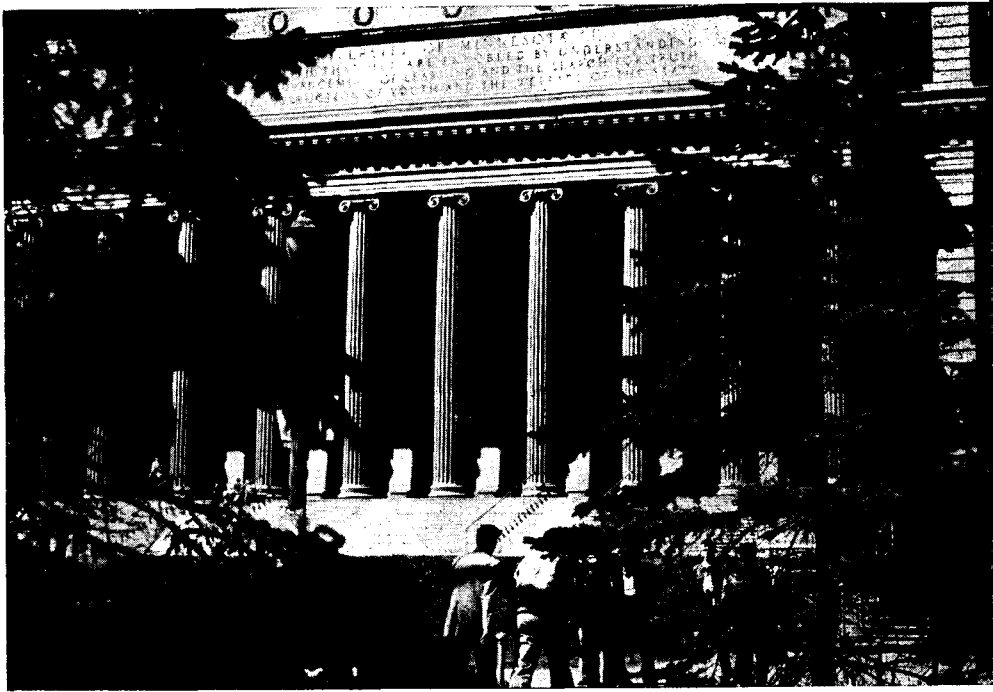


Bulletin of the
UNIVERSITY OF MINNESOTA



General Information 1957-1958

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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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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, two 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 grants degrees on three campuses: Minneapolis, St. Paul, and Duluth. 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 School of Veterinary Medicine are on the St. Paul Campus. At Duluth is the Duluth Branch. Each campus has an Office of Admissions and Records.

Who May Enter the University

The colleges of the University invite applications for admission from: (1) Minnesota residents who have been graduated from accredited high schools, or those who have Equivalence Certificates; (2) students who have completed some college work elsewhere; (3) nonresidents who present above-average high school or college records; (4) non-high school graduates who hope to qualify by examination; (5) 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 preprofessional 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, and Duluth 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. All completed applications should reach the Office of Admissions and Records on the appropriate campus *more than a month before the desired entrance date*. This means that high school seniors planning to attend the University must apply promptly after graduation if they hope to make full use of available advisory and counseling services and to plan appropriate programs. An admission certificate and registration instructions are directed to successful applicants.

14. Admission from High School

If you have been graduated from an accredited high school, are a Minnesota resident, and meet the requirements of the college of the University you wish to enter, you may be admitted without special examination.

9 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 at the University of Minnesota. 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.

Requirements for the entrance of high school graduates to the individual colleges are described below. A high school unit stands for a year of work of approximately 180 class hours in a given subject.

College of Science, Literature, and the Arts

10 This College, the University's largest—usually called the "Arts College"—admits high school graduates who have college aptitude ratings of 40 or higher. The college aptitude rating is the average of the high school percentile rank and the college aptitude percentile rank. Applicants should have completed 12 units in the last 3 years of high school, including at least 9 units from 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, and 2 or more in any one of the other areas specified. Algebra in grade 9 may count toward the mathematics requirement but not as one of the 12 units required from grades 10-12. A foreign language from grade 9 may count toward the language sequence, but not toward the 12 credits 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.

Applicants not fully meeting the above requirements may be requested to submit additional information.

General College

The General College is open to any resident of Minnesota who is a graduate of an accredited high school. One purpose of the College is to give students the opportunity of trying themselves in college work and exploring a variety of subject matter fields. This 2-year college does not set a minimum high school rank, special standing on college aptitude tests, or a particular pattern of high school subjects as requirements for admission.

Institute of Technology

The Institute of Technology—called by the students "IT"—consists of five colleges and schools to provide education in basic and applied physical sciences and in architecture. The Institute admits high school graduates who are in the top half of their class and who meet the following requirements:

Twelve units completed in grades 10-12 including 3 units of English, 3 units of mathematics, 3 or more units from among the following: foreign languages, history, social science, and natural science.

One unit of algebra completed in grade 9 will count in the 3 units of mathematics. The 3 units in mathematics must include 1½ units in algebra and 1½ units in geometry. A full unit of

general mathematics followed by a full unit of higher algebra may be substituted for the 1½-unit algebra requirement. It is desirable that the student complete as much mathematics as possible in high school, including higher algebra, solid geometry, and trigonometry if offered.

If a student lacks either higher algebra or solid geometry but not both, he can be admitted on the condition that he make up the deficiency by the end of the first quarter. The best way to take the lacking course is in the summer preceding entrance by attendance at Summer Session or through the Correspondence Study Department. If this is not possible, it may be taken during the first quarter through the General Extension Division. Making up the deficiency carries no Institute credit and it is strongly recommended that this be done before entering the Institute.

Students not eligible for admission to the Institute of Technology directly may apply for transfer to the Institute after a minimum of 1 year's work, or completion of the first 2 years' work, in some other college, either at the University of Minnesota or elsewhere. This work must meet the scholastic requirements of the Institute of Technology. Students who enter another college hoping to earn a later transfer to the Institute of Technology 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.

Duluth Branch

In general, a college aptitude rating of 40 or more is required for admission to pre-professional courses or to curriculums leading to the B.A. or B.S. degree. Applicants who wish to major in art, industrial education, home economics, music, or physical education must have a college aptitude rating of 25 or above. No special grouping of high school courses is required. Admission to the 2-year terminal program leading to the A.A. degree is based on a high school diploma or its equivalent.

Additional information about entering the Duluth Branch can be obtained from the Office of Student Personnel Services, University of Minnesota, 130 Kirby Student Center, Duluth Branch, Duluth 5.

College of Agriculture, Forestry, and Home Economics

Any high school graduate in the top 25 per cent of his graduating class may enter this College, without regard to the subjects taken in high school. However, the College prefers high school programs close to the divisional requirements described below.

High school graduates in the upper 75 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 follows:

Agriculture—3 units in English, 1 unit in elementary algebra (plus 1 unit in plane geometry if the student enters any program other than agricultural education, technical agriculture, or agricultural business administration), and 1 or more units in natural science or agriculture.

Forestry—3 units in English, 2 units in mathematics (elementary algebra and plane geometry) and 1 unit in natural science.

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

Pre-Veterinary Medicine—3 units in English, 2 units in mathematics (elementary algebra and plane geometry), and 1 or more units in natural science or agriculture. Students wishing to prepare for the School of Veterinary Medicine should apply for admission to the College of Agriculture, Forestry, and Home Economics.

College of Education

Training 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, elementary education, industrial education, music education, nursery-kindergarten-primary education, physical education, and recreational leadership.

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 gain advanced standing in the College, a student must have maintained an over-all C average, and an average of 1.5 (midway between C and B) in courses in his major. Application for admission with advanced standing should be made prior to June 1, for the next succeeding fall quarter, and by the Friday preceding fall and winter quarter final examinations for admission to the winter and spring quarters. Such students must also take preadmission psychological tests offered in 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 Senior College and into practice teaching. When College authorities are convinced a student is not well qualified for teaching, he may, after personal conference, be advised to go into more suitable training.

