

The Bulletin of the UNIVERSITY of MINNESOTA

The College of Science, Literature, and the Arts
1946-1947



Volume XLIX, Number 32

August 29, 1946

Entered at the post office in Minneapolis as semi-monthly second-class matter, Minneapolis, Minnesota. Accepted for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized July 12, 1918

OFFICERS OF ADMINISTRATION
of the
College of Science, Literature, and the Arts

T. Raymond McConnell, Dean (219 Administration Building)
J. William Buchta, Assistant Dean for the Senior College (146 Physics Building)
Russell M. Cooper, Assistant Dean for the Junior College (106 Folwell Hall)
Royal R. Shumway, Assistant Dean for Students' Work and Chairman of the Students'
Work Committee (219 Administration Building)
Roger B. Page, Administrative Assistant and Coordinator of Faculty Counseling (108
Folwell Hall)
The Students' Work Committee consists of the three assistant deans

DEPARTMENT CHAIRMEN, HEADS, AND DIRECTORS

Anthropology, Wilson D. Wallis (104D Wesbrook Hall)
Astronomy, Willem J. Luyten (359 Physics Building)
Botany, Ernst Abbe (209 Botany Building)
Classics, Marbury B. Ogle (118 Folwell Hall)
English, Joseph W. Beach (220 Folwell Hall)
Fine Arts, _____ (101 Jones Hall)
General Studies, Russell M. Cooper (106 Folwell Hall)
Geography, Darrell H. Davis (101A Burton Hall)
Geological Survey, George M. Schwartz (207 Pillsbury Hall)
Geology, George H. Thiel, (108 Pillsbury Hall)
German, Oscar C. Burkhard (210 Folwell Hall)
History, August C. Krey (102 Burton Hall)
Journalism, Ralph D. Casey (112 Murphy Hall)
Linguistics, Konstantin Reichardt (317 Folwell Hall)
Mathematics, Raymond W. Brink (119 Folwell Hall)
Music, Paul M. Oberg (106 Music Building)
Philosophy, George P. Conger (300 Folwell Hall)
Physics, J. William Buchta (147 Physics Building)
Political Science, William Anderson (201 Burton Hall)
Psychology, Richard M. Elliott (112A Psychology Building)
Public Administration Training, Lloyd M. Short (13 Library)
Romance Languages, Francis B. Barton (200B Folwell Hall)
Scandinavian, Alrik Gustafson (13 Folwell Hall)
Sociology, F. Stuart Chapin (108 Jones Hall)
Speech, Frank M. Rarig (309A Folwell Hall)
Zoology, Dwight E. Minnich (108 Zoology Building)

TABLE OF CONTENTS

	Pages
Officers of Administration	2
I. Purpose of the College	4
Organization of the college	5
II. Admission and Registration	6
Admission rules and procedures	6
Registration procedures	6
Registration rules and definitions	9
Fees	13
III. Program in Liberal Arts	14
A. Requirements for the degree of associate in liberal arts	14
B. Requirements for the degree of bachelor of arts	15
Summary of graduation requirements	15
Requirements for entrance into the Senior College	15
Requirements in Senior College	16
C. Graduation Honors	18
D. Professional Sequences in Liberal Arts	19
1. Area Studies	19
2. Courses in Art	20
3. School of Journalism	22
4. Course in Library Science	23
5. Course in Music	24
6. Course Preliminary to Social Work	25
7. Preparation for Theological Training	27
IV. Preprofessional Work in Science, Literature, and the Arts	28
1. University College	28
2. School of Architecture—six-year course	28
3. School of Business Administration	29
4. School of Dentistry	31
5. College of Education	32
6. Law School	35
7. Medical School	38
Courses leading to degree of doctor of medicine	38
Nursing Education and Public Health Nursing	40
Course in Medical Technology	42
Course in X-Ray Technology	42
Course in Physical Therapy	43
8. Military and Naval Science and Tactics	44
Military Science and Tactics	44
Naval Science and Tactics	44
V. The Responsibility of Students	45

Section I

PURPOSE OF THE COLLEGE

The opportunity for a liberal education is a privilege afforded to students who have the necessary ability and ambition. Through the liberal arts, the student is enabled to broaden his interests, develop his abilities, and prepare himself for a life of useful service. It is no accident that the College of Science, Literature, and the Arts is the largest unit of the University, for it offers the kind of broad, stimulating education so richly prized by individuals and so necessary to society.

The college serves four basic purposes, which may be briefly summarized as follows:

1. **General education**—There are certain elements of general education which should be the common possession of everyone since they provide the basis for normal living in a free society. Though they are essentially non-specialized and non-vocational in character, they contribute to a person's total efficiency both when employed and at leisure. These elements of general education should enable the student:

- a. To understand other persons' ideas through reading and listening, and, in turn, to express his own ideas effectively to others.
- b. To attain a balanced social and emotional adjustment through an understanding of human behavior, the enjoyment of social relationships, and the experience of working co-operatively with others.
- c. To improve and maintain his own health and to make intelligent decisions about community health problems.
- d. To acquire the knowledge and attitudes basic to a satisfying family life.
- e. To participate as an active, responsible, and informed citizen in the discussion and solution of the social, economic, and political problems of American and international affairs.
- f. To understand the fundamental discoveries of science in their implications for human welfare and in their influence on the development of thought and institutions; to understand and appreciate the scientific method and to use it in the solution of concrete problems.
- g. To understand and enjoy literature, art, music, and other cultural activities as an expression of personal and social experience; and, if possible, to participate in some form of creative activity.
- h. To develop a set of principles for the direction of personal and societal behavior through the recognition and critical examination of values involved in personal and social conduct.
- i. To choose a socially useful and personally satisfying vocation that will enable him to utilize fully his particular interests and abilities.

Development of the ability to think critically and constructively has not been listed as a separate objective, since it is assumed a sound educational program will provide manifold opportunities for reflective thinking in a wide range of intellectual and practical activities. Recognition should therefore be given this objective in conducting each course so that the development of this ability will become an integral and pervasive phase of learning in every field.*

Thus broadly conceived, general education begins in one's early years, is the object of special emphasis during the late high school and early college period, and then should continue throughout the remainder of college and indeed the rest of life. Both curricular offerings and extra-curricular activities should contribute substantially to the general educational growth of the student, particularly when undertaken intelligently with a definite program in mind.

* These objectives of general education are taken from the Minutes of the University Senate, May, 1944.

2. Vocational exploration—While it is desirable to identify one's vocational interests as soon as possible, many students postpone a final decision until they complete one or two years of college, and still others find it desirable to change their choice. The College of Science, Literature, and the Arts offers so wide a variety of courses that students may test out several occupational possibilities before making a final decision. For example, a student contemplating medicine may try himself out in basic science courses to discover whether he has the proper abilities and interests, or a prospective businessman may test himself in elementary economics courses, with little loss in time and educational values in case a change of vocation should later appear necessary.

3. Professional training—A large number of professions rest upon the liberal arts as a foundation. For some professions, the preparation may be procured entirely in the College of Science, Literature, and the Arts, while in other instances the student transfers to a professional school after two, three, or four years of liberal arts background. The opportunities and requirements which apply to each of these professional sequences are described in Sections III and IV of this bulletin.

4. Special interests—Many students wish to develop in college special talents and interests which will add zest and meaning to life even tho unrelated to vocational choice. Such interests may be in the field of art, music, language study, science, literature, public affairs and a wide variety of other subjects.

ORGANIZATION OF THE COLLEGE

To help fulfill the purposes outlined above, the College of Science, Literature, and the Arts is divided into a Junior College and a Senior College. The Junior College embraces the freshman and sophomore classes and is concerned primarily with general education and pre-professional interests, while the Senior College is composed of the junior and senior classes, with accompanying opportunities for specialization. The opportunities and requirements in both of these divisions are explained more fully in later sections of this bulletin.

For purposes of instruction the college is divided into twenty-six departments covering the three broad areas of the natural sciences, the social sciences, and the humanities.

Section II

ADMISSION AND REGISTRATION

ADMISSION RULES AND PROCEDURES

Admission to the University—Before a student may enter the College of Science, Literature, and the Arts he must satisfy the requirements for admission to the University. These requirements are fully described in the University's *Bulletin of General Information*, 1946-47, pages 10-14. During the present emergency, preference is given to residents of Minnesota and adjacent states. Such students may be admitted either by certificate of graduation from an accredited high school, by examination, or by transfer from another college.

Admission to this college—

a. High School Graduates:

1. Applicants for admission to this college by certificate who are in the top 10 per cent of their high school class will be admitted regardless of the pattern of their high school subjects. Such students must meet the regular prerequisites for college subjects they may wish to take.

2. Other applicants for admission by certificate must have a college aptitude rating of at least 40 (the college aptitude rating is the average of the student's rank in his high school graduating class and his rank on the college aptitude test) and, unless the applicant is a veteran, must present the following pattern of subjects:

a. At least 12 units must have been completed in Grades X, XI, and XII (senior high school) including at least 9 units in standard subjects (Groups A through E).

b. Either 1 major and 2 minors or preferably 2 majors and 1 minor must be presented including:

A major in Group A, English

A major or a minor in Group D, Mathematics

For veteran students the requirement of the above pattern of high school subjects is waived.

3. Other high school graduates, regardless of subject-matter pattern in high school, may be considered for admission by examination. These tests are of the objective type, intended to measure aptitude for college work rather than specific information in high school fields. No special preparation for the examination is practicable.

Definitions—In listing the above requirements, reference was made to admissions groups, units, majors and minors. These terms are defined below.

1. Admissions groups referred to include:

Group A: English

Group B: Foreign Languages (major or minor must be in one language)

Group C: History and Social Sciences (major must include at least 2 units in History; a minor, at least 1 unit in History)

Group D: Mathematics

Group E: Natural Sciences (for major or minor in this group, not more than 2 half-unit courses may be included)

Group F: Vocational and Miscellaneous Subjects

2. A unit means a one-year high school subject taken in Grades X, XI, and XII (senior high school).

3. A major means at least 3 units in one admission group.

4. A minor means at least 2 units in one admission group.
5. From either Admission Group B (foreign languages) or Admission Group D (mathematics), *but not from both*, one unit completed in Grade IX may be used toward a major or a minor. If this is done, however, the unit completed in Grade IX may not be counted as part of the minimum of twelve units required from Grades X, XI, and XII nor as part of the units specified in Groups A through E.

b. Non-High School Graduates:

With the concurrence of the Minnesota Council of School Executives and the Minnesota High School Principals Association, provision has been made to consider for admission non-high school graduates, men or women, who show evidence of sufficient maturity to adjust to college life and achieve satisfactorily in college if it can be demonstrated that it would be to their best interest to enroll in the University without completing their high school work.

Such students may be considered for admission by examination.

Decision will be based on the high school record, test results, and judgments, with respect to maturity and best interest, of the high school principal, the parents, an all-university counselor, the dean of the college, and the dean of admissions and records. All cases where differences of opinion arise will be reviewed by the Board of Admissions.

Students desiring to apply for admission to the University before graduation from high school should arrange to come to the campus for a period of two or three days for testing and counseling several weeks in advance of the quarter they desire to enter. At that time application for admission, including high school credits and grades, and letters of recommendation from the principal and parents should be filed with the Office of Admissions and Records.

Admission to advanced standing—Students who have completed satisfactory work at another institution of recognized quality may be admitted with advanced standing. The procedure for such admission is described in the University's *Bulletin of General Information*, page 14.

A student entering this college with advanced standing must earn a C average (defined on page 10) on all work in this college. Any student failing to meet this requirement may be excluded from the college at any time after the first quarter. Credits accepted from another institution may be used to satisfy requirements of this college, but only the grades earned in this college will be computed in determining honor point ratios.

Any student upon first registration at the University may, with the approval of the chairman of the Students' Work Committee, be allowed without charge to take examinations for advanced standing in subjects in which the student declares himself to be prepared. Such examinations must be taken within the first six weeks of residence.

Adult special students—Persons of mature age (twenty-four years or older) and experience and persons who have received a Bachelor's degree who desire a special and limited course of study may be admitted as adult special students. Since they are not candidates for a degree, they are exempt from the usual college requirements and may take any courses in the college for which they have the necessary prerequisites.

Veterans under 24 years of age may be accepted as adult special students provided that it is demonstrated that they have sound vocational objectives and the requisite ability.

Such applicants must submit the information called for on the regular application blank, and they must obtain the recommendation of the Students' Work Committee and the approval of the dean of admissions and records. The registration of such students will be under the control of the committee.

An adult special student may not become a candidate for a degree without approval of the college and the Board of Admissions. Adult special students may apply to the dean of admissions and records for regular classification after one full year of work

(45 credits) has been completed with a C average. No advanced standing will be allowed while a student is in the adult special classification.

Admission of veterans—Special procedures applying to the admission of veterans are described in detail in the *Bulletin of General Information*, page 7. Veterans will profit from reading those instructions carefully.

REGISTRATION PROCEDURES

Essential steps in registration—The registration process is relatively simple if the student follows directions carefully. Special instructions are issued by the office of admissions and records for new and old Junior College students, as well as for those in Senior College, and the student should follow these instructions step by step. In general these procedures may be summarized as follows:

1. The entering freshman will be given a health examination and a speech examination and must take a series of tests which will assist him later in his educational planning.
2. The student should report as directed on the special instruction sheet for the planning of his program.
3. He should fill out the registration form and have his courses tallied.
4. He should secure a fee statement and pay the fees as directed.

Elements of program planning—Of the large number of courses in the University, a student has time to take only a few, and he should choose these very carefully in order best to serve his general educational and vocational needs.

1. The student should consider his general educational needs as discussed on page 4 of this bulletin and determine which field, in the light of his previous education and experience, he needs to emphasize in college in order to make him a well-rounded and effective person.

2. If he has made his vocational choice, he should study the requirements for that field and make sure that he takes the appropriate courses as outlined in this *Bulletin*. If he has not yet made this choice, he might well take exploratory courses in three or four different fields. The services of the Student Counseling Bureau should also prove helpful when making these vocational decisions.

3. In the light of these general and vocational needs, the student should select from the *Combined Class Schedule* those courses which will most efficiently enable him to realize his purposes. He must make sure, of course, that he has the prerequisites for these courses and that they do not conflict in hours. Moreover, if he intends to enter the Senior College, he should begin early to fulfill the group requirements (see p. 15).

4. He should take note of any college credit already earned, either by examination or by college work taken earlier, in order not to duplicate credit already received.

5. The courses as chosen should be listed on the appropriate registration form and a class card should be made out for each course selected.

Materials for registration—In addition to the *Bulletin of General Information* and this *Bulletin of the College of Science, Literature, and the Arts*, each student should consult a copy of the *Combined Class Schedule* which lists the specific courses available in this and several other colleges of the University. Usually there are last minute corrections of the *Combined Class Schedule* and the student should consult these mimeographed corrections when using the *Schedule*. In addition to these basic materials, the student will be given a sheet of registration instructions, a registration blank, and various assignment cards, all of which are very important to assure speedy and accurate registration.

Faculty counselors—Every student in the college is entitled to a counselor who will be glad to help him consider his educational plans, to check his registration form, and to assist him with any other problems which may affect his adjustment to the University.

1. Soon after registration, entering freshmen are notified of the name of their faculty counselor who will serve as their adviser throughout the year. This faculty member is ready at any time to help with program planning and any other problems a student may bring. If the student cannot see his adviser during posted office hours or if any other difficulty arises, he should bring his questions to the Junior College Counseling Office, 108 Folwell Hall.

2. Students with advanced standing are ordinarily not assigned to a specific faculty counselor, but they may seek help from the counselors in 108 Folwell Hall.

