professional nurses who have completed a baccalaureate program in an accredited college or university.

Master's Program in Psychiatric Nursing—This program is offered by the Graduate School of the University under Plan B for the Master's degree as described in the *Bulletin of the Graduate School*. Upon successful completion of requirements, candidates will receive a master of science degree. The program provides opportunity for nurses to develop competency in psychiatric nursing through provision of a major that includes work with individuals and groups of patients in the community and hospital setting, and through study in related subject fields. Fundamentals of research are included to give the student a foundation for investigation in her major area of study. Approved applicants are admitted in the fall quarter of each year. The program requires a minimum of 5 quarters of full-time study.

College of Pharmacy

The art and science of pharmacy deals with the preparation, compounding, and dispensing of medicinal agents and the study of their chemistry, pharmacological properties, and therapeutic applications.

The work of the prepharmacy year may be taken at any accredited institution prior to admission to the 4-year professional program in the College of Pharmacy. If a student wishes to spend still another year at an accredited school before enrolling in the College of Pharmacy and meets the scholastic requirements for admission to this professional college (see *Bulletin of the College of Pharmacy*), he may complete the prescribed course in pharmacy in 3 years provided he has completed courses in physics, biology (zoology and botany), organic chemistry, general economics, and accounting, equivalent to those described in the *Bulletin of the College of Pharmacy*.

Upon the satisfactory completion of all the courses of the prescribed curriculum, the student will qualify for the B.S. in pharmacy degree.

The college also offers an optional combined 5- or 6-year course in pharmacy and business administration. Evidence of above-average academic ability is required for admission to this course.

School of Public Health

Advanced courses for specialists in a number of public health fields lead to Bachelor's, Master's, or Ph.D. degrees. Liberal U.S. Public Health Service training stipends for suitably qualified students are available through the School of Public Health.

Public Health Administration—A year or more of graduate work in public health theory and practice, open to physicians, dentists, and veterinarians, leads to the M.P.H. degree. Students with a broad scientific background may work toward an M.S. or Ph.D. in epidemiology. A limited number of fellowships is available for qualified epidemiology students under the National Institutes of Health Training Grant.

Environmental Health—A year or more of graduate work in environmental health, open to graduates of curriculums in engineering, or physical or biological sciences, who possess suitable experience and wish to work in public health programs, leads to the M.P.H. degree. Qualified students may also work toward an M.S. or Ph.D. in environmental health. There are opportunities to specialize in the usual areas of environmental health as well as in accident prevention, air pollution, hospital engineering, public health biology, and radiological health.

Public Health Nursing—Nursing students who wish graduate preparation in public health nursing and who meet entrance requirements are admitted to programs leading to either the M.P.H. or M.S. degree. The M.P.H. program, which has a 3-year experience requirement, allows for few free electives and, in general, is intended for nurses whose main interest is administration or consultation. The M.S. programs, with public health as the major focus, offer wider opportunities for study in related fields. Applicants with interest in advanced practice in public health nursing (including school nursing), supervision, or positions in community programs of long-term patient care are referred to the M.S. program. A program which prepares public health nursing faculty for collegiate schools of nursing, developed in co-operation with the School of Nursing, also leads to an M.S. degree. Extended preparation in mental health may accompany either degree plan.

Supplementary preparation in public health nursing is available for graduate nurses who hold a baccalaureate degree but lack approved undergraduate preparation in this field of nursing.

Health Education—College graduates can earn the M.P.H. by 4 quarters or more of work in community health education. They must have adequate background in biological sciences, social sciences, and education, and suitable experience in public health or a related field. Qualified students lacking suitable experience may earn an M.P.H. degree through completion of a 2-year program which includes extended field experience.

Hospital Administration—A 21-month program leads college graduates to the degree of master of hospital administration. One academic year is spent in formal instruction, and a full calendar year is spent in a hospital as an administrative resident. Suitably qualified students may continue their studies toward a Ph.D. degree.

Biostatistics—Students with a broad scientific background may work toward an M.P.H. in vital statistics or toward an M.S. or Ph.D. in biostatistics. A limited number of fellowships is available for qualified biostatistics students under the National Institutes of Health Training Grant.

University College

This college draws upon the entire University for its courses. It has no fixed curriculum. Its purpose is to provide flexibility in the educational program of the undergraduate who finds none of the standard curriculums of the other schools and colleges suited to his interests or particular objectives. Such a student, with the approval of the University College Committee, may arrange a study program to fit his individual needs. Upon completing it he is granted either a B.A. or a B.S. degree. Students ordinarily are not accepted until they have completed 1 or 2 years of college work.

Information about University College is available through a recently published bulletin on the college or at the University College office, 225 Johnston Hall, University of Minnesota, Minneapolis, Minnesota 55455.

College of Veterinary Medicine

Training in veterinary medicine requires a minimum of 2 years of college level study in pre-veterinary curriculum as prescribed in the *Bulletin of the College of Agriculture, Forestry, and Home Economics* and the *Bulletin of the College of Veterinary Medicine*. Upon completion of the pre-veterinary requirements, the student may apply for admission to the 4-year professional curriculum. Satisfactory completion of the professional curriculum leads to the degree of doctor of veterinary medicine (D.V.M.).

It is desirable that prospective students have farm experience prior to entering the College of Veterinary Medicine.

Graduates in veterinary medicine are prepared for private practice, federal, state, and municipal government employment in disease control work, teaching and research, and for service in the U.S. Public Health Service or as veterinarians in the Armed Forces.

Other Study Opportunities in the University

General Extension Division

Evening and Special Classes—Evening and special classes are available to adult students on the Minneapolis, Duluth, and Morris Campuses and at the St. Paul Extension Center, the Northwest Suburban Extension Center at Robbinsdale, and other communities in the state. They are of collegiate level and include many of the regular University subjects, as well as special courses designed to meet specific needs or interests. There are no general admission requirements; classes are open to anyone who, through education, experience, or maturity, is able to handle college level work. There are specific admission requirements for University degree programs, some of which can be completed entirely in evening classes, and for Extension certificate programs. Address: 57 Nicholson Hall, University of Minnesota, Minneapolis, Minnesota 55455.

Lecture Series—Each year the General Extension Division presents several public lecture series on topics of general interest. These discussions, by the country's outstanding scholars, are planned on a series basis and tickets to individual lectures are not available. Special student and faculty rates are stated on the formal announcement of each series. Inquiries should be made at 57 Nicholson Hall.

Any group of 16 or more adults who wish to pursue a serious course of study and discussion through neighborhood seminars may receive help in planning and leadership. These seminars, meeting once a week for about 8 weeks, can be held in a home, church, or school convenient for the participants. Although conducted by faculty members they are noncredit courses. Further information for either the lecture series or the neighborhood seminars may be had at 153 Nicholson Hall; telephone 373-3919.

Correspondence Study—The Correspondence Study Department offers high school, collegiate, and general courses by home study, designed to be used toward university degrees or certificates, or for occupational or personal interests. Specific limitations as to the amount of degree credit allowed for correspondence work vary as to the degrees concerned. Correspondence courses may be commenced at any time and are open to any qualified student, no matter where he lives. Address: 251 Nicholson Hall, University of Minnesota, Minneapolis, Minnesota 55455.

Center for Continuation Study—This center is a special self-contained unit, with living and teaching facilities, on the Minneapolis Campus. Short courses, conferences, and institutes, lasting from a few days to several weeks, are offered—mostly at an advanced level—for men and women in professional, business, and industrial fields. Address: Center for Continuation Study, University of Minnesota, Minneapolis, Minnesota 55455.

Reserve Officers' Training Corps

The ROTC, through its three services—Army, Navy, and Air Force—gives college men students an opportunity to combine military or naval training with their academic work. Students are eligible for ROTC enrollment if they are registered in academic courses leading toward degrees, if they are United States citizens, and if they meet physical and other qualifications. The general requirements of the three services and their special characteristics are described in the *University Bulletin of the Army-Navy-Air Force ROTC*. An Air Force ROTC unit is located on the Duluth Campus.

Summer Session

Two terms of regular University courses are offered each summer. In each term you can take about half as many credits or courses as in fall, winter, or spring quarter; in the 2 terms you can complete a full quarter's work.

Most major divisions of the University offer summer courses.

Courses are offered in Minneapolis, St. Paul, Duluth, Morris, and at the Forestry and Biological Station in Itasca State Park.

UNIVERSITY CALENDAR

Academic Year, 1964-65

Fall Quarter

August 3-September 25			Fall registration. Orientation program for new students. (Dates for the various colleges will be announced in mailed instructions. Students are urged to register early. It is expected that all students who can do so will register in August.)
August	14	Friday	Last day for new undergraduate students (freshman and advanced standing) to file application for admission for fall quarter.
September	7	Monday	Labor Day, holiday.
September	17	Thursday	Fall quarter fees due for students registered through September 11.
September	18	Friday	New Students' Camps, September 18-20; New Students' Parents' Day, September 20; Welcome Week (Minneapolis-St. Paul), September 20-25; Orientation and Registration Week (Duluth and Morris), September 21-25.
September	25	Friday	Last day for registration and payment of fees for the undergraduate colleges.
September	28	Monday	Fall quarter classes begin 8:30 a.m., Minneapolis (east of river) and Duluth; 8 a.m., Minneapolis (west of river), St. Paul, and Morris.
October	1	Thursday	Opening convocation, 11:30 a.m., IV hour classes excused (except Duluth and Morris).
October	2	Friday	Last day for registration and payment of fees for the Graduate School and for teachers in service.
October	12	Monday	Columbus Day, holiday.
October	17	Saturday	Homecoming Day (Minneapolis-St. Paul).
October	24	Saturday	Homecoming Day (Duluth).
October	31	Saturday	Homecoming Day (Morris).
November	5	Thursday	Senate meeting, 3:30 p.m.
November	11	Wednesday	Veterans Day, holiday.
November	26	Thursday	Thanksgiving Day, holiday.
November	27-28		Classes excused (except Medical School and College of Veterinary Medicine).
December	10	Thursday	Senate meeting, 3:30 p.m.; last class day.
December	11	Friday	Review begins; last day for new undergraduate students (freshman and advanced standing) to file application for admission for winter quarter.
December	12-18		Final examination period.
December	19	Saturday	Fall quarter closes. Commencement, 8 p.m.