Dental Hygiene

The requirements for admission to the Program for Dental Hygienists 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.

School of Nursing

Any high school graduate in good health between 17 and 35 years old may enter the 1-year Practical Nursing Curriculum. Those older than 35 are given individual consideration. Persons without previous college work may also be admitted to the six-quarter program in practical nursing and home management. Students may enter these programs only in the fall quarter. Other nursing curriculums for which previous college work is required are also offered.

Mortuary Science

This department admits any high school graduate in the top 10 per cent of his class or those applicants who have a college aptitude rating of 35 or higher. The completion of basic units in high school science is recommended. Consideration will also be given otherwise well-qualified applicants who do not fully meet the stated admission requirements. Prospective applicants are urged to request individual counseling regarding opportunities in this field.

Admission by Examination

If you are a Minnesota high school graduate, or a non-high school graduate at least 19 years of age, you are eligible to apply for admission by examination. The Office of Admissions and Records will send you information about procedure. The tests are of the "objective" type that measure aptitude for college work rather than specific knowledge or preparation.

Some non-high school graduates younger than 19 may also be admitted, under a plan approved by the University, the Minnesota Council of School Executives, and the Minnesota High School Principals' Association. They must show that they are sufficiently mature to promise ready adjustment to university life and work, and they must present outstanding high school records. Their procedure: application to the Office of Admissions and Records in the usual way, together with letter of recommendation from school principal and parents; then 2 or 3 days on campus for counseling and testing, **more than a month in advance of the quarter they expect to enter.**

Admission with Advanced Standing

If you have finished a year or more of work at an accredited college or university you may, if admitted, enter with "advanced standing"—that is, with credit for appropriate courses satisfactorily completed.

Applicants who have completed any college study, satisfactorily or unsatisfactorily, must file official transcripts from **every school attended**, to cover all such work taken. 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.**

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.

Credit by examination is possible. For information, apply to your college office.

Admission as an Adult Special

Men and women who want individual courses or groups of courses to meet special personal needs may be admitted to the individual colleges as "adult special" students. Usually these students are 24 years of age or older, and of mature experience. They are not candidates for degrees, but subsequent admission to a degree program is possible on recommendation of the college. In such cases credit earned as an adult special will be applied when possible. 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 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. There are no nonresident restrictions. 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 beginning their University attendance during the Summer Session who wish to continue in the regular academic year or who seek degrees here must apply for admission and submit credentials in the usual way.

Transfer from One College to Another

A student who wants to change at the University from one college, school, or branch 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.

Admission to Professional Schools and Colleges

The professional schools or colleges require from 3 quarters to 3 years of "preprofessional" education before accepting students. You may take this pre-professional 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 Branch or as follows:

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

Dentistry—2 years in the Arts College.

Education—2 years in the Arts College, or in Agriculture or Home Economics, or in General College; or graduation from an accredited school of nursing.

Law—2 years in the Arts College.

Medical—3 years in the Arts College.

Medical Technology—2 years in the Arts College.

Nursing—6 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 of Nonresidents of Minnesota

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. College Board test scores may be submitted. Since individual consideration by the faculty concerned is usually involved, any nonresident should apply promptly, i.e., more than a month in advance of the desired entrance date. See also under Fees.

Admission to the Graduate School

If you have a Bachelor's degree from a recognized institution you may apply for admission to the Graduate School. Your acceptance as an advanced degree candidate will depend on your undergraduate scholastic record, which must be high, and on approval by the department in which you want to take your major work and by the dean.

Inquiries and applications should be sent to the dean of the Graduate School. You should send with an application 2 official transcripts of your undergraduate work, and 1 of any graduate work you have taken. Applications that arrive less than 4 weeks before the beginning of a quarter may not be approved in time for admission in that quarter.

Orientation and Registration

Each quarter the University helps the new students to get acquainted with the campus through informal "orientation programs." Through them you meet other students, new and old; you learn your way around the campus, and identify buildings and offices of special importance to you. You are introduced to campus life and activities, you meet with faculty members, and you are helped with registration procedures. A notice giving dates of orientation programs is sent to each new student soon after his admission. See the University Calendar for over-all dates for orientation and registration.

Courses and Degrees

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 (not correspondence courses) in the Twin Cities and Duluth 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 Science, Literature, and the Arts

If one of your goals in coming to the University is to strengthen your understanding of the world in which you live and work and the people with whom you associate—to seek what is usually called a liberal education—you will probably register in the Arts College.

It is here that you can achieve a general education in the humanities, natural sciences, and the social sciences, in addition to concentrating in 1 of the 30 departmental or interdepartmental programs. Here also you can explore many fields of human endeavor to help in choosing a vocation.

At the end of 4 years you may earn a B.A. degree. A 2-year A.L.A. degree is also available.

The Bachelor of Arts Degree—This is a 4-year program giving knowledge in the major areas of thought and an opportunity to specialize in one of the following fields:

American studies, anthropology, architecture, art, astronomy, bacteriology, biostatistics, botany, chemistry, classics, economics, English, geography, geology and mineralogy, 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, presocial work, sociology, speech and theater arts, pretheology, zoology.

If you do not find a major suitable to your interests and abilities in one of these departments, you may wish to plan an interdepartmental program tailor-made to your particular objective. This permits concentration in terms of a special interest—which may cross departmental lines—rather than in terms of a single department.

Preparation for entering the Graduate School in the above fields of study and also in social work and library training is also offered.

In addition, the Arts College co-operates with other colleges to offer five combined arts and professional courses:

Arts and Medicine—An 8-year course leads to B.A. and M.D. degrees.

Arts and Dentistry—A 7-year course leads to B.A. and D.D.S. degrees.

Arts and Law—A 7-year course leads to B.A. and LL.B. degrees.

Arts and Architecture—A 6-year course leads to B.A. and B.Arch. degrees.

Arts and Dental Hygiene—A course of approximately 4 years leads to B.A. and G.D.H. (graduate dental hygienist) degrees.

Preprofessional Training—A basic liberal education is required in preparation for work in a number of the University's professional schools—1, 2, or 3 years of Arts College work. Professional curriculums requiring this kind of preparation are those in the Medical School, Law School, School of Dentistry, School of Business Administration, School of Nursing, College of Pharmacy, and some of those in the College of Education. Specialized courses in nursing education, public health nursing, medical technology, and occupational and physical therapy also require preparatory work.

The Two-Year Associate in Liberal Arts Degree—This recognition of the completion of 2 years of satisfactory work in the Arts College is intended for 2 groups of students:

Those who plan to attend the University for 2 years only.

Those who, though working for a Bachelor's degree, want formal recognition of the completion of the 2 years of work.

To earn this degree, you must ordinarily earn 90 credits in 6 or 7 quarters of residence, and you must meet specific requirements in English and in 2 of these 3 fields: foreign languages, social sciences, and natural sciences. Within these limits, you have broad choice from among hundreds of freshman and sophomore Arts College courses, and you and your adviser design your program to suit your own individual interests.

General College

General education, in which the General College has for years been a leader, aims essentially to produce well-rounded individuals—men and women who can understand the intricate patterns of the modern world, who can meet daily problems with a sound sense of values, 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, commercial art, dental assistant, general office work, practical nursing, 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 the same advanced standing as if you had done the same amount and type of work in the College of Science, Literature, and the Arts.

The General College system of counseling and guidance for students is one of the major factors in the success of its general education program. Through this system, including carefully designed testing 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 instructors are always available to help students with problems in any way affecting their adjustment to university life.

Institute of Technology

The Institute of Technology offers in its 5 colleges and schools courses leading to the Bachelor's degree in the 3 fundamental disciplines of chemistry, mathematics, and physics and in 9 engineering specialties based on 1 or more of these fundamental fields, and in architecture. With the exception of chemistry, which is a 4-year course, all courses are of 5 years' duration.

College of Engineering—Aeronautical, agricultural, civil, electrical, and mechanical engineering with industrial options in electrical and mechanical engineering; mathematics.