3. Third quarter sophomores who are certain of their junior year objectives may consult the appropriate Senior College or professional school. Other sophomores should use the Junior College Counseling Office as their counseling headquarters.

4. Senior College students are normally assigned to a major adviser who helps them to plan their work during the junior and senior years.

Before coming to his counselor, the student should make sure that he has studied the bulletins carefully for himself, and he should have a tentative program and specific questions in mind. He should also bring any records he has secured from the office of admissions and records indicating credit already earned at this University or elsewhere.

REGISTRATION RULES AND DEFINITIONS

In reading the bulletins and planning his program, the student will need to understand certain terms and be aware of special opportunities and regulations which may apply in his case. These items are summarized below.

Registration dates—Students are required to register before the final date announced in the University calendar. Only in exceptional circumstances will a student be allowed to register thereafter, and then upon payment of a special privilege fee.

The fee for the privilege of late registration or late payment of fees is \$2 through the third day of classes; on the fourth day the fee is \$2.50 and then it increases 50 cents per day to a maximum of \$5.

Grades, credits, and honor points—These are used for convenience in indicating amount and quality of work.

1. Four grades, A (highest), B, C, and D (lowest), are given for work of varying degrees of merit. They are all acceptable for the completion of a single course. Work completed with the grade D is counted toward graduation when combined with work of A or B grade in other courses. The grade C indicates work of the quality required for graduation in most curricula; the grades B and A are given for work of higher degrees of excellence.

The grade I (incomplete) is a temporary grade indicating that a student has a satisfactory record in work completed and, for justifiable reasons satisfactory to the instructor in charge, was unable to complete the work of the course. Any student receiving this grade shall be required to complete the work of the course within the first thirty days of his next quarter (except summer) in residence. A grade of I (incomplete) which is not removed within the first thirty days of the student's next quarter in residence is marked cancelled without grade. An extension of time may be permitted for removal of incomplete grades upon recommendation of the instructor concerned and approval by the Students' Work Committee. If a petition is presented after the end of the thirty-day period, a restoration of the mark of incomplete may be permitted by the Students' Work Committee upon the recommendation of the instructor but removal of the incomplete would be considered as a special examination for which the special examination fee would be required. (See Special Fees, page 13).

The grade F (failure) is given for work which in the opinion of the instructor is not deserving of college credit.

2. Amount of work is expressed in *credits*. Each credit demands on the average three hours a week of a student's time; that is, one recitation with two hours of preparation, or three hours of laboratory work.

3. Quality of work is indicated by *honor points*. Honor points are assigned to the various grades on the assumption that work of a quality required for graduation in most curricula is graded at least C. Each credit with the grade of C carries one honor point; each credit with the grade of B, two honor points; each credit with the grade of A, three honor points. The grades of D and F carry no honor points.

A student's scholarship average is defined as the ratio of earned honor points divided by the earned credits plus credits of removed and unremoved failures. Scholarship averages of 1, 2, and 3 are called C, B, and A averages, respectively. This definition has been in effect since the beginning of the Summer Session of 1943; but failures in courses taken before June 16, 1943 will not be counted in computing scholarship averages for students in residence in this college in the year 1942-43 or thereafter.

For satisfactory progress in most of the courses of study offered in this college, a student must maintain a scholarship average of at least C. By maintaining a better average in the Junior College, he may be able to reduce the amount of work which he is required to complete. (See paragraph below, Quality Credits.)

4. No course for which a student has received credit may be repeated by him to raise his grade except by special permission of the Students' Work Committee. Such permission is seldom granted except to raise a D in a fundamental course. In such case the second grade usually stands and the earlier grade and credit are canceled.

5. No student will receive credit for work for which he is not properly registered.

Quality credits—For veterans and for students other than beginning freshmen in residence during the fall quarter of 1946-47, the following rules on quality credits will apply. In some curricula and parts of curricula, the number of credits required of a student may be reduced as follows: For each five honor points in excess of the number necessary for a C average, the required number of credits will be diminished by one; or, in other words, for each five excess honor points, a student will be given one "quality credit."

This regulation applies only to the total number of credits required. It does not apply to other specific requirements of the student's curriculum. It is in force as regards:

- a. Admission to the Senior College, the College of Education, the School of Business Administration, the School of Dentistry, the Course Preliminary to Nursing Education and Public Health Nursing, and the Courses in Medical and X-Ray Technology.
- b. The Senior College part (exclusive of courses given by the Division of Library Instruction) of any course of study, given entirely within this college, leading to the degree of bachelor of arts or bachelor of science with this restriction: To a student registered in the Senior College, quality credits will be given for excess honor points earned in Senior College courses but not for those earned in Junior College courses.
- c. The Senior College part of the work done in this college in the combined courses of Arts and Law, Arts and Dentistry, and Arts and Medicine, with the restriction stated in the preceding paragraph (b).

For freshmen (other than veterans) entering the fall quarter of 1946-47 and for students (other than veterans) with advanced standing who enter or return to the University after September, 1946, quality credits may be earned as described above on the first 84 credits obtained in the University but not on additional work.

In any case, quality credits can be earned only for work done in this University.

Junior and Senior College students and courses—One must distinguish sharply between Junior and Senior College students on the one hand and Junior and Senior College courses on the other. Junior College students consist of freshmen who have less than 39 credits and sophomores who have 39 credits or more, while Senior College students include juniors who have been accepted into the Senior College and have less than 135 credits and seniors who have 135 credits or more.

The *Combined Class Schedule* lists Junior College courses (numbered 1 to 49) intended primarily for freshmen and sophomores, and Senior College courses (numbered 50 and above) intended primarily for juniors and seniors. It is possible for Junior College students to take advanced courses and for Senior College students to take elementary courses when the arrangement is clearly to the student's educational advantage.

Some Senior College courses are regularly open to Junior College students, particularly sophomores who have an average grade of C in the prerequisite courses, while other courses require the special permission of the Students' Work Committee. A request for such permission should be presented to the assistant dean for the Junior College in 106 Folwell, and it will usually be granted if the student has an average grade of at least C in all his work as well as in the prerequisite courses. Courses which carry graduate credit may not be taken earlier than the third quarter of the student's sophomore year.

Juniors and seniors with high scholastic standing are allowed the privilege of visiting classes and of reading under direction.

Amount of work—Students normally must elect at least 13 credits of work each quarter. To take less than that number, a student must secure permission from the Students' Work Committee. (Note that the U. S. Veterans' Administration will pay full compensation only to veterans taking 12 or more credits of work each quarter.)

The maximum number of credits for which a student may register is ordinarily 17. After two quarters of residence a student may register for 18 credits provided he has a scholarship average of 1.5 for the two quarters previous to registration, and no failure for the quarter immediately preceding registration. Registration for credits in excess of these limits must receive the approval of the Students' Work Committee.

Change of registration—Students who find it necessary to change a course after completing registration should fill out a "cancel-add" form, have it signed by their adviser, and present it to Room 106 Folwell for tallying.

The addition of new courses is normally not permitted after the first week of classes and cancellation does not normally occur after the second week of classes. Any subsequent changes which appear necessary must receive the approval of the assistant dean for students' work in 219 Administration Building. The student canceling a course in which he is failing, after the second week of classes, normally will have a failure indicated on his record and students normally may not cancel during the last two weeks of a quarter.

Auditors—Any mature person not a regular student may be admitted to classes as an auditor and may hear lectures and class discussions without doing the work of the course, subject to the following conditions:

- a. He will get an auditor's card at the office of the dean of the college (219 Administration Building) and on it secure the written approval of the instructor in charge of the course, and of the dean.
- b. He shall present such approval to the recorder and pay the usual fee charged for regular membership in such a course.

Registration as an auditor does not entitle one to participate in the activities of the class or to take the final examination.

Any Senior College student may register as an auditor under the same regulations, with this understanding—that unless he has at least a B average, the courses for which he registers both as regular student and as auditor must not exceed the permissible maximum of 17 or 18 hours. If he has at least a B average he may register as an auditor for an additional three-credit course.

Courses without credit—A student may register for a course without credit with the permission of the Students' Work Committee. This will entitle him to participate in

class activities to an extent agreed upon in advance with the instructor. Such provision is particularly advantageous for students wishing to repeat a course as a refresher experience.

Examinations for credit—Credit for work done outside of class may be obtained by taking a special examination. Applications should be made to the assistant dean for students' work. If approved, such an examination will be given by a committee appointed by the assistant dean for students' work. Unless the Students' Work Committee directs otherwise, the fee for such an examination will be \$5. This arrangement is especially useful for handicapped students who cannot attend classes regularly.

Examinations to demonstrate proficiency in prerequisite courses—Any student who wishes to carry a course for which he does not have the prerequisite may apply to the assistant dean for students' work for permission to take an examination to demonstrate his proficiency in the prerequisite. A satisfactory showing in the examination will admit the student to the course but will not entitle him to credit in the prerequisite course. There is no fee for this examination.

Elections of subjects in other colleges or schools—Any courses offered in other colleges regularly open to students of this college are so indicated in the S. L. and A. section of the *Combined Class Schedule*. Other courses in such colleges may be taken only with the approval of the college concerned and will carry credit in this college only by permission of the Students' Work Committee.

In the senior year, any student registered in the College of Science, Literature, and the Arts may elect not to exceed 6 credits per quarter in any other college or school of this University, provided that (1) the courses are indicated by the dean of the college or school in question and approved by the Advisory Committee of this college as suitable for such election; and (2) no duplication of subject occurs. Courses so taken are counted toward the bachelor of arts degree on the same terms as those taken in the College of Science, Literature, and the Arts.

Seniors desiring further information regarding courses open should consult the assistant dean for the Senior College, 146 Physics Building.

Courses in the General Extension Division—A student enrolled in the College of Science, Literature, and the Arts may take courses in the General Extension Division with permission of the Students' Work Committee; but the credits received in those courses will be counted as credits in this college only after the student has completed one year of work in the college.

A student who takes courses in General Extension Division classes in St. Paul, Minneapolis, or Duluth and wishes to count them toward a Bachelor's degree given by the College of Science, Literature, and the Arts must meet all curricular requirements of this college as stated in this bulletin. This means that:

- a. Before beginning work in the Senior College with a view to graduation, the student shall apply for Senior College standing and be enrolled by the assistant dean for the Senior College.
- b. He shall be assigned to a Senior College adviser and shall complete all the Senior College studies under the direction of the adviser.
- c. He shall complete any required work, either of major or minor sequences or of any other nature, in this college if it is not offered in the General Extension Division.
- d. He must observe any specific requirements which may be adopted hereafter, such as comprehensive examinations on either Junior College or Senior College work.

For the adjustment of irregularities in his curriculum the student will get advice from the assistant dean for the Senior College or from his major adviser.

A student who does not conform to these regulations may apply for standing in

the Senior College on the same terms as a student transferred from some other institution.

Students who have not taken class work in one of the cities named must meet both curricular and residence requirements.

Credit in the Graduate School—A student lacking not more than nine credits toward graduation may, upon petition, receive graduate credit for a limited amount of work taken as an undergraduate. No graduate credit will be given unless the student has made previous arrangements with the Graduate School. Courses taken for graduate credit will not carry credit toward the Bachelor's degree.

With the permission of the assistant dean for the Senior College, an undergraduate lacking not more than six credits toward graduation may be registered in the Graduate School while completing his requirements for the Bachelor's degree.

Special provisions for veterans—All veterans will wish to read carefully pages 6 to 8 of the *Bulletin of General Information* which explain credit policies applying to work done while in service and give further information concerning the admission and registration of veterans. Students should also consult page 17 of the *Combined Class Schedule* for information concerning General Educational Development Tests and the credit which they carry.

Petitions—A student who wishes exception made to any of the above rules should present his request in writing to the Students' Work Committee as explained on p. 46 of this bulletin.

FEES

All university fees are subject to modification without notice.

Tuition fee (per quarter)

Residents of Minnesota	\$25.00
Nonresidents	56.00

Credit hour tuition fee (adult special students, auditors, and others carrying less than full work)

Residents of Minnesota	2.25
Nonresidents	4.75

Incidental fee (per quarter)

10.65

Matriculation deposit† (first quarter only)

5.00

Special fees

Fees for individual courses are specified in the course announcements (See *Combined Class Schedule*).

Examination for credit (after first 6 weeks in residence)	5.00
Special examination	5.00

Laboratory deposit (required of students registered for courses in chemistry)

5.00

Graduation fee

7.50

Music fees (in addition to tuition) for those electing music

Courses 11 to 27

1 individual lesson per week, 2 credits	25.00
2 individual lessons per week, 4 credits	50.00
Class lessons in Courses 11C, 12C, 2 credits	15.00

Courses A, B, C and Course D, E, F

1 individual lesson per week, no credit	25.00
Practice fees (per quarter)*	5.00

Practice fees (per quarter)*	5.00
------------------------------------	------

* Pianos and organs are available for practice purposes upon payment of practice fees charged by the Music Department.

† Such charges as may be incurred for lockers, library penalties, laboratory breakage, etc., will be deducted from the amount of this deposit and the balance will be refunded by mail upon graduation or after the beginning of the first quarter the student fails to return to the University.

Section III

PROGRAMS IN LIBERAL ARTS

Most students who enter the College of Science, Literature, and the Arts expect to receive a degree either from this college or from one of the professional schools. The pages of this section are largely devoted to a description of the curricula which are available for a degree in this college and the requirements which the student must fulfill. Section IV, which follows, is concerned with the liberal arts prerequisites for entrance into the professional schools.

In addition to these persons seeking degrees, the college also welcomes students who have definite intellectual interests but who do not expect to graduate or to enter one of the professional schools. Such students may continue in college as long as they maintain a satisfactory standing in the studies they elect. During their Junior College years a wide variety of courses is open to them. After that period they may continue work in their fields of interest as nonclassified students under the direction of the Students' Work Committee.

Students seeking a degree in this college may follow a two-year course leading to the degree of associate in liberal arts or a four-year course leading to the degree of bachelor of arts. The bachelor of science degree is awarded in this college only for work in library science. Detailed information concerning individual subjects of study (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.) is given in the University's *Combined Class Schedule*, while the general character of the curricula is described below.

A. REQUIREMENTS FOR THE DEGREE OF ASSOCIATE IN LIBERAL ARTS

Some students are uncertain whether they can continue for a four-year degree and consequently wish to receive some degree at the end of two years as an evidence of work accomplished. The A.L.A. degree indicates the successful completion of a program devoted largely to general education. It is given for the two years of college work (90 credits) outlined below.

Students may choose freely from the many subjects of study offered by the college to freshmen and sophomores. The only restrictions are these: (1) normally the 90 credits must be earned in not more than seven quarters of residence; (2) the student must meet requirements in English and in at least two of three groups of subjects (foreign languages, social sciences, natural sciences).

More specifically the requirements are these:

1. Group Requirements

A. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement. All students are required to take a placement test before registering for any of these courses.

Any two of the following group requirements (B, C, D):

B. Foreign language, 0 to 20 credits, according to the following schedule:[†]

<i>Amount Presented for Entrance</i>	<i>Amount Required in Junior College</i>
Four years of one language	None
Three years of one language	5 credits in same language
Two years of one language	10 credits in same language
One year of one language	15 credits in same language
Less than a year of one language	20 credits in one language

[†] For students who enter this University with advanced standing, the number of credits required may be less than that indicated in this schedule. Any course of 9 credits (6 semester credits) may be substituted for the corresponding 10-credit course here.

- C. 10 credits§ in one of the social sciences: anthropology, economics, geography, history, political science, sociology.
or
12 credits in Social Science 1f-2w-3s (Introduction to Social Science)
- D. 10 credits§ in one of the natural sciences: astronomy, botany, chemistry, geology (including laboratory), physics (including laboratory), psychology (including laboratory), zoology
or
15 credits in Natural Science 1f-2w-3s (Orientation in the Natural Sciences)
- 2. Electives to make the required total of 90 credits, which must normally be earned in not more than seven quarters of residence. If a student enters this college with advanced standing, he must spend the last three quarters before graduation in residence and he must earn at least 45 of the required 90 credits in residence.