Winter Quarter

December	25	Friday	Christmas Day, holiday.
December	28	Monday	Winter quarter fees due for students in residence fall quarter.
December	28-30		Orientation program; registration and payment of fees for new students in all undergraduate colleges.
January	1	Friday	New Year's Day, holiday.
January	4	Monday	Winter quarter classes begin.
January	8	Friday	Last day for registration and payment of fees for the Graduate School and teachers in service.
February	4	Thursday	Senate meeting, 3:30 p.m.
February	12	Friday	Lincoln's Birthday, holiday.
February	22	Monday	Washington's Birthday, holiday.
February	21-27		University of Minnesota Week.
February	25	Thursday	Charter Day Convocation, 11:30 a.m., IV hour classes excused (except Duluth and Morris).
March	11	Thursday	Senate meeting, 3:30 p.m.; last class day.

March	12	Friday	Review begins; last day for new undergraduate students (freshman and advanced standing) to file application for admission for spring quarter.
March	13-19		Final examination period.
March	18	Thursday	Spring quarter fees due for students in residence winter quarter in undergraduate colleges.
March	20	Saturday	Winter quarter closes. Commencement, 8:30 p.m.

Spring Quarter

March	24-26		Orientation program; registration and payment of fees for new students in all undergraduate colleges.
March	29	Monday	Spring quarter classes begin.
April	2	Friday	Last day for registration and payment of fees for the Graduate School and for teachers in service.
April	16	Friday	Good Friday, holiday.
April	29	Thursday	Senate meeting, 3:30 p.m.
May	12	Wednesday	Cap and Gown Day Convocation (Minneapolis-St. Paul), 11:30 a.m., IV hour classes excused.
May	26	Wednesday	Cap and Gown Day Convocation (Duluth), 2:30 p.m., VII hour classes excused.
May	31	Monday	(Sunday, May 30, Memorial Day), holiday.
June	2	Wednesday	Cap and Gown Day Convocation (Morris), 2 p.m., VII hour classes excused.
June	3	Thursday	Senate meeting, 3:30 p.m.; last class day.
June	4	Friday	Review begins.
June	5-11		Final examination period.
June	6	Sunday	Baccalaureate Service (Duluth), 8 p.m.
June	10	Thursday	Baccalaureate Service (Minneapolis-St. Paul), 8 p.m.
June	11	Friday	Commencement (Duluth), 8 p.m.
June	12	Saturday	Spring quarter closes. Commencement (Minneapolis-St. Paul), 7:30 p.m.
June	14	Monday	Commencement (Morris), 8 p.m.

General Extension Division, 1964-65

Fall Semester

September	14	Monday	Registration for fall semester begins.
September	23	Wednesday	Last day for registration, fall semester.
September	28	Monday	Fall semester classes begin.
October	12	Monday	Columbus Day, holiday.
November	11	Wednesday	Veterans Day, holiday.
November	26	Thursday	Thanksgiving Day, holiday.
December	19	Saturday	Christmas recess begins.
December	25	Friday	Christmas Day, holiday.
January	1	Friday	New Year's Day, holiday.
January	4	Monday	Classes resume.
January	30	Saturday	Fall semester closes.

Spring Semester

February	1	Monday	Spring semester registration begins.
February	10	Wednesday	Spring semester registration closes.
February	12	Friday	Lincoln's Birthday, holiday.
February	15	Monday	Spring semester classes begin.
February	22	Monday	Washington's Birthday, holiday.
April	16	Friday	Good Friday, holiday.
May	31	Monday	(Sunday, May 30, Memorial Day), holiday.
June	12	Saturday	Spring semester classes close.

A few Extension classes are offered on the quarter basis on the same schedule as day-school with registration beginning 2 weeks preceding the opening of classes for the winter and spring quarters.

Correspondence study courses may be started at any time.

Summer Session

First Term

	1964			1965
June	15	Orientation and registration for first term.		June 14
June	16	First term classes begin 8:30 a.m., Minneapolis (east of river), and Duluth; 8 a.m., Minneapolis (west of river), St. Paul, and Morris; fees due.		June 15
July	4	Independence Day (Sunday, 1965), holiday.		July 5
July	17	Classes end at the close of VI hour.		July 16
July	18	Commencement, 4 p.m.		
		First term closes.		July 17

Second Term

July	20	Registration and payment of fees for second term.		July 19
July	21	Second term classes begin.		July 20
August	21	Classes end at the close of VI hour.		August 20
		Commencement, 4 p.m.		
August	22	Second term closes.		August 21

Extension Division and Summer Session final examinations are given at the last class meeting each semester or term.

Special Services for Students

University Health Service

The health of the student is a major concern of the University as well as of the individual student.

On the Minneapolis Campus complete facilities are provided in the University Health Service building across the street from the University Hospitals on Church Street.

On the St. Paul Campus, general medical and infirmiry-type hospital care is provided in the Health Service building located on Cleveland Avenue. St. Paul Campus students also have access to the Minneapolis Campus facilities.

Services at Duluth and Morris include consultation, physical examination, care of illnesses and injuries, immunizations, laboratory tests, physiotherapy, and some medication. The Health Service at Duluth is located in Vermilion Hall. The Health Service at Morris is located in Junior Hall Men's Residence.

An entrance physical examination performed by the student's private physician prior to registration is required. See section on Entrance Health Examination for details.

Duluth Campus students must pay a special Hospital Insurance Fee for Blue Cross-Blue Shield coverage unless exempted by showing adequate coverage.

Incidental Fee Benefits, Minneapolis and St. Paul Campuses

Medical care and health counseling are provided for all students. No charge is made to students for general care or for consultations with a specialist on physical or mental health problems except for prolonged treatment of an elective nature for certain conditions. Medical care is given to a hospitalized student without charge, except for surgery. Students also receive specialized services, such as allergy testing and treatment, eye examinations, and laboratory services. Physical therapy and X-ray therapy are provided up to a limit of \$50 per quarter. Charges are made on a cost basis or less for drugs, glasses, and dentistry.

Hospitalization—It is the practice of the Health Service to admit to the hospital all students (especially those whose homes are outside the Twin Cities) who are sufficiently ill to require bed

rest, even for short periods of time. A student who lives in a dormitory or rooming house usually cannot receive proper nursing care, adequate meals, or sufficient medical care if he remains in his room during an illness. The duration of an illness can be shortened in many instances if treatment is begun early in the course of the disease, thus saving considerable time through prompt hospitalization. Hospitalization for obstetrical care is not included.

Any hospital admission under this program must be in the University Hospitals at the discretion of the University Health Service.

Students Without Hospital Insurance—Such students are entitled to 70 free days of hospitalization in University Hospitals each quarter including all extras (except private duty nursing). However, free hospitalization for the same illness is limited to 70 days. Hospitalization benefits do not cumulate from quarter to quarter. Hospitalization coverage for tuberculosis is limited to 30 days. Hospitalization for mental illness is provided for evaluation only and for a period not to exceed 15 days.

Students With Hospital Insurance—Students who feel they have adequate hospital insurance may choose to take a refund on the hospitalization portion of the incidental fee which is \$2 per quarter. Students accepting this refund may be hospitalized in University Hospitals by the Health Service but will pay the full cost of hospitalization and themselves collect from their insurance company. To obtain the refund, students must present their fee statement and proof of insurance to the business office of the Health Service during the first 10 days of each quarter.

Students with hospital insurance may wish to have additional coverage. They may do so by not taking the \$2 refund. Then if hospitalized, the Health Service will bill the insurance company and after receipt of this payment the Health Service will pay the remainder of the hospital bill for as many days as the two programs provide. If the insurance payment plus the Health Service allowance for hospitalization overpay the bill, a credit for the difference will be set up in the student's name. This credit may be used for any future charges by the Health Service except for dentistry, glasses, or drugs. If not used, this credit will revert to the Health Service when the student leaves the University.

Foreign Student Health Fee Benefits

Experience has shown that many foreign students have illnesses or accidents that require prolonged hospitalization, the costs of which far exceed the benefits of the incidental fee. Since noncitizens are not eligible for city, county, or state hospital care, great hardships to some students have occurred. To avoid such hardships foreign students are now required to carry additional health protection at a cost of \$5 per quarter unless they have acceptable health insurance, by which they may be eligible for exemption from this fee. Any student who thinks he might qualify for this exemption should apply within 10 days of the opening of the quarter to the business office of the Health Service. Students required to pay the additional \$5 foreign student health fee are also required to pay the \$20 incidental fee even though they may be taking less than 6 credits.

Optional Plan for Supplemental Blue Cross-Blue Shield Coverage

Students who choose to be covered under the special student Blue Cross-Blue Shield Plan will have added protection for benefits not provided by regular Health Service coverage. These are:

1. Hospitalization and medical-surgical care for illness or accidents where the student is unable to come to the University Health Service for care.
2. Hospitalization and medical-surgical care when hospitalized during the summer months when the student is not eligible for care through the University Health Service.
3. Surgical fees under conditions of 1 and 2 above, and also surgery done at the University Health Service.

Dependents—*Dependents are not eligible for care through the University Health Service. Therefore, the benefits—excluding maternity and obstetrical care—of the Blue Cross-Blue Shield program are available to covered dependents throughout the year.*

Additional information on the above services may be obtained from the business office at the University Health Service, Minneapolis Campus.

Counseling Aids

The services of a staff of professional counselors are available to help students learn more about and better understand their own abilities, interests, personalities, and emotions. These counselors assist students with their progress in college and with

problems related to University life. Many students, at one time or another, may face questions such as: How can I learn to study more effectively? What vocation shall I plan to enter? How can I best manage my budget? How may I find satisfactory housing? What should I do about a speech or hearing difficulty? How can I improve my education through student activities? Assistance in answering these questions can be found in the individual agencies listed below or in the Office of the Dean of Students, 200 Eddy Hall on the Minneapolis Campus, or 101 Coffey Hall on the St. Paul Campus.