School of Architecture—Architecture.

School of Chemistry—Chemical engineering, chemistry.

School of Mines and Metallurgy—Geological engineering (mining or petroleum), geophysics, metallurgy, mineral engineering (mining or petroleum).

School of Physics—Physics.

A Co-operative Work-Study Curriculum in mechanical engineering providing practical work experience in conjunction with regular class and laboratory work is available through co-operation with nearby industrial concerns. Students in the work-study program are on a 12-month basis and spend alternate quarters in industry, starting with the summer or fall quarter following the second year. While on the work assignments they are paid at regular rates by the companies. Application should be filed by February 1 of the second year at the Mechanical Engineering office. Selection will be based on scholastic ability, aptitude for industrial work, and financial need.

For students who attain the necessary standards of performance and who desire to proceed to graduate work, a bachelor of science degree may be obtained by petition at the end of 4 years in any of these courses except architecture.

There are possibilities for combination degree links between the engineering fields and other professional schools. A 4-year combination of courses in the College of Engineering and the School of Business Administration leads to a business administration degree.

Duluth Branch

Four degrees are available at the Duluth Branch—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 or in curriculum and instruction. 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 Bachelor's degree offer majors in art, biology, botany, business and economics, chemistry, elementary education, English, French, geography, geology, general science, German, history, home economics, industrial education, mathematics, music, nursery-kindergarten-primary education, health and physical education for men or for women, physics, political science, psychology, social science, sociology, speech, speech correction, and zoology. Minors in general science, philosophy, and recreation 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, physical therapy, pharmacy, social work, theology, and veterinary medicine.

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:

Agricultural—Technical agriculture (including a pretheological "major" in agriculture), agricultural education, agricultural business administration, agricultural journalism, dairy technology, food technology, fishery and wildlife management, landscaping, science specialization.

Forestry—Forest management, forestry-wildlife management, building products merchandising and light construction, wood technology.

Home Economics—General home economics, dietetics, home economics education (teaching and extension), home economics in business (foods, textiles and clothing, related art), institution management (cafeteria, tearoom, restaurant), journalism-home economics, home economics and nursery school education, preparation for research in (a) experimental foods, (b) nutrition, (c) textiles and clothing.

Students anticipating admission to professional study in the School 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.

Two 5-year combination curriculums lead to special Bachelor's degrees. In co-operation with the Institute of Technology, the College offers a professional agricultural engineering degree. In co-operation with the Institute of Technology and the Business School, it offers a degree in agricultural engineering and business administration.

College of Education

If your interest is in school work, the College of Education offers you a 4-year program leading to a B.S. degree and a Minnesota teaching certificate.

The variety of courses is virtually as wide as the combined offerings of many of the University's divisions. You can prepare for teaching in kindergarten and primary grades, in elementary, junior high, or high school grades. You can specialize in academic subjects such as English, Latin, French, Spanish, German, social studies, mathematics, science, or speech . . . or in special fields such as agriculture, art, business education, home economics, industrial arts, physical education and coaching, health and hygiene, music, or teaching of handicapped children. Some courses of study give you not a one-subject major but a broad field such as natural science or the social studies.

There are also 4- and 5-year programs for teachers of speech correction and for those interested in public health work, public health nursing, nursing education, and recreational leadership.

Master of education degrees, involving a fifth year of graduate study, are offered in physical education for men, physical education for women, art education, music education, nursing education, industrial education, home economics education, agricultural education, early childhood education, elementary education, rural education, English education, natural sciences, and social studies.

School of Dentistry

Program for Dental Hygienists—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 Science, Literature, and the 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 Senior College of the College of Science, Literature, and the Arts. They may then qualify for the bachelor of arts (B.A.) degree provided that they fulfill the Senior College requirements.

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.

School of Nursing

Practical Nursing—A certificate in practical nursing is granted students who finish the 4-quarter practical nursing program. This program prepares students

for practical nursing service in general hospitals, public health agencies, homes, and hospitals for the chronically ill and aged. Practical nursing students may earn the General College associate in arts degree by completing 45 credits (1 academic year) in the General College either before or after the certificate program.

Practical Nursing and Home Management—For workers in rural health, the School provides a 6-quarter program in co-operation with the School of Agriculture. Those who finish it are prepared to give nonprofessional nursing service and to assist with the management of homes. Students must start this program in the fall quarter. Admission requirements are those for the School of Agriculture.

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.

Programs Requiring Previous College Work

This section of the bulletin tells about University degree courses 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.

Medical School

Medical Course—This course which leads to the doctor of medicine (M.D.) degree 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 premedical college work and 4 years in the Medical School.

Although 3 years of work in an "arts college" constitutes the minimum required for admission to the Medical School, the Admissions Committee gives preference to candidates with the best backgrounds of general education. A thorough general education is of great importance to a physician, and 4 years of preliminary work—with a B.A. or B.S.—are considered preferable to 3. The *Bulletin of the Medical School* gives details of entrance requirements and suggests appropriate elective courses.

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 practical experience in hematology, bacteriology, serology, electrocardiography, basal metabolism tests, blood banking procedures, tissue preparation, and chemical analyses of blood and other body fluids.

Physical Therapy Course—This course, 4 years leading to a B.S. degree, prepares graduates for work in all physical therapy techniques in hospitals, rehabilitation centers, clinics, schools, and other specialized institutions, under physicians' directions. After 2 years of Arts College work, the student spends 6 quarters in physical therapy in theory and practical application of physical procedures. The last quarter is 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 therapeutic activities and recreation to patients in various types of hospitals and institutions. They earn a B.S. degree after 2 years of Arts College work, 4 quarters in occupational therapy courses, and 10 months during the last year in practical clinical training in hospitals and rehabilitation centers.

Continuation Courses—The continuation course program gives practicing physicians and others 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 Continuation Medical Education. They cover many fields such as hospital administration, medical technology, dietetics, and nursing education and—for practicing physicians—psychiatry, neurology, pediatrics, radiology, obstetrics and gynecology, internal medicine, surgery, dermatology, and others.

School of Nursing

Basic Professional Curriculums—Sixteen quarters of college work are necessary to earn the basic degree, B.S. The first 6 quarters (2 academic years) may be taken in the Arts College or at any approved college offering the necessary biological sciences, social studies, and other general education courses. Ten quarters spent in the School of Nursing are devoted to the required professional major. Basic professional nursing is open to college graduates who have had satisfactory work in social and biological sciences, preferably sociology, psychology, chemistry, and zoology.

Bachelor of Science in Nursing Education—The B.S. degree program with a major in nursing education is offered jointly by the School of Nursing and the College of Education (the student registers in Education). A minor may be taken in ward administration, child development or a clinical field of nursing: medical, obstetric, operating room, pediatric, psychiatric, rural, surgical, or tuberculosis. Students who lack certain basic nursing content may arrange to take it during the Summer Session.

Bachelor of Science in Nursing Administration—This program prepares graduate professional nurses for positions such as team leader, head nurse, or administrative supervisor. A minor in a clinical area such as medical, obstetric, operating room, pediatric, psychiatric, rural, surgical, or tuberculosis nursing is required. Students who lack basic nursing content may arrange to take supplementary experience.

Master's Program in Nursing Education—This program is open to qualified candidates who have completed an undergraduate major in nursing education or who have completed an accredited program leading to a Bachelor's or a Master's degree with a major in professional nursing. This program leads to a Master's degree in education (M.Ed.).

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 in nursing administration such as those of directors, assistant directors, and supervisors. This program is open to qualified professional nurses who have completed an accredited baccalaureate program. Persons who do not meet the usual requirements for admission to the program may, on special consideration, be admitted to selected course work.

School of Public Health

Advanced courses for specialists in a number of public health fields lead to Master's or Bachelor's degrees. Master's degrees can be earned in the following fields:

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.

Environmental Sanitation—A year or more of graduate work in sanitation, open to graduate engineers with suitable experience who want to go into public health programs, leads to the M.P.H. degree. Suitably qualified sanitarians may also be admitted.