All students who meet the requirements outlined above are eligible for the degree, including those who are admitted to the Senior College or the professional schools as well as those who remain in the University for only two years.

B. REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

The B.A. degree is awarded to those students who have successfully completed a systematic program of general and specialized work. It is a symbol signifying that the student has significantly developed his intellectual powers, has improved his capacity for living a fuller and more satisfying life, and has attained a degree of mastery over at least one field of special interest. Of the requirements in the college which are provided to help assure these ends, some must be fulfilled before entering the Senior College and others before graduation.

Summary of graduation requirements—For convenience, the main requirements for graduation are summarized here while the details are elaborated in the paragraphs which follow. To become eligible for a B.A. degree the student must:

1. Earn a minimum of 180 credits with an over-all scholarship average of at least C.
2. Secure 90 credits of C-average quality while in the Senior College (at least 45 credits if a transfer from another college).
3. Fulfill the group requirements for entrance into the Senior College.
4. Complete a major in a field of concentration through one of the three methods outlined below.

Requirements for entrance into the Senior College—While a student's general education should continue into the Senior College, and indeed throughout life, this phase of his development is especially emphasized in the Junior College. Together with any preprofessional work this will absorb at least two years of study.

1. To assure reasonable distribution among the student's courses he must fulfill the following group requirements:

- A. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement. All students are required to take a placement test before registering for one of these courses. (See *Combined Class Schedule*, p. 47.)
- B. Foreign language, 0 to 20 credits, according to the following schedule:†

<i>Amount Presented for Entrance</i>	<i>Amount Required in Junior College</i>
Four years of one language	None
Three years of one language	5 credits in same language
Two years of one language	10 credits in same language
One year of one language	15 credits in same language
Less than a year of one language	20 credits in one language

† For students who enter this University with advanced standing the number of credits required may be less than that indicated in this schedule. Any course of 9 credits (6 semester credits) may be substituted for the corresponding 10-credit course here. Veteran students whose language study was so seriously interrupted by the war that they cannot resume it without excessive hardship may, with the approval of the Students' Work Committee, substitute an additional minor for graduation to satisfy this requirement.

§ Or 9 credits in a year course or 9 credits (6 semester credits) of advanced standing.

- C. 10 credits* in one of the social sciences: anthropology, economics, geography, history, political science, sociology
 - or
 - 12 credits in Social Science 1f-2w-3s (Introduction to Social Science)
- D. 10 credits* in one of the natural sciences: astronomy, botany, chemistry, geology (including laboratory), physics (including laboratory), psychology (including laboratory), zoology, and the General Studies courses in General Biology or the Physical World.
 - or
 - 15 credits in Natural Science 1f-2w-3s (Orientation in the Natural Sciences)
- E. Public Health 3 (Personal Health, 2 credits) or equivalent. Students will be excused from this requirement if they pass a certain approved examination covering health information which will be given every quarter by the Student Counseling Bureau, at a time and place to be announced in the University's Official Daily Bulletin.||

In meeting these requirements, and in rounding out the rest of his program, the student is free to select any courses listed in the S.L.A. section of the *Combined Class Schedule* for which he has the prerequisites. It is important that he choose the courses carefully in the light of his educational needs and ambitions.

2. In planning his program, the student must also take note of the Junior College prerequisite courses which should be taken in preparation for his Senior College major or his work in a professional school. The requirements for the various professional schools are set forth in Section IV and the requirements for majors in the Senior College are described in the following pages or in the departmental listings of the *Combined Class Schedule*. As soon as the student has settled upon his special interest, he should study these requirements carefully in order that the necessary Junior College courses may be taken at the proper time.

3. For entrance into the Senior College, a student must normally earn a total of at least 90 credits with a scholarship average of C. Some of these credits may be "quality credits" as explained on page 10. A student entering with advanced standing from some other institution must complete the same requirements and secure a C average for work done in this University.

It is important that the student enter the Senior College as soon as he is eligible in order that he may plan his further work with a major adviser and may properly fulfill the residence and other requirements of the Senior College. To encourage this transfer at the proper time, the assistant dean for the Senior College may, upon application, modify the above requirements with the understanding that they will be fulfilled later. Students should apply for entrance into the Senior College early in the term in which they will complete 84 credits. The requirement of a C average may be temporarily waived if the last 45 credits are of C quality, tho any such deficiency must be made up before graduation. Students with the other requirements fulfilled may be admitted even tho the group requirements in English, Foreign Language, Social Science, Natural Science, or Public Health have not yet been completely satisfied.

Credit in Senior College courses earned while the student is still in Junior College may be counted toward meeting Senior College requirements for graduation.

Requirements in the Senior College—The Senior College affords the student an opportunity to emphasize some field of special interest while continuing his liberal education. His concentration may be for vocational or avocational purposes and it may be departmental or interdepartmental in character. The student should obtain a reasonable degree of mastery in the field of his choice. To assist him in realizing these objectives the faculty has specified the following requirements, which must be completed before the student may receive his B.A. degree.

1. The student normally must earn 90 credits with a C average while in the Senior College. Thus he will have a minimum total of 180 credits with a C average for the

* Or 9 credits in a year course or 9 credits (6 semester credits) of advanced standing.

|| Public Health 50 (Public and Personal Health, 3 credits) is an acceptable substitute for Course 3. It is primarily for juniors and seniors but sophomores are sometimes allowed to take it.

degree. If a student has transferred from some other college, he must spend the last three quarters before graduation in residence in the Senior College and must earn a minimum of 45 credits in residence in the Senior College.

2. The student must complete a field of concentration, known as a major sequence, composed of Senior College courses; and he must maintain a C average in this sequence. He may elect either (a) a departmental major and minor sequence or (b) an inter-departmental (liberal arts) major or (c) a combination course with a professional school.

a. A departmental major is offered in nearly every department listed on page 2 of this bulletin and the specific requirements for each major (usually 27 to 36 credits) are indicated with each department's offering in the *Combined Class Schedule*. The departmental major must be accompanied by a minor sequence of 15 credits or two minors of 9 credits each, in Senior College courses. These must be taken in some department or departments other than the student's major department and in addition to his major sequence.

Major sequences are offered by the following departments: Anthropology, Architecture, Astronomy, Bacteriology, Biostatistics, Botany, Chemistry, Classics, Economics, English, Fine Arts, Geography, Geology and Mineralogy, German, History, Journalism, Linguistics and Comparative Philology, Mathematics, Music, Philosophy, Physics, Physiology, Political Science, Psychology, Public Health, Romance Languages, Sociology and Social Work, Speech, Zoology. The major sequences in Fine Arts, Journalism, Music, and Social Work are also announced in this bulletin, pages 20, 22, 24, and 25.

b. The interdepartmental, or liberal arts, major is designed for students whose special interests cannot be satisfied in a single department and who should have a major tailor-made for his particular needs. To elect this major the student must submit to the assistant dean for the Senior College a plan of study intelligently arranged around a central purpose and the precise courses included will then be determined in consultation with a major adviser. In general such a program will have more than 60 credits in Senior College courses. An indefinite variety of study programs may be recognized on this basis. A few which have been especially planned are those in "Area Studies," "Preparation for Theological Training," described on pages 19 and 27 below, and those in "American Studies" and "Humanities," described on pages 18 and 72 of the *Combined Class Schedule*.

c. Combination courses have been worked out with several professional schools, permitting the student to apply part of his professional work toward a Bachelor's degree from this college. The details of these courses are listed with the respective college programs in Section IV of this bulletin. They include the following combinations:

- (1) Combined course in Arts and Law. Three years of work must be taken in the College of Science, Literature, and the Arts and at least one additional year in the Law School.
- (2) Combined course in Arts and Medicine. The first three years of work are taken in the College of Science, Literature, and the Arts and the fourth year is taken in the Medical School.
- (3) Combined course in Arts and Dentistry. The first three years of work are taken in the College of Science, Literature, and the Arts and two additional years of work must be completed in the School of Dentistry.
- (4) Four-year course leading to the degrees of graduate dental hygienist and bachelor of arts. The first two years are spent in the School of Dentistry and the last two in the College of Science, Literature, and the Arts.

3. The student will be assigned a major adviser who will help him to work out his Senior College program. When this program has been approved by the major adviser and the assistant dean for the Senior College, it becomes a contract between the college and the student, and no change in it may be made without the written permission of the adviser and the assistant dean for the Senior College.

C. GRADUATION HONORS

1. GENERAL REQUIREMENTS

The degree B.A. or B.S. may be awarded *cum laude*, *magna cum laude*, or *summa cum laude* upon the recommendation of the Committee on honors.

Honors are awarded only to students who at the time of graduation:*

- a. Have a scholarship average of B or above in all their work.
- b. Have earned at least forty-five (45) credits in this college after their admission to the Senior College.
- c. Have a minimum of sixty (60) credits, exclusive of quality credits, in Senior College courses.†

Students who enter with advanced standing are eligible to become candidates for honors if they will have earned 60 credits of work in residence before graduation.

Students may be accepted as candidates for honors in courses leading to the B.S. degree or to the B.A. degree in combined arts and professional courses provided they present an equivalent of the work required for graduation with honors in the general course leading to the B.A. degree.

Any student who cannot meet these general requirements in full or the specific requirements below may apply to the Committee on Honors for individual consideration of his case.

2. CUM LAUDE

Any student who, in addition to satisfying the general requirements above, has an average of B in a minimum of 60 credits in Senior College courses so distributed as to include a minimum of six credits of Senior College work in subjects outside the major and minor fields will be recommended for the degree *cum laude*.

3. HIGHER HONORS

Students wishing to become candidates for the higher honors (*magna cum laude*, *summa cum laude*) must signify their intention not later than the beginning of the third quarter before graduation. Students are admitted as candidates upon the recommendation of the major department and the approval of the Committee on Honors.

Magna cum laude without examination—Any student will normally be recommended by the committee for his degree *magna cum laude* if

- a. He satisfies the general requirements above, and
- b. He has a scholarship average of 2.25 or above in all his work and in his Senior College courses averaged separately, and
- c. He has a percentile rank above 60 in three of the five parts of the Sophomore Culture Test, and a percentile rank above 60 in the total score on this test, and
- d. His program shows a minimum of six credits of Senior College work in subjects outside the major and minor fields.

Magna cum laude on examination—Any student who satisfies the general requirements but who cannot meet the special requirements immediately preceding may apply to the Committee on Honors to be admitted to an oral examination—described below—for *magna cum laude*, if his general average is 2.15 or above.

Summa cum laude—To be approved as a candidate for graduation *summa cum laude* a student must meet all the requirements for *magna cum laude* without examination and in addition have a scholarship average of 2.40 or higher in all his work and in his Senior College courses averaged separately. He must then take an oral examination and submit a paper such as is described below.

* The attention of students is called to the fact that in the College of Science, Literature, and the Arts honors are awarded upon complete records including the work of the final quarter before graduation. If any student has reason to believe that his record in the final quarter may alter his status as a candidate for higher honors he should immediately consult the chairman of the committee.

† Courses numbered 50 or above.

The oral examination—The oral examination is not intended to cover the work of any course or group of courses which the student has taken. It is not a test of memory, but of assimilation, of culture, and of power to use the knowledge which courses of study have put within the student's reach. Questions may be asked on the content of a course, but only as a point of departure, as the first of a series of questions intended to lead the student toward inferences of his own or toward a comparison of, or correlation of, the content of separate courses.

The examination is intended to test the student's

- a. Acquaintance with the chief literature and sources of information in his major field.
- b. Ability to discuss, with intelligence and clear reasoning, questions or problems upon which he has had opportunity to secure the necessary information. Such questions may be new to the student.
- c. Capacity for self-education as indicated by his curiosity about subjects of general interest and his voluntary attempt to inform himself concerning them.
- d. Power to command or use the knowledge which his courses of study have put within his reach.

The summa paper—The *summa* paper may be of almost any type whatever provided it demonstrates that the candidate has talent or ability which marks him as a distinguished undergraduate. It may consist of creative work in any of the arts—a musical composition, a group of paintings, or poems, or stories. It may follow the pattern of the "term paper" in which the student is expected to survey the literature on any special topic, to gather the available information, and to organize and present it in clear, logical form. Or it may consist of the preliminary survey of the literature on a problem in research which the student will pursue in his graduate years. Or it may present the results of research itself.

Whatever it may be, it should show distinction—at the undergraduate level—and should be presented in finished form. If an essay or critical paper or report or thesis, it must be well written.

D. PROFESSIONAL SEQUENCES IN LIBERAL ARTS

Most students in this college wish to receive both a cultural education and preparation for a vocation. The vocational opportunities for a capable student with a B.A. degree are very numerous and he frequently is given preference by employers over graduates of more specialized colleges because of the breadth of his preparation.

To provide for these interests still more effectively, the faculty has prepared a number of special programs for students who may be interested in particular fields. Their offerings and requirements are described in the following pages.

1. AREA STUDIES*

Purpose of the programs—Reflecting the increasing interest of students in world affairs, several programs in Area Studies have been developed to enable students to cross departmental lines in order to obtain a comprehensive understanding of the civilization—the way of life—of a people. Essentially these programs are of a broad, cultural nature, but they may also be considered preparatory to various types of professional careers in public service, business, education, and other pursuits.

The areas are viewed on the basis of the culture or the civilization of their people rather than upon a geographical basis. The core of the Area Studies is an integrated course or group of courses in the social, political, economic, and aesthetic ideas and

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

institutions of the area, supplemented by courses in geography, history, and language. For full information on these studies at both the undergraduate and graduate levels, one should consult the special bulletin entitled "Programs in Area Studies." Some of the essential features are indicated below.

Courses in the Junior College—All students must satisfy the group requirements in English, a foreign language, natural science, social science, and public health. While circumstances of anticipated major interests may alter cases, the courses listed below are deemed most generally suitable as background and prerequisites for Senior College work. Students, in consultation with an adviser, will select from them a suitable program. Consultation should begin as early as possible, preferably upon entrance into the University.

A. Social Sciences

Anthropology 40-41	Introduction to Anthropology	(10)
Economics 6-7	Principles of Economics	(10)
Geography 11	Human Geography	(5)
Geography 41	Geography of Commercial Production	(5)
History 1-2-3	Civilization of the Modern World	(9)
History 20-21-22	American History	(9)
Political Science 1-2-3	American Government	(9)
Political Science 7	Comparative European Government	(3)
Political Science 9-10	Fundamentals of Government and Politics	(6)
Political Science 25	World Politics	(3)
Social Science 1-2-3	Introduction to Social Science	(12)
Sociology 1	Introduction to Sociology	(5)

B. Language

To be selected in relation to the anticipated area of concentration.

C. Fine Arts and Philosophy

Fine Arts 1	Introduction to Art	(3)
Humanities 1-2-3	Humanities in the Modern World	(15)
Philosophy 1	Problems of Philosophy	(5)
Philosophy 20	Social Philosophy	(3)

Courses in the Senior College—In consultation with a major adviser the student will select courses totaling 45 credits, equivalent to a major and a minor, in an area of concentration. At least 18 credits will be obtained in the social sciences and 6 credits in an honors course or proseminar designed to integrate the whole program.

Proficiency in the selected language is an important asset for those who contemplate a career in or related to a particular area. Students are free to complete their programs in accordance with their cultural or vocational interests.

Courses specifically related to the several areas are described in detail in the special bulletin, "Programs in Area Studies" and cover the following fields: (1) Western Europe, (2) Central Europe, (3) Russia, (4) The Far East, (5) The Near East, (6) Latin America. Students may also wish to consult the special bulletin on "Preparation for the Foreign Service" and "American Studies."