Duluth Campus students should consult the Counseling Office, 150 Kirby Student Center.

Students at the Morris Campus should consult the Counseling Office in the Office of Student Services.

Student Counseling Bureau

The Student Counseling Bureau, 101 Eddy Hall, offers specialized counseling and testing services to students who wish to learn more about themselves or who have personal problems which they would like to discuss with a professional counselor. Nearly one-third of our University students have talked at some time with a counselor about courses they wish to take, vocations they are considering, problems they have with study skills, or personal situations involving dating, engagements, marriage, or family relations. Special services are provided for physically handicapped students and a special library of information about occupations is available to students. The bureau's Reading and Study Skills Center offers help in spelling as well as in development of reading and study skills.

A problem may make itself felt in any one of several ways. Worrying about the lack of money, for example, may show itself through seriously affecting your grades. If you wish to review your progress in school or if you have problems that worry you, you are urged to talk with a bureau counselor.

Precollege counseling is available at a small fee to those who have not yet entered the University (no fees are charged University of Minnesota students). When you consider applying for admission to the University, you are encouraged to come to the Student Counseling Bureau for information about the different colleges in the University, courses available to you, and various University services for students.

Student Activities Bureau

The University believes that taking part in student activities is a significant part of college education. To give students an opportunity to participate in community life, several hundred student groups—professional, social and cultural, religious and recreational, athletic and oratorical, everything from departmental to the campus-wide student government group—have been organized. The Student Activities Bureau, located in 4 TNM, exists to aid new groups toward sound organization, to supervise and guide groups in matters of program and finance, and to help individual students in selecting their extracurricular activities.

Office of the Adviser to Foreign Students

Students from other countries are urged to call at 302 Eddy Hall, the Office of the Adviser to Foreign Students. Staff members in this office provide information which will be of assistance in aiding foreign students to meet the problems of federal, state, and local regulations; aid in questions of liaison with the student's own government, and offer information and counseling on problems of a personal and educational nature. Referral of individual students is also made to appropriate campus agencies for assistance with problems of inadequate language proficiency, financial planning, and academic performance.

Religious Activities Co-ordinator

Student programs of religious activity—an important part of campus life at the University—operate through a wide variety of denominational and interreligious groups. The Office of the Co-ordinator of Students' Religious Activities, 211 Eddy Hall, serves as a center where information may be secured concerning the 36 religious organizations on the Minneapolis and St. Paul Campuses. Liaison is provided between the University and the diverse religious groups, their pastors, priests, rabbis, and advisers.

Speech and Hearing Clinic

Students with speech or hearing difficulties are urged to contact the Speech and Hearing Clinic in 205 Shevlin Hall. Here they will receive a free speech and hearing analysis and counsel concerning the possibility of reducing or eliminating any handicap they may have. If clinical help is needed, the student is assigned several appointments each week to work on his problem under the direction of one of the professional staff members of the clinic. Students may receive help for such problems as stuttering, defective articulation, voice quality deviations, foreign accent, and hand-capping speech anxieties. Students with a hearing problem may receive speech therapy and training in lip reading. A fee of \$5 per quarter is charged for these services. On the Duluth Campus, a speech and hearing clinic located in 130 Humanities Building offers assistance in the speech and hearing problems listed above.

College Advisory Programs

Most of the University's schools and colleges have advisory and counseling programs for their students. Each student is assigned to an adviser who helps him with course and other problems, and some of the schools and colleges maintain employment and job-counseling services as well. Students should discuss with their advisers their academic progress at least 2 or 3 times a year.

Scholastic Standing Committees

Each college has a faculty committee (some have student members, too) charged with interpreting the regulations of the faculty, or making exceptions to them if warranted. A student should consult the committee if he is in doubt about a college rule or thinks the rule should not apply to him. Committee headquarters are usually in the college office.

Women's Continuing Education Program

The Minnesota Plan for the Continuing Education of Women is a co-ordinating and facilitating service designed to help the undergraduate and graduate student prepare to maintain her intellectual competence during the family years, and to make the mature woman's return to academic, civic, or vocational productivity a practical reality. The program includes counseling, continuous record keeping, special curricular offerings, placement, child-care, scholarships, and other services. Information and application blanks are available at 219 TNM, or by calling 373-3850.

Veteran, War Orphan, and Selective Service Information

Public Law 550 and 634, Veterans and War Orphans

If you were in the Armed Forces of the United States before February 1, 1955, you may be eligible for educational benefits under Public Law 550 (the so-called "Korean G.I. Bill").

If you are the son or daughter of a person who died of injury or disease incurred or aggravated in line of duty in the Armed Forces during World War I, II, or the Korean conflict, you may be eligible for educational benefits under Public Law 634, the War Orphans' Educational Assistance Act of 1956.

For either law, you can obtain application blanks and additional information at the Veterans Administration, Fort Snelling; 102 Morrill Hall, Minneapolis Campus; 101 Kirby Student Center, Duluth Campus; Office of Student Services, Morris Campus. The Veterans Administration will not pay you until you make application and you should complete this before you start classes. You pay your own fees and buy your own books under these laws. Full payments for undergraduates are made for 14 credits per quarter (or more) and proportionate payments are made for smaller loads.

If you have already applied for these benefits and obtained a Certificate for Education and Training for use at the University of Minnesota, you need only present the certificate at the Veterans Account Window (No. 18) on the first floor of Morrill Hall (or at 220 Coffey Hall, St. Paul Campus or the Business Office at the Duluth Campus or Morris Campus) and show your receipted fee statement which indicates that you have completed your registration.

Each time you begin attending classes again after a period of interruption, or in June or September, you must ask for a recertification at the appropriate Veterans Account Window.

Every Public Law 550 or 634 student must, by requirement of the Veterans Administration, fill out and present a monthly report of attendance. This is filed at the Veterans Account Window between the first and sixth day of each calendar month. Public Law 550 and 634 students at

the Duluth Campus should report to the Business Office. Every Public Law 550 and 634 student at the Morris Campus should report to the Office of Student Services.

Public Law 894 Veterans

If you are a veteran registering under Public Law 894, you should make 102 Morrill Hall your first contact with the University. This office provides assistance to disabled veterans of the Korean conflict with matters pertaining to registration and the interpretation of Veterans Administration regulations affecting University programs. It provides counseling and authorizes textbook and supply orders for such veterans.

Veterans attending under this law at the Duluth Campus should report to the Business Office upon first registration. Veterans at the Morris Campus should report to the Office of Student Services.

Selective Service Certification

Because its men will be more useful citizens when they have completed their education, the nation's Selective Service policy encourages qualified students to stay in school as long as they can. You may request continued deferments for full-time study until you receive the Doctor's degree. Complete information about the qualifications, help in making out the necessary forms, and counsel in solving your personal Selective Service problem are available at 102 Morrill Hall. In advance of coming to the campus, you may obtain on request a folder of information on Selective Service as it will apply to you here.

Students on the Duluth Campus should consult the supervisor of Admissions and Records.

Morris Campus students should consult the Office of Student Services.

Library Facilities and Services

Most of the publications which students need to consult in college, beyond the required texts used for individual courses, are available in the University's system of libraries. With over two million volumes, the University library is one of the 10 largest university research libraries in the United States. In addition to the thousands of periodicals, newspapers, and reference books used for course-related study and research, the library resources also include extensive collections of literary, historical, and biographical works for recreational reading.

General Libraries

Upperclassmen and graduate students particularly will find the Walter Library on the Minneapolis Campus well supplied with publications. There are outstanding collections in many areas such as European and American literature and history, political science, and sociology.

For students in their first 2 years of college there is a separate Freshman-Sophomore Library in Johnston Hall. Here are provided, under open shelf conditions, most of the books needed in connection with courses at the Lower Division level. The patrons of this library are also encouraged to use the Walter Library, especially when they need more specialized sources of information, such as periodical literature, for the preparation of term papers and reports.

On the west side of the river, a branch library housing class-related materials for courses taught there is available on the third floor of the Classroom Building.

On the St. Paul Campus there is a modern central library housing publications in agriculture and home economics, with outlying specialized collections in forestry, biochemistry, veterinary medicine, entomology, and plant pathology.

The Duluth Campus also has a good collection of books and periodicals housed in the library building, with outlying specialized collections in biology, chemistry, children's literature, education, mathematics, geology, and physics.

Departmental Libraries

The library needs of students in several of the more specialized scientific and professional fields are met on the Minneapolis Campus through various departmental libraries housed generally outside of the Walter Library. Among these are such separate libraries as Engineering, Law, Chemistry, Art, Architecture, Mathematics-Physics, Journalism, Geology, Music, Mines and Metallurgy, Pharmacy, and Bio-Medical. The Education Library, which contains the materials in education, psychology, and library science, is housed on the second floor of the Walter Library.

Cultural and Recreational Opportunities

Convocations

Most Thursday mornings, at 11:30 o'clock, the University holds its convocation programs for students, faculty, staff, and the public, usually in Northrop Memorial Auditorium. Programs range from lectures on vital current topics to music and dance recitals and dramatic offerings. The purpose of the convocations, which are taped and rebroadcast by KUOM, is to bring ranking figures in current thought, news, science, adventure, entertainment, and the arts before the University and its community.

On the St. Paul, Duluth, and Morris Campuses, a carefully selected program of convocations is presented at various times each quarter. Professional speakers and talent of high caliber appear.

University Gallery

The program of the University Gallery, located on the third and fourth floors of Northrop Memorial Auditorium, is planned to provide for the all-University function of meeting the broad objectives of an all-University museum, and for the in-service function of meeting the specific teaching and research needs of the Department of Art of the University of Minnesota, of which the University Gallery is a part.