Public Health Nursing—The M.P.H. degree may be earned by qualified public health nurses who have completed the necessary undergraduate work and have had 3 years or more of properly supervised field experience in public health nursing.

The B.S. degree with a major in public health nursing is open to properly qualified graduate nurses. A certificate in public health nursing may be earned by graduate nurses who have a Bachelor's degree but lack accredited preparation in public health 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 at least 3 years of experience in public health.

Hospital Administration—A 2-year program leads college graduates with adequate training in economics, medicine, or nursing to the degree, master of hospital administration. One academic year is spent in formal instruction, and a full calendar year in a hospital as an administrative resident.

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.

School of Business Administration

Admission to the School is earned by satisfactory completion of the 2-year prebusiness program. This includes certain specified courses and elective courses in the several specialized fields of study. There is, however, ample provision for general electives. The prebusiness work may be taken in a liberal arts college or in certain technical schools. At the University of Minnesota, it may be taken in the College of Science, Literature, and the Arts, the Institute of Technology, or the Institute of Agriculture.

On this broad background the School offers 2 years of professional training leading to the B.B.A. (bachelor of business administration) degree. You may choose the general business program, which affords the broadest opportunity for electives, or one of the following special fields: accounting, advertising, agricultural business, factory management, finance, foreign trade, industrial administration, industrial relations, insurance, merchandising and selling, office management, retail store training, secretarial and supervisory training, or traffic and transportation. Opportunities for internship experience are available in a few of the special areas.

Preparation for positions as economic analysts or statisticians—in government service or private industry—is offered in two special sequences that lead to the degree of B.S. in economics.

If you are seeking professional training in another field, in addition to business administration, certain combined programs are available. These combinations require additional time but lead to two degrees. Such combination programs have been arranged with the Law School, the Institute of Technology, and the College of Pharmacy.

School of Dentistry

Dentistry Program—Two years of pre dental 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 in all pre dental courses, and must include 1 year of English, 1 year of zoology, 1 year of physics, 1 year of inorganic chemistry with qualitative analysis, and a complete organic chemistry course of at least ½ year. 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, 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

University Calendar

Academic Year, 1957-58

Fall Quarter

August 5-September 27

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.

September 2 Monday
September 19 Thursday

Labor Day, holiday.
Fall quarter fees due for students registered through September 13

September 20-28

New Students' Camps, September 20-22; New Students' Parents' Day, September 22; Welcome Week, September 22-28. Details announced in instructions issued at orientation.

September 27 Friday

Last day for registration and payment of fees for the undergraduate colleges

September 30 Monday
October 3 Thursday

Fall quarter classes begin 8:30 a.m.
Opening convocation, 11:30 a.m., IV hour classes excused (except Duluth)

October 4 Friday

Last day for registration and payment of fees for the Graduate School and for teachers in service

October 12 Saturday

Columbus Day, holiday

October 26 Saturday

Homecoming Day (Duluth)

November 2 Saturday

Homecoming Day (Minneapolis)

November 7 Thursday

Senate meeting, 3:30 p.m.

November 11 Monday

Veterans' Day, holiday

November 23 Saturday

Dads Football Game

November 28 Thursday

Thanksgiving Day, holiday

November 29-30 Friday, Saturday

Classes excused (except Medical and Veterinary)

December 12 Thursday

Senate meeting, 3:30 p.m.

December 13, 14 and 16-19

Final examination period

December 19 Thursday

Commencement, 8 p.m.

December 21 Saturday

Fall quarter closes

Winter Quarter

December 25 Wednesday

Christmas Day, holiday

December 26 Thursday

Winter quarter fees due for students in residence fall quarter

January 1 Wednesday

New Year's Day, holiday

January 2, 3 Thursday, Friday

Orientation program; registration and payment of fees for new students in all undergraduate colleges

January 6 Monday

Winter classes begin 8:30 a.m.

January 10 Friday

Last day for registration and payment of fees for the Graduate School and teachers in service

February 6 Thursday

Senate meeting, 3:30 p.m.

February 12 Wednesday

Lincoln's Birthday, holiday

February 22 Saturday

Washington's Birthday, holiday

February 24-March 2

University of Minnesota Week

February 27 Thursday

Charter Day Convocation, 11:30 a.m., IV hour classes excused

March 13 Thursday

Senate meeting, 3:30 p.m.

March 14, 15 and 17-20

Final examination period

March 20 Thursday

Spring quarter fees due for students in residence winter quarter in undergraduate colleges. Commencement, 8 p.m.

March 22 Saturday

Winter quarter closes

Spring Quarter

March	27-28	Thursday, Friday	Orientation program; registration and payment of fees for new students in all undergraduate colleges
March	31	Monday	Spring quarter classes begin 8:30 a.m.
April	3	Thursday	Last day for registration and payment of fees for the Graduate School, and for teachers in service
April	4	Friday	Good Friday, holiday
May	1	Thursday	Senate meeting, 3:30 p.m.
May	22	Thursday	Cap and Gown Day Convocation (Minneapolis), 11:30 a.m., IV hour classes excused
May	30	Friday	Memorial Day, holiday
June	5	Thursday	Cap and Gown Day Convocation (Duluth), 11 a.m., IV hour classes excused; Senate meeting 3:30 p.m.
June 7 and 9-13			Final examination period
June	8	Sunday	Baccalaureate service, 3 p.m.
June	13	Friday	Commencement (Duluth), 8 p.m.
June	14	Saturday	Spring quarter closes; Commencement (Minneapolis), 8 p.m.

General Extension División, 1957-58

Fall Semester

September	16	Monday	Registration for fall semester begins
September	28	Saturday	Last day for registration, fall semester
September	30	Monday	Fall semester classes begin
November	28	Thursday	Thanksgiving Day, holiday
December	21	Saturday	Christmas recess begins
January	6	Monday	Classes resume
February	3	Monday	Spring semester registration begins
February	8	Saturday	Fall semester classes close

Spring Semester

February	15	Saturday	Spring semester registration closes
February	17	Monday	Spring semester classes begin
February	22	Saturday	Washington's Birthday, holiday
May	30	Friday	Memorial Day, holiday
June	14	Saturday	Spring semester classes close

Summer Session

1957

First Term

1958

June	17	Orientation and registration for first term	June	16
June	18	First term classes begin 8 a.m.; fees due	June	17
July	4	Independence Day, holiday	July	4
July	18	Commencement, 8 p.m.	July	17
July	20	First term closes	July	19

Second Term

July	22	Registration and payment of fees for second term	July	21
July	23	Second term classes begin 8 a.m.	July	22
August	22	Commencement 8 p.m.	August	21
August	24	Second term closes	August	23

Late registration requires college approval. See fees for late registration or late payment of fees, *Bulletin of General Information* and *Bulletin of the Summer Session*.

St. Paul Campus classes begin at 8 a.m. during the academic year and at 7:30 a.m. in the summer. Duluth lower campus classes begin at 8 a.m.

Correspondence study courses may be started at any time.

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 fall quarter and 1 week preceding the opening of classes for the winter and spring quarters.

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, Minneapolis 14.

Law School

The Law School offers two degrees: the professional bachelor of laws (LL.B.) and the nonprofessional bachelor of science in law (B.S.L.). Only the LL.B. qualifies one for bar examinations and admission to practice. The B.S.L. is designed for those who want a fairly extensive knowledge of law for use in other fields, rather than for law practice.