Major advisers in the program are as follows: Messrs. Lawrence D. Steefel (Western Europe), Harold C. Deutsch (Central Europe), Konstantin Reichardt (Russia), Werner Levi (The Far East), Emilio C. LeFort (Latin America) and Walter B. Cline (The Near East)..

2. COURSES IN ART*

A wide variety of courses in art is offered to students of the College of Science, Literature, and the Arts. They are listed under the following headings in the University's *Combined Class Schedule*: Architecture, Art Education, Drawing, Fine Arts, and Home

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

Economics. These courses may be organized into special sequences for a major in Fine Arts leading to the degree of bachelor of arts. The basic introductory course is Fine Arts 1-2-3 which the student is expected to take as early as possible, preferably in the freshman or sophomore year. In it are combined the elementary principles of style and technique of the arts with a systematic survey of their development from the earliest times through the present day. Subsequent courses are arranged in Sequence A and Sequence B in accordance with the cultural or professional interests of the student.

Sequence A is concerned primarily with the historical and critical study of the various stylistic periods, artists, and important works. The selection of courses required and suggested for this sequence offers the student not only a broad acquaintance with the fields of the humanities either as an end in itself or as a foundation for further study, but also affords practical training in art criticism and writing, library, museum, and education work in the Arts. Requirements for students majoring in this sequence are Courses 1-2-3 (Introduction to Art) and 33 credits in courses numbered above 50.

Sequence B is intended for students desiring a practical acquaintance with the various artistic processes as well as technical skill in drawing and studio design. Requirements for students majoring in this sequence are: Courses 1-2-3 (Introduction to Art); 9 credits in art history courses with numbers above 70; and 27 credits in practical art courses given by the School of Architecture, and Departments of Art Education and Drawing. The basic point of view governing the organization of this sequence is that the professional artist must have a sound cultural background as well as artistic skill and technical training in his chosen field.

Either of these sequences is begun after the student has satisfied the usual requirements for admission to the Senior College described on pages 15-16 of this bulletin. The following courses of study are recommended by the Department of Fine Arts for the freshman and sophomore years.

1. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
2. French, German, or Spanish to meet the foreign language requirement.
3. Social Science 1-2-3 (Introduction to Social Science) or anthropology or economics or history or sociology, to meet the social science requirement.
4. Natural Science 1-2-3 (Orientation in the Natural Sciences) or psychology (with laboratory), or zoology, or botany to meet the natural science requirement.
5. Public Health 3 (Personal Health, 2 credits).
6. Fine Arts 1-2-3 (Introduction to Art).
7. For Sequence B—at least 12 credits in studio courses in drawing and painting selected from Architecture DP-I, DP-II; Art Education 4-6-8, 24-26-28, 31-32; Drawing 41-42-43, 81-82-83. For Sequence A—Courses in English and foreign literature, History 1-2-3 (Civilization of the Modern World), Humanities 1-2-3 (Humanities in the Modern World) and Humanities 11-12-13 (The European Heritage: From Homer to Molière) are recommended in preference to the studio courses.
8. Electives to make up the required total of 90 credits.

Among the many professional possibilities available in the Senior College curriculum in Sequence B the following objectives are suggested as the most practical:

Commercial Design—In this program the student is able to combine a broad cultural background of art, history, and literature, and a technical training in drawing, painting, and design with a basic knowledge of advertising technique and procedure. Required for this program are certain courses in Journalism, Economics and Business Administration, and Psychology to be chosen in conference with the adviser.

Pre-occupational Therapy—A full program for occupational therapy can be supplied for only the first two years. Required for this course are Zoology 1-2-3, Psychology 1-2, Physiology 1-2, Sociology 1, Public Health 3, and Anatomy 3, in addition to Fine Arts 1-2-3 and the Drawing and Painting courses listed above.

Industrial Design—Depending on the individual requirements of the student, a program of training for various fields of industrial design can be worked out with the adviser on the basis of the Sequence B major. For the special major in Architecture see the University's *Combined Class Schedule*, under the heading "Architecture."

3. SCHOOL OF JOURNALISM*

Advisers—Professors Casey, Charnley, Barnhart, Nafziger, and Gerald; Associate Professor Ford; and Assistant Professors Kildow and Emery.

Professional training for journalism is provided by a major in the School of Journalism leading to the degree of bachelor of arts, for which the requirements are given on pages 15-16. The course is built upon the principle that sound professional accomplishment in journalism is based on a broad cultural education plus a fundamental working knowledge of journalistic techniques, theory, and the institutional history and influence of the agencies of mass communication.

A student's specialized training in journalism begins in his sophomore year with a course in reporting, which he may enter if he has satisfied the scholastic requirements of the school.

No student whose average is lower than C will be permitted to enroll in any journalism course.

For former service men and women, the school will arrange programs designed to meet individual needs, and adjusted to the student's aptitude and to whatever previous professional or educational experience the student offers.

Junior College courses—The student begins the Senior College major sequence in journalism after satisfying the usual requirements for admission to the Senior College described on pages 15-16. Although a student may meet these requirements in his own way, the School of Journalism recommends the following courses of study for the freshman and sophomore years:

1. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
2. French, German, or Spanish to meet the foreign language requirement.
3. Social Science 1-2-3 (Introduction to Social Science) or economics or history or political science or sociology, to meet the social science requirement.
4. Natural Science 1-2-3 (Orientation in the Natural Sciences) or psychology (with laboratory) or zoology to meet the natural science requirement.
5. Public Health 3 (Personal Health, 2 credits).
6. Advanced Writing (Composition 27-28); Introduction to Reporting (Journalism 13); and Newspaper Reporting (Journalism 14-15); which are prerequisites for the Senior College major sequence in journalism.
7. Electives to make the required total of 90 credits.

Recommended electives are: Political Science 1-2-3, 7 and 25; Sociology 1 and 2; Psychology 1-2; History 20-21-22 or 1-2-3; Social Science 1-2-3; Natural Science 1-2-3 or 4-5-6; Humanities (two or more quarters); Geography 11 and 41; English 37-38-39; Economics 6-7.

Senior College courses—The Senior College curriculum is arranged to offer training for metropolitan journalism, small daily or weekly journalism, including newspaper advertising and business management aspects of the publishing industry, magazine writing and magazine, book, and manuscript editing, advertising, public relations work, radio news editing, script writing and advertising, media analysis; in co-operation with the College of Education, training for teaching journalistic writing and supervising student publications in high schools and junior colleges; in co-operation with the College of Agriculture, Forestry, and Home Economics, a major in agricultural journalism.

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

When students enter the Senior College they are advised to select their elective work for preparation in special fields. Editorial courses are designed to train students in news gathering, writing and editing, feature and magazine writing and editing, newspaper administration, magazine and book editing and publishing, and radio news and script writing. Business courses train them in newspaper and periodical advertising, circulation problems, and business management methods. Journalism students specializing in advertising and business management problems may take a minor in advertising (B.A. 77 and 88; Psychology 56; and 6 additional credits selected from among Drawing 64, B.A. 69 and 194, Journalism 130 and Psychology 140). Junior College prerequisites for these courses are Psychology 1-2 and Economics 5 and 6-7. Some modification of this minor sequence is permitted on consent of the director of the School of Journalism, altho a minimum of 15 hours of Senior College work for this minor is required.

The major sequence in journalism in the Senior College is as follows: Course 51-52 (News Editing); Course 55 (Advertising and Newspaper Typography); Course 69 (Newspaper and Magazine Articles) or Course 73 (Magazine Writing and Editing); Course 101 (The Reporting of Public Affairs); Course 109-110 (History of Journalism); Course 112 (Current Newspaper Problems); Course 140-141 (Interpretation of Contemporary Affairs); and 9 additional credits to be chosen in conference with the major adviser. Students of marked ability may substitute for these 9 additional credits in journalism, Senior College courses in other departments with the approval of the major adviser in journalism.

A modified major sequence is provided for journalism major students who wish to specialize in advertising and publication management.

The school offers minor sequences for students in the College of Agriculture, Forestry, and Home Economics, the Institute of Technology, the School of Business Administration, and the College of Education.

4. A COURSE IN LIBRARY SCIENCE*

The Division of Library Instruction offers a program of 45 credits in Library Science, which may be taken either as a major in the regular four-year undergraduate program leading to a degree of bachelor of science, or as a fifth year of postgraduate work leading to a degree of bachelor of science in library science if the student already has a B.A. or a B.S. degree from a recognized institution of higher learning.

A student who wishes to enroll in this program, either as a part of his undergraduate major or as an added year of study, should consult with one of the major advisers in the Division of Library Instruction during the final quarter of his sophomore year (or during his last quarter in Junior College) so that an integrated two- or three-year program may be worked out to suit the individual student's needs. Library Science courses may be taken either as a part of the junior, senior, and postgraduate years, or entirely in the senior year, or entirely in the fifth or postgraduate year. Courses which are not Library Science offerings should be elected from the Senior College courses insofar as possible, but exceptions to this may be granted in unusual cases by special permission of the assistant dean for the Senior College.

The student must complete the requirements for admission to Senior College, given on pages 15-16 and is subject to all the regulations which govern the work of other Arts students. He must present and maintain during his Library Science program a scholarship average of C.

For admission to this course, the student must secure the written approval of the assistant dean for the Senior College of Science, Literature, and the Arts.

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

Training for Hospital Librarianship

A course in Hospital Librarianship is offered in co-operation with the Minnesota State Department of Social Security. Candidates for admission to this course must have completed satisfactorily (1) at least three years of approved college work and (2) at least two quarters of work in an approved library school or an equivalent of approved experience in hospital library work. Moreover, the following courses or their equivalents are recommended preparation for the hospital library program:

P.H. 50	Public and Personal Health	3 credits
Psy. 1-2	General Psychology	6 credits
Psy. 144-145	Abnormal Psychology	6 credits
Soc. 1	Introduction to Sociology	5 credits
Soc. 49	Social Pathology	3 credits
Zool. 1-2-3	General Zoology	10 credits

Students are advised not to register for less than the four courses in hospital librarianship. No candidate for a certificate or degree will be excused from Hospital Library Practice. Opportunity for individual study of problems of special interest will be given as far as practicable. All prospective students who have not taken their preliminary work at the University of Minnesota must apply for admission to this University and must submit their credentials to the Office of Admissions and Records of the University of Minnesota, Minneapolis 14, Minnesota. Since each application requires special consideration, early application is extremely desirable. It is expected that only those who are genuinely interested in work in hospitals, who are constitutionally able to do such work, who are willing to accept positions in hospitals or similar institutions, and who have personal and educational qualifications for such will apply.

For admission to the Division of Library Instruction and to the course in Hospital Librarianship a special certificate must be secured from the assistant dean for the Senior College of the College of Science, Literature, and the Arts.

More complete information on the details of this program are available in the latest Bulletin of the Division of Library Instruction or in the University *Combined Class Schedule*.

5. A COURSE IN MUSIC*

Advisers—Professors Oberg and Ferguson; Associate Professor Hull.

To secure the degree of bachelor of arts with a major in music a student must fulfill the requirements of both the Junior and Senior Colleges as stated on pages 15-16 of this bulletin. He must secure 144 credits in courses other than practical music (piano, voice, etc.). During the first two years, he should register for English A-B-C (Freshman English) or English 4-5-6 (Freshman Composition), unless exempt from the requirements in English; foreign language (0 to 20 credits, as indicated on page 15); History 11-12-13 (Medieval History); Psychology 1-2 (General Psychology) and Psychology 4-5 (Introductory Laboratory Psychology); Public Health 3 (Personal Health, 2 credits); and the following courses in music†: 1T, 2T, 3T, 4T, 5T, 6T (Music Theory); 7-8 (Counterpoint); 34-35-36 (History of Music). At the end of the sophomore year he must take a comprehensive examination to insure that he is prepared for Senior College work. In the following two years he must complete one or two academic minors (see page 17), and earn from 27 to 30 credits in fields emphasizing one of the following branches of music: composition; history; normal piano (a training course in piano teaching). During the four years he must earn 30 credits in practical music. Special fees for courses in practical music are announced on page 13.

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

† All students majoring in organ or piano will also take Music 37-38 (Keyboard Harmony).

Entrance requirements, according to the instrument selected:

Piano: Any major or minor scale in octaves, thirds, sixths, or tenths, in sixteenths at M.M., quarter note=108; Bach Invention or dance from one of the suites; a sonata by Haydn or Mozart; a modern composition of equal difficulty with the sonata.

Voice: Sing on pitch with correct phrasing and musical intelligence standard songs in good English (the simpler classics recommended). Demonstrate ability to read a simple song at sight and have a knowledge of the rudiments of music. Have a promising voice. Some knowledge of piano is urgently recommended.

Violin: Major and minor scales; arpeggios; the simple Kreutzer Etudes; a sonata by Handel, Haydn, Mozart, or Schubert; a more modern work displaying special technique peculiar to the violin.

Organ: Same as for piano.

To register in the music course, a student must first pass an examination in practical music before a committee of the faculty of the Music Department. This applies also to academic students who wish to elect courses in practical music.

For more specific information as to required courses, consult the statement of the Department of Music in the University's *Combined Class Schedule*.

For a course in music education leading to the degree of bachelor of science in education and a teacher's certificate, see the Bulletin of the College of Education.

6. A COURSE PRELIMINARY TO SOCIAL WORK*

Education for social work is on three levels: (1) undergraduate study, which includes social sciences and some courses of primarily informational nature dealing directly with social work; (2) one year of graduate social work study which includes technical theory courses in social work and field work practice; (3) a second year of graduate study devoted to specialization in a particular field of social work, advanced field work practice and research. The undergraduate level of study prepares for some beginning positions in social work. Training at the graduate level opens opportunities for work with professional recognition. For full information regarding graduate professional preparation for social work, see the Bulletin of the Graduate School and the special bulletin of the School of Social Work.

The following undergraduate course of study is recommended both for those who desire a four-year course and for those who expect to do graduate study in the School of Social Work. In order to plan the undergraduate work wisely, students are advised to consult with advisers in the offices of the Department of Sociology and Social Work early in their course. The organization of the course aims to give the undergraduate the fundamentals of a broad, modern education.

Junior College

The work of the first two years, taken in the Junior College, consists of the regular academic requirements and fundamental courses in sociology, psychology, and political science. The requirements for admission to the Senior College are the same as those given under the heading *Requirements for Entrance into the Senior College* (page 15).

The specific subject requirements for the first two years are as follows:

1. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
2. Foreign language, 0 to 20 credits according to the schedule given on page 15.

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

3. Ten credits[§] in one of the social sciences or 12 credits in Social Science 1f-2w-3s (Introduction to Social Science). (See page 16.) It is recommended that economics not be chosen to meet this requirement but that the study of that subject be deferred until the junior or senior year when the student will be eligible to take Economics 82, 83, 84.
4. Ten credits[§] in one of the natural sciences or 15 credits in Natural Science 1f-2w-3s (Orientation in the Natural Sciences). (See page 16.) It is recommended that zoology or Natural Science 1-2-3 be taken to meet this requirement.
5. Public Health 3 (Personal Health, 2 credits).
6. Electives to make a total of at least 90 credits for the two years' work, with a scholarship average of C.

The following courses must be included in the two years' work outlined in Items 1-6:

Sociology 1 (Introduction to Sociology, 5 credits).

Sociology 45 (Social Statistics, 5 credits).

Sociology 49 (Social Problems, 3 credits).

Political Science 1-2 or 5 (American Government and Politics, 6 or 5 credits).

Psychology 1-2 (General Psychology, 6 credits).