A program of frequently changing major loan exhibitions is stressed. These are held concurrently with smaller exhibitions of works drawn from the permanent collections, and those organized for specific teaching purposes. Major exhibitions originated by the University Gallery during 1961-1963 include: Leonard Baskin—Bronze Sculpture, Drawings, Prints; Grace Hartigan—Paintings, 1957-1963; Reid Hastie; Paul Jenkins—Recent Paintings; Nathan Oliveira; Josephine Lutz Rollins—Retrospective; Bruce Shobaken; Hassel Smith; The Nineteenth Century—125 Master Drawings; German Prints, 1475-1550; Rembrandt's Etchings; Georges Rouault—Printmaker; Three Pioneer Photographers; The Depression Years—The South; Faces and Façades—Photographs by Jerry Liebling and Robert Wilcox; Contemporary American Ceramics.

The permanent collection of the University Gallery is largely devoted to paintings, drawings, and prints by American artists working in the first half of the twentieth century, and contains notable works by Dove, Feininger, Marin, Motherwell, and O'Keeffe. A sculpture collection of major works by contemporary artists, being formed through the John Rood Fund, includes sculpture by Baizerman, Bertoia, Hepworth, Richier, and David Smith. A developing print collection includes works by artists of all schools and periods. Collections on extended loan from Ione and Hudson Walker and Mrs. B. J. O. Nordfeldt include major holdings in Hartley, Maurer, and Nordfeldt.

Three loan programs are provided for University of Minnesota students and staff; Office Loan Collection of framed paintings and prints for campus offices; Student Rental Collection of framed prints and reproductions for student homes; Pictorial Reference Files of 75,000 mounted photographs and color reproductions for study and research.

The exhibition areas of the University Gallery are open Monday through Friday from 8:30 until 4:30; the loan programs are open during the first week of each quarter and thereafter by appointment. For further information please inquire at the offices of the University Gallery, 316 and 310 Northrop Memorial Auditorium, or call 373-3424 or 373-3225.

On the Duluth Campus, the Tweed Gallery offers a year-round exhibition program. The famous Tweed Memorial Collection containing paintings of the 16th through 19th centuries, dominated by the Barbizon School, is housed in the gallery.

Music

Participation in campus musical life is open to students in all colleges on the Minneapolis and St. Paul Campuses—not only to music majors—both in Department of Music courses and in the volunteer musical organizations it directs. All musical groups present concerts each quarter, open free to the general public. Credit is offered for those desiring it.

University Bands consists of: (1) Concert Band Ensemble has the best possible instrumentation of a wind ensemble whose membership is selected by personal audition from the total band membership; (2) Football Marching Band plays at all the fall quarter football games and at one out-of-state football game; (3) Varsity (Activities) Band is of full concert band proportion designed for the student who is avocationally interested in music or who is preparing for membership in the Concert Band Ensemble. University Bands headquarters is 14 Northrop Auditorium (basement).

University Symphony Orchestra rehearses weekly on the stage of Northrop Auditorium where it performs its three annual concerts of standard orchestral literature. Its office is 107 Scott Hall.

University Chorus, composed of 250 mixed voices, prepares major symphonic-choral works for annual performances with the Minneapolis Symphony Orchestra, University Symphony Orchestra, and University Concert Band. Auditions are arranged in 204 Scott Hall.

University Chamber Singers is made up of 24 to 30 select, mixed voices which are known for their treatment of difficult, lesser-known compositions and contemporary music. Auditions take place in 204 Scott Hall.

Men's Glee Club prepares standard glee club material as well as special arrangements for on- and off-campus appearances. The director is to be found in 4 Music Education Building.

Women's Glee Club prepares standard women's glee club material for on- and off-campus appearances. It is hoped that this group will combine with the men's glee club for occasional joint appearances. Auditions are held in 204 Scott Hall.

Opera Workshop is open to singers interested in performing operas, or scenes from operas. Auditions take place in 5 Wulling Hall.

St. Paul Campus Chorus is primarily for students on the St. Paul Campus and for special events there.

Music Hour—Informal music hours, open to students, staff, and general public, take place at 11:30 a.m. each Tuesday in Scott Hall auditorium. Faculty and students, as well as guest artists and lecturers, appear at Music Hour.

Music students are given priority to act as ushers at all concerts presented in Northrop Auditorium by the Minneapolis Symphony Orchestra, Artists Course series, and the spring appearances by the Metropolitan Opera Company, as well as various other events.

The professional music fraternities on campus—Sigma Alpha Iota and Phi Mu Alpha, Sinfonia—present a series of operas each year, directed and performed entirely by students.

The Department of Music offers courses in music appreciation, music history and literature, music theory and composition, music education, and applied music (piano, organ, voice, violin, trumpet, percussion, etc.). Private lessons are available in applied music to students regularly registered at the University and to students not able to attend day classes full time.

Major concerts and musical attractions are regularly brought to Northrop Auditorium by the Department of Concerts and Lectures. The University Artists Course presents a number of top flight recital artists, ballet, and world famous musical organizations on the campus each year. Season tickets for the Artists Course, at remarkably low prices, are sold at the office in 105 Northrop Auditorium.

The Minneapolis Symphony Orchestra, with Stanislaw Skrowaczewski as conductor, makes its home in Northrop Auditorium on the Minneapolis Campus, and offers its annual series of evening and Sunday afternoon concerts there. Special season ticket rates are open to students and faculty. The symphony office is in 110 Northrop Auditorium.

A spring season of the Metropolitan Opera is also brought to the campus under the combined sponsorship of the Department of Concerts and Lectures and the Minneapolis Orchestral Association. This season of opera usually comes the middle of May and presents seven operas by the Metropolitan Opera Company.

At Duluth, students also have the opportunity to enjoy one of America's outstanding community symphony orchestras—the Duluth Symphony. The University orchestra offers excellent opportunities for musical performance and enjoyment. A number of community artists' courses round out an exceptional cultural climate. Campus choral and instrumental groups have active programs.

Students at Morris will have an opportunity to participate in choral, concert band, symphony orchestra, and instrumental groups dependent upon their interests.

Theater

Each year the University Theatre presents a diversified program of living drama. The high standing of the University Theatre is indicated by the fact that it was selected by the Defense Department for tours of Europe (1957), the Orient (1958), and the Northeast Command including Greenland and Iceland (1961), and also by the State Department for a tour of Brazil (1957). The major drama season at Scott Hall consists of five full-length plays offering the finest in dramatic literature to the student body at a nominal fee. In addition, the University Theatre sponsors a Classic Season, a Playwright's Premier Season, a Young People's Series, a Foreign Language Series, plus numerous student-directed plays, both full length and one act. Perhaps the most popular project to date has been the Centennial Showboat, which plays a 10- to 12-week season each summer on the Mississippi. With the construction of the Tyrone Guthrie Theatre in Minneapolis, theater activities on campus are assuming even greater importance. With such an extensive program, students interested in the theater find ample opportunity to participate both as technicians and actors.

The University Theater at Duluth presents an outstanding play each quarter and additional stage performances in a studio theater.

Morris Campus students likewise have the opportunity to participate in dramatics.

Museum of Natural History

"Habitat exhibits," nearly a hundred displays of Minnesota plants and animals mounted in typical environment, are open to the public without charge in the Museum of Natural History on

the Minneapolis Campus. Weekly illustrated programs on Sundays at 3 p.m., November through April 15, feature a wide variety of natural science topics. In addition many thousands of specimens of reptiles, amphibians, birds, and mammals are available here for study by students and qualified visitors.

Physical Education and Athletics

In addition to a broad instructional program in physical education activities for all students, the School of Physical Education provides excellent opportunities in sports, dance, and exercise for both men and women students. Opportunities as either a participant or spectator are available in the intercollegiate athletics program for men sponsored by the Department of Intercollegiate Athletics.

For men students a broad program of organized intramural sports is maintained in 22 individual and team activities. Intramural clubs are sponsored in archery, fencing, judo, karate, and cricket.

The Women's Athletic Association is comprised of an organized intramural program consisting of such activities as archery, aquatics, badminton, basketball, bowling, and volleyball. Extramural clubs are organized on an honorary basis and include aquatics, modern dance, badminton, golf, riding, riflemarksmanship, tennis, and tumbling.

Recreational participation is encouraged in all sports, in individual exercise, and in dance. In addition to separate opportunities for men and women, organized co-recreational sessions are conducted in Norris Gymnasium for Women, Cooke Hall, and the St. Paul Campus gymnasium.

The facilities of Norris Gymnasium for Women which is open to all women students in the University include 2 large gymnasiums, 2 swimming pools, a field house, a study-lounge, and a siesta room.

The indoor facilities for men are housed in Cooke Hall, the Memorial Stadium, and the Field House. Cooke Hall has 2 swimming pools, a large gymnasium, and an apparatus gymnasium. The area underneath Memorial Stadium contains 10 handball courts, 8 squash courts, a wrestling room, a golf gymnasium, a gymnasium for adapted activities, and a judo-karate-weight lifting gymnasium. The Field House contains an indoor track, indoor baseball area, football area, archery station, and three basketball courts.

The St. Paul Campus gymnasium, open to both men and women, has a swimming pool, a large gymnasium, an indoor running track, an exercise room, and two handball courts.

Tennis courts (20 on the Minneapolis Campus and 4 on the St. Paul Campus), the indoor ice skating rink in Williams Arena, and the 2 golf courses near the St. Paul Campus are open to both men and women students.

Outdoor playing fields are available for men and women on both the Minneapolis and St. Paul Campuses.

General Social Programs

Students, faculty, and staff have the opportunity to use the facilities in the Department of Student Unions, which include the Coffman Memorial Union, the Village Union, and the Student Center on the St. Paul Campus.

Full-time program consultants help individuals and groups plan and conduct a wide variety of cultural, recreational, and social programs. Ballrooms, lounges, billiard room, craft shop, bowling lanes, cafeteria, and snack bars are included in the facilities of both the Minneapolis and the St. Paul Campuses.