The School provides four programs leading to an LL.B. degree:

1. A student who enters with a B.A. degree or its equivalent must complete 3 years plus 15 quarter credits of law, usually taken in 1 summer after the first or second year.
2. A student who enters after 3 years in Science, Literature, and the Arts will receive a B.A. degree at the end of the first year of law, provided his last year of S.L.A. was in the University and S.L.A. Senior College requirements are met. He then must complete 3 more years in the Law School for the LL.B., though 21 credits in the last 2 years can be in advanced work in other departments. The student with 3 years of prelaw work who does not meet the S.L.A. requirements for a B.A. degree is granted a B.S.L. degree after 2 years in Law School.
3. A student who enters after 2 years in Science, Literature, and the Arts will receive a B.S.L. degree at the end of the first 2 years of law. He then must complete 2 more years in the Law School for the LL.B., though 21 credits in the last 2 years may be spent in advanced work in other departments.
4. A student may take a combined 7-year course in business administration and law, leading to the B.B.A. and LL.B. degrees. This requires 2 years of prelaw and prebusiness, followed by a total of 1½ years in the School of Business Administration and 3½ years in the Law School. A somewhat similar combined course is available for engineering and law.

Details with respect to each of these programs may be found in the *Bulletin of the Law School*. This bulletin should also be consulted concerning the factors that should be weighed in deciding whether to start the study of law after only 2 years of prelaw college training.

Admission requirements will also be found in the bulletin. Attention is directed to two items:

1. The 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.
2. The Law School is now considering whether to increase the minimum prelaw requirement to 3 years, but such an increase, if made, would not be effective before the 1958-59 school year.

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 actions, and therapeutic potentialities.

The work of the prepharmacy year may be taken at any accredited institution. If a student wishes to spend still another year at an accredited school before coming to the University of Minnesota and meets the scholastic require-

ments 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, zoology, botany, organic chemistry, general economics, and accounting, equivalent to those described in the *Pharmacy* bulletin.

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 Veterinary Medicine

Training in veterinary medicine requires a minimum of 2 years of college level study in preveterinary curriculum as prescribed in the *Bulletin of the College of Agriculture, Forestry, and Home Economics*, and the *School of Veterinary Medicine*. Upon completion of the preveterinary 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.).

A minimum of 6 months of practical experience on a farm or with livestock is recommended before entering the professional curriculum.

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.

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.

Information about University College is available at the University College Office, 225 Johnston Hall.

Graduate School

Students who have Bachelor's degrees or their equivalents may apply for admission to graduate work and undertake work for advanced degrees at two levels: the degrees master of arts, master of science, master of business administration, master of fine arts, master of forestry, or master of social work; or the degree doctor of philosophy. In the field of educational administration, the Graduate School offers beyond the Master's degree the specialist in education certificate.

Graduate programs leading to the master of arts degree with majors in education and in curriculum and instruction have been authorized at the Duluth

Branch. All graduate students taking these programs are regularly enrolled in the Graduate School.

Inquiries about graduate work should go to the dean of the Graduate School, 316 Johnston Hall.

Other Study Opportunities in the University

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 two 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, and Duluth and at the Forestry and Biological Station in Itasca State Park.

General Extension Division

Extension classes in the evenings—and some in late afternoons—are available in the Twin Cities, Duluth, and some other communities where there is need for them. Usually an evening course meets once a week for 17 weeks, in a 2-hour session. Correspondence courses are open to any student, no matter where he lives, if he meets qualifications. Evening classes and correspondence courses cover many of the regular University subjects, as well as special offerings designed to meet special needs or interests of groups in the area served by the University. All these study opportunities are open to anybody who, through education, experience, or maturity, is able to profit from them; there are no general admission requirements.

The student can use either evening or correspondence courses to earn credits toward a degree, provided he has the necessary prerequisites and is qualified for admission to the University. Evening classes in the Twin Cities and Duluth are classed as residence work; correspondence courses are not. Specific limitations as to the amount of degree credit granted for correspondence work vary with the degrees offered by the University.

Short courses, lasting from a few days to some weeks, are offered—mostly at an advanced level—for men and women in professional, business, and industrial fields. Most of these are held in the Center for Continuation Study, a special self-contained unit, with living and teaching facilities, on the Minneapolis Campus.

The Division also provides other educational services. Headquarters are in Nicholson Hall on the Minneapolis Campus.

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 course leading toward degrees, if they are United States citizens, and if they meet physical and other qualifications. The general re-

quirements 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 Branch campus.

Special Services for Students

University Health Service

Student health 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 adjacent to the University Hospitals.

On the St. Paul Campus, general medical and infirmary-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.

At the Duluth Branch the Health Service is located in Washburn Hall. Services include consultation, physical examination, care of illnesses and injuries, immunizations, laboratory tests, physiotherapy, and some medication.

Incidental Fee Benefits, Minneapolis and St. Paul Campuses

Medical care and health counseling is provided for all students. No charge is made to students for medical examinations, for general care, or for consultations with a specialist on physical or mental health problems. 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 \$30 per quarter. Charges are made on a cost basis or less for drugs, glasses, and dentistry. Students with hospital insurance are entitled to 4 free days of hospitalization in the Health Service per quarter including all extras (except maternity, private duty nursing or surgery) and \$7 per day toward the hospital bill after the 4th day.

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 at 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 of the Health Service except 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 University Health Service.

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

Counseling Aids

The University has many personnel services to 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, Minneapolis Campus, or 215 Coffey Hall, St. Paul Campus.

Duluth Branch students should consult the Office of Student Personnel Services, 130 Kirby Student Center, on the Duluth Campus.

Student Counseling Bureau

You may see a counselor in the Student Counseling Bureau, 101 Eddy Hall, about vocations you are considering, courses you may wish to take, methods of reading and studying effectively, or personal problems you may have. Nearly one-third of our University students have talked at some time to these counselors about marriage and family relations, dating, engagements, relations with parents, choice of vocation, and similar matters. Special services are provided for physically handicapped students.

A problem may make itself felt in any one of several ways. Worrying about the lack of money, for example, may show itself by 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 the Bureau's counselors.

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 colleges in the University, courses available to you, and various University facilities 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, scores of student groups—professional, social and cultural, religious and recreational, athletic and oratorical, everything from dancing clubs to the All-University Congress, a student government group—have been organized. The Student Activities Bureau, located in 106 TSMa, 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.

Foreign Student Adviser

Students from other countries are urged to call at 302 Eddy Hall, the office of the Foreign Student Adviser. Staff members in this office aid foreign students in meeting 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 Coordinator

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 Coordinator of Students' Religious Activities, 211 Eddy Hall, serves as a center where information may be secured concerning the 27 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 handicapping 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 5B Main 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.

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.

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 Administration Building, Minneapolis Campus; or 125 Kirby Student Center on the Duluth 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 Certification for Program of Education, which is endorsed to the University of Minnesota, you need only present the certificate at the Veterans Account Window (No. 18) on the first floor of the Administration Building (or at 220 Coffey Hall, St. Paul Campus or 125 Kirby Student Center, Duluth 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 the sixth day of each calendar month. Public Law 550 and 634 students at the Duluth Branch should report to 125 Kirby Student Center.

Public Law 346, 16, or 894 Veterans

If you are a veteran registering under Public Law 346, 16, or 894, you should make 102 Administration Building your first contact with the University. This office provides assistance to World War II veterans and disabled veterans of both World War II and 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 any of these laws at the Duluth Branch should report to the Office of Student Personnel Services.

Selective Service Certification

Because its men will be more useful citizens when they have completed their education, the nation's Selective Service policy calls for encouraging qualified students to stay in school as long as they can. If you place high enough in your class each succeeding year (or make a high enough score on the Selective Service College Qualification Test), you can 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 Administration Building. In advance of coming to the campus, you may obtain on written request a folder of information on Selective Service as it will apply to you here.

Students on the Duluth Campus should consult the Office of Student Personnel 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 made available by the University's system of libraries. With nearly two million volumes, the collections rank seventh in size among the 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 general library on the Minneapolis Campus well supplied with publications on most subjects, with 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 Junior College level. The patrons of this library are also encouraged to use the general library, especially when they need more specialized sources of information, such as periodical literature, for the preparation of term papers and reports.

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.

Facilities at the Duluth Branch include a separate central library on the upper campus.