Recommended electives are: Sociology 2 (Individual and Minority Group Adjustment); History 1-2-3 (Civilization of the Modern World) or Philosophy 1, 2, 3 (Problems of Philosophy, Logic, Ethics); Speech 1-2-3 or 5-6 (Fundamentals of Speech) or Composition 27-28-29 (Advanced Writing).

Senior College

The work of the junior and senior years is subject to the requirements of the course leading to the degree of bachelor of arts which are given under the heading *Requirements in the Senior College* on pages 16 and 17 with this exception:

The requirements of a major sequence and one or two minors (page 17) are replaced by the following interdepartmental sequence:

Sociology 50-51 (The Areas of Social Work); 53 (Elements of Criminology) 91 (Case Method Applied to the Study of Human Problems); 101 (Social Organization); 114 (Rural Social Institutions).

Economics 82, 83 (Competition and Monopoly in Modern Industry and The Inequality of Incomes, unless the student has had Economics 6-7, Principles of Economics or its equivalent.)

Psychology 144-145 (Abnormal Psychology).

Philosophy 70 (Philosophies of Social Reform) or Sociology 145 (Theories of Social Reconstruction). Six credits in Senior College courses in history or political science.

Public Health—at least two Senior College courses.

History or Political Science—at least six credits.

Three credits in Senior College courses in Sociology numbered 100 or above in addition to those specifically required.

Electives to make the required total (normally 90 credits).

Students who are taking this course preliminary to Graduate Social Work may elect, and get credit for, a maximum of 18 credits in the following courses in Art Education and Physical Education which are ordinarily not open to Science, Literature, and the Arts students. This privilege is primarily for students preparing for graduate training in group work directed to leadership in recreation.

Art Education

31, 32, 33, 34 General Handcrafts

73 A, B, C Ceramics

74 Bookbinding

75 Metal

76 Textiles: Fundamental Weaving

81A-B Puppetry

Physical Education for Men

56 Nature and Function of Play

136E Leadership in Community Recreation

141E Administration and Supervision of Public Recreation

142E Group Leadership and Community Organization for Recreation

[§] Or 9 credits in a year course or 9 credits (6 semester credits) of advanced standing.

Physical Education for Women	
54	Camp Leadership
60	Principles of Play
80	Principles of Rhythm

Satisfactory completion of four years' work of this curriculum leads to the degree of bachelor of arts.

7. PREPARATION FOR THEOLOGICAL TRAINING*

The attention of students intending to enter theological seminaries or to take other special training for religious work is drawn to the following liberal arts major:

1. Philosophy 50-51-52. General History of Philosophy (9 credits).
2. Nine credits from these courses in philosophy:
 - 106-107. Philosophy of Plato (6 credits)
 - 114. American Philosophy from Puritanism to Pragmatism (3 credits)
 - 180. History of Religions (3 credits)
 - 181. Psychology of Religion (3 credits)
 - 182. Philosophy of Religion (3 credits)
3. Nine credits from these courses in history:
 - 53-54-55. Medieval European History (9 credits)
 - 53a-54a-55a. Renaissance and Reformation (9 credits)
4. Eighteen credits from the following group: 9 credits in Senior College Greek; 9 credits in Senior College psychology; 9 credits in Senior College economics; 9 credits in Senior College sociology, including Sociology 115 (Religion As a Social Institution).
5. Fifteen additional Senior College credits, making a total of 60 credits in Senior College courses.

NOTE: Several theological seminaries have suggested that students take courses in literature, especially English literature, either in the Junior College or as electives in the Senior College. Attention is also called to courses in Humanities.

Students interested in this program may consult with Mr. Conger (Room 300 Folwell Hall) or Mr. Castell (Room 323 Folwell Hall).

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.) see the University's *Combined Class Schedule*.

Section IV

PREPROFESSIONAL WORK IN SCIENCE, LITERATURE, AND THE ARTS

Many students enter the College of Science, Literature, and the Arts in order to improve their general education and to secure the courses prerequisite to entrance into one of the other colleges of the University. When this plan is contemplated the student should study carefully the requirements for the profession of his choice in order that he will be properly prepared for the transfer. The requirements for the various colleges are listed below.

1. UNIVERSITY COLLEGE

An administrative unit known as the University College has been created under a committee which may register students who find they must cross college lines to obtain a program fulfilling their needs. Any student who finds his needs cannot be satisfied by the program in any one college of the University should consult the chairman of the committee, Mr. J. W. Buchta, who also serves as assistant dean for the Senior College.

Admission to University College is based on the previous record of the student and the program proposed by the student. The program may contain courses in any college or division of the University but must show definite evidence of contributing to the objectives of the student and be deemed worthy of a degree by faculty members consulted by the chairman of the committee.

The degree bachelor of arts or bachelor of science is granted by this unit of the University.

2. SCHOOL OF ARCHITECTURE—SIX-YEAR COURSE*

In this course the student normally is registered for the first four years in the College of Science, Literature, and the Arts and for the last two years in the School of Architecture of the Institute of Technology.

While registered in this college he follows the plan of study prescribed for a bachelor of arts degree with a major in architecture. See the Junior and Senior College requirements as given on pages 15 to 18 of this bulletin and also the section on Architecture in the *Combined Class Schedule*.

The following course should be completed during this period. Required for the major sequence:

Course No.	Title	Credits
Arch. 40	Graphic Representation	5
Arch. 51-52-53	History of Architecture	9
Arch. 57	Building Materials and Methods, Part I	4
Arch. DP I, II	Drawing and Painting, Grades I and II	12
Arch. AD-I, II	Architectural Design, Grades I and II	25

Additional Special Requirements:

Math. 7-6-30	College Algebra, Trigonometry, Analytic Geometry	15
M.&M. 91-92-93	Calculus, Mechanics, Strength of Materials	12
C.E. 38-39-41	Structural Design	9

Junior and Senior College courses to make a total for the bachelor of arts degree of 189 credits.

NOTE—Of the courses listed above, Civil Engineering 38-39-41 (9 credits) is not a part of the work required (normally 180 credits) for the bachelor of arts degree. It is an extra requirement which should be taken as a prerequisite for the work of the last two years of this six-year course in Arts and Architecture.

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

Upon completion of the requirements for the bachelor of arts degree, and subject to approval by the School of Architecture, the student is registered in the Institute of Technology to complete the requirements for a bachelor of architecture degree, as prescribed in the *Bulletin of the Institute of Technology*.

3. SCHOOL OF BUSINESS ADMINISTRATION*

To be eligible for admission to the School of Business Administration, the student must present ninety (90) credits, in addition to credits given for physical education, earned in a recognized college or university with a scholarship average of C or a smaller number of earned credits which, together with quality credits, will total a minimum of ninety (90). One quality credit is granted for every five honor points in excess of the number necessary for a C average.

Quality credits earned in the Junior College may be applied only toward the ninety credits required for admission to the School of Business Administration. In other words, a student who has a surplus of honor points above the number required to complete ninety credits may not apply these for credit in the School of Business Administration. Any excess credits, however, other than quality credits, may be applied toward electives in the School of Business Administration.

The School of Business Administration offers courses leading to the degrees of *bachelor of business administration* and *bachelor of science in economics*. Students preparing to enter the school in pursuit of either of these degrees must satisfy prebusiness requirements as specified below.

A. Junior College Requirements for Admission to Sequences Leading to the Degree of Bachelor of Business Administration

1. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or exemption from the requirement. Nine credits in Communication (Com. 1-2-3) taken at the University of Minnesota will satisfy the English requirement.
2. Nine credits in mathematics or one of the following laboratory sciences: botany, chemistry, geology, physics, zoology, or psychology with laboratory. Fifteen credits in Orientation in the Natural Sciences (Nat. Sci. 1-2-3) or ten credits in The Physical World (Nat. Sci. 4-5-6) or ten credits in General Biology (Nat. Sci. 7-8-9), if taken at the University of Minnesota, will satisfy the science requirement.
3. Nine credits in one of the following social sciences: anthropology, geography, history, political science, or sociology.[†]
4. Ten credits in Principles of Economics (Econ. 6-7).
5. Sufficient electives to complete the minimum of ninety (90) credits required for admission. The following courses should, if possible, be taken during the first two years, for most of them are prerequisites to certain courses in the core group:

- Industrial History (Econ. 1)
- Industrial Production and Organization (Econ. 2)
- Elements of Money and Banking (Econ. 3)
- Elements of Statistics (Econ. 5)[‡]
- Elements of Accounting (Econ. 20)^{||}
- Principles of Accounting (Econ. 25-26)

Students who do not elect the above courses in money and banking, statistics, and accounting during the freshman and sophomore years may substitute the following:

- Money and Banking (B.A. 57) Statistics Survey (B.A. 70)
- Elementary Accounting: Combined Course (B.A. 54-55)

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

† Social Statistics (Soc. 45) not accepted in fulfillment of this requirement.

‡ Credit not granted in Econ. 5 to students who have had Social Statistics (Soc. 45).

|| Students who have had a high school course or experience in bookkeeping will be admitted to Econ. 25 by passing a placement test. For other students Elements of Accounting (Econ. 20) is a prerequisite to Econ. 25.

In addition certain courses are required in special sequences in the school. These course prerequisites should be included in the Junior College program wherever possible. The major sequences and special course prerequisites are as follows:

1. Accounting: Mathematics of Investment (Math. 20), (prereq. Math. 8, or 6 and 7, or 15 and 16)
2. Advertising: General Psychology (Psy. 1-2)
3. Department Store Training: General Psychology (Psy. 1-2); Typewriting (Econ. 32-33)‡
4. Foreign Trade: General Psychology (Psy. 1-2); 9 credits in political science; reading knowledge of a foreign language
5. Finance: Mathematics of Investment (Math. 20), (prereq. Math. 8, or 6 and 7, or 15 and 16)
6. Industrial Administration: (See Bulletin of the Institute of Technology)
7. Industrial Relations: General Psychology (Psy. 1-2)
8. Insurance: General Psychology (Psy. 1-2); Mathematics of Investment (Math. 20), (prereq. Math. 8, or 6 and 7, or 15 and 16)
9. Merchandising: General Psychology (Psy. 1-2)
10. Office Management: General Psychology (Psy. 1-2); Typewriting (Econ. 32-33-34)‡
11. Secretarial and Supervisory Training: General Psychology (Psy. 1-2); Typewriting (Econ. 32-33-34)‡; Shorthand (Econ. 37-38-39)‡
12. Traffic and Transportation: General Psychology (Psy. 1-2); Geography of Commercial Production (Geog. 41)

DISTRIBUTION OF COURSES

Of the required and elective courses in economics, Economics 1 and 2, which are strongly recommended but not required, belong in the freshman year; Economics 3 may be taken in the freshman year (to make with Economics 1 and 2 such a sequence as 1f-2w-3s), or may be taken later; Economics 5, 6-7 and 20, 25-26 belong in the sophomore year, but students are permitted to take Economics 20 when they are third quarter freshmen.

Of the courses taken to meet the requirements of (1) English, (2) social science, (3) mathematics or laboratory science, freshmen should take at least two and thus leave not more than one for the sophomore year. To meet the third of these requirements, students who intend to specialize in accounting, banking, or statistics should take mathematics instead of natural science. Indeed, mathematics is recommended for all students planning to enter the School of Business Administration, either as a subject to meet this requirement or as an elective.

Courses in English, mathematics, all the laboratory sciences, and all of the social sciences are open to freshmen.

Of other courses recommended above, in Items 1-12, Psychology 1-2 (General Psychology) belongs in the sophomore year; Economics 32-33 (Typewriting) may be taken as early as the student's first quarter in college, with the instructor's permission; foreign language, which is required in the foreign trade sequence, may be taken as early as the beginning of the freshman year.

B. Junior College Requirements for Admission to Sequences Leading to the Degree of Bachelor of Science in Economics

Economics Sequence	Credits
English (Comp. 4-5-6 or English A-B-C or Com. 1-2-3).....	9 or 15
Mathematics	10
Elements of Money and Banking (Econ. 3)*.....	5
Principles of Economics (Econ. 6-7)	10
Elements of Statistics (Econ. 5)*§	5
Political Science or History	9
Philosophy (Philosophy 1 or 2)	5
Additional mathematics or laboratory sciencee	10
Electives	27 or 21
	—
	90

* Students who do not elect the above courses in money and banking, statistics, and accounting during the freshman and sophomore years may substitute the following: Money and Banking (B.A. 57); Statistics Survey (B.A. 70); Elementary Accounting: Combined Course (B.A. 54-55).

† A laboratory fee of \$2.50 will be required of students who register for one or more of the courses in secretarial training.

§ Credit not granted in Econ. 5 to students who have had Social Statistics (Soc. 45).

Statistics Sequence

English (Comp. 4-5-6 or English A-B-C or Com. 1-2-3	9 or 15
Trigonometry (Math. 6)	5
College Algebra (Math. 7)	5
Analytic Geometry (Math. 30)	5
Elements of Money and Banking (Econ. 3)*	5
Principles of Economics (Econ. 6-7)	10
Elements of Statistics (Econ. 5)*§	5
Political Science or History	9
Philosophy (Philosophy 1 or 2)	5
Additional mathematics	5
Elements of Accounting (Econ. 20)* 	3
Principles of Accounting (Econ. 25-26)*	6
Electives	18 or 12
	—
	90

4. SCHOOL OF DENTISTRY**TWO-YEAR PREDENTAL COURSE****

The two-year predental course required for admission to the School of Dentistry is a part of the six-year course in dentistry leading to the degree of doctor of dental surgery. During the two years of prescribed work, students are registered in the College of Science, Literature, and the Arts and subject to its regulations. It is desirable that students should have had chemistry and higher algebra in high school. The required courses are listed below:

1. Inorganic Chemistry 1-2-11 or 4-5-11 or equivalent (General Inorganic Chemistry and Semimicro Qualitative Analysis, 12 credits)
2. Organic Chemistry 1-2 (Elementary Organic Chemistry, 8 credits)
3. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
4. Physics 1a-2a-3a (Introduction to Physical Science, with laboratory included, 12 credits).
5. Zoology 1-2-3 (General Zoology, 10 credits)
6. Drawing, economics, history, Latin or a modern language (high school or college), political science, psychology, sociology, and speech are recommended as electives to make up a total of 90 quarter credits. A minimum grade average of C is required for entrance to the School of Dentistry.

It is recommended that the two years' work be distributed as follows:

First year—Chemistry 1-2-11 or 4-5-11 (12 credits); English 4-5-6 (9 credits) or English A-B-C (15 credits) or Com. 1-2-3 (9 credits); Zoology 1-2-3 (10 credits); one or more elective courses.

Second year—Organic Chemistry (8 credits); Physics 1a-2a-3a (12 credits); elective subjects to make a total of 90 credits for the two years' work.

**FOUR-YEAR COURSE LEADING TO THE DEGREES OF GRADUATE
DENTAL HYGIENIST AND BACHELOR OF ARTS**

This program consists of two years of work in the School of Dentistry and two years in the College of Science, Literature, and the Arts. When students have completed the work for dental hygienists, 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; and they may qualify for the degree of bachelor of arts provided (1) that they complete 90 credits of work subject to the rules regularly governing Senior College

* Students who do not elect the above courses in money and banking, statistics, and accounting during the freshman and sophomore years may substitute the following: Money and Banking (B.A. 57); Statistics Survey (B.A. 70); Elementary Accounting: Combined Course (B.A. 54-55).

§ Credit not granted in Econ. 5 to students who have had Social Statistics (Soc. 45).

|| Students who have had a high school course or experience in bookkeeping will be admitted to Econ. 25 by passing a placement test. For other students Elements of Accounting (Econ. 20) is a prerequisite to Econ. 25.

** For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

students and (2) that these 90 credits include courses to meet the Junior College group requirements* which have not already been met and also the major and minor requirements which are stated on pages 15-18.