The Kirby Student Center on the Duluth Campus has similar facilities. The Village Union at University Village, for married students and their families, provides not only for similar facilities but also play center facilities for small children.

The Morris Campus has similar facilities for social and extracurricular activities.

Financial Aids

Student Loans

Should you need financial aid or advice, the Bureau of Student Loans and Scholarships, 104 Westbrook Hall, may be able to help you. Loan funds have been set up to help any student who is making normal progress toward an educational objective. Usually you must have finished 2 quarters at the University before a loan will be granted you, but emergency needs get special consideration. Students who are interested in loans provided for under Title II of the National Defense Education Act of 1958 should apply through this office.

Students at Duluth should go to the Office of Student Personnel Services, 125 Kirby Student Center. Those at Morris should report to the Office of Student Services.

Scholarships and Merit Awards

Scholarships for entering freshmen, chosen from among graduates of Minnesota high schools, are offered through the Bureau of Student Loans and Scholarships, Minneapolis Campus. These scholarships are supported by gifts from alumni, foundations, industry, and friends of the University. Scholarships, which range in amount from tuition and incidental fee to \$600 are awarded on the basis of high school academic scholarship, leadership, character, vocational promise, and financial need. One application, filed through the Minneapolis Campus office, ensures consideration for all freshman scholarships offered by the University. Applications should be made through high school senior class counselors or principals by December 15.

Direct blood descendants of World War I veterans who were in the service 6 months before the armistice, and who have completed 2 quarters of satisfactory work at the University, may be eligible for the LaVerne Noyes resident tuition scholarship. Application and discharge papers must be filed each quarter before September 1, December 1, and March 1. Grants are limited to a maximum of 6 quarters.

After the student has established a record of achievement at the University, other scholarships and merit awards are offered in many of the University's fields of study, usually as cash grants in recognition of outstanding achievement. Information about these awards is announced through the Official Daily Bulletin.

Generally speaking, and with regret, the University is not able to offer scholarships to non-residents or transfer students until they have made a deserving record at this University.

The College of Agriculture, Forestry, and Home Economics on the St. Paul Campus has a number of scholarships and awards available to its students. Information may be obtained from the College Office, 207 Coffey Hall, St. Paul Campus or from the Bureau of Student Loans and Scholarships, Minneapolis Campus.

The Duluth Campus has a number of scholarships and awards available to its students. Information may be obtained from the Office of Student Personnel Services, 125 Kirby Student Center, University of Minnesota, Duluth.

Information concerning scholarships available on the Morris Campus can be obtained from the Office of Student Services, University of Minnesota, Morris.

Graduate Assistantships and Fellowships

Graduate students have open to them a number of teaching assistantships and fellowships—usually requiring part-time work—in many University departments. You can get information about these from the Graduate School or the college concerned.

Counselorships

For selected graduate students there are a number of counselorships, in dormitories and fraternities, which provide room and board and require part of their holders' time. The Office of the Dean of Students can furnish information about these positions, as can the co-ordinator of housing on the Duluth Campus.

Aids for Handicapped Students

Under certain conditions blind students are eligible for tuition scholarships. Application for aid should be made at the Office of Admissions and Records (window 18).

"Rehabilitation funds" for the education of disabled persons are available through the State Department of Education. Applications for aid from these funds should be sent to the Division of Vocational Rehabilitation, State Office Building, St. Paul, Minnesota 55101.

Student Employment Office

If you are a student on the Minneapolis or St. Paul Campus and need a job to help meet school expenses, the Student Employment Office, 30 Wulling Hall, will help you find part-time work either on or off campus. Apply in person at the office after you have enrolled and know your class schedule. On the Duluth Campus, go to the Placement Office, 122 Library; or at Morris, go to the Business Office. Your chances of being placed depend on the supply of jobs, your qualifications, your need, and the hours you have available. Very frequently a job will provide valuable experience as well as financial assistance. Work for board and room is usually available for girls, and sometimes for men or married couples.

Housing Facilities

Most out-of-town students live either in University-maintained residence halls, in private housing, or in fraternities or sororities.

Information concerning residence halls may be obtained by writing to the office of the Director of Housing, 100 Wesbrook Hall, University of Minnesota, Minneapolis, Minnesota 55455. This information as well as information about private housing and fraternities or sororities may also be obtained from the Student Housing Bureau, 209 Eddy Hall, Minneapolis Campus, or 101 Coffey Hall, St. Paul Campus.

The Board of Regents' policy on discrimination in private housing is as follows:

The Regents of the University of Minnesota deplore discrimination on the basis of race, religion, or nationality. In line with this policy they declare that housing facilities should be available to students regardless of race, religion, or nationality. This policy presently governs in all housing facilities operated by the University. The Regents wish it to govern in all housing facilities offered to students by private owners.

The responsibility for administering this policy has been delegated to the Student Housing Bureau.

University Residence Halls

Living in a residence hall has many advantages for the student. The halls, located close to class buildings and to the student unions, offer comfortable living with well planned healthful meals, served under the direction of a trained dietitian. Opportunities for counseling, health supervision, student government, social and athletic programs are provided. All residence halls are modern, fireproof brick buildings, constructed in accordance with the highest safety standards. The 1963-64 rates ranged from \$3.21-\$3.93 per day for board and room (\$245-\$300 per quarter), payable in monthly installments. Many residents can earn part of their board and room by work in the residence halls; an early interview and application is recommended for students interested in this opportunity.

Application should be made early for accommodations in University residence halls. Write to the Director of Housing, 100 Wesbrook Hall, indicating your school year and hall preference; this application will be forwarded to the appropriate residence hall director who will make contract arrangements with you directly. *Final acceptance by the University is not necessary before applying.* Cancellation may be made without penalty if the residence hall is notified by August 15 or immediately following nonacceptance by the University.

MINNEAPOLIS CAMPUS

Halls for Women

SANFORD HALL, accommodating 280 freshman, upperclass, and graduate women, is located on University Avenue S.E. near the campus.

COMSTOCK HALL accommodates 540 sophomore, junior, senior, and graduate women in large double and single rooms. This hall is situated along the Mississippi River close to the center of University life.

PIONEER COURT, accommodating undergraduate and graduate women, is located adjacent to Pioneer Hall for men and faces on East River Road. Women residents will share the common facilities of dining and recreation with men residing in Pioneer Hall.

POWELL HALL is located at 500 Essex Street S.E. near the University Hospitals. It accommodates 407 nursing students, interns, and doctors on call. Some nurse students earn board and room by working in the University Hospitals.

Halls for Men

PIONEER, CENTENNIAL, TERRITORIAL, and FRONTIER HALLS are located in a quadrangle on the edge of the campus near the East River Road. These halls accommodate 2,360 men. Special houses for graduate students are available.

ST. PAUL CAMPUS

BAILEY HALL is a new and attractive residence hall for men and women. The north wing houses women and the east wing houses men. All rooms are doubles. Meals for residents of this hall are served in the new Dining Center adjoining the dormitory and the Student Center.

Other accommodations are available in BREWSTER, MEREDITH, DEXTER, and NORTH HALLS.

DULUTH CAMPUS

Accommodations are available for 117 women in Burntside Hall on the Upper Campus. Vermilion Hall will accommodate 56 men students. Additional accommodations are available in Torrance Hall on the Lower Campus. Meals for residents are served in the Kirby Student Center Cafeteria. Information and applications for reservations may be obtained by writing to Head Residence Hall Counselor, 101 Kirby Student Center, University of Minnesota, Duluth.

MORRIS CAMPUS

Accommodations are available for 301 students in 4 dormitories on the Morris Campus. Further information may be obtained by writing to the Director of Residence Halls, University of Minnesota, Morris.

University Housing for Married Students

COMMONWEALTH TERRACE, new permanent apartments for married students and located on the St. Paul Campus, provides housing for 362 families in 1- and 2-bedroom units. Present rates are \$70 and \$80 per month including utilities, unfurnished except for stove and refrigerator.

THATCHER HALL, for married graduate students only, is located at the edge of the St. Paul Campus. The building contains efficiency and 1-bedroom apartments at \$62.50 and \$70 per month furnished.

The demand for family housing is great and an early application is advisable. Applications for any of the locations should be sent to Married Students Housing Office, 1295 Gibbs Avenue, St. Paul, Minnesota 55108.

Private Housing

Vacancies in apartments, housekeeping units, and sleeping rooms are reported to the Student Housing Bureau, where students may get help with housing. Non-University housing is inspected to secure adequate housing standards for health, safety, and study conditions. Married students have found it desirable for one member of the family to come and live in temporary accommodations while looking for quarters for the entire family.

Rooms or apartments in private residences must be engaged "on the spot"—no reservations can be made before arrival on campus. Students should make arrangements for housing at an early date before classes begin to be assured of adequate quarters. Single students, under 21 years of age, must have approval of the Student Housing Bureau to live in an apartment.

Whatever lease arrangement you make, housing regulations provide that you must give notice according to rental pay period if you plan to move. Any change of address must be reported to the bureau. The bureau is the agency to consult in case of problems or difficulties about housing, or about your privileges, rights, and obligations. Use of bureau counsel in a dispute is likely to lead to a satisfactory conclusion.

Women students living in private rooms and rooming houses are expected to follow hour regulations established for the University's women's residences. They may entertain callers in suitable rooms until 12 midnight any night of the week. Earlier hours may be established with mutual agreement of householder and students.

Moving to Fraternities and Sororities

Joining a fraternity or sorority does not excuse you from a rooming contract. If you plan to move to a fraternity or sorority house, you should make the move at the expiration of your contract or room commitment, or at such time as you are able to furnish a substitute to take over your contract. Information on rush week and fraternity and sorority pledging may be obtained from the Student Activities Bureau, 4 TNM, University of Minnesota, Minneapolis, Minnesota 55455.

Food Services and Restaurants

Minneapolis Campus

A variety of food service facilities is available to students in Coffman Memorial Union. Largest is the cafeteria, on the ground floor. There are also a soda fountain, a lunch counter, and com-

muters' lunchrooms for students who bring lunches from home. Banquet, party, and private dining room facilities are also available.