Departmental Libraries

The library needs of students in several of the more specialized scientific and professional fields are met through various departmental libraries housed outside of the general libraries. Among these are such separate libraries as Engineering, Law, Chemistry, Art, Journalism, Geology, Music, and Pharmacy. The Biomedical Library is on the second floor of the Minneapolis Campus general library building.

Cultural and Recreational Opportunities

Convocations

Most Thursday mornings, at 11:30 o'clock, the University holds its convocation program 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 Duluth Campus, a carefully selected program of convocations is presented each quarter. Professional speakers and talent of high caliber appear. These convocations are generally scheduled at 11:00 a.m. on Tuesday. Several are presented each quarter.

University Gallery

The Gallery offers a continuously changing program of 3 or more main exhibitions, approximately every 3 weeks. Those students or faculty interested can be put on the mailing list. The main gallery is on the fourth floor of Northrop Memorial Auditorium. Supplementary exhibition space is also on the third floor. The East corridors, second and third floors, are reserved for class study material; the third floor West and room 316 comprises the prints section for the study and selection of old masters and contemporary prints.

Two loan services are operated from room 315, one a loan to staff members of a selection of about a thousand framed original works of art from the University's collection, available for use in offices, lounges, and classrooms. This service is operated by appointment. The other is a student loan service, offering framed reproductions of art works and original prints for use in student quarters and homes.

Photographs, color reproductions, and materials from the permanent collections are available for study, reference, and loan.

On the Duluth Campus, 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. The present gallery at 2531 East Seventh Street is being replaced by a new building on the upper campus.

Music

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

UNIVERSITY BANDS consist 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, newly formed in the fall of 1955, 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.

ST. PAUL CAMPUS CHOIR 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 comic operas in May of each year, directed and performed entirely by students.

The Music Department 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, 105 Northrop Auditorium.

The Minneapolis Symphony Orchestra, with Antal Dorati 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 four 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.

Theater

Each year the University Theater presents a diversified program of living drama. 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 Theater sponsors an Arena series in Shevlin Hall, a Young People's series, a Foreign Language series, a Studio series of experimental and student-directed plays, and innumerable one-act plays throughout the year. In conjunction with the Department of Concerts and Lectures it operates two touring companies, and in co-operation with the Department of Music it presents operas. With such an extensive program, students interested in the theater find ample opportunity to participate both as technicians and actors.

The University Theatre at Duluth presents an outstanding play each quarter and additional stage performances during the year.

Museums

"Habitat exhibits," nearly a hundred displays of Minnesota animal life mounted in typical environment, are featured in the ivy-covered Museum of Natural History on the Minneapolis Campus. These exhibits are open to the public, without charge. In addition, many thousands of specimens of regional mammal and bird life are available here for study by students and qualified visitors.

A number of smaller specialized exhibits—such as rare books in the University Library and scientific and technical collections in other departments—are maintained for use and study by University classes and the public.

Physical Education, Athletics, and Sports

Elaborate opportunities for sports and exercise are open to both men and women students. Though the intercollegiate athletics program for men is best known, nonvarsity sports attract several times as many participants each year.

For women, instruction in a wide variety of seasonal sports, dance, body conditioning, as well as recreational activities, centers in the Norris Gymnasium for Women. All instruction is under expert leadership. The Women's Athletic Association is comprised of organized activity programs and honorary clubs in aquatics, modern dance, tennis, badminton, riding, tumbling, and golf; these activities are under joint faculty and student leadership and are open to all women in the University. The facilities of Norris Gymnasium for Women which are 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.

For men students a broad plan of organized intramural sports and other leisure time activities is supplemented by extensive facilities for recreation. Cooke Hall, the Memorial Stadium, the Field House, and the Williams Arena provide abundant opportunity for gymnastics, handball and squash, boxing and wrestling, swimming, skating, and other recreational activities. Outdoor playing fields and tennis courts, the indoor ice skating rink, and the two golf courses near the St. Paul Campus are open to both men and women.

In addition to an extensive program in health and physical education for men and women, ranging from an outstanding intramural schedule to many special interest clubs, the Duluth Campus enjoys intercollegiate athletic competition in the Minnesota Intercollegiate Athletic Conference. The Duluth Branch fields teams in football, basketball, swimming, hockey, track, golf, skiing, tennis, and wrestling.

General Social Programs

Students organize much of their social and extracurricular activity around the facilities of three Unions.

At the Coffman Memorial Union on the Minneapolis Campus, full-time program consultants aid Union student committees in planning and conducting a wide variety of recreational and social enterprises. For student groups, the Union has meeting and office rooms, general lounges, 2 ballrooms, a card room, restaurant and soda fountain facilities, an aircraft workshop, billiard and pool tables, and a 16-lane bowling alley.

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

Financial Aids

Student Loans

Should you need financial aid or advice, the Bureau of Student Loans and Scholarships, 201 Eddy 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 at the Duluth Branch should go to the Office of Student Personnel Services, 125 Kirby Student Center.

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. This fund is supported by gifts from alumni and friends of the University through the Greater University Fund. The scholarships, which range from \$200 to \$500, are awarded to applicants on the basis of scholarship, character, leadership, vocational and academic promise, and relative need. Applications should be made through Minnesota high school principals in January.

Veterans of World War I, or their direct blood descendants, are eligible for LaVerne Noyes scholarships. Applications must be submitted before September 1, December 1, and March 1 of each year.

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 Duluth Branch 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 Branch, Duluth 5.

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.

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 1.

Student Employment Bureau

If you need a job to help meet school expenses, the Student Employment Bureau, 153 TSF, will help you find part-time work either on or off campus. Apply in person at the Bureau after you have enrolled and know your class schedule. On the Duluth Campus, go to the Office of Student Personnel Services. 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 or in private rooming houses. All such students must live in University-approved residences, under substantially the same obligations.

Information concerning residence halls may be obtained from the director of women's residences at Comstock Hall, from each residence hall, from the director of Centennial Hall (for men), or from the Student Housing Bureau at 209 Eddy Hall. Application should be made early for accommodations in University residence halls. Final acceptance by the University is not necessary before applying. Cancellation may be made without penalty if the residence hall is notified immediately following nonacceptance by the University.

Information about private rooming houses may be obtained from the Student Housing Bureau.

Women's Residence Halls

Sanford Hall, Comstock Hall, and the Winchell Cottages provide room and board, counseling services, health supervision, and varied activity programs for women students.

Sanford Hall, for freshman, upperclass, and graduate women, is located on University Avenue S.E. near the main entrance to the campus.

Comstock is the hall for sophomore, junior, senior, and graduate women. It is situated along the Mississippi River close to the center of University life.

Winchell Cottages on University Avenue S.E. near Sanford Hall provide low-cost living for undergraduate and graduate women, in small comfortable units, where the women share in the work to cut expenses.

Men's Residence Halls

Pioneer and Centennial Halls provide room, board, and social and athletic programs for men students, as well as counseling services. Costs are held at a minimum. Many residents can earn part of their board and room by work in the halls.

St. Paul Campus

Brewster Hall is available for women throughout the school year.

Dining Hall Dormitory, which formerly housed college men, will be used this year for School of Agriculture men, due to the razing of Pendergast Hall. If there is sufficient demand during the spring quarter, Dining Hall Dormitory will be available to college men.

Dormitories on St. Paul Campus are open during the summer if there is sufficient demand. Meals for all dormitory residents are available at the Agricultural Cafeteria.

Duluth Campus

Accommodations are available for women on the first floor of Torrance Hall on the lower campus and in the new eight-resident dormitory units on the upper campus. The two upper floors of Torrance Hall are used to accommodate men students. Information may be obtained from the Office of Student Personnel Services at the Duluth Branch.

Housing for Married Students

University Village, midway between the Minneapolis and St. Paul campuses, and University Grove East, adjacent to the St. Paul Campus, have a limited number of housing units for student families. Minnesota resident veteran families with children receive priority. Thatcher Hall, for married graduate students only, is located at the edge of the St. Paul Campus. The demand for family housing is great and an early application is advisable. Applications for any of the three locations should be sent to 108A Westbrook Hall, Minneapolis Campus.