**SEVEN-YEAR COURSE IN ARTS AND DENTISTRY LEADING TO THE DEGREES OF
BACHELOR OF ARTS† AND DOCTOR OF DENTAL SURGERY‡****

During the first three years of this course, the student does his work in the College of Science, Literature, and the Arts, subject to the regulations of the college, and must secure at least 135 credits, with a scholarship average of C for all courses taken. (This number of credits required may be reduced by application of the "quality credit" rules given on page 10.) At least 30 credits§ must be in Senior College courses. He must complete the requirements for admission to the Senior College, which are given on pages 15-16, and also the work in chemistry, physics, and zoology prescribed for admission to the School of Dentistry.

During his third year, the student elects work in this college, subject to the approval of the assistant dean for the Senior College. The work of the freshman and sophomore years in the School of Dentistry, exclusive of technical and practical work, when completed according to the standards required by that school, counts as the equivalent of the fourth year (45 credits of the Arts course).

5. COLLEGE OF EDUCATION

All students who desire to receive a state teacher's certificate upon graduation from the University of Minnesota must be graduates of the College of Education. In most cases students register in that college at the beginning of their junior year. In certain special four-year and five-year curricula, however, they should register in the College of Education at the beginning of their freshman year or as soon thereafter as they have made their curriculum choice. The special four-year curricula are:

Art Education	Physical Education for Men
Elementary Education	Physical Education for Women
Industrial Education	Recreational Leadership
Kindergarten, Primary, and Nursery	Teachers of Handicapped Children
School Education	Visiting Teacher
Music Education	

Special five-year curricula leading to the degree of master of education are in the following fields:

Agricultural Education	Music Education
Art Education	Physical Education for Men
Home Economics Education	Physical Education for Women
Industrial Education	

Other five-year programs are being developed.

In curricula for Agricultural and Home Economics Education the preliminary work is done in the College of Agriculture, Forestry, and Home Economics. (See the bulletin

* There are five group requirements (English, Foreign Language, Social Science, Natural Science, and Public Health) which are normally met by the students before they enter the Senior College. (See page 15.) Three of these group requirements are satisfied by English 4-5-6, Zoology 1-2-3 and Public Health 3 or 50 which are required in the Course for Dental Hygienists; and a third one is partially satisfied by Sociology 1, which is also required in that curriculum. Under certain conditions, students may be exempted from the foreign language requirement by special permission of the Students' Work Committee.

† Only students who have completed the required work in the College of Science, Literature, and the Arts before entering the professional school will be permitted to avail themselves of the privilege of securing the B.A. degree in this combined course.

§ Thirty is the number usually required. For some students it may be reduced by special permission of the assistant dean for the Senior College.

|| From the College of Science, Literature, and the Arts.

** From the School of Dentistry.

of that college or the Bulletin of the College of Education.) In curricula for Nursing Education and Public Health Nursing the student is registered for five quarters in the College of Science, Literature, and the Arts, and in the School of Nursing for two and a half years. After that she registers for three quarters in the College of Education or in the Medical School. (See page 40.)

For all other general and special curricula the prescribed work of the first two years is done in the College of Science, Literature, and the Arts.

The following general requirements apply to all students majoring in academic subjects and entering the College of Education at the beginning of their junior year:

1. A minimum of 93 credits for men and 95 credits for women, carried with a scholarship average of C. (For each five honor points in excess of the number necessary for a C average, the number 93 or 95 is diminished by one.) For men 3 of these credits and for women 5 credits shall be in physical education. (No credit is granted for physical education courses by the College of Science, Literature, and the Arts, but upon transfer to the College of Education, the student will receive the credits and honor points earned in those courses.)

2. The student must have completed 6 credits in General Psychology.

3. Health education—All students in the College of Education, before graduation, are required to take a sequence of courses in (a) personal health, (b) community health, and (c) school health; but students will be exempted from either or both of the first two requirements on the basis of knowledge shown through placement tests. The number of credits will depend upon possible exemptions and the sequence of courses chosen. A minimum of six credits covering all three fields is required unless students are exempted from (a) and (b).

Junior College courses which may be taken to meet the requirements in personal health are as follows: Public Health 3 (Personal Health, 2 credits) and Public Health 4 (Health Problems of Adult Life, 2 credits); General College 10C (Human Biology). The course Public Health 50 (Public and Personal Health, 3 credits) will meet the requirements of (a) and (b).

4. At the time of entrance to the College of Education a student must present a certificate from the Students' Health Service indicating that he is free from physical defects that would prevent the successful pursuit of educational work.

5. Before entrance to the College of Education each student will be given a general examination designed to show his capacity to pursue professional curricula in education.

CURRICULA WHICH INCLUDE PRELIMINARY WORK IN THE COLLEGE OF SCIENCE, LITERATURE, AND THE ARTS

I. A General Course Preliminary to the College of Education with Majors and Minors in Academic Subjects[†]

Students preparing to teach academic subjects in senior high schools and to qualify for the state high school standard certificate must have one major and one or more minors in subjects taught in high schools. The College of Education offers majors and minors in the following fields: English, speech, journalism; German, Latin, French, Scandinavian, Spanish; library science; geography, history, political science, sociology; botany, chemistry, physics, zoology; public health; mathematics. The specific requirements for the different majors and minors are given in the Bulletin of the College of Education and in the departmental statements in the University's *Combined Class Schedule* for 1946-47. Special combinations of majors and minors are provided in the natural science and social studies curricula.

[†] For detailed information about curricula see the *College of Education Bulletin*; for information about the individual subjects of study in these curricula (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.), see the University's *Combined Class Schedule*.

The selection of suitable majors and minors and the most desirable combinations of subjects is very important in securing a high school teaching position. The College of Education has prepared a bulletin showing the demands for teachers in the various types of work, the fields of high school teaching in which there are the best prospects for securing positions, the best combinations of majors and minors, the personal and scholastic qualifications a prospective teacher should have, and other facts which may affect the choice of vocation or the choice of curriculum. Students are urged to secure a copy of this bulletin and to consult an adviser in the College of Education as early in their course as possible.

Before entering the College of Education the student must meet certain specific requirements in addition to those listed above. These requirements *do not apply* to the special four-year and five-year curricula.

1. The credits presented for entrance, exclusive of credits in physical education, must be earned in the following groups of college courses:

Group A English

Group B Foreign languages: German, Greek, Latin, Romance Languages, Scandinavian

Group C Social sciences: Anthropology, Economics, Geography, History, Political Science, Sociology

Group D Natural sciences: Astronomy, Botany, Chemistry, Geology and Mineralogy, Physiology, Physics, Psychology, Zoology

Group E Mathematics

Group F Journalism, Fine Arts, Speech, or such other courses in other colleges or departments of the University as are approved by the College of Education

2. Within the general requirements listed above the student during his high school and Junior College years must have completed the required work indicated under A, B, C, and D below. At least 20 credits in Groups B, C, and D must be completed in college.

Subject	In High School	In College
A. English	3 years	and 9 credits in composition**
B. Language*	3 years in one language or 2 years in one language or 1 year in one language	or 20 credits in one language and 10 credits in same language and 15 credits in same language
C. Social sciences	2 years	or 10 credits† in one department
D. Natural sciences	2 years	or 10 credits† in one department§

NOTE—In lieu of the specific course requirements indicated in the language group a student may take a comprehensive examination in an elected language to be conducted by a committee appointed by the dean of the College of Education.

3. Within the total credits stipulated under paragraph 1 a student must meet, in fields of study which are represented in prevailing high school curricula, the following requirement: at least 15 credits in a major field and at least 10 credits in each of two minor fields. The purpose of this requirement is to prepare the student for the study of advanced courses necessary to the completion of satisfactory teaching majors and minors.

* For students who enter this University with advanced standing, the number of credits required may be less than that indicated in this schedule. Any course of 9 credits (6 semester credits) may be substituted for the corresponding 10-credit course here.

† Or 9 credits in a year-course or 9 credits (6 semester credits) of advanced standing.

§ Fifteen credits in Natural Science 1f-2w-3s (Orientation in the Natural Sciences) will be accepted as a substitute for 10 credits in one natural science.

|| Twelve credits in Social Science 1f-2w-3s (Introduction to Social Science) will be accepted as a substitute for 10 credits in one social science.

** At the University of Minnesota, this requirement may be met by completing English A-B-C (15 credits) or Composition 4-5-6 (9 credits) or Communication 1-2-3 (9 credits). Some students are exempt from the requirement.

*II. Courses Preliminary to the Four- and Five-Year Specialized
Curricula in the College of Education*

The College of Education, in its undergraduate and graduate curricula, provides training for many different kinds of educational work; for positions as superintendents of schools, high school and elementary school principals, elementary school supervisors, teachers in normal schools and teachers colleges, educational counselors, school psychologists; teachers of special subjects and of special classes; school librarians; visiting teachers; positions in junior high schools, elementary schools, kindergartens, nursery schools, public health nursing, nursing education, recreational leadership, and school health work. In all cases except the special four-year and five-year curricula previously mentioned, the preliminary work is done in the College of Science, Literature, and the Arts. The Junior College work, however, is selected to meet the professional needs, and specific courses are required. The student should consult the Bulletin of the College of Education for the requirements of his curriculum and should confer with the adviser for that curriculum early in his course.

The specialized curricula offered by the College of Education based upon two years' work in the College of Science, Literature, and the Arts are:

Commercial Education	Social Studies
Library Methods	Speech Pathology
Natural Sciences	

Credits earned in required courses in Art Education, Industrial Education, and Physical Education will be granted upon transfer to the College of Education.

Professional training for administrative and supervisory positions, the teaching of professional subjects, positions as school counselor and school psychologist, and for other specialized work is secured by taking a fifth year in the Graduate School with a major in some field of education.

*III. Course Preliminary to Nursing Education and Public Health Nursing in the
College of Education and in the Medical School. (See page 40.)*

6. LAW SCHOOL*

Students in the University preparing to enter the Law School register in the College of Science, Literature, and the Arts. Ninety credits of academic work are required for admission to the Law School. A scholarship average of C for all courses taken up to the time of admission is also required. Excess honor points do not reduce the number of credits required.

Before trying to plan their college course preliminary to the Law School, students should read carefully the statements about the combined courses in Arts and Law and in Business Administration and Law described below.

The following course has been outlined by the faculty of the Law School for the two years of college study required. The "Humanities" courses may be taken in place of, or in addition to, the courses in Political Science.

1. Accounting: 20-25-26 (Elements and Principles, 9 credits) or 27 (Survey, 5 credits)¶
2. English: A-B-C (Freshman English, 15 credits) or 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits)
3. Economics: 6-7 (Principles of Economics, 10 credits)
4. History: 70-71-72 (English Constitutional History, 9 credits)

* For detailed information about the individual subjects of study in this curriculum (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.) see the University's *Combined Class Schedule*.

¶ This course in accounting is a special course for prelaw students. It is not open to students who have had Economics 20 (Elements of Accounting, 3 credits). Students who have taken that course may get more work in accounting by taking Economics 25-26 (Principles of Accounting, 3 credits per quarter).

5. Humanities: 1-2-3 (Humanities in the Modern World, 15 credits)
6. Philosophy: 1A, 2A, 3A (Selected Problems of Philosophy, Logic, Ethics, 9 credits) or 1, 2, 3, (Problems of Philosophy, Logic, Ethics, 15 credits)
7. Political Science: 7 (Comparative European Government, 3 credits); 9-10 (Fundamentals of Government and Politics, 6 credits) or 15 (Elements of Political Science, 3 credits); 25 (World Politics, 3 credits)
8. Psychology: 1-2 (General, 6 credits)
9. Electives to make the total at least 90 credits. Foreign language (0 to 20 credits, according to the schedule given in paragraph 1B on page 15), natural science (10 or 15 credits as indicated in paragraph 1D on page 16), and Public Health 3 (Personal Health, 2 credits) should be included in these electives by students taking the combined course leading to the degree of bachelor of arts and bachelor of laws which is outlined below. Such students may take Philosophy 50 and 50A, 52 and 52A (courses in the general history of philosophy) instead of Philosophy 1 and 3. Other suggested electives are: English History or Civilization of the Modern World, Modern Philosophies of Social Reform (Philosophy 70), and other courses in Anthropology, Economics, Political Science, Sociology, and Speech.

It is recommended that the two years' work be distributed as follows:

First year—Composition 4f-5w-6s (9 credits) or English Af-Bw-Cs (15 credits) or Communication 1-2-3 (9 credits); Philosophy 2Af-1Aw-3As (9 credits); Humanities 1f-2w-3s (15 credits) or Political Science 15f, 25w, 7s (9 credits); History 4f-5w-6s (English History, 9 credits) which is not required but is recommended as an elective course in preparation for English Constitutional History.

Second year—Economics 6f-7w, 27s (15 credits); History 70f-71w-72s (9 credits); Psychology 1f-2w (6 credits); Humanities or Political Science not taken in the first year; elective courses to make a total of 90 credits for the two years' work.

COMBINED COURSES IN ARTS, BUSINESS ADMINISTRATION, AND LAW

There are three of these combined courses, two in Arts and Law and one in Business Administration and Law.

With respect to the degrees mentioned in the two combined courses in Arts and Law, the bachelor of arts degree is conferred on recommendation of the College of Science, Literature, and the Arts. Two degrees are conferred on recommendation of the Law School, namely a nonprofessional degree of bachelor of science in law, and the professional degree, bachelor of laws. The normal courses for these degrees are as follows: Students who have a B.A. or equivalent degree when they enter the Law School may qualify for the professional degree, bachelor of laws, in three years. Students who do not have a degree when they enter the Law School first register for the degree of bachelor of science in law for which the course is two years. Students who have obtained the degree of bachelor of science in law with an average grade of 73, may qualify for the professional degree, bachelor of laws, in two years.

SIX-YEAR COMBINED COURSE IN ARTS AND LAW LEADING TO THE DEGREES OF BACHELOR OF SCIENCE IN LAWS§ AND BACHELOR OF LAWS§

This course requires two years of college work and four years in the Law School.

Students who complete the two years of college work required for admission to the Law School, stated above, in the College of Science, Literature, and the Arts of this University, or in some other accredited college, and have 90 credits, exclusive of quality credits, with a scholarship average of C for all courses taken, become eligible for the degree of bachelor of science in law on completion of two years in the Law School. Law work may be selected to suit the needs of the student, and may be restricted to commercial law for students desiring a preparation for business. Students completing this course may register for the degree of bachelor of laws under the conditions above stated, and may thus secure the two degrees in six years.

§ From the Law School.

SEVEN-YEAR COMBINED COURSE IN ARTS AND LAW LEADING TO THE DEGREES OF BACHELOR OF ARTS§ AND BACHELOR OF LAWS§

This course requires three years of college work and four years in the Law School. The first two years of college work may be taken in any accredited college, but the third year must be taken in the College of Science, Literature, and the Arts of this University. All three years of college work may be taken before entering the Law School, or two years before entering the Law School, and the third year after the completion of one year or more of law work. The latter plan enables the student to select college work in which he may have become interested during his law course.

Students in this combined course must, before transferring to the Law School, complete the requirements for admission to the Senior College of the College of Science, Literature, and the Arts, stated on pages 15-16. These requirements include foreign language, natural science, and Public Health 3 (Personal Health, 2 credits). See paragraphs 1B, 1D, 1E, on pages 15-16. The student must secure at least 90 credits with a scholarship average of C for all courses taken. He must also secure, either before entering the Law School or after completing one year or more of the law course, 45 additional college credits, of which at least 30† must be of Senior College grade, with a C average. This number of credits required may be reduced by application of the "quality credit" rules given on page 10. This third year of work must be approved by the assistant dean for the Senior College of the College of Science, Literature, and the Arts.