Shevlin Hall has a cafeteria and lunchroom for students. There are also several privately operated restaurants, lunch counters, tearooms, and soda fountains near the campus.

St. Paul Campus

The St. Paul Campus Dining Center provides full food service for students. Lunchroom and soda fountain facilities are available in the new Student Center.

Duluth Campus

The Kirby Student Center cafeteria provides complete food services, including banquets, regular meals, snacks, and picnic menus.

Morris Campus

Students living in residence halls will eat at the food service cafeteria. The Student Lounge also has a lunch counter and a commuters' lunchroom for students bringing lunches from home.

How Much Will It Cost?

A prospective college student always must ask, "How much will it cost?" Whether he is "on his own," earning some or all of his own funds, or getting aid from parents or others, he asks the inevitable question of University advisers.

A general answer is, for residents of Minnesota, about \$1,300 for 3 quarters except for dentistry, medicine, and veterinary medicine where expenses are about \$1,950. Nonresidents should add up to \$525 for the higher tuition required of students from out of state.

This general answer has to be qualified at once, for there are many factors that can't be tied down to specific figures. In the table of estimated expenses the largest item is that for board and room. In some cases these board and room estimates will be too high—many students, living at home or with relatives, make no cash outlay for board and room; others "work out" board and room costs. Depending on tastes and special situations, the cost may be higher.

ESTIMATED AVERAGE EXPENSES OF MINNESOTA RESIDENTS

Fall, Winter, and Spring Quarters, 1964-65

College	Fees ¹	Books and Supplies ²	Room and Board ³	Total
Dentistry, Medicine	\$525	\$600	\$820	\$1,945
Veterinary Medicine	480	600	820	1,900
Law, Mortuary Science	375	100	820	1,295
Business, Graduate School, Institute of Technology, Medical Technology, Pharmacy, Physical and Occupational Therapy, Public Health	333	100	820	1,253
Other schools and colleges	315	100	820	1,235

¹ Includes tuition, incidental, and other fees. Actual charges normally will not vary more than \$10 from this amount.

² Cost may vary. Includes \$500 for dental instruments and \$450 for microscope for medicine and veterinary medicine.

³ University residence hall rates for 1963-64 were from \$735 to \$900 for room and board. The average accommodation was about \$820.

Moreover, an estimate such as this does not take into account laundry and clothing expenses, nor any cost for such items as recreation, travel, and other incidentals. So you should consider the estimates in the table not as exact figures, but as general guides.

Fees

Tuition

The table shows the basic tuition fee in each University division. It also shows, except in the Graduate School, that a student taking less than 12 credits a quarter may pay tuition on a credit-hour basis. You pay your fees at the time you register, before you begin your quarter's work. Fees for auditors are the same as for students registered for credit.

Graduate students of certain classifications who are giving 25 per cent or more of full-time service to the University are privileged to pay tuition at the Graduate School resident rate, regardless of source of fund, resident status, or curriculum pursued. Those included are fellows, scholars, assistants, instructors, research associates, and members of the teaching staff and scientific bureaus and experiment stations; they must be regularly enrolled in the Graduate School or be in the final year of the Master's degree curriculums in undergraduate colleges. Civil service appointees working 75 per cent time or more are eligible for the same privilege. Faculty members at the postdoctoral level may audit courses without registration or payment of fees. Should the need arise, an official class audit card may be obtained from the Graduate School.

Residence counselors with Bachelors' degrees are privileged to pay tuition at the resident rate of the college in which they are enrolled.

Students of one college taking work in another pay the tuition fee of their own college. If you wish to apply credit for such work toward a degree from a higher fee college you must pay the tuition difference. This rule does not apply to students who have paid fees for the full normal period of residence in the higher fee college.

New full-time faculty members with rank of instructor or above, civil service personnel eligible for faculty group insurance, certain accredited foreign diplomatic officials, and their immediate families may pay resident fees in all colleges. Similar provision, 1 year after their arrival, is made for military personnel on duty in Minnesota for other than college attendance. New full-time faculty on the staff of accredited Minnesota colleges (not their families) have the same privilege as provided for new University faculty. Persons for whom these provisions are meaningful should contact the Recorder's Office, 120 Morrill Hall, to make appropriate arrangements.

TUITION FEE

School or College	Quarter Fee		Credit Hour Fee	
	Resident	Non-resident	Resident	Non-resident
Agriculture, Forestry, Home Economics; Dental Hygiene; Duluth; Education; General College; Liberal Arts; Morris	\$ 85	\$240	\$ 7.25	\$20.00
Business Administration; Medical Technology; Pharmacy; Physical and Occupational Therapy; Public Health (except Hospital Administration)	91	245	7.75	20.50
Dentistry, Medicine, and Graduate Work; Hospital Administration	155	330	13.00	27.50
Graduate School—more than 6 credits	91	245	No credit hour fee provided	
—6 credits or less, or thesis only	45.50	122.50		
—Ph.D. candidates, 6 credits or less or to meet continuous registration requirement	20	20		
Law School and Graduate Work; Mortuary Science	105	245	8.75	20.50
Nursing—Plan A (ending June 1965)	85	165	7.25	13.75
—Other programs	85	240	7.25	20.00
Technology, Institute of				
Lower Division	85	240	7.25	20.00
Upper Division	91	245	7.75	20.50
University College	Tuition of college in which work is taken			
Veterinary Medicine and Graduate Work	140	310	11.75	26.00

Incidental Fee

If you are registered for 6 or more credits in a quarter you pay the \$20 fee which entitles you to the privilege of the student unions, the University Health Service, the *Minnesota Daily*, and helps to support the student government. Students in the Institute of Technology pay 85 cents more a quarter and receive in addition the *Minnesota Technologist*. The incidental fee at Duluth and Morris is \$20 and includes similar services.

The incidental fee is required of all students in the Graduate School, except elementary and secondary public, private, or parochial teachers in service taking less than 6 credits, Ph.D. candidates taking 6 credits or less, and students doing research away from the campus.

Any student for whom the incidental fee is not required may obtain the privileges by paying the fee on an optional basis.

Foreign Student Health Fee

All noncitizens are required to pay a Foreign Student Health Fee of \$5 each quarter. See section on University Health Service for explanation.

Special Fees

Additional fees are charged for special services as follows:

<i>Advanced Standing Examination Fee</i>	\$5.00	<i>Course Fees</i>	
Such an examination may be taken only upon approval of the appropriate committee. (If it is taken during the first quarter after entering or re-entering the University, no fee.)		Civil Engineering Summer Camp; Modern Language Institute; Music Lessons; Physical Education; Preparatory Composition; English; Mathematics; Public Health; Rhetoric. See <i>Class Schedule</i> issued at registration.	
<i>Credentials Fee</i>	\$5.00	<i>Music Practice Fees</i>	
Required of nonresidents applying for admission to Law, Medicine, Dentistry, Education (Upper Division), Business Administration, and Veterinary Medicine.		For rent of pianos, organs, and music practice rooms. Rates are given in the <i>Class Schedule</i> issued at registration.	
<i>Dentistry Examination Fee</i>	\$26.00	<i>Placement Service Fee</i> —required of degree candidates from:	
For examination to determine advanced standing in Dentistry.		Duluth	\$7.50
<i>Deposits</i>		Institute of Technology (first certificate or degree)	5.00
Art	\$ 5.00	College of Education (except Nursing Education Majors)	10.00
Biochemistry (Ag)	5.00	<i>Privilege Fee</i> —for late registration or late payment of fees	
Biochemistry (Med)	5.00	Through first week of classes	\$3.00
Chemistry	10.00	Through second week of classes	5.00
Pharmacy	5.00	Third week of classes and thereafter	10.00
To cover cost of materials and breakage.		Late change of registration	2.00
<i>Duplicate Diploma Fee</i>		<i>Record Service Fee</i>	\$1.00
To replace large diploma	\$7.50	This fee, required of all new students, provides three certified copies of student records.	
To replace small diploma	5.00	Each additional copy	1.00
<i>Graduation Fee</i> (including small diploma)		<i>Special Examination Fee</i>	\$5.00
Each degree	\$10.00	<i>Speech and Hearing Clinic Fees</i>	
<i>Hospital Insurance Fee</i> (Duluth)		See <i>Class Schedule</i> issued at registration.	
Per quarter	\$6.25	<i>Thesis Binding Fee</i>	
Required of all students taking 6 or more credits.		Master's thesis	\$5.00
<i>Large Diploma Fee</i>	\$5.00	<i>Thesis Examination Fee</i>	
Any graduate may get a large diploma in place of a small one, by paying this fee in addition to the graduation fee.		For professional engineer degree	\$15.00
<i>Microscope Rental Fee</i>		<i>Thesis Publication Fee</i>	
Partial use, one quarter	\$3.00	Ph.D. thesis	\$25.00
Continuous use, one quarter	6.00		

Refunds

If you cancel your registration before 6 weeks of any quarter have passed, you are entitled to refund of tuition, incidental, and course fees on this basis: If you do not attend classes at all, you get full refund; if you cancel within the first week, you get 90 per cent, within the second, 80; third, 70; fourth, 60; fifth, 50; sixth, 40. After the sixth week there is no refund.

Members of reserve units activated for military service may receive full refund of tuition if credits or incompletes cannot be allowed.

Nonresident Students

Nonresident tuition rates are charged students who have not had permanent homes in Minnesota for at least 1 calendar year. However, completion of a year's stay in Minnesota does not of itself establish residence for University purposes, and a person who moves to Minnesota, and who is a student, may not be able to demonstrate that he is acquiring residence here. Thus, the student from out of state who proposes to establish Minnesota residence must assume the burden of proving conclusively that he has been a resident for the requisite time and that he intends to make his permanent home in this state.

A student may lose his Minnesota residence, for University purposes, under certain circumstances. These may include: employment outside of Minnesota; change of parents' domicile to another state; and marriage to a nonresident in the case of a female.