Vacancies in other apartments, housekeeping units, and sleeping rooms are reported to the Student Housing Bureau, where married students may get help with housing problems. Many 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.

Private Housing

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, whether undergraduate or graduate, must have approval of the Student Housing Bureau to live in an apartment.

If you select quarters not in residence already approved by the University, you must get the approval of the Student Housing Bureau director before occupying them. The Bureau recommends that in either case you sign a contract on a University form, and for one quarter at a time.

Whatever lease arrangement you make, housing regulations provide that you must give notice according to 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 until it has ended. 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, 114 TSMa.

Food Services and Restaurants

Minneapolis Campus

A number of restaurants and food services are 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 "commuters' 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 Agricultural Cafeteria provides full food service for students. Lunchroom and soda fountain facilities are available in the Union. Privately operated restaurants are also available near the campus.

Duluth Campus

The Kirby Student Center cafeteria provides complete food services, including regular meals, snacks, and picnic menus. Torrance Hall, on the lower campus, has a lunchroom for students.

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 \$1000 for three quarters except for dentistry, medicine, and veterinary medicine where expenses are about \$1500. Nonresidents should add up to \$345 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.

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.

ESTIMATED AVERAGE EXPENSES OF MINNESOTA RESIDENTS Fall, Winter, and Spring Quarters, 1957-58

College	Fees ¹	Books and Supplies ²	Room and Board ³	Total
Dentistry and Medicine	\$360	\$470	\$717	\$1547
Veterinary Medicine	315	425	717	1457
Mortuary Science	285	75	717	1077
Law, Medical Technology, Physical and Occupational Therapy	240	90	717	1047
Other schools and colleges	205	75	717	997

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

² Cost may vary. Includes \$400 for dental instruments and \$350 for microscope for medicine and veterinary medicine.

³ University Residence Hall rates for 1956-57 were from \$606 to \$717 for room and board.

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 only a few 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.

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.

TUITION FEE

School or College	Quarter Fee		Credit Hour Fee	
	Resident	Non-resident	Resident	Non-resident
Agriculture, Forestry, Home Economics; Business Administration; Dental Hygiene; Duluth Branch; Education; General College; Institute of Technology; Public Health; Science, Literature, Arts	\$ 51	\$140	\$4.25	\$11.75
Dentistry and Graduate Work; Medical School and Graduate Work	105	215	8.75	18.00
Graduate School, more than 6 credits	51	140	No credit hour fee provided	
6 credits or less, or thesis only	25.50	70		
Law and Graduate Work; Medical Technology; Physical and Occupational Therapy	65	155	5.50	13.00
Mortuary Science	80	155	6.75	13.00
Nursing, Basic and Practical	51	75	4.25	6.25
Nursing Administration	51	140	4.25	11.75
Other programs	65	155	5.50	13.00
Pharmacy and Graduate Work	56	155	4.75	13.00
University College	Tuition of college in which work is taken			
Veterinary Medicine and Graduate Work	90	205	7.50	17.25

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.

Incidental Fee

If you are registered for 6 or more credits in a quarter you pay the \$15 fee which entitles you to the privilege of the student unions, the University Health Service, the *Minnesota Daily*, and helps to support the All-University Student Congress. Students in the Institute of Technology pay 85 cents more a quarter and receive in addition the *Minnesota Technologist*. The incidental fee at the Duluth Branch is \$15 and includes similar services.

The incidental fee is required of all students in the Graduate School, except teachers in service taking less than 6 credits, Ph.D. candidates during their final quarter of registration, 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.

Matriculation Deposit

This deposit (\$5 in all divisions of the University except the Graduate School, where it is \$3) you pay at registration for your first quarter. It covers miscellaneous departmental charges, library fines, and like costs. If the deposit is used up before you leave the University, you pay an additional \$5 fee.

If charges against your fee do not use it up by the time you graduate or leave the University, the unused remainder will be refunded to you by mail.

This deposit is not required at the Duluth Branch.

Special Fees

Additional fees are charged for special services as follows:

Advanced Standing Examination Fee \$5.00
Such an examination may be taken only upon approval of the appropriate committee. (If it is taken within 6 weeks after entering the University, no fee.)

Course Fees

Civil Engineering Summer Camp, Modern Language Institute, Music Lessons, Physical Education, Public Health 169, 190. See *Class Schedule* 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 (Senior College), Business Administration, and Veterinary Medicine.		For rent of pianos, organs, and music practice rooms. Rates are given in the Class Schedule issued at registration.	
<i>Dentistry Examination Fee</i>	\$26.00	<i>Placement Service Fee</i> —required of degree candidates from:	
For examinations to determine advanced standing in Dentistry.		Duluth Branch	\$2.50
<i>Deposits</i>		Institute of Technology	2.50
Agricultural Biochemistry	\$ 5.00	College of Education (except Nursing Education majors)	5.50
Chemistry	10.00	<i>Privilege Fee</i> —for late registration or late payment of fees	
Pharmacy	5.00	Through third day of classes	\$2.00
Physiological Chemistry	5.00	Each additional day (to a \$5 maximum)	.50
To cover cost of materials and breakage.		Late change of registration	2.00
Unused portion is credited to students' matriculation deposit at end of course.		<i>Record Service Fee</i>	\$0.50
<i>Duplicate Diploma Fee</i>		This fee, deducted from students' matriculation deposits, provides three certified copies of student records. Each additional copy	50 cents.
To replace large diploma	\$7.50	<i>Special Examination Fee</i>	\$5.00
To replace small diploma	5.00	<i>Speech and Hearing Clinic Fees</i>	
<i>Graduation Fee</i> (including small diploma)		See Class Schedule issued at registration.	
Each degree	\$10.00	<i>Thesis Binding Fee</i>	
<i>Hospital Insurance Fee</i> (Duluth Branch)		Master's thesis	\$2.50
Per quarter	\$6.00	<i>Thesis Examination Fee</i>	
Required of all students taking 6 or more credits.		For professional engineer degree	\$15.00
<i>Large Diploma Fee</i>	\$5.00	<i>Thesis Publication 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.		Ph.D. thesis	\$25.00
<i>Microscope Rental Fee</i>			
Partial use, one quarter	\$3.00		
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.

Nonresident Students

Nonresident tuition fees will be charged students who have not had permanent homes in Minnesota for at least a calendar year. The completion of a year's stay in Minnesota does not in and of itself establish residence for University purposes and a person who moves to Minnesota coincident with attending school may not be able to demonstrate that he is acquiring residence.

The student from out of state who proposes to establish residence must assume the burden of proving conclusively that he has been a resident here the requisite time with the intention of making his permanent home in the state.

Although a student's classification may be changed whenever all necessary residence requirements are met, it is his responsibility to initiate action. 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 purposes 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:

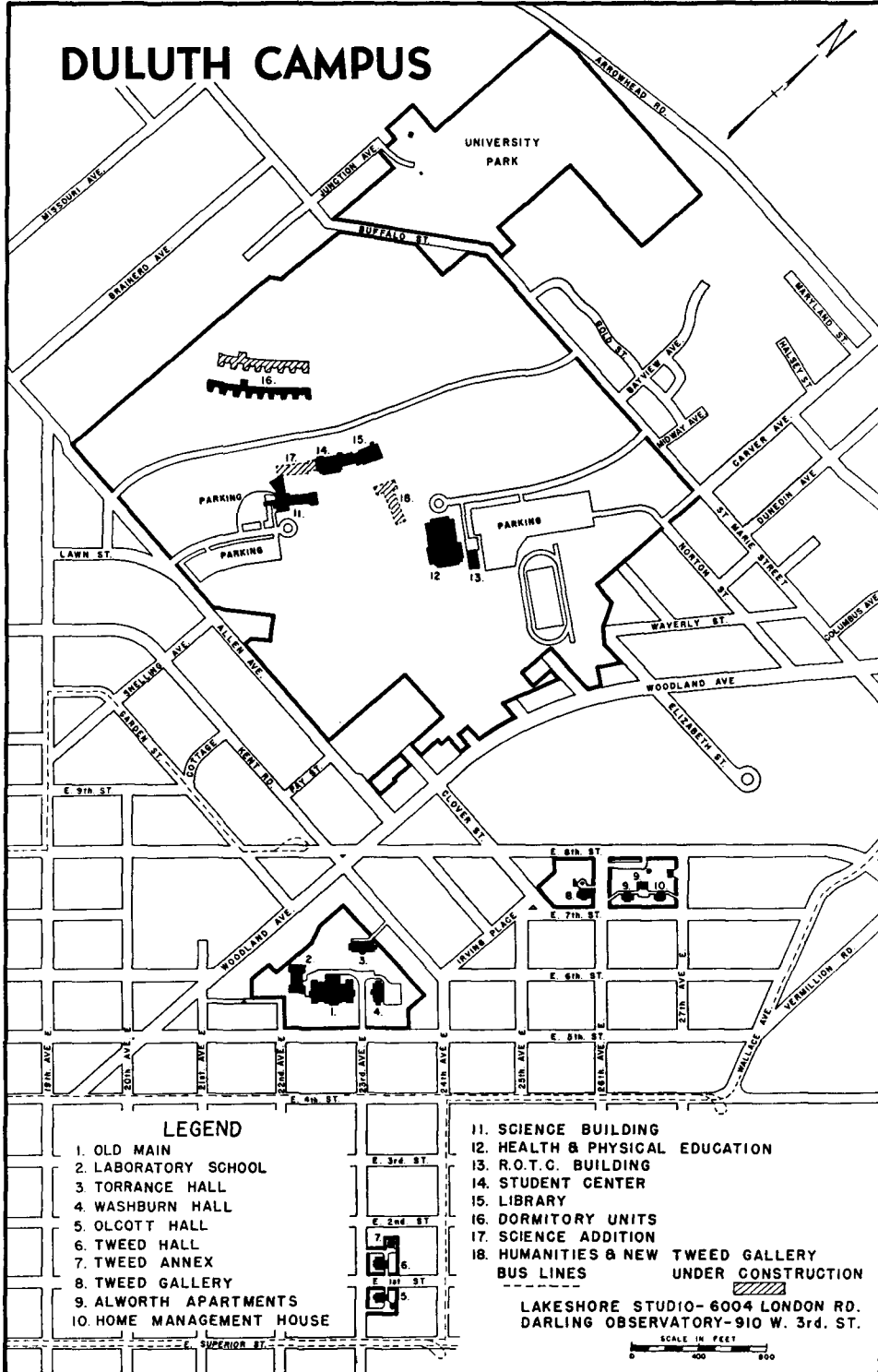
1. *Sports for Individuals and Small Groups*—Students, as individuals or as members of small groups, are invited and encouraged to engage in sports and games of their choice. A wide variety is offered: golf, swimming, handball, squash, tennis, archery, fencing, bowling, ice skating. Excellent facilities 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 try-out 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. Athletic department budgetmaking and control, and staff appointments, are handled directly upon recommendation to the president by the director of physical education and 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

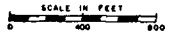


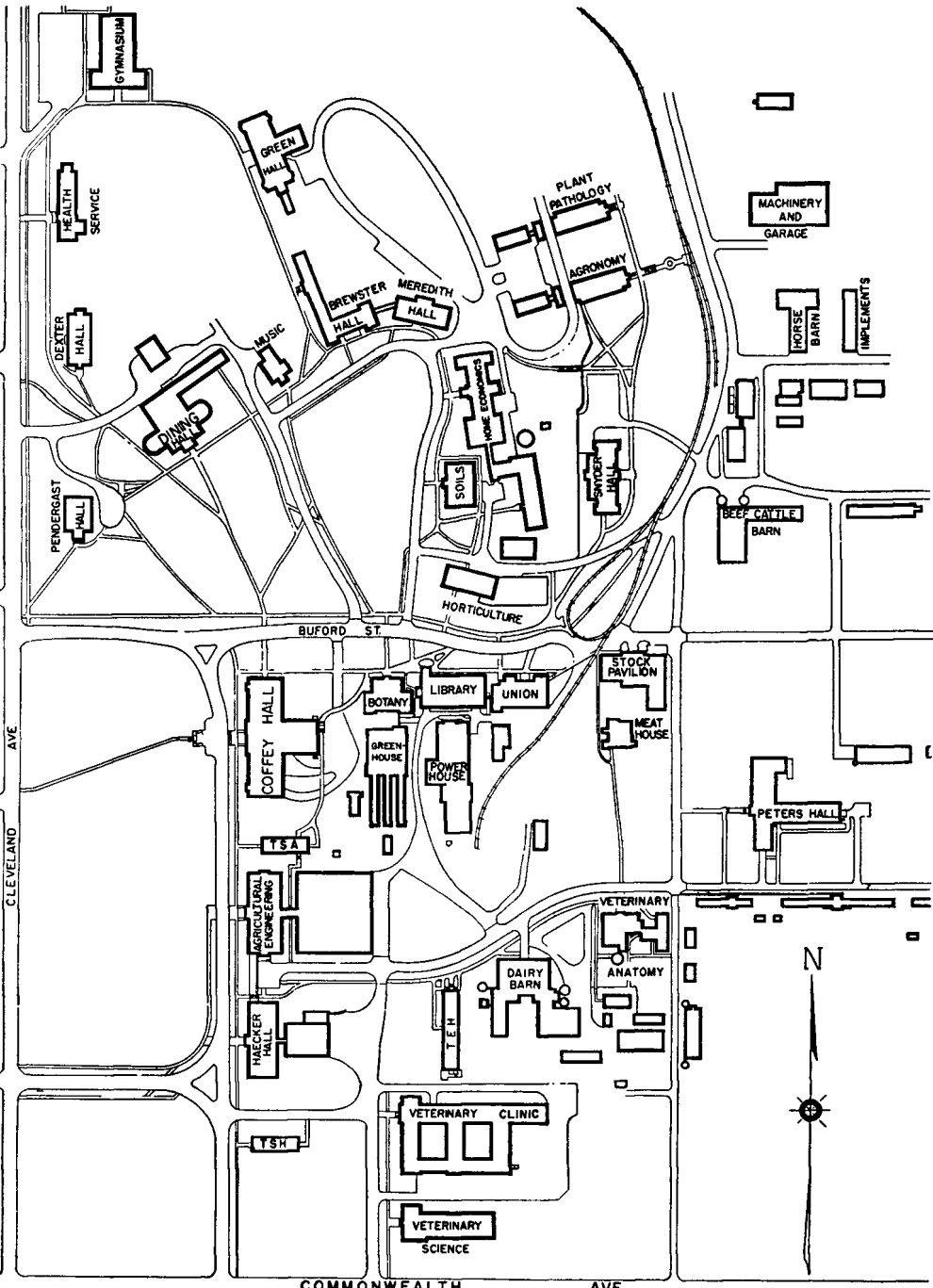
LEGEND

- 1. OLD MAIN
- 2. LABORATORY SCHOOL
- 3. TORRANCE HALL
- 4. WASHBURN HALL
- 5. OLCOTT HALL
- 6. TWEED HALL
- 7. TWEED ANNEX
- 8. TWEED GALLERY
- 9. ALWORTH APARTMENTS
- 10. HOME MANAGEMENT HOUSE

- 11. SCIENCE BUILDING
- 12. HEALTH & PHYSICAL EDUCATION
- 13. R.O.T.C. BUILDING
- 14. STUDENT CENTER
- 15. LIBRARY
- 16. DORMITORY UNITS
- 17. SCIENCE ADDITION
- 18. HUMANITIES & NEW TWEED GALLERY UNDER CONSTRUCTION

LAKESHORE STUDIO- 6004 LONDON RD.
 DARLING OBSERVATORY- 910 W. 3rd. ST.





ST. PAUL CAMPUS