The degree of bachelor of arts is conferred when the 135 credits of college work specified above and at least the first year of the course in the Law School, with the standing required by that school for graduation, are completed. The degree of bachelor of laws is conferred when the work of all seven years is completed.

**SEVEN-YEAR COMBINED COURSE IN BUSINESS ADMINISTRATION AND LAW
LEADING TO THE DEGREES OF BACHELOR OF BUSINESS ADMINI-
STRATION** AND BACHELOR OF LAWS§**

This program consists of two years of prelaw and prebusiness work as specified below, approximately one and one-half years in the School of Business Administration instead of the full two-year program, and three and one-half years in the Law School instead of the full four-year program, thus qualifying for both the bachelor of business administration and the bachelor of laws degree in seven years.

The prelaw and prebusiness work must amount to 90 credits, exclusive of quality credits, and shall include the regular prelaw course†† except Economics 27 and in addition Economics 5 (Elements of Statistics) and Economics 20, 25-26 (Elements of Accounting and Principles of Accounting).

There are two options for the remaining five years:

- A. The first-year exclusively in the Law School and the second year exclusively in the School of Business Administration, or vice versa. The third and fourth years exclusively in the Law School and the fifth year to be divided between the two schools, approximately half of the program being in each school.
- B. The distribution of both the business administration and the law course throughout the five-year program.

The course requirements in Business Administration include the general core group courses exclusive of Business Law (B.A. 51-52-53). This amounts to a total of 36 credits. Substitutes, such as Economics 185 for B.A. 77, B.A. 184 for B.A. 89, may be made with the approval of an adviser. The remaining courses—approximately 32 credits—may be

† Thirty is the number usually required. For some students it may be reduced by special permission of the assistant dean for the Senior College.

§ From the Law School.

** From the College of Science, Literature, and the Arts.

** From the School of Business Administration.

†† See page 35 of this bulletin.

elected from the Senior College courses in economics and business administration with the approval of an adviser.

The course requirements in the Law School include all the courses of the first and second years, the required courses of the third and fourth years, and electives sufficient with the required courses to make a total of approximately 68 credits in those years.

Students will be registered for the joint program in the Law School and the School of Business Administration throughout the five-year period. Their programs will be subject to approval of an adviser from the Law School and an adviser from the School of Business Administration.

7. MEDICAL SCHOOL†

The Medical School offers five principle courses: one for physicians, one for nurses, one for public health nurses, one for medical technologists, and one for physical therapists. Each serves a different purpose and the requirements of each branch should be read carefully.

COURSES LEADING TO THE DEGREE OF DOCTOR OF MEDICINE*

There are two eight-year courses of study which lead to the degree of doctor of medicine. Each of them requires three full years of college work (135 credits exclusive of quality credits) which must include the courses prescribed for admission to the Medical School. In the first course the student may freely choose elective subjects to make up the total of 135 credits. He will receive the degree of bachelor of science after he completes two years of work in the Medical School. In the second of the two courses, the student must meet the requirements for admission to the Senior College of Science, Literature, and the Arts which he should enter, normally, after two years of residence in the Junior College. His program for the third year must be submitted for approval to the assistant dean for the Senior College. He will receive the degree of bachelor of arts after he completes satisfactorily one year of work in the Medical School.

Residence

First choice is given to native residents of Minnesota; second choice is given to residents of adjoining states which do not have medical schools; residents of states other than these will be admitted to the Medical School only under exceptional circumstances. Applicants who become residents of the state after graduating from high school will be considered with the last named group.

EIGHT-YEAR COURSE IN SCIENCE AND MEDICINE LEADING TO THE DEGREES OF BACHELOR OF SCIENCE,‡ BACHELOR OF MEDICINE,‡ AND DOCTOR OF MEDICINE‡

The minimum requirements for admission to the Medical School are three full years of college work, amounting to 135 credits,§ with a scholarship average of C.

The premedical work, for which the student is registered in the College of Science, Literature, and the Arts, must include the required courses listed below or their equivalent as approved by the Students' Work Committee of the Medical School.

* Students who want a college degree before entering the Medical School may include all of the required premedical subjects in the "Course Leading to the Degree of Bachelor of Arts" for which the requirements are stated on pages 15-18. They may find it to their advantage to take the course with a liberal arts major rather than a major in one department. (See page 17.)

† For detailed information about the individual subjects of study in these curricula (course numbers and titles, credits, prerequisites, schedule of hours and days, etc.) see the University's *Combined Class Schedule*.

‡ The following quotation from the bulletin of the Medical School applies to students who do their premedical work here. "The total number of credits for admission to the Medical School required of students who do their premedical work at Minnesota may, at the discretion of the Admissions Committee, be diminished in the case of superior students, under the quality credit rule of the College of Science, Literature, and the Arts. Required courses may not be omitted unless special permission is obtained from the Admissions Committee of the Medical School."

§ From the Medical School.

Required Courses

English A-B-C (Freshman English, 15 credits) or English 4.5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.

Zoology 1-2-3 (General Zoology, 10 credits) and Zoology 83 (Introduction to Genetics and Eugenics, 3 credits).

Chemistry—Inorganic Chemistry 1-2-11 or 4-5-11 or equivalent (General Inorganic Chemistry and Semimicro Qualitative Analysis, 12 credits); Analytical Chemistry 7 (Quantitative Analysis, 4 credits); Organic Chemistry 1-2 (Elementary Organic Chemistry, 8 credits); and Physical Chemistry 107 (Elementary Physical Chemistry, 6 credits).

Mathematics—as a prerequisite for physics: Course 1 (Higher Algebra, 5 credits) unless the student has had high school higher algebra; Course 15-16 (Elementary Mathematical Analysis, 10 credits) or equivalent.

Physics 4-5-6 (General Physics, 15 credits).

Foreign Language—24 credits or a reading knowledge of any modern foreign language.

Psychology 1-2 (General Psychology, 6 credits).

The following subjects are recommended as electives: Introduction to Animal Parasitology, Comparative Anatomy, Agricultural Biochemistry, Anthropology, Astronomy, Botany, Composition, Drawing, Economics, English, Geography, Geology, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Sociology, and Speech.

General Bacteriology, a Medical School subject, Zoology 21 (Histology), and Zoology 50 (Introduction to Comparative Physiology) may not be presented for admission to the Medical School.

For admission to the Medical School, a candidate's record must show a number of honor points at least equal to the total number of credits in the group of required subjects; also a number of honor points at least equal to the total number of credits in all subjects. (A higher average is exacted of nonresident applicants.) He must take a medical student's aptitude test and a battery of tests for premedical students given by the University Counseling Bureau. The scores of these tests are considered by the Students' Work Committee in advising students and determining admission. A student applying for admission should file credentials at least six months before the admission date of the class for which he applies. All admissions are subject to the limited registration regulations of the Medical School.

The work during the fourth year is taken in the Medical School and is credited toward the degree of bachelor of science. To secure this degree, a student, in addition to the requirements for admission, must have completed the first two years of the medical course with a "C" average.

Students who have completed elsewhere three or more years of collegiate or university work which includes the required subjects specified above and which is in other respects the full equivalent of the three years of academic work required in this eight-year course, will be awarded the degree of bachelor of science on recommendation of the faculty of the Medical School, provided they meet the scholarship requirements stated above.

The foregoing regulations governing the quality and amount of premedical training required for admission to the Medical School will be enforced for those who present the minimum amount of work. In cases of mature and superior students, especially such as have taken degrees and have made special progress along some line (even tho it may not have been closely related to medicine), concessions may be made. Such cases will be considered individually upon petition to the dean of the Medical School.

A broad, general education is considered fundamental to medical study, but it should be borne in mind that no student can pursue the medical course to advantage without knowledge of biology, chemistry, and physics.

EIGHT-YEAR COURSE IN ARTS AND MEDICINE, LEADING TO THE DEGREES OF
 BACHELOR OF ARTS,[†] BACHELOR OF MEDICINE,[§] AND
 DOCTOR OF MEDICINE^{||}

During the first three years of this course, the student is registered in the College of Science, Literature, and the Arts, subject to the regulations of the college, and must secure at least 135 credits, with a scholarship average of C. (This number of credits may be reduced* by application of the "quality credit" rules given on page 10.) At least 30 credits^{††} must be in Senior College courses. He must complete the requirements for admission to the Senior College, given on pages 16-17, and also the work in chemistry, mathematics, physics, psychology, zoology, and foreign language prescribed for the eight-year course in Science and Medicine (page 38).^{§§}

During this third year, the student elects work in this college subject to the approval of the assistant dean for the Senior College. The first year of the course in the Medical School, when completed with the standards required by that school, counts as the equivalent of the fourth year (45 credits) of the Arts course.

For admission to the Medical School, a student's record must show a number of honor points at least equal to the number of credits in the group of required subjects; and also a number of honor points at least equal to the total number of credits. A higher standard is exacted of nonresident applicants. The student must be accepted by the Medical School under the limited registration regulations of that school. Exceptions to these requirements may be granted to superior students on petition to the Students' Work Committee of the Medical School.

COURSE PRELIMINARY TO NURSING EDUCATION AND PUBLIC HEALTH NURSING
 IN THE COLLEGE OF EDUCATION AND IN THE MEDICAL SCHOOL^{|||}

For the first five quarters of the bachelor of science curriculum in Nursing Education and Public Health Nursing the student is registered in the College of Science, Literature, and the Arts. The curriculum is planned to prepare the student not only for bedside nursing but also for administrative, supervising, and teaching positions in schools of nursing and hospitals; for such public health nursing positions as visiting nursing, school nursing, health teaching, infant welfare, rural and industrial nursing; and for combined positions in secondary schools involving both nursing and teaching. This curriculum is open to high school graduates who meet the entrance requirements of the College of Science, Literature, and the Arts.

Curriculum—The curriculum is divided into three parts as follows:

- Part I Five quarters in the College of Science, Literature, and the Arts either in the University of Minnesota or some other accredited university or college.
- Part II Ten quarters in the School of Nursing (first quarter on the campus, and nine quarters in clinical divisions). (See School of Nursing Bulletin.)
- Part III Three quarters in the College of Education or in the Medical School. (School of Public Health) (See College of Education and School of Public Health Bulletins.)

* For a statement about "quality credits" and admission to the Medical School, see the § footnote on page 38.

† From the College of Science, Literature, and the Arts.

§ From the Medical School.

|| Only students who have completed the required work in the College of Science, Literature, and the Arts before entering the professional school will be permitted to avail themselves of the privilege of securing the B.A. degree in this combined course.

†† Thirty is the number usually required. For some students it may be reduced by special permission of the assistant dean for the Senior College.

§§ For recommended electives and the restrictions governing them, see page 39.

||| This program requires five school years but actually only four and three-fourths calendar years.

*Part I—College of Science, Literature, and the Arts
(Five Quarters)*

During the first five quarters the student must complete 75 credits and enough of the required courses listed below so that all required courses will be completed by the end of the sixth quarter (first quarter in the School of Nursing). She must earn an average of one honor point per credit for all credits earned in the prenursing period.

A. Required Courses

- English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
- Sociology 1 (Introduction to Sociology, 5 credits).
- Sociology 49 (Social Problems, 3 credits).
- Psychology 1-2 (General Psychology, 6 credits).
- Child Welfare 40 or Home Economics Education 90 (Child Training, 3 credits).
- Public Health 3 (Personal Health, 2 credits).
- Anatomy 3 (Elementary Anatomy, 3 credits).
- †Physiology 50 (Physiological Chemistry, 4 credits).
- Physiology 60 (Human Physiology, 6 credits).
- †Bacteriology 53 (General Bacteriology, 5 credits) or Bacteriology 101-102 (Medical Bacteriology, 9 credits).
- Home Economics 30 or 31 (Introduction to Nutrition, 2 or 3 credits) or
Nursing 10 (Introduction to Nutrition, 1 credit).
- Physical Education (5 credits).

Inorganic Chemistry and Zoology are not required but are prerequisites for the preferred courses in Physiological Chemistry 50, Human Physiology 60 and Bacteriology 53. It is therefore strongly recommended that students take these prerequisite courses in order to qualify for the more inclusive science courses.

B. Elective Courses. (Thought should be given to possible fields of specialization in choosing electives.

Chemistry 1 and 2, or 4 and 5, or 6 and 7	Philosophy 3
Zoology 1-2-3	Anthropology 41
Zoology 22, 83	Political Science 1-2-3
History 1-2-3	Humanities or other electives as desired
Physics	

Advisers from the School of Nursing faculty are assigned to prenursing students in the College of Science, Literature, and the Arts. Before registering each quarter, students should have their programs reviewed by their adviser in the School of Nursing.

Students from other universities or colleges should, as a rule, transfer to the University of Minnesota at the end of their first academic year if they wish to complete the Bachelor of Science Curriculum in the minimum time. Students may, however, transfer at any point in the prenursing program. Those who wish to complete all prenursing requirements before transferring to the University of Minnesota may do so provided they complete sufficient required courses as listed above. These students should confer with the office of admissions and records early to ascertain their exact standing. They are urged to consult with the School of Nursing at the end of their freshman year.

A suggested two-year program, including the preferred electives of chemistry and zoology, follows: The choice of electives and sequence of courses may be varied in accordance with the individual needs and interests of the students.

First Year

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>
English 4f or Af	English 5w or Bw	English 6s or Cs
Chemistry 1f or 4f or 6f	Chemistry 2w or 5w or 7w	Sociology 1s
Zoology 1f	Zoology 2w	Zoology 3s
Public Health 3f	Physical Education	Anatomy 3s
Physical Education	Electives*	Physical Education
Electives*		

* Electives should be chosen to make, on the average, a program of 15 credits per quarter in addition to physical education. Social science should be chosen in the freshman year if possible. Electives in social science, natural science, and child welfare are urged, with special attention to the possible fields of specialization.

† Preferred courses.

Second Year

<i>Fall</i>	<i>Winter</i>	<i>Spring (Part II)</i> (School of Nursing—1st quarter)
Psychology 1f	Psychology 2w	
Physiology 50f	Child Welfare 40w or	
Physical Education	Home Economics Ed. 90w	History of Nursing 1s
Bacteriology 53f	Home Economics 31w	Nursing 12s
Electives*	Sociology 49w	Physiology 60s
	Physical Education	Pharmacology 8A
		Electives*

COURSE IN MEDICAL TECHNOLOGY

The Course in Medical Technology is a four-year course given in the College of Science, Literature, and the Arts and in the Medical School. The degree of bachelor of science is awarded upon completion of the prescribed curriculum.

The first two years are spent in the College of Science, Literature, and the Arts. After completing the required courses of the first two years with a C average or after completing 90 credits including the required courses with a C average, the student is eligible for admission to Medical Technology (that is, for registration in the Medical School). For every five honor points in excess of the number necessary for a C average, the number 90 is diminished by one. The entire fourth year (twelve months) is spent in a rotating practical service in the laboratories of the University Hospitals or affiliated hospitals.

The following courses or their equivalents are prerequisites for admission to the junior year:

English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.

Chemistry 1-2-11 or 4-5-11 (General Inorganic Chemistry and Semimicro Qualitative Analysis, 12 credits); Analytical Chemistry 7 (Quantitative Analysis, 4 credits); Organic Chemistry 1-2 (Elementary Organic Chemistry, 8 credits).

Zoology 1-2-3 (General Zoology, 10 credits) and Zoology 21 (Histology, 5 credits).

Anatomy 3 (Elementary Human Anatomy, 3 credits).

Physics 1-2-3 (Introduction to Physical Science, 9 credits).

Bacteriology 53 (General Bacteriology, 5 credits) or Bacteriology 101 (Medical Bacteriology, 5 credits).