While a student's classification may be changed, it is his responsibility to initiate action, for either loss or establishment of residence. If there is any question about your classification, resident or nonresident, you should apply to the Office of Admissions and Records for consideration of your status.

Athletic Purposes

The following statement on athletic purposes is published in compliance with the athletic regulations of the North Central Association of Colleges and Secondary Schools:

The University of Minnesota's concept of the purpose of sports and athletics developed early in the institution's history. From the beginning of recreational sports and athletics on the University campus the men and women responsible for these activities have sought to relate them to the ideals, principles, and purposes of the institution's broad educational policies. Thus, from the early days of class, intramural, and intercollegiate games there has existed an increasing awareness of the special contributions of sports and athletics to the educational programs and experiences of those students who participate voluntarily for the pleasures and values to be obtained from these activities and those preparing for professional courses as athletic coaches, recreational workers, and the like.

In this past is to be found the philosophy from which arise the many specific purposes of present-day programs, including the following:

1. To provide opportunities for students to engage voluntarily in physical activities and programs of physical fitness which will contribute to their personal health and the national welfare.

2. To encourage students to develop interest in a variety of physical activities and sports which are so pleasant and satisfying to them during residence at the University that many will continue their interest and activity after leaving the campus.

3. To provide adequate facilities for both men and women students to participate in physical fitness programs including recreational games, sports, contests, and athletics outside the regularly organized courses in physical education.

4. To provide qualified and competent staff to teach the values inherent in recreational sports and athletics within the environment of the University. Desirable outcomes included are a sound understanding of the athletic exercise or contest, the required skills, the rules of sportsmanship, and the spirit of clean competition and the will to win; and, also, to develop sportsmanlike, appreciative, and intelligent spectators.

5. To emphasize such corollary values of supervised sports and athletics as the experience of team play and working co-operatively with others; respect for rules; character development; group loyalty; leadership in group activity; and associations, friendships, and social relationships through sports.

6. To give recognition to the contribution of sports and athletic activities in developing the personality of the individual student, particularly with respect to the attainment of a balanced adjustment in social, intellectual, and emotional activities.

7. To advance esprit de corps in terms of loyalty, spirit, and institutional morale, and to acknowledge the important roles of sports and intercollegiate athletics as unifying factors among students, alumni, and friends of the University.

8. To provide a laboratory for professional courses in physical education which will assist in preparing prospective leaders, coaches, supervisors, and directors of recreation, athletics, and physical education in colleges, high schools, and recreation centers.

9. To encourage the attainment of sound standards in the conduct of sports and athletic activities among universities, colleges, and high schools.

The University accomplishes these objectives in part by a sports and athletic program which includes the following elements:

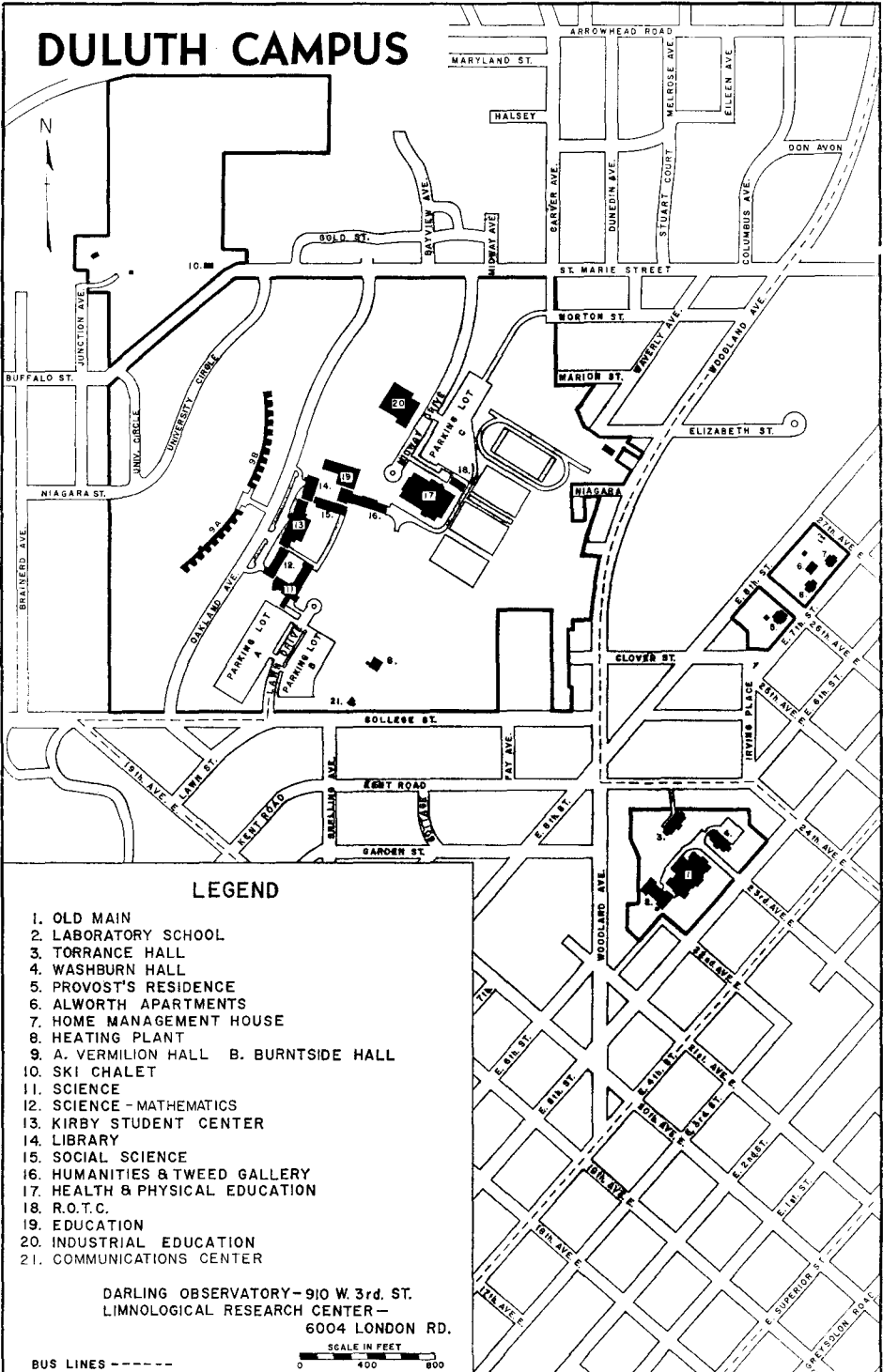
1. *Sports for Individuals and Small Groups*—Students, as individuals or as members of small groups, are invited and encouraged to engage in sports and games of their choice. A wide variety is offered: golf, swimming, handball, squash, tennis, archery, fencing, bowling, ice skating. Excellent facilities are close to both campuses.

2. *Intramural Sports*—Students are also invited and encouraged to participate in group or team sports. The intramural athletic program includes baseball, touchball, softball, basketball, golf, tennis, horseshoes, handball, ice hockey, squash, swimming, bowling, boxing, volleyball, archery, badminton, table tennis, wrestling, rifle shooting, fencing, and track and field events.

3. *Intercollegiate Athletics*—Men students who meet the rules of eligibility for competition in intercollegiate athletics, as set forth in the most recently revised *Handbook* of the conference commonly known as the Big Ten or Western Conference, are invited and encouraged to report to the coach for a tryout in each intercollegiate sport in which they are interested.

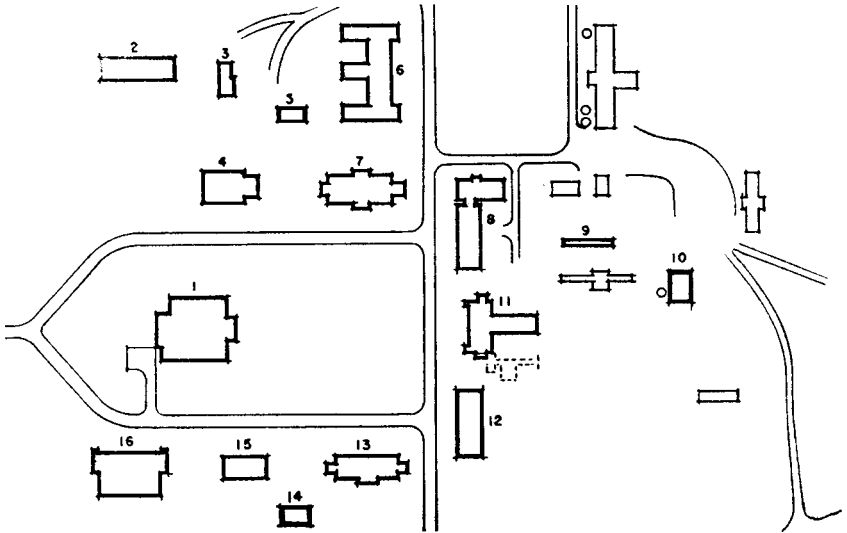
The University of Minnesota was one of the founding members of the conference now known as the Big Ten or Western Conference. Only institutions having full and complete faculty control of intercollegiate athletics may hold memberships. This control relates to standards of eligibility, team schedules, ticket distribution, conference legislation, etc. In keeping with the basic principles of faculty control, the responsibility for intercollegiate athletic policies at Minnesota rests with the Senate Committee on Intercollegiate Athletics. This committee is made up of faculty, alumni, and students, with the faculty constituting a majority. Athletics department budget making and control, and staff appointments, are handled directly upon recommendation to the president by the director of intercollegiate athletics in precise accord with the procedure of budget and appointment recommendations made by the deans of the various colleges to the president.

DULUTH CAMPUS

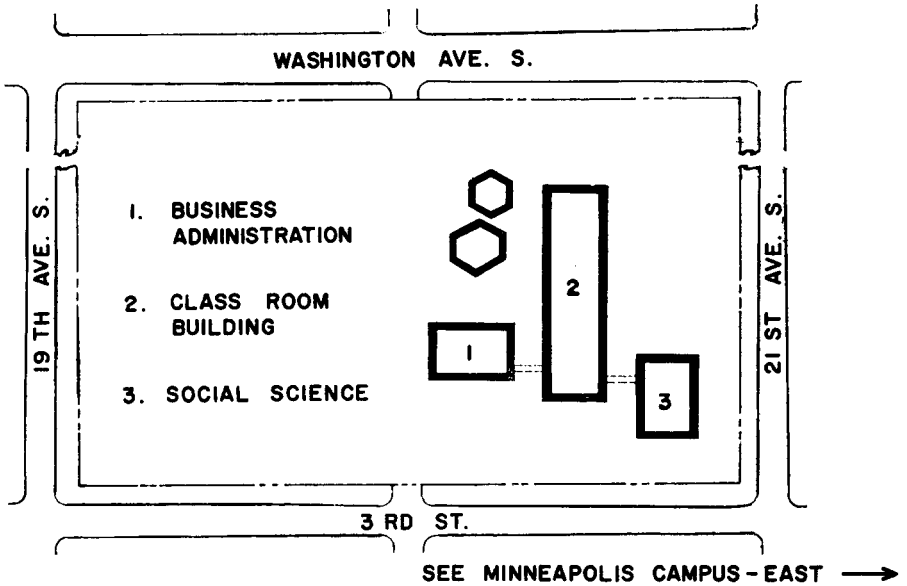


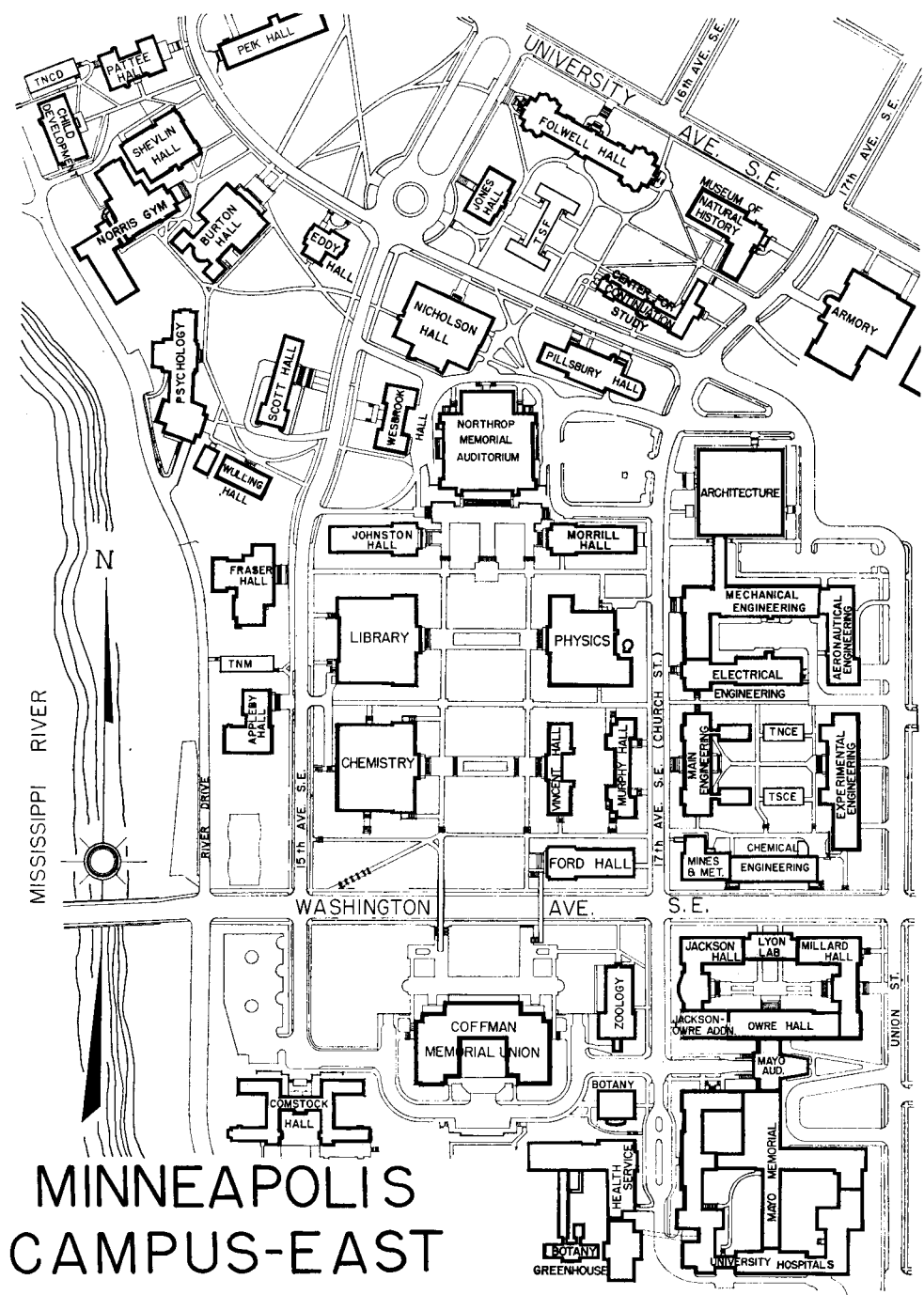
MORRIS CAMPUS

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|-------------------------------|-------------------------------------|--------------------|
| 1. EDSON HALL | 7. WOMEN'S RESIDENCE HALL | 12. SENIOR HALL |
| 2. JUNIOR HALL | 8. HUMANITIES | 13. SPOONER HALL |
| 3. SCIENCE OFFICE (T) | 9. GREENHOUSE | 14. ADMINISTRATION |
| 4. SCIENCE | 10. HEATING PLANT | 15. MUSIC HALL |
| 5. SUPERINTENDENT'S RESIDENCE | 11. FOOD SERVICE and SOCIAL SCIENCE | 16. GYMNASIUM |
| 6. AGRICULTURAL ENGINEERING | | |



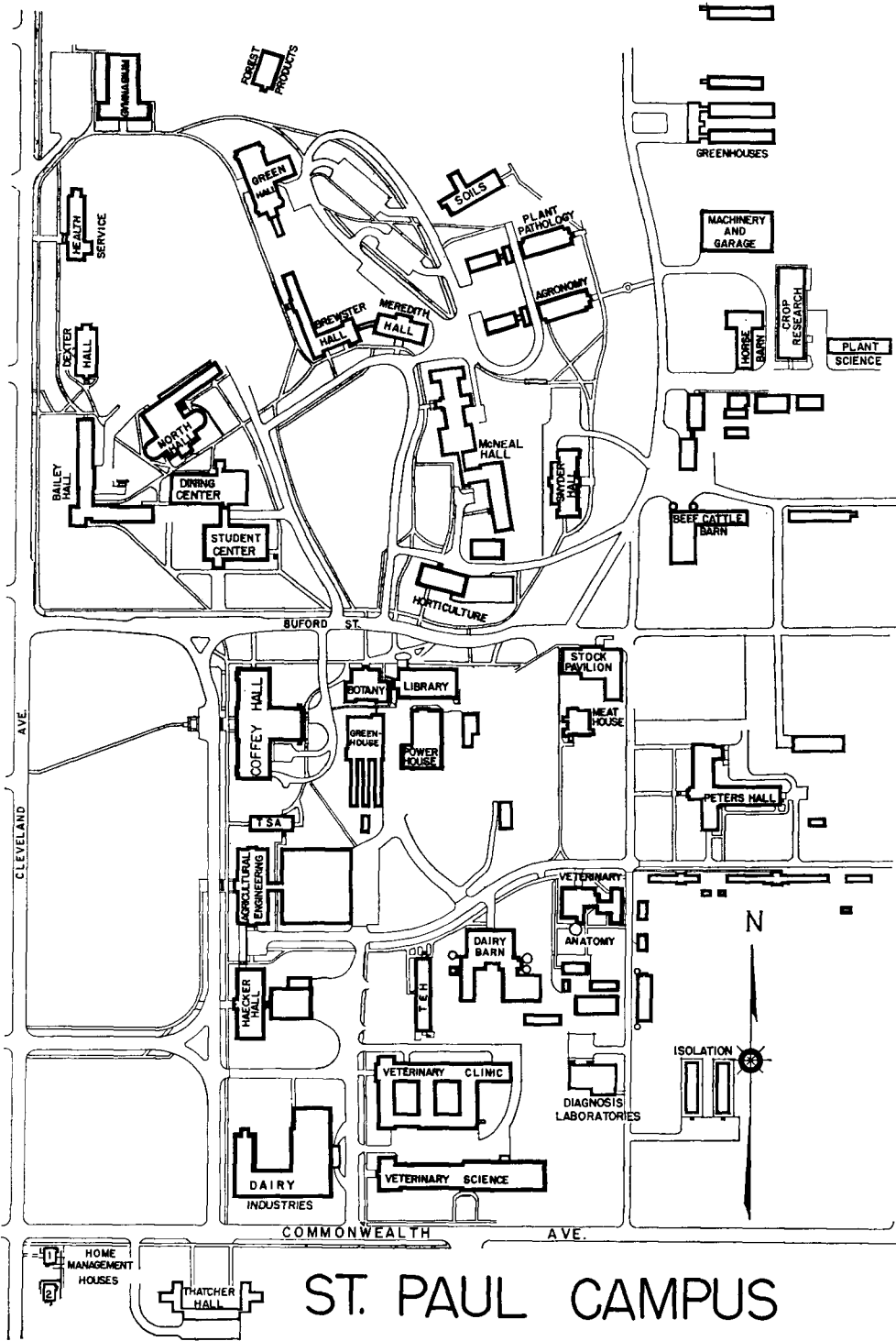
MINNEAPOLIS CAMPUS—WEST





MINNEAPOLIS CAMPUS-EAST

SEE MINNEAPOLIS CAMPUS-WEST



ST. PAUL CAMPUS