Electives. There is no essential limitation to the subjects which may be chosen as electives. However, it is advised that in the first two years the student elect introductory courses in subjects which she expects to continue in her junior year. A program that includes scattered electives will not be approved. Recommended electives are listed in the Bulletin of the Course in Medical Technology.

The Bulletin of the Course in Medical Technology, which may be obtained at the office of admissions and records, contains a suggested program for the first two years. For further information the student should consult special advisers in the Medical Technology office, M-519 University Hospitals, telephone: Main 8551.

Advisers—All students in this course should consult advisers in the Medical Technology office, M-519 University Hospitals.

Course in X-Ray Technology

The Course in X-Ray Technology is a four-year course given in the College of Science, Literature, and the Arts, and in the Medical School. The degree of bachelor of science is awarded upon completion of the prescribed curriculum.

The first two years are spent in the College of Science, Literature, and the Arts. After completing the required courses of the first two years with a C average or after completing 90 credits including the required courses with a C average, the student is

* Electives should be chosen to make, on the average, a program of 15 credits per quarter in addition to physical education. Social science should be chosen in the freshman year if possible. Electives in social science, natural science, and child welfare are urged, with special attention to the possible fields of specialization.

eligible for admission to Medical Technology (that is, for registration in the Medical School). For every five honor points in excess of the number necessary for a C average, the number 90 is diminished by one. The entire fourth year (twelve months) is spent in practical service in the X-ray laboratory of the University Hospitals.

The following courses or their equivalents must be completed before the student will be admitted to the junior year:

- English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
- Chemistry 1-2-11 or 4-5-11 (General Inorganic Chemistry and Qualitative Chemical Analysis, 12 credits).
- Zoology 1-2-3 (General Zoology, 10 credits) and Zoology 22 (Comparative Anatomy, 5 credits).
- Physics 1a-2a-3a (Introduction to Physical Science—with laboratory included, 12 credits).
- Mathematics 1 (Higher Algebra, 5 credits). High school higher algebra may be substituted for this requirement.
- Mathematics 15-16 (Elementary Mathematical Analysis, 10 credits).
- Bacteriology 53 (General Bacteriology, 5 credits).
- Electives. See Course in Medical Technology.

Combined Course in Medical and X-Ray Technology

The combined Course in Medical and X-Ray Technology is a four and one-half year course given in the College of Science, Literature, and the Arts and in the Medical School.

Upon completion of the prescribed curriculum the student is awarded the degree of bachelor of science in medical technology and a certificate of proficiency in X-ray technology. The requirements for the freshman and sophomore years are the same as for the Course in Medical Technology.

COURSE IN PHYSICAL THERAPY

The Physical Therapy Course is a four-year course leading to a bachelor of science degree in physical therapy. The first two years are spent in the College of Science, Literature, and the Arts during which time the studies are mainly in the basic sciences. The last two years are spent in the Medical School, Division of Physical Therapy. For more detailed information see the Physical Therapy Bulletin or write to Physical Therapy Division, W-300 University Hospitals, University of Minnesota, Minneapolis 14, Minnesota.

A graduate of this course is prepared to carry out techniques, under a physician's directions, applied to the following branches of physical therapy: hydrotherapy, thermotherapy, light therapy, electrotherapy, and mechanotherapy (massage and corrective exercises). Included also is the Kenny technique for the treatment of infantile paralysis. Graduates of this course are eligible to become registered physical therapy technicians.

Required Courses for Junior College

Freshman Year

1. English A-B-C (Freshman English, 15 credits) or English 4-5-6 (Freshman Composition, 9 credits) or Communication 1-2-3 (9 credits) or exemption from the requirement.
2. Zoology 1-2-3 (General Zoology, 10 credits).
3. Physics 1-2-3 (Introduction to Physical Science, 9 credits) or Physics 1a-2a-3a (Introduction to Physical Science, with laboratory included, 12 credits).
4. Public Health 3 (Personal Health, 2 credits); (Health Problems of the Community, 2 credits).
5. Humanities 1-2-3 (Humanities in the Modern World, 15 credits).

Sophomore Year

1. Chemistry 1-2 (General Inorganic Chemistry, 8 credits) or Chemistry 4-5 (General Inorganic Chemistry, 8 credits).
2. Psychology 1-2 (General Psychology, 6 credits).
3. Bacteriology 53 (General Bacteriology, 5 credits).
4. Child Welfare 40 (Child Training, 3 credits).
5. Neuropsychiatry 60 (Psychology of the Handicapped, 3 credits).

6. Nursing 2B (Introduction to Patient Care for Physical Therapists, 2 credits).
7. Anatomy—any elementary course.
8. Electives to make a total of 90 credits.

8. MILITARY AND NAVAL SCIENCE AND TACTICS

Both the Military and the Naval Departments offer programs in science and tactics and these are sufficiently different to merit separate description.

MILITARY SCIENCE AND TACTICS

The Department offers subjects in two courses, the Elementary Course and the Advanced Course, ROTC, leading to a commission in the Officers' Reserve Corps, Army of the United States. The objective of the course is to train the individual in the application of modern techniques of national defense and in assumption of leadership in time of national emergency.

Several important changes have been made in the Reserve Officers' Training Corps program, and it is anticipated that the new program outlined below will be in effect with the beginning of the university fall quarter, 1946. Further information may be obtained from the professor of Military Science and Tactics, Room 106, Armory.

Elementary Course—The Elementary Course of two academic years is open as an elective subject to selected male regular students over fourteen (14) years of age, who are citizens of the United States, and who are physically qualified. The course will consist of formal instruction for a minimum of three hours per week in subjects of a general nature applicable to the Army as a whole. Three college credits per year for satisfactory completion will be granted by the undergraduate colleges of the University. Credit for the entire Elementary Course may be granted for one year of prior honorable service in the armed forces (Army, Navy, Marine Corps, and Coast Guard). Uniform and texts will be furnished all students accepted for enrolment.

Advanced Course—The Advanced Course of two academic years is open to selected applicants who are physically qualified, who have received credit for the Elementary Course, and who have at least two years, undergraduate or graduate, remaining in their curriculum. The course will consist of formal instruction for a minimum of five hours per week during the academic year, and a summer camp of eight weeks' duration at the end of the first year. The course will be specialized in the branches represented at the University (Air Corps, Anti-aircraft Artillery, Signal Corps, Transportation Corps, Quartermaster Corps, Army Air Forces, and Medical Corps) and is designed to qualify the student for a reserve commission in one of these branches. Three college credits per quarter (nine per year) for successful completion will be granted by the undergraduate colleges of the University. Students enrolled in the Advanced Course will be paid a monetary allowance of approximately \$20 during the academic year and \$75 per month during the summer camp period. Uniform and texts will be furnished all students accepted for enrolment.

NAVAL SCIENCE AND TACTICS

Training in the Department of Naval Science and Tactics is provided as follows:

(a) **Regular NROTC Students** are appointed midshipmen, USNR and will be granted specified compensation and benefits. Such students assume an obligation to make all required summer practice cruises and to serve at least 15 months on active duty after commissioning as ensigns, U. S. Navy, or second lieutenants, U. S. Marine Corps.

(b) **Contract NROTC Students** have the status of civilians who have entered into a mutual contract with the Navy. For administrative purposes they are styled midshipmen. They are not entitled to the compensation or benefits paid regular NROTC students except that they are entitled to the specified uniform issue, payment of commutation of subsistence during their final two years of NROTC training, and the practice

cruise compensations specified. Contract NROTC students agree to accept a commission in the Naval Reserve or the Marine Corps Reserve but may, if they so desire and if their services are required, be commissioned as ensigns, USN or second lieutenants, USMC and serve for not less than 15 months on active duty. Contract NROTC students are required to make one summer practice cruise.

Marine Corps Candidates—(a) Sixteen and two-thirds per cent (16 $\frac{2}{3}$ %) of the graduates of the NROTC may be available for assignment to the Marine Corps or the Marine Corps Reserve.

(b) NROTC Marine Corps candidates retain their status as NROTC midshipmen and wear the uniform and insignia specified for all NROTC members.

Further details regarding the above types of training will be provided on application to the Department of Naval Science and Tactics.

Section V

THE RESPONSIBILITY OF STUDENTS

The achievement of a college education obviously can be realized only through the efforts of the student himself. The University seeks to provide the facilities with which such learning can take place, but whether the student will really achieve an education will depend upon the talent and determination with which he undertakes the job. In a college of this size the responsibilities assumed by the individual student are particularly significant.

First of all, there are certain decisions which the student must make. He must decide on the curriculum he wishes to follow, the subjects he wishes to take a particular quarter, and to a certain extent the hours when he takes them. The college authorities will give him every assistance in their power by furnishing him with the information he needs, but the decisions are his and he cannot escape making them. One implication of this is that the student must be sure the information on which he bases his decision is accurate. Too often a student decides on a certain plan on the basis of campus gossip only to find that he is in difficulties because the gossip did not give correct information. When in doubt, he should consult his adviser or some other responsible authority who can give him the facts.

There are certain other important matters for which a student should realize that he is responsible.

1. COLLEGE REGULATIONS

The faculty expresses its wishes regarding the plan of studies a student should follow through the curriculum. The student is responsible for a knowledge of this plan. It is a more or less general statement giving the student opportunity for certain choices. A student may find that even with the choices open to him the plan does not fit his needs, and he must ask for an exception in his case. This is done through a petition to the Students' Work Committee of the college. The committee is empowered to make exceptions to the requirements of the curriculum provided the exception is not contrary to the spirit of the faculty's wishes. Regular petition blanks are available in the offices of the assistant deans (see page 2 of this *Bulletin*). Junior College students should fill them out in duplicate and Senior College students in triplicate, securing the endorsement of the student's adviser if necessary. The blanks should then be at the office of the assist-

ant dean for students' work. If necessary, the student will be given opportunity to present his case in person. After the committee has taken action, the reply will be mailed to the student's university post-office in Coffman Memorial Union.

2. CLASS ATTENDANCE

The student in this college has a very definite responsibility for class attendance. The lecture and recitation are an important and necessary part of his training. The faculty definitely states that no absence without good reason is legitimate. It delegates the handling of absences to the various departments with the statement that they are to be dealt with under the assumption that each student is expected to do the full work of the class.

The various departments have differing ways of treating the matter, and the student should be sure he is familiar with the method of each department in which he is taking work.

3. SATISFACTORY PROGRESS

A student in this college is expected to make satisfactory progress in the curriculum he has selected. With the exception of those students who are candidates for the A.L.A. degree, this is interpreted to mean a C average (see page 10) over the work taken.

The cases of students who are not achieving this record are considered by the Students' Work Committee. During the quarter, instructors report to the committee the names of students who are likely to fail and these students are given an opportunity to discuss their cases with a special counselor to see what may be done to help them. It is always best for a student to see his class instructor or his faculty counselor as soon as he feels himself in difficulty rather than to wait until he has already received a poor grade.

4. PROBATION

Where the grades at the end of a quarter indicate a very serious situation, the student is placed on probation. This means that he is given very careful attention in an attempt to assist him to discover the reasons for his unsatisfactory work and means for improving his record. In most cases a student will be given at least one quarter in which to show improvement, but the period of probation will not be extended beyond two quarters unless the committee is convinced that the causes of his poor work are beyond his control and will soon disappear.

A student in the Junior College will be placed on probation if:

- a. At the end of any quarter he is below a passing grade in 50 per cent of his work for that quarter.
- b. At the end of two quarters' residence he has an average of less than one-half honor point per credit.
- c. After seven quarters' residence he has an average of less than three-fourths honor point per credit.

A student will be admitted to the Senior College on probation if he is allowed to transfer from the Junior College with an average of less than one honor point per credit. (See page 16.)

A student in the Senior College will be placed on probation if:

- a. He is below a passing grade in 40 per cent of his work.
- b. In two quarters' residence he fails to make an average of three-fourths honor point per credit.

EXCLUSION FROM COLLEGE

Students excluded from this college shall be recorded as (a) transferred, (b) discontinued, (c) dropped.

a. **Transferred**—Students whose attitude toward their work is satisfactory, but who evidently are pursuing an inappropriate course, may be transferred to another college at the close of any quarter with the approval of the two colleges concerned.

b. **Discontinued**—Students who are apparently pursuing the right course, but have been handicapped by conditions over which they have no control (ill health, necessary outside work, etc.) may be required to discontinue their registration until the committee is satisfied that the conditions under which they work are bettered. When such discontinuance takes place, at any time other than the end of the quarter, the courses for which the student is registered are recorded as cancelled without grade.

c. **Dropped**—Students who have failed to meet the terms of their probation shall be dropped.

Readmission—Students excluded from college shall be allowed to return only with the permission of the Students' Work Committee.

a. Students classified as discontinued must present evidence that the conditions which hindered their work have been remedied.

b. Students who have been dropped may be required to remain out of college until the term of the next year corresponding to that in which the delinquency occurred. Such students must present satisfactory evidence that they have been employed in an occupation demanding intelligence and responsibility or have successfully pursued subjects of an approved character. At the time when the student is dropped the Students' Work Committee will inform him what type of studies will be accepted for readmission.

The cancellation of a student's registration, of his own accord, will not affect his status as a delinquent student or the terms of his readmission. When a student leaves college he will be notified by the office of admissions and records of his status under these regulations.

Students who return under the provision of the preceding paragraphs will be registered on probation. Such students may be dropped at any time that their work is unsatisfactory to the Students' Work Committee.

INDEX

Page		Page	
Administrative officers	2	Law	
Admission	6	course in Business Administration and	36, 37
Adult special students	7	course in Arts and	36, 37
Advanced standing	7	Liberal Arts major	17
Agricultural Journalism, major in	22	Library Science	23
Amount of work	11		
Architecture	28	Medical Technology	42
Area Studies	19	Medicine	
Art, Courses in	20	Arts and	40
Associate in liberal arts, course leading to	14	Science and	38
Attendance to class	46	Military Science and Tactics	44
Auditors	11	Music	24
Average, scholarship	10		
Bachelor of arts, course leading to	15	Naval Science and Tactics	44
Business Administration	29	Nursing Education	40
Business Administration and Law	36	Occupational Therapy	21
Cancelling of courses	11	Petitions	13, 45
Changes in registration	11	Physical Therapy, course in	43
Combined arts and professional courses	17, 28-44	Privilege fees	9
Commercial Design	21	Probation	46
Correspondence study and Extension courses	12	Program. <i>See Combined Class Schedule</i>	
Counselors for students	8	Program planning	8
Courses without credit	11	Public Health Nursing	40
Credits	9	Quality credits	10
Dental Hygiene	31	Quality of work	10
Dentistry	31	Readmission	48
Arts and Dentistry	32	Registration	11
Education, College of, preliminary courses	32	changes in	11
Examinations		dates	9
for advanced standing	7	late, fee for	9
for credit	12	materials	8
to demonstrate proficiency	12	procedures	8
Extension courses	12	rules	9
Exclusion from college	47	Repetition of courses	10
Faculty advisers for students	8	Residence requirement	16, 17
Fees	13	Scholarship average	10
Freshmen	10	Senior College courses	10
General Education	4	election by Junior College students	11
General Educational Development Tests	13	requirements for admission to	15
Grades	9	Seniors	10
Graduate School, credit in	13	Social Work	25
Graduation, requirements for	15, 16	Sophomores	10
Graduation honors	18	Special fees	13
Honor points	9, 10	Special students	7, 8
Honors, graduation	18	Students' Work Committee	2
Humanities, course in	17	Subjects in other colleges, election of	12
Incompletes	9	Theological Training	
Industrial Design	22	preparation for	27
Journalism	22	Tuition	13
Junior and Senior colleges	5	University College	28
Junior College courses	10	Veterans	
Juniors	10	admission of	8

X-Ray Technology

42, 43